

**SCREENING LEVEL VAPOR INTRUSION
HUMAN HEALTH RISK ASSESSMENT
REPORT**

East Adjacent Properties – Property 2
24701, 24707, and 24747 Crenshaw
Boulevard
Torrance, California 90505
Investigative Order No.: R4-2020-0035



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October 11, 2021

Executive Summary

This report was prepared on behalf of Magellan Aerospace, Middletown, Inc. (Middletown) and Robinson Helicopter Company (Robinson) by Stantec Consulting Services Inc. (Stantec) to estimate potential vapor intrusion (VI) risks based on a recent VI study (Stantec 2020) at a property addressed as 24701, 24707, and 24747 Crenshaw Boulevard addresses (the Subject Property; Figure 1), collectively referred to as "Property 2" in the Los Angeles Regional Water Quality Control Board's (LARWQCB's) Investigative Order No. R4-2020-0035, dated May 12, 2020.

The LARWQCB has been overseeing environmental investigations at the Hi-Shear Corporation's (Hi-Shear's) facility located at 2600 Skypark Drive in Torrance, California (Site Cleanup Program [SCP] No. 0218) and at properties adjacent to the Hi-Shear facility which are identified as the East Adjacent Properties of Hi-Shear Corporation (EA Properties [SCP No. 1481]). Property 2, or the Subject Property, is one of the EA Properties.

Stantec evaluated potential vapor intrusion risks at this Property using 10 sub-slab soil vapor samples plus one duplicate sample and 10 collocated indoor air samples were collected at 10 locations across the entire building footprint in February 2021 (**Figure 2**). Analytical results were used to evaluate a reasonable maximum exposure (RME) scenario under the current commercial/industrial use following recent guidance from the California Environmental Protection Agency (Cal-EPA) [2020]:

1. indoor air sample results were used to estimate vapor intrusion risk to the *current* on-site worker, and
2. sub-slab soil vapor results were used to estimate potential vapor intrusion risk to the *hypothetical future* worker should building conditions change (e.g., the building slab integrity is compromised).

Current Inhalation Risks

The following table presents a summary of estimated *current* cancer risks and non-cancer hazards for commercial/industrial receptors based on indoor air sampling and analysis.

Receptor	Cancer Risk		Non-Cancer Hazard	
	Low	High	Low	High
Current Commercial/Industrial Receptor	3E-06	5E-06	2.2E-01	3.3E-01

The largest contributor to current cancer risk is chloroform detected above screening levels in 4 of 10 samples. However, a comparison of the ratio of indoor air to sub-slab concentrations suggests that indoor sources and other sources unrelated to vapor intrusion are likely responsible for the majority of chloroform detections and other constituents in indoor air, other than tetrachloroethene (PCE) and trichloroethene (TCE). Potable water, heat exchangers, cooling towers, etc., that treat water with chlorine are common sources of chloroform. Using the ratio of indoor air to sub-slab PCE and TCE concentrations, and assuming no indoor source contributions, indicates that the site-specific attenuation factor (AF) is on the order of 0.004 to 0.0001. The higher AFs may be indicative of indoor sources and/or preferential pathways from the subsurface to the indoor air environment. Conservatively discounting indoor air contributions and assuming all indoor air concentrations are the result of vapor intrusion, the calculated risks are within the lower end of the Cal-EPA risk management range (2020).

Future Vapor Intrusion Risks

The following table presents a summary of the range of estimated cancer risks and non-cancer hazards for commercial/industrial receptors based on use of 0.03 attenuation factor (see Section 3.17 Uncertainty Assessment):

Depth and Receptor	Cancer Risk		Non-Cancer Hazard	
	Low	High	Low	High
Sub-Slab Soil Vapor Commercial/Industrial Receptor	2E-06	9E-04	7.6E-02	7.7E+01

The theoretical health risks for the hypothetical future worker were calculated assuming all detected indoor air contributions were from vapor intrusion. The largest contributors to cancer risk are PCE and TCE detected above screening levels, using the conservative attenuation factor of 0.03 (Cal-EPA 2020), in all samples for PCE and 7 of 11 samples for TCE.

DISCUSSION

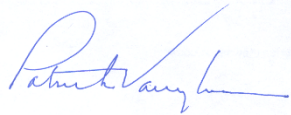
Use of a composite sample containing the maximum concentrations of chemicals detected in indoor air yielded an estimated potential cancer risk for the hypothetical current worker of 5E-06 which is above the point of departure of 1E-06 but well below an acceptable risk of 1E-05 used on a site-specific basis for industrial use properties and at the lower end of the Cal-EPA risk management range (10^{-6} to 10^{-4}).

A range of potential *future* vapor intrusion risks was estimated by comparing all results against human health risk-based soil vapor screening levels derived by dividing indoor air screening levels representing no unacceptable cancer risk or non-cancer hazards of less than 1 established either by California Department of Toxic Substances Control (DTSC) or the United States Environmental Protection Agency (USEPA) for commercial use properties, by an attenuation factor of 0.03.

Use of the 0.03 attenuation factor to simulate hypothetical *future* cancer risks indicates that commercial/industrial use cancer risks for PCE and TCE are above 1×10^{-4} and above the target non-cancer hazard target of 1 in two locations, VP-3, and VP-4. Estimated *future* potential site-wide risks to a commercial/industrial receptor ranged from 2E-06 to 9E-04. In no case did the concentrations of PCE and TCE in sub-slab soil vapor result in levels in indoor air predicted by what, in our opinion, is an overly conservative 0.03 attenuation factor. The use of an attenuation factor of 0.03 has been demonstrated to be a very conservative estimate of indoor air concentrations in typical slab-on-grade commercial and industrial buildings in California.

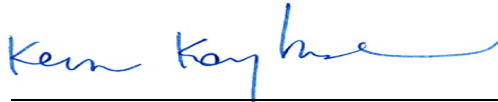
Please see Section 3.12 for a discussion of the uncertainties associated with these findings.

This SCREENING LEVEL VAPOR INTRUSION HUMAN HEALTH RISK ASSESSMENT REPORT was prepared by Stantec Consulting Services Inc. (Stantec) for Magellan Aerospace, Middletown, Inc. and Robinson Helicopter Co.. The material in it reflects Stantec's best judgment in light of the information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. Stantec accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.



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Abbreviations

%R	Percent recovery
AA	Ambient air
bgs	Below ground surface
Cal-EPA	California Environmental Protection Agency
COC	Chain-of-custody
COPCs	Chemicals of potential concern
CR	Cancer risk
Dasco	Dasco Engineering Corporation
DCE	Dichloroethene
DTSC	California Department of Toxic Substances Control
EA Properties	East-Adjacent Properties of Hi-Shear Corporation
EPC	Exposure point concentration
ESA	Environmental Site Assessment
ft	Feet
FREY	Frey Environmental Inc.
GER	Genesis Engineering & Redevelopment
HASP	Health and safety plan
H&P	H&P Mobile Geochemistry
HERO	DTSC Human and Ecological Risk Office
HHRA	Human health risk assessment
Hi-Shear	Hi-Shear Corporation
HVAC	Heating, ventilation and air conditioning
IA	Indoor air
In	Inch
IRIS	Integrated Risk Information System
IUR	Inhalation unit risk
LARWQCB	Los Angeles Regional Water Quality Control Board
LCS	Laboratory control sample
LCSD	Laboratory control sample duplicate
LRL	Laboratory Reporting Limit
Middletown	Magellan Aerospace, Middletown, Inc.
mL	Milliliter
msl	Mean seal level
µg/m ³	Micrograms per cubic meter
PCE	Tetrachloroethene
RfC	Reference concentration
RfD	Reference dose
RME	Reasonable maximum exposure
RSLs	USEPA Region 9 Regional Screening Levels
Robinson	Robinson Helicopter Company
SCP	Site Cleanup Program
SF	Slope factor

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Stantec	Stantec Consulting Services, Inc.
SLs	Cal-EPA, DTSC, HERO, HHRA Note Number 3, Screening Levels (June 2020)
TCA	Trichloroethane
TCE	Trichloroethylene
TCDB	Toxicity Criteria Database
USEPA	United States Environmental Protection Agency
VOCs	Volatile organic compounds
VI	Vapor intrusion
VP	Sub-slab vapor probe
µg/L	Micrograms per liter
µg/m ³	Micrograms per cubic meter

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1.0 INTRODUCTION

Stantec Consulting Services Inc (Stantec) has prepared this Human Health Risk Assessment (HHRA) for Property 2 located at 24701, 24707, and 24747 Crenshaw Boulevard Torrance, California 90505, in response to the Los Angeles Water Board issued Cleanup and Abatement Order No. R4-2021-0079 (Order).

1.1 OVERVIEW OF APPROACH

The risk assessment (RA) approach used to conduct this HHRA is consistent with current guidance within the state of California (DTSC 2014) with consideration of recent draft guidance (DTSC 2020) and is conservative in order to minimize the possibility of underestimating potential human health risks. To ensure a health protective (i.e., conservative) approach, a reasonable maximum exposure (RME) scenario was evaluated for the identified receptors. Risks and hazards were estimated using a deterministic approach developed based on site information that identifies potential receptors and potentially complete exposure pathways for risk characterization.

1.2 ORGANIZATION OF REPORT

The remainder of the HHRA Report is organized as follows:

- ☐ Section 2.0 Background
- ☐ Section 3.0 Human Health Risk Assessment
- ☐ Section 4.0 References

2.0 BACKGROUND

2.1 SITE DESCRIPTION AND LAND USE

The Subject Property (herein referred to as Property 2) consists of interconnected buildings located at 24701, 24707, and 24747 Crenshaw Boulevard in Torrance, California. Property 2 is part of a larger 27-acre parcel (Assessor Identification Number 7377-006-906) owned by the City of Torrance, which includes the Hi-Shear facility, the EA Properties, and the Torrance Airport. The Subject Property is in a predominantly commercial and light industrial area.

Property 2 is improved with a large slab-on-grade building occupying a footprint of approximately 50,000 square feet. The building was reportedly constructed in the 1950s and is currently configured primarily for manufacturing. Adjoining the manufacturing space is a two-story building space comprised of office suites. There is an additional external office suite along the north side of the Subject Property adjacent to Skypark Drive that was observed by Stantec to be undergoing remodeling (new paint, flooring, etc.). The building is constructed over a slab-on-grade foundation and is bordered by asphalt or concrete pavement on all sides

Frey Environmental Inc. (Frey) reportedly prepared a Phase I Environmental Site Assessment (ESA) report, dated September 14, 2015, for the 24701 and 24747 Crenshaw Boulevard (both part of Property

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2) and 2530 and 2540 Skypark Drive (Property 3) addresses. While the complete Phase I ESA was not available to Stantec for review, a summary of findings was presented in Frey's Evaluation of Subsurface VOCs, dated February 23, 2018 (Frey, 2018). The Phase I ESA noted that aerospace and manufacturing industries had occupied the building addresses since the 1960s, and that VOCs were potentially utilized during the various manufacturing processes and generated heavy metal products, byproducts, and wastes. The Phase I ESA also documented the use of petroleum-based products by current building occupants and visible staining of concrete in the 24747 Crenshaw Boulevard (Property 2) building and exterior yard space. A Property location map is illustrated on Figure 1. A Property map illustrating the main features of the Property is provided as Figure 2.

2.2 PHYSICAL SETTING

2.2.1 Topography

The Subject Property is situated at an elevation of approximately 81 to 83 feet (ft) above mean sea level (msl). The topography slopes gently towards the north. The Subject Property is bounded by Crenshaw Boulevard to the east and Skypark Drive to the north. The Subject Property is bounded to the south by a car dealership facility (Property 1 of the EA Properties), and to the west by a commercial/industrial manufacturing facility (Property 3 of the EA Properties).

2.2.2 Site Geology

A more detailed discussion of regional and local geology is presented in Sections 2.2 and 2.3 of Genesis Engineering & Redevelopment's (GER's) *Soil, Soil Vapor, and Groundwater Evaluation Delineation Module III – Interim Report*, dated July 3, 2020 (GER, 2020). GER described soils beneath the project area in four units as follows:

- *Unit 1: Silt and clay are predominant in the upper 15 to 25 feet of sediment with interbedded lenses of fat clay. This unit is generally uniform in thickness throughout the area; however, it thickens to 35 feet in the southwest part of the investigation area.*
- *Unit 2: This unit consists of primarily silty sand which grades to sand to the north along Crenshaw Boulevard. This unit extends to a depth of 40 to 50 feet below the ground surface ("bgs") and has a corresponding thickness between 20 feet and 30 feet.*
- *Unit 3: This unit consists generally of silt, clay, and fat clay that varies in thickness between 5 feet and 15 feet. Unit 3 is interbedded with clayey sand, silty sand, and/or sand layers that range in thickness between 1 foot and 3 feet. In the borings adjacent to Crenshaw Boulevard perched groundwater has occasionally been observed on top of Unit 3 or within the unit's interbeds. This unit is not as laterally continuous as are Units 1, 2, and 4 and tends to pinch out in areas resulting in windows that interconnect Unit 2 with Unit 4.*
- *Unit 4: Unit 4 is dominated by poorly graded to well graded sands and silty sand with interbedded 1 to 2-foot-thick layers of clayey sand. This unit is first encountered at a depth of 55 feet to 65 feet bgs and extends below the water table to at least 265 feet bgs. Occasional 1- to 3-foot-thick*

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discontinuous layers of silty sand and clayey sand occur throughout the unit. Heaving sands are encountered below the water table throughout the unit starting at approximately 110 feet bgs.

2.2.3 Site Hydrogeology

As presented in Sections 2.2 and 2.3 of GER's report (GER, 2020), the Gage Aquifer is present at a depth of approximately 90 feet bgs with a thickness of approximately 100 feet in the vicinity of Property 2 and is comprised primarily of sand. A perched water layer was reported by GER at a depth of approximately 60 feet bgs in the vicinity of the EA Properties, with the static water table being encountered at a depth of approximately 90 feet bgs. Groundwater generally flows to the southeast beneath Property 2. As presented in GER's *Second Semi-Annual 2020 Groundwater Monitoring Report*, dated February 18, 2021 (GER, 2021), groundwater elevations observed in the Hi-Shear groundwater monitoring well network have been steadily increasing since at least 2007, with average groundwater elevations increasing by approximately one foot per year since 2014.

2.3 PAST ASSESSMENTS

Stantec understands that multiple rounds of soil, groundwater, and soil vapor assessment have been performed on the Hi-Shear and EA Properties (including Property 2) by Hi-Shear's consultants. Reports documenting these assessment activities are available on the State Water Resources Control Board's online GeoTracker database page for SCP No. 0218 (https://geotracker.waterboards.ca.gov/profile_report.asp?global_id=SL204231523).

The most recent report documenting environmental assessment activities at Property 2 and the surrounding parcels is GER's Soil, Soil Vapor, and Groundwater Evaluation Delineation Module III – Interim Report (GER, 2020). A copy of a figure depicting the sample locations, as well as tables summarizing the collected analytical data are attached in Appendix B. The following summarizes key findings of GER as they relate to Property 2 (determined to be vapor probe locations VP-31, VP-105, and VP-133):

- To date, no investigations have identified VOCs in soil samples beneath Property 2 that indicate an on-site VOC source. As identified in GER's Soil, Soil Vapor, and Groundwater Evaluation Delineation Module III – Interim Report (GER, 2020) – the highest concentrations of tetrachloroethene (PCE) and trichloroethene (TCE) in on-site soil are 0.010 milligrams per kilogram (mg/kg) and 0.013 mg/kg, respectively (both of which are below applicable commercial/industrial screening criteria). In contrast, PCE and TCE concentrations in soil beneath the adjacent upgradient Hi-Shear property have been detected at concentrations as high as 1,600 mg/kg and 5,500 mg/kg, respectively (in HS3 at 50 feet bgs), as documented in Camp Dresser & McKee Inc.'s Report of Subsurface Soil Investigation at Hi-Shear Torrance Facility, dated May 15, 1991. Overall, the observed increasing concentration trend in soil vapor with depth, a general absence of VOCs in shallow soil beneath Property 2 and known sources/releases of PCE (and other VOCs) at the adjacent/upgradient Hi-Shear property suggest that VOC impacts beneath Property 2 (and the EA Properties, more generally) are the result of releases that have occurred at off-site locations. Potential off-site sources include not just the adjacent Hi-Shear property, but also the Torrance Airport. No significant detections of PCE, TCE, or other chlorinated solvents were identified in collected soil samples that would suggest a release on Property 2.

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- Based on data presented in GER's Second Semi-Annual 2020 Groundwater Monitoring Report (GER, 2021), one groundwater monitoring well (MW-12) is located on the western corner of Property 2. During a December 26, 2019 groundwater sampling event, the sample collected from MW-12 contained PCE and TCE at concentrations of 100 micrograms per liter ($\mu\text{g/L}$) and 10,000 $\mu\text{g/L}$, respectively. It should be noted that well MW-12 is screened from approximately 88 to 113 feet bgs. During the December 26, 2019 groundwater sampling event, GER observed the groundwater gradient to be towards the southeast (away from the Hi-Shear property and towards Properties 1, 2 and 3, which would be directly downgradient of GER's reported groundwater gradient and flow direction).
- When reviewing data collected from Property 2, the highest detected concentrations of PCE and TCE in soil vapor were observed by GER in VP-133 at concentrations of 250,000 micrograms per cubic meter ($\mu\text{g/m}^3$ [at a depth of 65 feet bgs]) and 280,000 $\mu\text{g/m}^3$ (at a depth of 85 feet bgs), respectively. A review of data presented in GER's report indicates that most of the collected soil vapor data on the EA Properties (including Property 2) exhibits increasing concentrations with depth suggests that the observed impacts are volatilizing from groundwater and/or the deep smear-zone resulting from fluctuations in groundwater levels over time.

In summary, based on the available data, the elevated vapor-phase concentrations of VOCs historically detected beneath Property 2 appear to represent volatilization of contaminants in groundwater, or in smear-zone soils resulting from impacted groundwater (adsorption to soils), rather than from a release at Property 2.

In 2020, Stantec conducted a VI study pursuant to the investigative order to evaluate whether the presence of subsurface VOCs potentially posed a vapor intrusion risk to Site workers. The VI Study scope of work included:

- Conducting a non-intrusive visual building survey
- Collecting three outdoor ambient air samples
- Collecting ten indoor air samples
- Installing and sampling ten sub-slab vapor probes
- Collecting pressure/vacuum measurements from the installed sub-slab vapor probes
- Analyzing ambient air, indoor air, and sub-slab vapor samples for VOCs; and
- Preparing a report summarizing the VI Study procedures and findings.

Stantec compared the ambient air, indoor air, and sub-slab vapor analytical data to the following screening criteria:

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- United States Environmental Protection Agency, Region 9, Regional Screening Levels (RSLs) for Indoor Air for Target Cancer Risk (TR) = $1E-06$, Target Hazard Quotient (THQ) = 1.0, and industrial land use (November 2020); and
- California Environmental Protection Agency, Department of Toxic Substances Control Human and Ecological Risk Office (HERO), Human Health Risk Assessment Note Number 3, Modified Screening Levels (SLs) for Indoor Air (June 2020) for commercial/industrial land use.

Twelve (12) VOCs were reported above laboratory reporting limits in sub-slab samples. Of these, only three VOCs (chloroform, tetrachloroethene [PCE], and trichloroethene [TCE]) were reported above sub-slab screening levels using a conservative attenuation factor of 0.03. Eighteen (18) VOCs were reported in at least one indoor air sample. Of these, only benzene, chloroform, and ethylbenzene were reported above the commercial industrial screening level. Based on the data collected by Stantec, the following conclusions were made with respect to the five analytes detected in indoor air and/or sub-slab vapor samples at concentrations above their respective RSLs and/or SLs:

- Benzene is present in indoor and outdoor ambient air at similar concentrations. A comparison of indoor air data to ambient air data suggests the benzene concentrations observed in indoor air are not originating subsurface vapors, or from the indoor building space, but rather are reflective of background ambient air conditions in the vicinity of the Subject Property.
- Ethylbenzene is present in one indoor air sample (IA-7) at a concentration exceeding the RSL; however, ethylbenzene was not detected in any of the sub-slab samples above the laboratory reporting limit ($<4.4 \mu\text{g}/\text{m}^3$). The ethylbenzene concentrations in indoor air do not appear to be originating from sub-slab vapor.
- Chloroform is present in four indoor air samples (IA-6, IA-7, IA-8, and IA-10) above the RSLs. However, the collocated sub-slab samples did not report chloroform above the laboratory reporting limit ($<4.9 \mu\text{g}/\text{m}^3$). Chloroform was reported above the RSL (using an attenuation factor of 0.03) at two of the sub-slab vapor samples (VP-3 and VP-4); however, chloroform was not reported above the laboratory reporting limit in either of the corresponding indoor air samples. Chloroform in indoor air does not appear to be originating from vapor intrusion but likely from other sources.
- PCE was reported above the SL at all 10 sub-slab vapor sample locations; however, PCE was not detected in any of the indoor samples at concentrations exceeding the SL. Further, PCE was not detected above the laboratory reporting limit at 7 of the 10 indoor air sample locations. Of the sample locations in which PCE was detected in the collected indoor samples, the ratio of indoor air to sub-slab PCE concentrations ranged from 0.0008 to 0.0203, with a mean ratio of 0.0077. However, using the reporting limit where indoor air samples were non-detect and comparing to sub-slab concentrations yields an indoor air to sub-slab concentration ratio as low as 0.00002.
- TCE was reported above the RSL in 7 of the 10 sub-slab sample locations; however, TCE was not detected in any of the indoor samples at concentrations exceeding the RSL. Further, TCE was not detected above the laboratory reporting limit at 8 of the 10 indoor air sample locations. Of the sample locations in which TCE was detected in the collected indoor samples (IA-7 and IA-

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10), the ratio of indoor air to sub-slab TCE concentrations were 0.0042 and 0.0022, respectively. However, using the reporting limit where indoor air samples were non-detect and comparing to sub-slab concentrations yields an indoor air to sub-slab concentration ratio as low as 0.00003.

The primary chemicals of potential concern (COPCs) for vapor intrusion are PCE and TCE; however, neither of these was reported above the chronic SL or RSL or above the short-term accelerated response action level (ARAL) in the case of TCE. Stantec opined that vapor intrusion is not a pathway of exposure of concern for other COPCs detected in indoor air, and that most of these COPCs are likely the result of sources other than intrusion from the subsurface

3.0 CONCEPTUAL SITE MODEL

A key step in the HHRA process is the development of a CSM that identifies the likely contaminant source areas, exposure pathways, and potential receptors. The CSM for human health presents potentially complete and incomplete current and future exposure pathways for the Site. The CSM is a dynamic model that is used to include or exclude sources of COPCs, receptors, or exposure pathways based on site history and current information.

3.1 SURROUNDING PROPERTY USE

The Property is in an area of mixed commercial and industrial use with Skypark Drive to the north and Crenshaw Boulevard to the east. Property 2 is bounded by Property 1 to the south and Property 3 to the west.

3.2 POTENTIAL SOURCES

Potential sources of subsurface impacts have been identified at the Hi-Shear Corporation facility located at 2600 Skypark Drive in Torrance, California and the LARWQCB has required evaluation of possible additional sources at East Adjacent Properties (EA Properties) which includes Property 2. As presented in Table 2 of GER's 2020 report, vapor phase COPC concentrations increase with depth to groundwater, with the highest observed concentrations being detected in soil vapor samples collected directly above groundwater; suggesting COPCs are partitioning from groundwater and/or smear-zone soils (interval of groundwater fluctuations within the lower vadose zone). Similarly, soil analytical data presented in Table 3 of GER's 2020 report (presented in Appendix B) suggests that the bulk of COPCs adsorbed to soil beneath Property 2 are constrained to smear-zone soils. Accordingly, the secondary source mass of the COPCs detected in groundwater and/or smear-zone soils are likely to be the primary source of COPCs in vapor phase below the Subject Property building.

3.3 POTENTIALLY EXPOSED POPULATIONS

The Subject Property is in use as a manufacturing facility and there are no known plans for a change in use given the industrialized uses in the vicinity. As such, commercial workers are the potentially exposed population considered under the current and reasonably likely future uses.

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3.4 POTENTIAL EXPOSURE PATHWAYS

An exposure pathway is the route that a chemical takes from the source to an exposed individual. An exposure pathway generally consists of the following four elements (USEPA, 1989):

- A source and mechanism of chemical release to the environment
- An environmental transport medium (e.g., soil, water, or soil vapor)
- An exposure point, or point of potential human contact, with the contaminated medium
- An exposure route (e.g., ingestion) at the point of human contact

If any of the above elements are missing, the pathway is considered incomplete, and exposure does not occur.

Exposures via the inhalation pathway consist of COPCs transported by air eventually reaching a receptor who inhales airborne vapor and gases. The following inhalation pathways relevant to soil gas sources were reviewed for inclusion in the risk assessment and consist of:

- Inhalation of soil gas impacted by COPCs that migrates to indoor air.

The inhalation of chemicals migrating to outdoor air from the subsurface, though a potentially complete pathway, was deemed to be insignificant as a potential exposure pathway.

3.5 POTENTIALLY EXPOSED POPULATIONS

Based on the current and reasonably likely future use of the building, this risk assessment has evaluated the potential health effects to only one RME receptor: the on-site commercial worker. The commercial worker is assumed to be at the Site for 8 hours a day, 5 days a week, 250 days/year, for 25 years.

3.6 EXPOSURE ASSESSMENT

Exposure is defined in the USEPA risk assessment guidelines as the contact of a receptor with a chemical or physical agent (USEPA, 1989 and 1992). The goal of the exposure assessment is to identify and quantify known and hypothetical exposure pathways relevant to an assessment of human health risk at a Site, and to determine the quantities or exposure doses or exposure concentrations of COPCs received by the potentially exposed populations.

3.6.1 RISK ASSESSMENT DATASETS

Ten indoor air samples and 10 collocated sub-slab soil vapor samples plus one duplicate sample were collected across the building footprint in February 2021. Sub-slab soil vapor and indoor/outdoor air datasets are provided in **Tables 1 and 2** respectively.

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3.6.2 SELECTION OF CHEMICALS OF POTENTIAL CONCERN (COPCS)

Twelve VOCs (2-butanone, chloroform, 1,1-dichloroethene, PCE, TCE, benzene, toluene, m,p- xylenes, 1,1,1-trichloroethane [1,1,1-TCA]) trichlorofluoromethane, and 1,1,2-trichlorotrifluoroethane were detected at least once in sub-slab soil vapor and have been selected as chemicals of potential concern (COPCs) for potential vapor intrusion and carried forward for quantitative evaluation (see **Table 2**).

3.6.3 EXPOSURE POINT CONCENTRATIONS

The Exposure Point Concentration (EPC) is the concentration of a COPC that could be contacted by a receptor during the assumed duration of exposure. EPCs for soil vapor represent either the chemical concentration or for chemicals reported as not-detect, the laboratory reporting limit, on a sample point-by-point.

3.6.4 DATA USABILITY ASSESSMENT

All laboratory data underwent a Stage 2 data verification and validation process. The major findings are as follows:

- H&P Mobile Geochemistry Report-ST021221-3. Ten sub-slab soil vapor samples plus one duplicate sample were analyzed as part of the data package. No analytes were detected in the laboratory method blanks; all surrogate recoveries were within method acceptance limits. A QL-1H qualifier was assigned to the laboratory control sample (LCS) and LCS duplicate (LCSD) recoveries for ethylbenzene indicating that the LCS/LCSD recoveries were below control limits and any detections of this compound should be considered biased high.
- H&P Mobile Geochemistry Report-ST020821. Ten indoor and outdoor air samples were analyzed as part of the data package. The only data qualifier assigned was for analysis of 2-butanone: an "E" qualifier was assigned because the concentrations of this analyte exceeded the instrument calibration range. No exceptions to the method were noted; no analytes were detected in the laboratory method blanks; all surrogate recoveries were within method acceptance limits; and percent recoveries (%R) was within acceptance limits in the LCS sample.

Based on this information all laboratory data are considered usable for their intended use.

3.7 SELECTION OF TOXICITY VALUES

Potential toxic effects of chemicals are generally classified as carcinogenic (i.e., cancer causing), or non-carcinogenic (i.e., non-cancer health effects). These endpoints are separately quantified in HHRAs as cancer risks and non-cancer health effects, respectively. Toxicity values numerically express the magnitude of potential toxic effects of chemicals. Reference doses (RfDs) and reference concentrations (RfCs) are used to quantify non-cancer health effects, and cancer slope factors (SFs) and inhalation unit risks (IURs) are used to quantify cancer risks. Both cancer and non-cancer endpoints may be evaluated for carcinogenic chemicals depending on the chemicals' toxic effects and availability of RfDs/RfCs.

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In accordance with the September 4, 2018, *Toxicity Criteria for Human Health Risk Assessments, Screening Levels, and Remediation Goals* rule, (California Code of Regulations, title 22, Chapter 50 Section 68400.5 and Chapter 51 Sections 69020, 69021, and 69022 [the Rule]), individual chemical screening levels in this screening level HHRA were based on:

- Table 1 Toxicity Criteria required by the Rule.
- USEPA Integrated Risk Information System (IRIS).
- Table 2 DTSC-recommended toxicity criteria for analytes with more than one non-IRIS toxicity value.
- For COPCs, listed in more than one source, the more protective toxicity values from the most current version of the USEPA RSL tables (USEPA May 2021) or the Toxicity Criteria Database (TCDB; Cal-EPA, last searched in September 2021) were used.

3.8 HUMAN HEATH RISK-BASED SCREENING LEVELS

3.8.1 Vapor Intrusion Screening Levels

This HHRA used screening levels calculated using standardized equations that combine conservative exposure assumptions with USEPA or Cal/EPA toxicity data. U.S. EPA Regional Screening Levels (RSLs) are concentrations that the USEPA considers to be protective of human health (including sensitive groups) over a lifetime. These values are intended to be protective; however, they are calculated without site-specific information and are not always applicable for every site.

The USEPA maintains a list of RSLs which are updated semi-annually (i.e., spring and fall). RSLs are risk-based concentrations derived from standardized equations developed for USEPA's Superfund program.

Cal-EPA Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) maintains a list of screening levels established for ambient (indoor) air that are presented in Human Health Risk Assessment Notes (HERO Note 3). The most recent version, released in June 2020, makes recommendations on the use of USEPA RSLs for tap water, soil and air (both for residential and industrial/commercial use) and provides alternate values to be used in lieu of RSLs for some compounds (Cal-EPA 2019). HERO Note 3 includes tables for compounds with air screening levels specific to California. For chemicals not listed, the USEPA RSLs were used.

Screening levels for soil vapor are not provided by DTSC in HERO Note 3 but were calculated by dividing the indoor air screening level by the DTSC default sub-slab and "near source" soil vapor to indoor air attenuation factor of 0.03

Soil vapor screening levels are provided by the California Regional Water Quality Control Board-San Francisco Bay Region (RWQCB-SFBR) however, except for use of TPH soil vapor Environmental Screening Levels (ESLs) DTSC recommends against use of the ESLs.

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3.9 RISK CHARACTERIZATION

For this HHRA, since current information indicates worker occupancy and exposure conditions are aligned with exposure assumptions used to develop DTSC (DTSC 2019) and USEPA screening levels for current and reasonably likely future commercial/industrial receptors, potential vapor intrusion risks were estimated using a comparison of the concentration of each chemical to the most protective carcinogenic or non-carcinogenic screening levels (SLs) as discussed in Section 3.7 and 3.8. All screening levels are based on a target Cancer Risk (CR) of 1E-06 and a hazard index (HI) = 1.

Theoretical cancer risks and non-cancer hazard quotients (HQs) for each chemical were estimated as follows:

For carcinogenic chemicals:

$$\text{Cancer Risk} = \frac{EPC}{SL} \times 0.000001$$

For non-carcinogenic chemicals or carcinogens with non-cancer screening levels:

$$\text{Hazard Quotient} = \frac{EPC}{SL}$$

Ratios of the concentration of a particular chemical in soil vapor to its human health risk-based concentration were calculated and then summed regardless of toxic endpoint across all chemicals to estimate a total CR and non-cancer HI.

Stantec collected paired indoor air/sub-slab samples across the building footprint in addition to three ambient (outdoor air samples). Consistent with the *Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion* (DTSC 2020), the results of the indoor air sampling were used to estimate *current* potential inhalation risks but only for those chemicals detected in both sub-slab soil vapor and indoor air. The results of the sub-slab soil vapor sampling and analysis were used to estimate potential *future* vapor intrusion risks based on use of a generic soil vapor to indoor air attenuation factor of 0.03 that we consider to not be representative of future conditions. The uncertainties associated with that approach are discussed in Section 3.12.

3.10 RISK CHARACTERIZATION SUMMARY

This section presents the results of the risk characterization which integrates the results of the toxicity and exposure assessments to estimate potential cancer risk (CR) and non-cancer hazard index (HI) associated with exposure to COPCs at the Site.

Various demarcations of acceptable risk have been established by regulatory agencies. USEPA considers that under most situations, cancer risks in the range of one-in-one million (1×10^{-6} or 1E-06) to one-in-ten thousand (1×10^{-4} or 1E-04) may be considered acceptable with cancer risks less than 1E-06 considered *de minimis*. For vapor intrusion, Cal-EPA guidance (Cal-EPA, 2011 and 2020) indicates that cumulative risk between 1E-06 and 1E-04 fall within a risk management range where no action, further evaluation, mitigation or remediation may be considered. A CR greater than 1E-04 indicates that

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mitigation and/or remediation is needed. Agencies within California may also consider, on a site-specific basis, a CR of 1E-05 (one-in-one hundred thousand) as representing an acceptable risk threshold for commercial/industrial receptors.

Current Inhalation Risks

The following table presents a summary of estimated *current* cancer risks and non-cancer hazards for commercial/industrial receptors based on indoor air sampling and analysis with no discounting of COPC concentrations that the data indicate are from sources other than vapor intrusion.

Receptor	Cancer Risk		Non-Cancer Hazard	
	Low	High	Low	High
Current Commercial/Industrial Receptor	3E-06	5E-06	2.7E-01	3.3E-01

The largest contributor to current cancer risk is chloroform detected above screening levels in 4 of 10 samples.

Future Vapor Intrusion Risks

The following table presents a summary of the range of estimated cancer risks and non-cancer hazards for commercial/industrial receptors based on use of 0.03 attenuation factor (see Section 3.17 Uncertainty Assessment):

Receptor	Cancer Risk		Non-Cancer Hazard	
	Low	High	Low	High
Sub-Slab Soil Vapor Commercial/Industrial Receptor	2E-06	9E-04	7.6E-02	7.7E+01

The largest contributors to cancer risk are PCE and TCE detected above screening levels, based on an attenuation factor of 0.03, in all samples for PCE and 7 of 11 samples for TCE.

3.11 DISCUSSION

Ten sub-slab soil vapor samples plus one duplicate sample and 10 collocated indoor air samples were collected at 10 locations across the entire building footprint in February 2021. Analytical results were used to evaluate a reasonable maximum exposure (RME) scenario under the current commercial/industrial use following recent guidance from the Cal-EPA [2011 and 2020]:

3. indoor air sample results were used to estimate vapor intrusion risk to the *current* on-site worker, and
4. sub-slab soil vapor results were used to estimate potential vapor intrusion risk to the *hypothetical future* worker should building conditions change (e.g., the building slab integrity is compromised).

Use of a composite sample containing the maximum concentrations of chemicals detected in indoor air yielded an estimated potential cancer risk for the current worker of 5E-06 which is above the point of departure of 1E-06 but well below an acceptable risk of 1E-05 used on a site-specific basis for industrial use properties and at the lower end of the DTSC risk management range (10^{-6} to 10^{-4}).

A range of potential *future* vapor intrusion risks was estimated by comparing all results against human health risk-based soil vapor screening levels derived by dividing indoor air screening levels representing

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no unacceptable cancer risk or non-cancer hazards of less than 1 established either by DTSC or the USEPA for commercial use properties, by what in our opinion is an overly conservative attenuation factor of 0.03.

Use of the 0.03 attenuation factor to simulate hypothetical *future* cancer risks indicates that commercial/industrial use cancer risks for PCE and TCE are above 1×10^{-4} and above the target non-cancer hazard target of 1 in two locations, VP-3, and VP-4. Estimated *future* potential site-wide risks to a hypothetical commercial/industrial receptor ranged from $2\text{E-}06$ to $9\text{E-}04$. In no case did the concentrations of PCE and TCE in sub-slab soil vapor result in levels in indoor air predicted by the 0.03 attenuation factor. The use of an attenuation factor of 0.03 has been demonstrated to be a very conservative estimate of indoor air concentrations in typical slab-on-grade commercial and industrial buildings in California.

3.12 UNCERTANTY ASSESSMENT

In general, uncertainties in the HHRA process are essentially the accumulated uncertainties associated with the methodologies used in estimating the health risk results (EPA 1989). They are the product of many factors affecting each component of the HHRA process. These factors generally include, at a minimum, measurement errors, conservative exposure and modeling assumptions, and uncertainty and variability of the values used in the assessment.

The term “uncertainty” is often used in risk assessment to describe what are two conceptually different terms: uncertainty and variability. Uncertainty can be described as the lack of a precise knowledge resulting in a fundamental data gap. Variability describes the natural heterogeneity of a population. Uncertainty can sometimes be reduced or eliminated through further measurements or study. By contrast, variability is inherent in environmental studies. Although variability can be better understood, it cannot be reduced through further measurement or study, although it may be more precisely defined. However, the additional cost of further data collection may become disproportional to the reduction in uncertainty.

The risks and hazards presented are consistent with USEPA’s stated goal of RME representing the high end of the possible risk distribution, which is generally considered to be greater than the 90th percentile and less than the 98th percentile. However, these estimates are based on numerous and often conservative assumptions, and, in the absence of definitive information, are used to ensure that actual sites risks are not underestimated. The cumulative effect of these assumptions can result in an analysis with an overall conservativeness greater than the individual components. Accordingly, it is important to note that the estimated risks presented here are based on numerous conservative assumptions in order to be protective of human health and to ensure that the risks presented here are more likely to be overestimated rather than underestimated.

Specific uncertainties associated with this HHRA include:

- ❑ According to the Cal-EPA 2020 draft vapor intrusion guidance, the attenuation factor of 0.03 should be applied for initial vapor intrusion screening regardless of depth of sample and assumes that attenuation is constant throughout the soil. Moreover, this attenuation factor has not yet been confirmed to be appropriate for the generally Mediterranean climate in southern California.

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The empirically derived attenuation factors which are the ratios of the indoor air concentrations arising from vapor intrusion (i.e., a chemical detected in both subsurface soil vapor and indoor air) to the subsurface concentrations at a point of depth of interest (USEPA 2012) range from 0.00008 to 0.00007 to 0.0019 for PCE and 0.0008 to 0.002 for TCE in the two samples where PCE and TCE were detected in both sub-slab soil vapor and indoor (Table 4). This indicates that for this building, applying an attenuation factor of 0.03 is overly conservative and not predictive of potential current or future vapor intrusion risk.

According to USEPA the use of screening levels based on an attenuation factor of 0.03 used in assessments reflects the goal to use a health-protective value that ensures a low probability of a false-negative (USEPA 2021b). However, as evidenced by this VI HHRA of the Subject Property, application of sub-slab soil vapor screening levels based on an attenuation factor of 0.03 did in fact result in an overestimate of potential vapor intrusion risk based on indoor air sampling and analysis.

- ❑ Indoor air results indicate that COPCs (notably PCE and TCE) are not encountered at all locations sampled within the building. The use of the maximum concentrations when evaluating *current* VI risk leads to an overestimate of potential risk as the maximum concentration is not uniformly detected across the entire property.
- ❑ There is uncertainty regarding the estimates of *current* risk using indoor air data for chemicals detected both in indoor air and in sub-slab soil vapor since such estimates do not consider or allow adjustments made for the contribution of chemicals in outdoor air to those identified in indoor air. Moreover, certain chemicals (i.e., 2-Butanone, 4-methyl-2-pentanone, toluene, etc.) though present in sub-slab soil vapor, are clearly amplified by chemical use within the building (the building is an operating manufacturing facility and removal of all chemicals used or stored was not feasible). No reduction in concentration was considered in the risk assessment even though the data indicate that the concentrations were clearly influenced by sources other than VI.
- ❑ The assumption that individuals within a receptor population (or subpopulation) will receive the same intake doses. Variability in parameters such as absorption rate, inhalation rate, frequency and duration of exposure, body weight, and activity pattern will exist even in a narrowly defined age group or identified sensitive subpopulation (EPA, 1992).
- ❑ It is assumed that contaminant concentrations will not decline over time due to source depletion.

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USEPA 2021b. United States Environmental Protection Agency, 2021, Record of Decision, Facet Enterprises, Inc. Superfund Site, Operable Unit 3, Chemung County, New York. September.

United States Geological Survey (USGS), 1981, Torrance, 7.5 Minute Topographic Map, Scale 1 inch = 2,400 feet.

TABLES

TABLE 1
Summary of Sub-Slab Vapor Sample Analytical Results
Property 2
24701, 24707, and 24747 Crenshaw Boulevard, Torrance, California 90505

Sample Location	Date Sampled	2-Butanone	Benzene	Carbon tetrachloride	Chloroform	Chloromethane	1,4-Dichlorobenzene	1,1-Dichloroethene	Ethylbenzene	4-Methyl-2-pentanone	Methylene chloride	Styrene	PCE	TCE	Toluene	1,1,1-Trichloroethane	Trichlorofluoromethane	1,1,2-Trichlorotrifluoroethane	1,2,4-Trimethylbenzene	m,p-Xylene	o-Xylene	All Other VOCs	Helium (LCC)
		(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(%)
EPA Reg. 9 RSL (Industrial) ¹		733,000	53	67	18	13,000	37	29,333	163	433,000	40,000	146,666	1,570	100	733,000	733,000	--	733,000	8,670	14,700	14,700	various	--
DTSC SL (Commercial/Industrial) ²		--	14	67	--	--	--	10,333	--	--	400	130,000	67	--	43,333	146,666	176,667	--	--	--	--	various	--
VP-1	02/11/21	82	<3.2	<6.4	<4.9	<2.1	<12	230	<4.4	<8.3	<3.5	<4.3	2,700	900	10	33	18	450	<5.0	<8.8	<4.4	ND	<0.10
VP-2	02/11/21	<30	<3.2	<6.4	8.6	<2.1	<12	140	<4.4	<8.3	<3.5	<4.3	1,800	910	6	6.6	<5.6	190	<5.0	<8.8	<4.4	ND	0.13
VP-2-DUP	02/11/21	<30	<3.2	<6.4	8.7	<2.1	<12	130	<4.4	<8.3	<3.5	<4.3	1,900	960	6.3	6.6	<5.6	170	<5.0	<8.8	<4.4	ND	<0.10
VP-3	02/11/21	<30	13	<6.4	18	<2.1	<12	360	<4.4	<8.3	<3.5	<4.3	44,000	20,000	6.8	35	11	290	<5.0	<8.8	<4.4	ND	0.13
VP-4	02/11/21	75	6.8	<6.4	200	<2.1	<12	230	<4.4	<8.3	<3.5	<4.3	7,300	4,600	29	7.8	8.3	560	<5.0	15	<4.4	ND	0.16
VP-5	02/11/21	45	3.2	<6.4	<4.9	<2.1	<12	<4.0	<4.4	<8.3	<3.5	<4.3	2,400	35	20	43	12	1,000	<5.0	12	<4.4	ND	<0.10
VP-6	02/11/21	42	<3.2	<6.4	<4.9	<2.1	<12	<4.0	<4.4	<8.3	<3.5	<4.3	900	64	9.5	<5.5	<5.6	250	<5.0	<8.8	<4.4	ND	<0.10
VP-7	02/11/21	47	<3.2	<6.4	<4.9	<2.1	<12	100	<4.4	<8.3	<3.5	<4.3	2,200	310	10	<5.5	13	920	<5.0	9.5	<4.4	ND	<0.10
VP-8	02/11/21	50	<3.2	<6.4	<4.9	<2.1	<12	<4.1	<4.4	<8.3	<3.5	<4.3	69	16	6.6	<5.5	<5.6	25	<5.0	<8.8	<4.4	ND	<0.10
VP-9	02/11/21	150	<3.2	<6.4	<4.9	<2.1	<12	<4.0	<4.4	9	<3.5	<4.3	1,200	61	16	<5.5	10	1,500	<5.0	12	<4.4	ND	<0.10
VP-10	02/11/21	87	<3.2	<6.4	<4.9	<2.1	<12	<4.0	<4.4	<8.3	<3.5	<4.3	1,000	320	10	<5.5	<5.6	500	<5.0	9.1	<4.4	ND	<0.10
Maximum		150.0	13.0	0.0	200.0	0.0	0.0	360.0	0.0	9.0	0.0	0.0	44000.0	20000.0	29.0	43.0	18.0	1500.0	0.0	15.0	0.0		

Notes:

Analysis for full-scan VOCs by USEPA Test Method TO-15, and for helium by ASTM Method D1945M.

PCE = Tetrachloroethene

TCE = Trichloroethene

VOC = Volatile organic compound

LCC = Leak-check compound

ug/m³ = Micrograms per cubic meter

ND = Not detected at or above the laboratory's reporting limit

DUP = Duplicate sample

< = Analyte not reported at or above the laboratory's reporting limit

-- = Not analyzed or not applicable

Bold concentrations represent detections exceeding established screening level.

1 = US Environmental Protection Agency Region 9 Regional Screening Levels for Indoor Air (TR=1E-06, HQ=1), November 2020 with an attenuation factor of 0.03 was utilized to calculate the listed values. The lower of the carcinogenic and non-carcinogenic values was utilized for each analyte.

2 = Department of Toxic Substances Control HERO Note 3, Table 1 - DTSC Recommended Screening Levels for Indoor Air, June 2020 with an attenuation factor of 0.03 was utilized to calculate the listed values. The lower of the carcinogenic and non-carcinogenic values was utilized for each analyte.

TABLE 2
Summary of Indoor Air & Ambient Air Sample Analytical Results
Property 2
24701, 24707, and 24747 Crenshaw Boulevard, Torrance, California 90505

Sample Location	Date Sampled	2-Butanone	Benzene	Carbon tetrachloride	Chloroform	Chloromethane	1,4-Dichlorobenzene	1,1-Dichloroethene	Ethylbenzene	4-Methyl-2-pentanone	Methylene chloride	Styrene	PCE	TCE	Toluene	1,1,1-Trichloroethane	Trichlorofluoromethane	1,1,2-Trichlorotrifluoroethane	1,2,4-Trimethylbenzene	m,p-Xylene	o-Xylene	All Other VOCs
		(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)
EPA Reg. 9 RSL (Industrial) ¹		22,000	1.6	2.0	0.53	390	1.1	880	4.9	13,000	1,200	4,400	47	3.0	22,000	22,000	--	22,000	260	440	440	various
DTSC SL (Commercial/Industrial) ²		--	0.42	2.0	--	--	--	310	--	--	12	3,900	2.0	--	1,300	4,400	5,300	--	--	--	--	various
Indoor Air Samples																						
IA-1	02/05/21	74	0.71	0.51	<0.25	1.2	<0.61	<0.40	<0.44	<0.83	0.56	<0.43	<0.69	<0.55	1.8	<0.55	0.96	<0.77	0.85	1.5	0.62	ND
IA-2	02/05/21	86	0.74	0.51	0.3	1.1	<0.61	<0.40	<0.44	<0.83	0.56	<0.43	<0.69	<0.55	1.3	<0.55	0.96	<0.77	0.55	1.2	0.48	ND
IA-2-DUP	02/05/21	85	0.61	0.51	0.3	1	<0.61	<0.40	<0.44	<0.83	0.49	<0.43	<0.69	<0.55	1.3	<0.55	1.1	<0.77	0.65	1.2	0.53	ND
IA-3	02/05/21	32	0.65	0.51	<0.25	1.3	<0.61	<0.40	<0.44	<0.83	0.56	<0.43	<0.69	<0.55	1.4	<0.55	1.2	<0.77	0.7	1.2	0.53	ND
IA-4	02/05/21	52	0.68	0.51	<0.25	1.2	<0.61	<0.40	<0.44	<0.83	0.56	<0.43	<0.69	<0.55	1.4	<0.55	0.9	<0.77	0.65	1.4	0.53	ND
IA-5	02/05/21	45	0.61	0.45	<0.25	0.95	<0.61	<0.40	<0.44	<0.83	0.53	<0.43	<0.69	<0.55	1.2	<0.55	0.85	<0.77	0.55	1.1	0.44	ND
IA-6	02/05/21	120	0.68	0.51	1.7	1.1	<0.61	<0.40	0.57	<0.83	0.56	<0.43	<0.69	<0.55	1.9	<0.55	0.85	<0.77	0.6	2.2	0.79	ND
IA-7	02/05/21	300	0.81	0.57	0.59	1.2	<0.61	<0.40	8.3	4.1	0.6	<0.43	1.7	1.3	5.1	<0.55	1.2	0.77	0.65	30	8.2	ND
IA-8	02/05/21	220	0.91	0.64	0.69	1.5	<1.2	<0.80	<0.88	<1.7	0.99	<0.86	1.4	<1.1	3.5	<1.1	1.4	<1.5	<1.0	3.3	1.3	ND
IA-9	02/05/21	390	0.81	0.57	0.44	1.2	<0.61	<0.40	1.5	1.2	0.74	<0.43	<0.69	<0.55	3.5	<0.55	1.2	0.93	1.2	5.7	1.9	ND
IA-10	02/05/21	230	0.94	0.64	0.89	1.5	0.79	<0.40	0.97	0.83	0.95	0.91	1.9	0.71	4.2	<0.55	1.4	1.6	0.95	3.6	1.3	ND
Ambient Air Samples																						
AA-1	02/05/21	1.2	0.81	0.51	<0.25	1.2	<0.61	<0.40	<0.44	<0.83	0.71	<0.43	<0.69	<0.55	1.6	<0.55	1.2	<0.77	0.5	1.1	0.44	ND
AA-2	02/05/21	3.9	0.65	0.51	<0.25	1.2	<0.61	<0.40	<0.44	<0.83	0.53	<0.43	<0.69	<0.55	1.5	<0.55	0.96	<0.77	0.6	1.1	0.48	ND
AA-3	02/05/21	5.9	0.91	0.51	<0.25	1.2	<0.61	<0.40	0.48	<0.83	0.63	<0.43	<0.69	<0.55	2.1	<0.55	1.2	<0.77	0.7	1.7	0.7	ND
Maximum		390.0	0.9	0.6	1.7	1.5	0.8	0.0	8.3	4.1	1.0	0.9	1.9	1.3	5.1	0.0	1.4	1.6	1.2	30.0	8.2	
FOD		3.0	3.0	3.0	0.0	3.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	3.0	0.0	3.0	0.0	3.0	3.0	3.0	

Notes:

Analysis for full-scan VOCs by USEPA Test Method TO-15.

PCE = Tetrachloroethene

TCE = Trichloroethene

VOC = Volatile organic compound

ug/m³ = Micrograms per cubic meter

ND = Not detected at or above the laboratory's reporting limit

DUP = Duplicate sample

< = Analyte not reported at or above the laboratory's reporting limit

-- = Not analyzed or not applicable

Bold concentrations represent detections exceeding established screening level.

1 = US Environmental Protection Agency Region 9 Regional Screening Levels for Indoor Air (TR=1E-06, HQ=1), May 2021; the lower of the carcinogenic and non-carcinogenic values is listed for each analyte.

2 = Department of Toxic Substances Control HERO Note 3, Table 1 - DTSC Recommended Screening Levels for Indoor Air, June 2020; the lower of the carcinogenic and non-carcinogenic values is listed for each analyte.

TABLE 3
Summary of Indoor Air & Ambient Air Sample Analytical Results and Selection of COPCs
Property 2
24701, 24707, and 24747 Crenshaw Boulevard, Torrance, California 90505

Chemical	Frequency of Detection			MAX (µg/m ³)			Detected in Sub- Slab?	Screening Level (µg/m ³)			MAX AF	COPC?
	Indoor	Outdoor	Soil Vapor	Indoor	Outdoor	Soil Vapor	Yes/No	Indoor	Outdoor	Soil Vapor		
2-Butanone	11/11	3/3	7/7	390	5.9	32	Y	nc	22,000	733,000	6.38	Y
Benzene	11/11	3/3	3/3	0.94	0.91	0.61	Y	0.42	13	0.42	0.05	Y
Carbon tetrachloride	11/11	3/3	0/11	0.64	0.51	0.45	N	2	180	2	--	N
Chloroform	7/11	0/3	4/4	1.7	0	0.3	Y	0.53	430	18	--	Y
Chloromethane	11/11	3/3	0/11	1.5	1.2	0.95	N	nc	390	13,000	--	N
1,4-Dichlorobenzene	0/11	0/3	0/11	0.79	0	0.79	N	1.1	3,500	37	--	N
1,1-Dichloroethene	0/11	0/11	6/11	0	0	360	Y	10,000	10,000	310	--	N
Ethylbenzene	3/11	0/3	0/11	8.3	0.48	0.57	N	4.9	440	163	--	N
4-Methyl-2-pentanone	3/11	0/3	1/11	4.1	0.48	0.57	Y	nc	13,000	433,000	--	N
Methylene Chloride	11/11	3/3	0/11	1.0	3	0/11	N	12	12	400	--	N
Styrene	0/11	0/3	0/11	0.91	0.71	0.49	N	nc	3,900	130,000	--	N
PCE	3/11	0/3	11/11	1.9	0	0.91	Y	2	180	67	2.6866	Y
TCE	2/11	0/3	11/11	1.3	0	1.4	Y	3	8.8	100	0.0880	Y
Toluene	11/11	3/3	11/11	5.1	0	0.71	Y	nc	1,300	43,333	7	N
1,1,1-Trichloroethane	0/11	0/3	6/6	1.2	2.1	1.2	Y	nc	4,400	146,666	--	N
Trichlorofluoromethane	11/11	3/3	6/6	1.4	1.2	0.85	Y	nc	5,300	176,667	0.12	N
1,1,2-Trichlorotrifluoroethane	3/11	0/3	11/11	1.6	0	0.77	Y	nc	22,000	733,000	--	Y
1,2,4-Trimethylbenzene	11/11	3/3	0/11	1.2	0.7	0.55	N	nc	260	8,670	--	N
m,p-Xylene	11/11	3/3	5/5	30	1.7	1.1	Y	nc	440	14,700	--	Y
o-Xylene	11/11	3/3	0/11	8.2	0.7	0.44	N	nc	440	14,700	--	N

Notes:

¹. COPC Reason Codes: COPC-Y = chemical detected in sub-slab soil vapor AND/OR indoor air and AF not indicative of other sources.

COPC-N = chemical not detected in sub-slab soil vapor but detected at least once in indoor air

AF = attenuation factor based on maximum detected values-indoor air/sub-slab.

-- = AF not calculated. Either indoor air or sub-slab soil vapor values missing.

². = Benzene sub-slab soil vapor reporting limit elevated above its SL in 1/09 samples. All other LRLs below its SL.

TABLE 4
Estimated Point-by-Point *Future* Potential Risks-COPCs in Sub-Slab Soil Vapor
Property 2
24701, 24707, and 24747 Crenshaw Boulevard, Torrance, California 90505

Chemical	Screening Level (ug/m3)		VP-1			VP-2			VP-2-DUP			VP-3		
	Cancer	Non-Cancer	Concentration (ug/m3)	Potential Risk		Concentration (ug/m3)	Potential Risk		Concentration (ug/m3)	Potential Risk		Concentration (ug/m3)	Potential Risk	
				CR	HQ		CR	HQ		CR	HQ		CR	HQ
2-Butanone	nc	730,000	82	--	1.12E-04	<30	--	4.11E-05	<30	--	4.11E-05	<30	--	4.11E-05
Benzene	14	440	<3.2	2.3E-07	7.27E-03	<3.2	2.3E-07	7.27E-03	<3.2	2.3E-07	7.27E-03	13	9.3E-07	2.95E-02
Chloroform	18	14,000	<4.9	2.7E-07	3.50E-04	9	5.0E-07	6.14E-04	9	4.8E-07	6.21E-04	18	1.0E-06	1.29E-03
1,1-Dichloroethene	nc	10,000	230	--	2.30E-02	140	--	1.40E-02	130	--	1.30E-02	360	--	3.60E-02
PCE	67	5,800	2,700	4.0E-05	4.66E-01	1,800	2.7E-05	3.10E-01	1,900	2.8E-05	3.28E-01	44,000	6.6E-04	7.59E+00
TCE	100	290	900	9.0E-06	3.10E+00	910	9.1E-06	3.14E+00	960	9.6E-06	3.31E+00	20,000	2.0E-04	6.90E+01
Toluene	nc	43,333	10	--	2.31E-04	6	--	1.38E-04	6.3	--	1.45E-04	6.8	--	1.57E-04
1,1,1-Trichloroethane	nc	150,000	33	--	2.20E-04	7	--	4.40E-05	7	--	4.40E-05	35	--	2.33E-04
Trichlorofluoromethane	nc	43,333	18	--	4.15E-04	<5.6	--	1.29E-04	<5.6	--	1.29E-04	11	--	2.54E-04
1,1,2-Trichlorotrifluoroethane	nc	733,330	450	--	6.14E-04	190	--	2.59E-04	170	--	2.32E-04	290	--	3.95E-04
m,p-Xylene	nc	15,000	<8.8	--	5.87E-04	<8.8	--	5.87E-04	<8.8	--	5.87E-04	<8.8	--	5.87E-04
				5.E-05	3.6E+00		4.E-05	3.5E+00		4.E-05	3.7E+00		9.E-04	7.7E+01

Chemical	Screening Level (ug/m3)		VP-4			VP-5			VP-6			VP-7		
	Cancer	Non-Cancer	Concentration (ug/m3)	Potential Risk		Concentration (ug/m3)	Potential Risk		Concentration (ug/m3)	Potential Risk		Concentration (ug/m3)	Potential Risk	
				CR	HQ		CR	HQ		CR	HQ		CR	HQ
2-Butanone	nc	730,000	75	--	1.03E-04	45	--	6.16E-05	42	--	5.75342E-05	47	--	6.44E-05
Benzene	14	440	6.8	4.9E-07	1.55E-02	3.2	2.3E-07	7.27E-03	<3.2	2.3E-07	0.007272727	<3.2	2.3E-07	7.27E-03
Chloroform	18	14,000	200	1.1E-05	1.43E-02	<4.9	2.7E-07	3.50E-04	<4.9	2.7E-07	0.00035	<4.9	2.7E-07	3.50E-04
1,1-Dichloroethene	nc	10,000	230	--	2.30E-02	<4.0	--	4.00E-04	<4.0	--	0.0004	100	--	1.00E-02
PCE	67	5,800	7,300	1.1E-04	1.26E+00	2,400	3.6E-05	4.14E-01	900	1.3E-05	0.155172414	2,200	3.3E-05	3.79E-01
TCE	100	290	4600	4.6E-05	1.59E+01	35	3.5E-07	1.21E-01	64	6.4E-07	0.220689655	310	3.1E-06	1.07E+00
Toluene	nc	43,333	29	--	6.69E-04	20	--	4.62E-04	9.5	--	0.000219232	10	--	2.31E-04
1,1,1-Trichloroethane	nc	150,000	8	--	5.20E-05	43	--	2.87E-04	<5.5	--	3.66667E-05	<5.5	--	3.67E-05
Trichlorofluoromethane	nc	43,333	8	--	1.92E-04	12	--	2.77E-04	<5.6	--	0.000129231	13	--	3.00E-04
1,1,2-Trichlorotrifluoroethane	nc	733,330	560	--	7.64E-04	1,000	--	1.36E-03	250	--	0.000340911	920	--	1.25E-03
m,p-Xylene	nc	15,000	15	--	1.00E-03	12	--	8.00E-04	<8.8	--	0.000586667	10	--	6.33E-04
				1.7E-04	1.7E+01		3.7E-05	5.5E-01		1.5E-05	3.9E-01		3.6E-05	1.5E+00

Chemical	Screening Level (ug/m3)		VP-8			VP-9			VP-10		
	Cancer	Non-Cancer	Concentration (ug/m3)	Potential Risk		Concentration (ug/m3)	Potential Risk		Concentration (ug/m3)	Potential Risk	
				CR	HQ		CR	HQ		CR	HQ
2-Butanone	nc	730,000	50	--	6.85E-05	150	--	2.05E-04	87	--	1.19E-04
Benzene	14	440	<3.2	2.3E-07	7.27E-03	<3.2	2.28571E-07	7.27E-03	<3.2	2.3E-07	7.27E-03
Chloroform	18	14,000	<4.9	2.7E-07	3.50E-04	<4.9	2.72222E-07	3.50E-04	<4.9	2.7E-07	3.50E-04
1,1-Dichloroethene	nc	10,000	<4.1	--	4.10E-04	<4.0	--	4.00E-04	<4.0	--	4.00E-04
PCE	67	5,800	69	1.0E-06	1.19E-02	1,200	1.79104E-05	2.07E-01	1,000	1.5E-05	1.72E-01
TCE	100	290	16	1.6E-07	5.52E-02	61	0.00000061	2.10E-01	320	3.2E-06	1.10E+00
Toluene	nc	43,333	6.6	--	1.52E-04	16	--	3.69E-04	10	--	2.31E-04
1,1,1-Trichloroethane	nc	150,000	<5.5	--	3.67E-05	<5.5	--	3.67E-05	<5.5	--	3.67E-05
Trichlorofluoromethane	nc	43,333	<5.6	--	1.29E-04	10	--	2.31E-04	<5.6	--	1.29E-04
1,1,2-Trichlorotrifluoroethane	nc	733,330	25	--	3.41E-05	1,500	--	2.05E-03	500	--	6.82E-04
m,p-Xylene	nc	15,000	<8.8	--	5.87E-04	12	--	8.00E-04	9	--	6.07E-04
				1.7E-06	7.6E-02		1.9E-05	4.3E-01		1.9E-05	1.3E+00

TABLE 5
Estimated *Current* Potential Risks-COPCs in Indoor Air
Property 2
24701, 24707, and 24747 Crenshaw Boulevard, Torrance, California 90505

Chemical	Max Indoor (µg/m3)	Max Outdoor (µg/m3)	Min Indoor (µg/m3)	Min Outdoor (µg/m3)	Max AF _{Building} ¹	Screening Level		Max Indoor Air Potential Risk		Min Indoor Air Potential Risk	
						Cancer	Non-Cancer	Cancer	Non-Cancer	Cancer	Non-Cancer
2-Butanone	390	5.9	32	1.2	0.38	nc	22,000	nc	1.77E-02	nc	1.45E-03
Benzene	0.94	0.91	0.61	0.65	0.07	0.42	13	nc	7.23E-02	1.5E-06	4.69E-02
Chloroform	1.7	0	0.3	0	0.01	0.53	430	3.2E-06	3.95E-03	5.7E-07	6.98E-04
PCE	1.9	0	0.91	0	0.00004	2	180	9.5E-07	1.06E-02	4.6E-07	5.06E-03
TCE	1.3	0	1.4	0	0.00007	3	8.8	4.3E-07	1.48E-01	4.7E-07	1.59E-01
Toluene	5.1	0	0.71	0	0.18	nc	1,300	nc	3.92E-03	nc	5.46E-04
1,1,1-Trichloroethane	1.2	2.1	1.2	1.5	0.03	nc	4,400	nc	2.73E-04	nc	2.73E-04
Trichlorofluoromethane	1.4	1.2	0.85	0.96	0.08	nc	5,300	nc	2.64E-04	nc	1.60E-04
1,1,2-Trichlorotrifluoroethane	1.6	0	0.77	0	0.00107	nc	22,000	nc	7.27E-05	nc	3.50E-05
m,p-Xylene	30	1.7	1.1	1.1	2.00	nc	440	nc	6.82E-02	nc	2.50E-03
TOTAL								5.E-06	3.2E-01	3.E-06	2.2E-01

TABLE 6
Empirically-Derived Building Attenuation Factors
Property 2
24701, 24707, and 24747 Crenshaw Boulevard, Torrance, California 90505

Chemical	Screening Level (ug/m3)		IA-1	VP-1	AF	IA-2	VP-2	MAX AF	IA-3	VP-3	AF
			Concentration (ug/m3)	Concentration (ug/m3)		Concentration (ug/m3)	Concentration (ug/m3)		Concentration (ug/m3)	Concentration (ug/m3)	
	Cancer	Non-Cancer									
2-Butanone	nc	730,000	74	82	0.90244	86	<30	--	32	<30	--
Benzene	14	440	0.71	<3.2	--	0.74	<3.2	--	0.65	13	0.05
Chloroform	18	14,000	<0.25	<4.9	--	0.3	9	0.0349	<0.25	18	--
1,1-Dichloroethene	nc	10,000	<0.40	230	--	<0.40	140	--	<0.40	360	--
4-Methyl-2-pentanone	nc	440,000	<0.83	<8.3	--	<0.83	<8.3	--	<0.83	<8.3	--
PCE	67	5,800	<0.69	2,700	--	<0.69	1,800	--	<0.69	44,000	--
TCE	100	290	<0.55	900	--	<0.55	910	--	<0.55	20000	--
Toluene	nc	43,333	2	10	0.18000	1.3	6	0.2167	1.4	6.8	0.2059
1,1,1-Trichloroethane	nc	150,000	<0.55	33	--	<0.55	7	--	<0.55	35	--
Trichlorofluoromethane	nc	43,333	1	18	0.05333	0.96	<5.6	--	1.2	11	0.1091
1,1,2-Trichlorotrifluoroethane	nc	733,330	<0.77	450	--	<0.77	190	--	<0.77	290	--
m,p-Xylene	nc	15,000	2	<8.8	--	1.2	<8.8	--	1	<8.8	--

Chemical	Screening Level (ug/m3)		IA-4	VP-4	AF	IA-5	VP-5	AF	IA-6	VP-6	AF
			Concentration (ug/m3)	Concentration (ug/m3)		Concentration (ug/m3)	Concentration (ug/m3)		Concentration (ug/m3)	Concentration (ug/m3)	
	Cancer	Non-Cancer									
2-Butanone	Cancer	Non-Cancer	52	75	0.6933	45	45	1	120	42	2.86
Benzene	14	440	0.68	6.8	0.1000	0.61	3.2	0.1906	0.68	<3.2	--
Chloroform	18	14,000	<0.25	200	--	<0.25	<4.9	--	1.70	<4.9	--
1,1-Dichloroethene	nc	10,000	<0.40	230	--	<0.40	<4.0	--	<0.40	<4.0	--
4-Methyl-2-pentanone	nc	440,000	<0.83	<8.3	--	<0.83	<8.3	--	<0.83	<8.3	--
PCE	67	5,800	<0.69	7,300	--	<0.69	2,400	--	<0.69	900	--
TCE	100	290	<0.55	4600	--	<0.55	35	--	<0.55	64	--
Toluene	nc	43,333	1.40	29	0.0483	1.2	20	0.0600	1.9	9.5	0.200
1,1,1-Trichloroethane	nc	150,000	<0.55	8	--	<0.55	43	--	<0.55	<5.5	--
Trichlorofluoromethane	nc	43,333	0.90	8	0.1084	0.85	12	0.0708	1	<5.6	--
1,1,2-Trichlorotrifluoroethane	nc	733,330	<0.77	560	--	<0.77	1,000	--	<0.77	250	--
m,p-Xylene	nc	15,000	1.40	15	0.0933	1.1	12	0.0917	2	<8.8	--

Chemical	Screening Level (ug/m3)		IA-7	VP-7	AF	IA-8	VP-8	AF	IA-9	VP-9	AF
			Concentration (ug/m3)	Concentration (ug/m3)		Concentration (ug/m3)	Concentration (ug/m3)		Concentration (ug/m3)	Concentration (ug/m3)	
	Cancer	Non-Cancer									
2-Butanone	nc	730,000	300	47	6.38	220	50	4.40	390	150	2.60
Benzene	14	440	0.81	<3.2	--	0.91	<3.2	--	0.81	<3.2	--
Chloroform	18	14,000	0.59	<4.9	--	0.69	<4.9	--	0	<4.9	--
1,1-Dichloroethene	nc	10,000	<0.40	100	--	<0.80	<4.1	--	<0.40	<4.0	--
4-Methyl-2-pentanone	nc	440,000	4	<8.3	--	<1.7	<8.3	--	1.2	9	0.13
PCE	67	5,800	1.7	2,200	0.0008	1.4	69	0.02	<0.69	1,200	--
TCE	100	290	1.3	310	0.0042	<1.1	16	--	<0.55	61	--
Toluene	nc	43,333	5	10	0.51	3.5	6.6	0.53	3.5	16	0.22
1,1,1-Trichloroethane	nc	150,000	<0.55	<5.5	--	<1.1	<5.5	--	<0.55	<5.5	--
Trichlorofluoromethane	nc	43,333	1.20	13	0.0923	1.4	<5.6	--	1	10	0.12
1,1,2-Trichlorotrifluoroethane	nc	733,330	0.77	920	0.0008	<1.5	25	--	1	1,500	0.00
m,p-Xylene	nc	15,000	30	10	3	3	<8.8	--	6	12	0.48

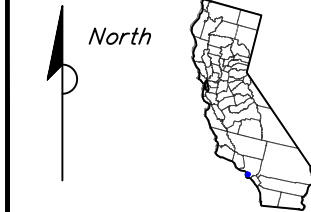
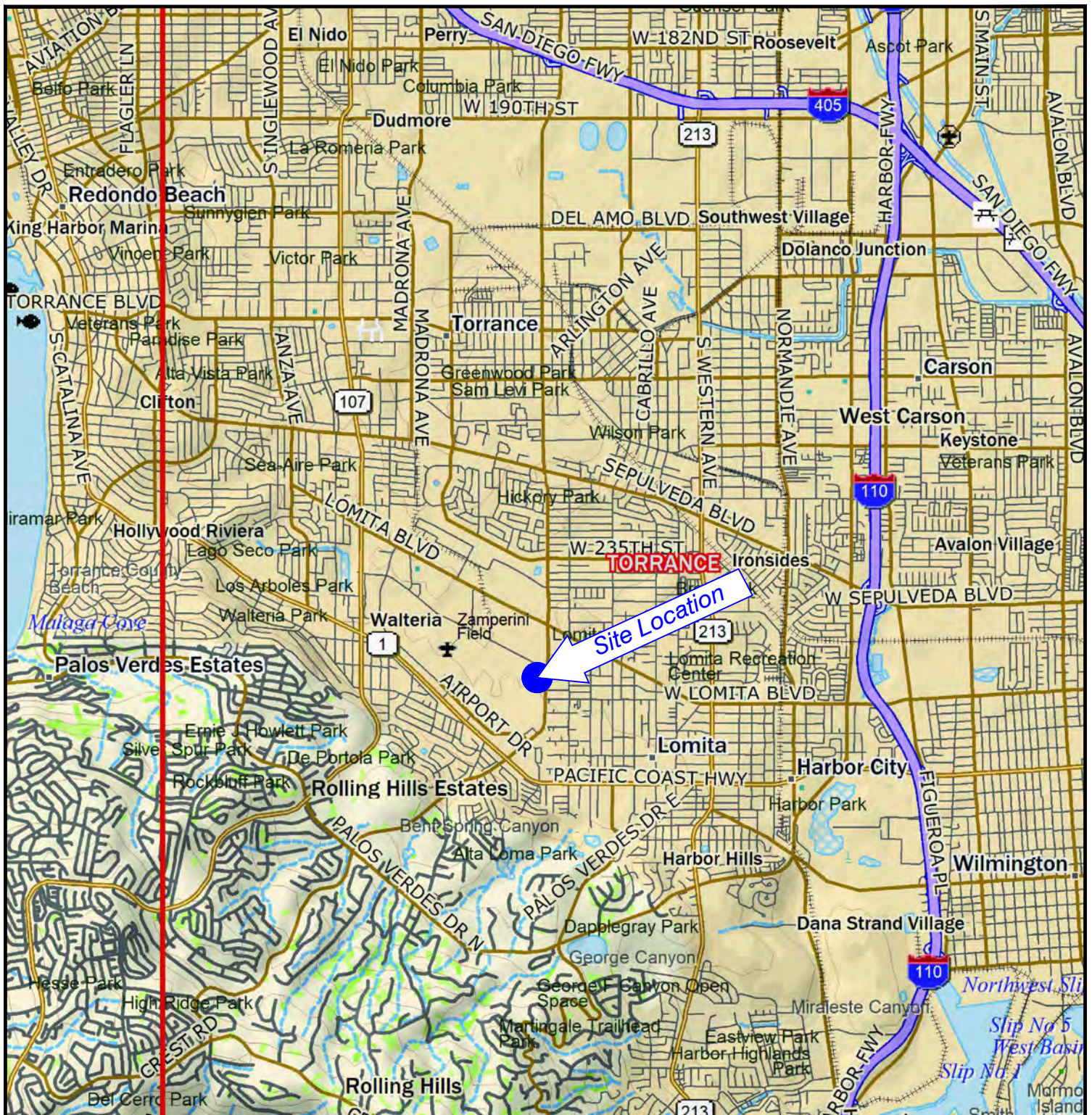
Chemical	Screening Level (ug/m3)		IA-10	VP-10	AF
			Concentration (ug/m3)	Concentration (ug/m3)	
	Cancer	Non-Cancer			
2-Butanone	nc	730,000	230	87	2.64
Benzene	14	440	0.94	<3.2	--
Chloroform	18	14,000	0.89	<4.9	--
1,1-Dichloroethene	nc	10,000	<0.40	<4.0	--
4-Methyl-2-pentanone	nc	440,000	0.83	<8.3	--
PCE	67	5,800	1.9	1,000	0.0019
TCE	100	290	0.71	320	0.0022
Toluene	nc	43,333	4.2	10	0.42
1,1,1-Trichloroethane	nc	150,000	<0.55	<5.5	--
Trichlorofluoromethane	nc	43,333	1.40	<5.6	--
1,1,2-Trichlorotrifluoroethane	nc	733,330	1.6	500	0.00
m,p-Xylene	nc	15,000	3.6	9.1	0.40

Notes:

AF = attenuation factor = ratio of chemical concentration in indoor air to concentration in sub-slab soil vapor.

-- = AF cannot be calculated- either indoor air or sub-slab value missing.


FIGURES



CALIFORNIA

REFERENCE: DELORME TOPO MAP, TORRANCE, CALIFORNIA

No warranty is made by Stantec Consulting Services Inc. as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and/or information.

 <p>Stantec</p> <p>290 Conejo Ridge Avenue Thousand Oaks, CA 91361 PHONE: (805) 230-1266 FAX: (805) 230-1277</p>	<p>EAST ADJACENT PROPERTIES - PROPERTY 2</p> <p>24701, 24707, AND 24747 CRENSHAW BOULEVARD TORRANCE, CALIFORNIA</p>	<p>SITE LOCATION MAP</p>	<p>FIGURE: 1</p>
<p>JOB NUMBER: 185804849</p>	<p>DRAWN BY: STA</p>	<p>CHECKED BY: BC</p>	<p>APPROVED BY: BC</p>
<p>DATE: 08/10/20</p>			



LEGEND:



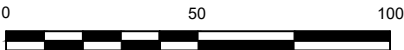
APPROXIMATE PROPERTY BOUNDARY



INDOOR AIR/SUB-SLAB VAPOR SAMPLE LOCATION




AMBIENT AIR SAMPLING LOCATION



APPROXIMATE SCALE IN FEET

NOTE:
INTERIOR FLOOR PLAN DIGITIZED USING A SITE PLAN PROVIDED BY DASCO
ENGINEERING CORPORATION.

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 <div>290 Conejo Ridge Avenue Thousand Oaks, CA 91361 PHONE: (805) 230-1266 FAX: (805) 230-1277</div>	FOR: EAST ADJACENT PROPERTIES PROPERTY 2 24701, 24707, AND 24747 CRENSHAW BOULEVARD TORRANCE, CALIFORNIA		VAPOR INTRUSION STUDY SAMPLE LOCATIONS		FIGURE: 2
	JOB NUMBER: 185804979	DRAWN BY: JBL	CHECKED BY: BC	APPROVED BY: LS	DATE: 02/12/21

ATTACHMENT A
CERTIFIED LABORATORY ANALYTICAL REPORTS

12 February 2021

Lewis Simons
Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

H&P Project: ST020821-13
Client Project: 185804980 / Crenshaw Blvd

Dear Lewis Simons:

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 05-Feb-21 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.

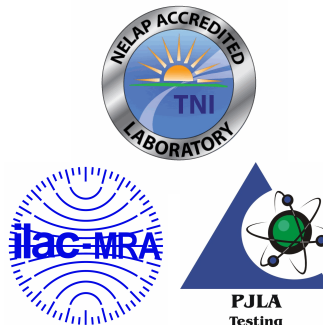
We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

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. Fields of services and analytes contained in this report that are not listed on the certificates should be considered uncertified or unavailable for certification.



Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
IA-8	E102029-01	Vapor	05-Feb-21	05-Feb-21
IA-10	E102029-02	Vapor	05-Feb-21	05-Feb-21
IA-9	E102029-03	Vapor	05-Feb-21	05-Feb-21
IA-7	E102029-04	Vapor	05-Feb-21	05-Feb-21
IA-6	E102029-05	Vapor	05-Feb-21	05-Feb-21
IA-5	E102029-06	Vapor	05-Feb-21	05-Feb-21
IA-4	E102029-07	Vapor	05-Feb-21	05-Feb-21
IA-3	E102029-08	Vapor	05-Feb-21	05-Feb-21
AA-2	E102029-09	Vapor	05-Feb-21	05-Feb-21
IA-2	E102029-10	Vapor	05-Feb-21	05-Feb-21
IA-2 DUP	E102029-11	Vapor	05-Feb-21	05-Feb-21
IA-1	E102029-12	Vapor	05-Feb-21	05-Feb-21
AA-3	E102029-13	Vapor	05-Feb-21	05-Feb-21
AA-1	E102029-14	Vapor	05-Feb-21	05-Feb-21

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

DETECTIONS SUMMARY

Sample ID: IA-8

Laboratory ID: E102029-01

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Chloromethane	1.5	0.41	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.4	1.1	ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.99	0.71	ug/m3	EPA TO-15	
2-Butanone (MEK)	220	1.2	ug/m3	EPA TO-15	E
Chloroform	0.69	0.49	ug/m3	EPA TO-15	
Benzene	0.91	0.32	ug/m3	EPA TO-15	
Carbon tetrachloride	0.64	0.64	ug/m3	EPA TO-15	
Toluene	3.5	1.5	ug/m3	EPA TO-15	
Tetrachloroethene	1.4	1.4	ug/m3	EPA TO-15	
m,p-Xylene	3.3	0.88	ug/m3	EPA TO-15	
o-Xylene	1.3	0.88	ug/m3	EPA TO-15	

Sample ID: IA-10

Laboratory ID: E102029-02

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Chloromethane	1.5	0.21	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.4	0.56	ug/m3	EPA TO-15	
1,1,2-Trichlorotrifluoroethane (F113)	1.6	0.77	ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.95	0.35	ug/m3	EPA TO-15	
2-Butanone (MEK)	230	0.60	ug/m3	EPA TO-15	E
Chloroform	0.89	0.25	ug/m3	EPA TO-15	
Benzene	0.94	0.16	ug/m3	EPA TO-15	
Carbon tetrachloride	0.64	0.32	ug/m3	EPA TO-15	
Trichloroethene	0.71	0.55	ug/m3	EPA TO-15	
4-Methyl-2-pentanone (MIBK)	0.83	0.83	ug/m3	EPA TO-15	
Toluene	4.2	0.76	ug/m3	EPA TO-15	
Tetrachloroethene	1.9	0.69	ug/m3	EPA TO-15	
Ethylbenzene	0.97	0.44	ug/m3	EPA TO-15	
m,p-Xylene	3.6	0.44	ug/m3	EPA TO-15	
Styrene	0.91	0.43	ug/m3	EPA TO-15	
o-Xylene	1.3	0.44	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	0.95	0.50	ug/m3	EPA TO-15	
1,4-Dichlorobenzene	0.79	0.61	ug/m3	EPA TO-15	

Sample ID: IA-9

Laboratory ID: E102029-03

Analyte	Result	Reporting	Units	Method	Notes
		Limit			

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Sample ID: IA-9

Laboratory ID: E102029-03

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chloromethane	1.2	0.21		ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.2	0.56		ug/m3	EPA TO-15	
1,1,2-Trichlorotrifluoroethane (F113)	0.93	0.77		ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.74	0.35		ug/m3	EPA TO-15	
2-Butanone (MEK)	390	0.60		ug/m3	EPA TO-15	E
Chloroform	0.44	0.25		ug/m3	EPA TO-15	
Benzene	0.81	0.16		ug/m3	EPA TO-15	
Carbon tetrachloride	0.57	0.32		ug/m3	EPA TO-15	
4-Methyl-2-pentanone (MIBK)	1.2	0.83		ug/m3	EPA TO-15	
Toluene	3.5	0.76		ug/m3	EPA TO-15	
Ethylbenzene	1.5	0.44		ug/m3	EPA TO-15	
m,p-Xylene	5.7	0.44		ug/m3	EPA TO-15	
o-Xylene	1.9	0.44		ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	1.2	0.50		ug/m3	EPA TO-15	

Sample ID: IA-7

Laboratory ID: E102029-04

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chloromethane	1.2	0.21		ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.2	0.56		ug/m3	EPA TO-15	
1,1,2-Trichlorotrifluoroethane (F113)	0.77	0.77		ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.60	0.35		ug/m3	EPA TO-15	
2-Butanone (MEK)	300	0.60		ug/m3	EPA TO-15	E
Chloroform	0.59	0.25		ug/m3	EPA TO-15	
Benzene	0.81	0.16		ug/m3	EPA TO-15	
Carbon tetrachloride	0.57	0.32		ug/m3	EPA TO-15	
Trichloroethene	1.3	0.55		ug/m3	EPA TO-15	
4-Methyl-2-pentanone (MIBK)	4.1	0.83		ug/m3	EPA TO-15	
Toluene	5.1	0.76		ug/m3	EPA TO-15	
Tetrachloroethene	1.7	0.69		ug/m3	EPA TO-15	
Ethylbenzene	8.3	0.44		ug/m3	EPA TO-15	
m,p-Xylene	30	0.44		ug/m3	EPA TO-15	
o-Xylene	8.2	0.44		ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	0.65	0.50		ug/m3	EPA TO-15	

Sample ID: IA-6

Laboratory ID: E102029-05

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chloromethane	1.1	0.21		ug/m3	EPA TO-15	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Sample ID: IA-6

Laboratory ID: E102029-05

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Trichlorofluoromethane (F11)	0.85	0.56		ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.56	0.35		ug/m3	EPA TO-15	
2-Butanone (MEK)	120	0.60		ug/m3	EPA TO-15	E
Chloroform	1.7	0.25		ug/m3	EPA TO-15	
Benzene	0.68	0.16		ug/m3	EPA TO-15	
Carbon tetrachloride	0.51	0.32		ug/m3	EPA TO-15	
Toluene	1.9	0.76		ug/m3	EPA TO-15	
Ethylbenzene	0.57	0.44		ug/m3	EPA TO-15	
m,p-Xylene	2.2	0.44		ug/m3	EPA TO-15	
o-Xylene	0.79	0.44		ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	0.60	0.50		ug/m3	EPA TO-15	

Sample ID: IA-5

Laboratory ID: E102029-06

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chloromethane	0.95	0.21		ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	0.85	0.56		ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.53	0.35		ug/m3	EPA TO-15	
2-Butanone (MEK)	45	0.60		ug/m3	EPA TO-15	
Benzene	0.61	0.16		ug/m3	EPA TO-15	
Carbon tetrachloride	0.45	0.32		ug/m3	EPA TO-15	
Toluene	1.2	0.76		ug/m3	EPA TO-15	
m,p-Xylene	1.1	0.44		ug/m3	EPA TO-15	
o-Xylene	0.44	0.44		ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	0.55	0.50		ug/m3	EPA TO-15	

Sample ID: IA-4

Laboratory ID: E102029-07

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chloromethane	1.2	0.21		ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	0.90	0.56		ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.56	0.35		ug/m3	EPA TO-15	
2-Butanone (MEK)	52	0.60		ug/m3	EPA TO-15	
Benzene	0.68	0.16		ug/m3	EPA TO-15	
Carbon tetrachloride	0.51	0.32		ug/m3	EPA TO-15	
Toluene	1.4	0.76		ug/m3	EPA TO-15	
m,p-Xylene	1.4	0.44		ug/m3	EPA TO-15	
o-Xylene	0.53	0.44		ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	0.65	0.50		ug/m3	EPA TO-15	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Sample ID: **IA-3**

Laboratory ID: **E102029-08**

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chloromethane	1.3	0.21		ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.2	0.56		ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.56	0.35		ug/m3	EPA TO-15	
2-Butanone (MEK)	32	0.60		ug/m3	EPA TO-15	
Benzene	0.65	0.16		ug/m3	EPA TO-15	
Carbon tetrachloride	0.51	0.32		ug/m3	EPA TO-15	
Toluene	1.4	0.76		ug/m3	EPA TO-15	
m,p-Xylene	1.2	0.44		ug/m3	EPA TO-15	
o-Xylene	0.53	0.44		ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	0.70	0.50		ug/m3	EPA TO-15	

Sample ID: **AA-2**

Laboratory ID: **E102029-09**

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chloromethane	1.2	0.21		ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	0.96	0.56		ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.53	0.35		ug/m3	EPA TO-15	
2-Butanone (MEK)	3.9	0.60		ug/m3	EPA TO-15	
Benzene	0.65	0.16		ug/m3	EPA TO-15	
Carbon tetrachloride	0.51	0.32		ug/m3	EPA TO-15	
Toluene	1.5	0.76		ug/m3	EPA TO-15	
m,p-Xylene	1.1	0.44		ug/m3	EPA TO-15	
o-Xylene	0.48	0.44		ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	0.60	0.50		ug/m3	EPA TO-15	

Sample ID: **IA-2**

Laboratory ID: **E102029-10**

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chloromethane	1.1	0.21		ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	0.96	0.56		ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.56	0.35		ug/m3	EPA TO-15	
2-Butanone (MEK)	86	0.60		ug/m3	EPA TO-15	E
Chloroform	0.30	0.25		ug/m3	EPA TO-15	
Benzene	0.74	0.16		ug/m3	EPA TO-15	
Carbon tetrachloride	0.51	0.32		ug/m3	EPA TO-15	
Toluene	1.3	0.76		ug/m3	EPA TO-15	
m,p-Xylene	1.2	0.44		ug/m3	EPA TO-15	
o-Xylene	0.48	0.44		ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	0.55	0.50		ug/m3	EPA TO-15	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Sample ID: **IA-2 DUP**

Laboratory ID: **E102029-11**

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chloromethane	1.0	0.21		ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.1	0.56		ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.49	0.35		ug/m3	EPA TO-15	
2-Butanone (MEK)	85	0.60		ug/m3	EPA TO-15	E
Chloroform	0.30	0.25		ug/m3	EPA TO-15	
Benzene	0.61	0.16		ug/m3	EPA TO-15	
Carbon tetrachloride	0.51	0.32		ug/m3	EPA TO-15	
Toluene	1.3	0.76		ug/m3	EPA TO-15	
m,p-Xylene	1.2	0.44		ug/m3	EPA TO-15	
o-Xylene	0.53	0.44		ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	0.65	0.50		ug/m3	EPA TO-15	

Sample ID: **IA-1**

Laboratory ID: **E102029-12**

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chloromethane	1.2	0.21		ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	0.96	0.56		ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.56	0.35		ug/m3	EPA TO-15	
2-Butanone (MEK)	74	0.60		ug/m3	EPA TO-15	
Benzene	0.71	0.16		ug/m3	EPA TO-15	
Carbon tetrachloride	0.51	0.32		ug/m3	EPA TO-15	
Toluene	1.8	0.76		ug/m3	EPA TO-15	
m,p-Xylene	1.5	0.44		ug/m3	EPA TO-15	
o-Xylene	0.62	0.44		ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	0.85	0.50		ug/m3	EPA TO-15	

Sample ID: **AA-3**

Laboratory ID: **E102029-13**

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chloromethane	1.2	0.21		ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.2	0.56		ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.63	0.35		ug/m3	EPA TO-15	
2-Butanone (MEK)	5.9	0.60		ug/m3	EPA TO-15	
Benzene	0.91	0.16		ug/m3	EPA TO-15	
Carbon tetrachloride	0.51	0.32		ug/m3	EPA TO-15	
Toluene	2.1	0.76		ug/m3	EPA TO-15	
Ethylbenzene	0.48	0.44		ug/m3	EPA TO-15	
m,p-Xylene	1.7	0.44		ug/m3	EPA TO-15	
o-Xylene	0.70	0.44		ug/m3	EPA TO-15	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Sample ID: **AA-3**

Laboratory ID: **E102029-13**

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
1,2,4-Trimethylbenzene	0.70	0.50		ug/m3	EPA TO-15	

Sample ID: **AA-1**

Laboratory ID: **E102029-14**

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chloromethane	1.2	0.21		ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.2	0.56		ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.71	0.35		ug/m3	EPA TO-15	
2-Butanone (MEK)	1.2	0.60		ug/m3	EPA TO-15	
Benzene	0.81	0.16		ug/m3	EPA TO-15	
Carbon tetrachloride	0.51	0.32		ug/m3	EPA TO-15	
Toluene	1.6	0.76		ug/m3	EPA TO-15	
m,p-Xylene	1.1	0.44		ug/m3	EPA TO-15	
o-Xylene	0.44	0.44		ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	0.50	0.50		ug/m3	EPA TO-15	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-8 (E102029-01) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									R-02
Dichlorodifluoromethane (F12)	ND	2.0	ug/m3	2	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
Chloromethane	1.5	0.41	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	1.4	"	"	"	"	"	"	
Vinyl chloride	ND	0.26	"	"	"	"	"	"	
Bromomethane	ND	0.79	"	"	"	"	"	"	
Chloroethane	ND	0.54	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	1.4	1.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.80	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	1.5	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.99	0.71	"	"	"	"	"	"	
Carbon disulfide	ND	0.63	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.82	"	"	"	"	"	"	
2-Butanone (MEK)	220	1.2	"	"	"	"	"	"	E
cis-1,2-Dichloroethene	ND	0.80	"	"	"	"	"	"	
Chloroform	0.69	0.49	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.1	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.82	"	"	"	"	"	"	
Benzene	0.91	0.32	"	"	"	"	"	"	
Carbon tetrachloride	0.64	0.64	"	"	"	"	"	"	
Trichloroethene	ND	1.1	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.94	"	"	"	"	"	"	
Bromodichloromethane	ND	1.4	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.92	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.92	"	"	"	"	"	"	
Toluene	3.5	1.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.1	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	3.5	"	"	"	"	"	"	
Tetrachloroethene	1.4	1.4	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.6	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.94	"	"	"	"	"	"	
Ethylbenzene	ND	0.88	"	"	"	"	"	"	
m,p-Xylene	3.3	0.88	"	"	"	"	"	"	
Styrene	ND	0.86	"	"	"	"	"	"	
o-Xylene	1.3	0.88	"	"	"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-8 (E102029-01) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Bromoform	ND	2.1	ug/m3	2	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	1.4	"	"	"	"	"	"	
4-Ethyltoluene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.4	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

105 % 76-134

" " " "

Surrogate: Toluene-d8

103 % 78-125

" " " "

Surrogate: 4-Bromofluorobenzene

96.2 % 77-127

" " " "

IA-10 (E102029-02) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21

Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
Chloromethane	1.5	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	1.4	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	1.6	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.95	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	230	0.60	"	"	"	"	"	"	E
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	0.89	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	0.94	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.64	0.32	"	"	"	"	"	"	
Trichloroethene	0.71	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-10 (E102029-02) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Bromodichloromethane	ND	0.68	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	0.83	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	4.2	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	1.9	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	0.97	0.44	"	"	"	"	"	"	
m,p-Xylene	3.6	0.44	"	"	"	"	"	"	
Styrene	0.91	0.43	"	"	"	"	"	"	
o-Xylene	1.3	0.44	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.95	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	0.79	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

103 % 76-134 " " " "
103 % 78-125 " " " "
97.3 % 77-127 " " " "

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-9 (E102029-03) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
Chloromethane	1.2	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	1.2	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	0.93	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.74	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	390	0.60	"	"	"	"	"	"	E
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	0.44	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	0.81	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.57	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	
Bromodichloromethane	ND	0.68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	1.2	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	3.5	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	1.5	0.44	"	"	"	"	"	"	
m,p-Xylene	5.7	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	1.9	0.44	"	"	"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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IA-9 (E102029-03) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21

Bromoform	ND	1.0	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.2	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

97.6 % 76-134

" " " "

Surrogate: Toluene-d8

102 % 78-125

" " " "

Surrogate: 4-Bromofluorobenzene

102 % 77-127

" " " "

IA-7 (E102029-04) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21

Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
Chloromethane	1.2	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	1.2	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	0.77	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.60	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	300	0.60	"	"	"	"	"	"	E
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	0.59	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	0.81	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.57	0.32	"	"	"	"	"	"	
Trichloroethene	1.3	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	

Stantec - Thousand Oaks
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Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-7 (E102029-04) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Bromodichloromethane	ND	0.68	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	4.1	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	5.1	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	1.7	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	8.3	0.44	"	"	"	"	"	"	
m,p-Xylene	30	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	8.2	0.44	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.65	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

91.2 % 76-134 " " " "
101 % 78-125 " " " "
104 % 77-127 " " " "

Stantec - Thousand Oaks
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Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-6 (E102029-05) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
Chloromethane	1.1	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	0.85	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.56	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	120	0.60	"	"	"	"	"	"	E
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	1.7	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	0.68	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.51	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	
Bromodichloromethane	ND	0.68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	1.9	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	0.57	0.44	"	"	"	"	"	"	
m,p-Xylene	2.2	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	0.79	0.44	"	"	"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-6 (E102029-05) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Bromoform	ND	1.0	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.60	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

89.3 % 76-134

" " " "

Surrogate: Toluene-d8

101 % 78-125

" " " "

Surrogate: 4-Bromofluorobenzene

105 % 77-127

" " " "

IA-5 (E102029-06) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21

Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
Chloromethane	0.95	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	0.85	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.53	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	45	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	0.61	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.45	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	

Stantec - Thousand Oaks
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Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-5 (E102029-06) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Bromodichloromethane	ND	0.68	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	1.2	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	ND	0.44	"	"	"	"	"	"	
m,p-Xylene	1.1	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	0.44	0.44	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.55	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		89.6 %	76-134		"	"	"	"	
Surrogate: Toluene-d8		100 %	78-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	77-127		"	"	"	"	

Stantec - Thousand Oaks
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Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-4 (E102029-07) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
Chloromethane	1.2	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	0.90	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.56	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	52	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	0.68	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.51	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	
Bromodichloromethane	ND	0.68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	1.4	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	ND	0.44	"	"	"	"	"	"	
m,p-Xylene	1.4	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	0.53	0.44	"	"	"	"	"	"	

Stantec - Thousand Oaks
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Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-4 (E102029-07) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Bromoform	ND	1.0	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.65	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

88.2 % 76-134

" " " "

Surrogate: Toluene-d8

102 % 78-125

" " " "

Surrogate: 4-Bromofluorobenzene

107 % 77-127

" " " "

IA-3 (E102029-08) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21

Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
Chloromethane	1.3	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	1.2	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.56	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	32	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	0.65	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.51	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	

Stantec - Thousand Oaks
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Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-3 (E102029-08) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Bromodichloromethane	ND	0.68	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	1.4	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	ND	0.44	"	"	"	"	"	"	
m,p-Xylene	1.2	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	0.53	0.44	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.70	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

88.1 % 76-134

" " " "

Surrogate: Toluene-d8

103 % 78-125

" " " "

Surrogate: 4-Bromofluorobenzene

104 % 77-127

" " " "

Stantec - Thousand Oaks
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Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
AA-2 (E102029-09) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
Chloromethane	1.2	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	0.96	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.53	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	3.9	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	0.65	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.51	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	
Bromodichloromethane	ND	0.68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	1.5	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	ND	0.44	"	"	"	"	"	"	
m,p-Xylene	1.1	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	0.48	0.44	"	"	"	"	"	"	

Stantec - Thousand Oaks
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Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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AA-2 (E102029-09) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21

Bromoform	ND	1.0	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.60	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

91.4 % 76-134

" " " "

Surrogate: Toluene-d8

103 % 78-125

" " " "

Surrogate: 4-Bromofluorobenzene

99.7 % 77-127

" " " "

IA-2 (E102029-10) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21

Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
Chloromethane	1.1	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	0.96	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.56	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	86	0.60	"	"	"	"	"	"	E
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	0.30	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	0.74	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.51	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-2 (E102029-10) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Bromodichloromethane	ND	0.68	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	1.3	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	ND	0.44	"	"	"	"	"	"	
m,p-Xylene	1.2	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	0.48	0.44	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.55	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

93.1 % 76-134 " " " "
103 % 78-125 " " " "
106 % 77-127 " " " "

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-2 DUP (E102029-11) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
Chloromethane	1.0	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	1.1	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.49	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	85	0.60	"	"	"	"	"	"	E
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	0.30	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	0.61	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.51	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	
Bromodichloromethane	ND	0.68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	1.3	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	ND	0.44	"	"	"	"	"	"	
m,p-Xylene	1.2	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	0.53	0.44	"	"	"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-2 DUP (E102029-11) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Bromoform	ND	1.0	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.65	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		88.9 %	76-134		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	78-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		108 %	77-127		"	"	"	"	
IA-1 (E102029-12) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
Chloromethane	1.2	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	0.96	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.56	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	74	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	0.71	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.51	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-1 (E102029-12) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Bromodichloromethane	ND	0.68	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	1.8	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	ND	0.44	"	"	"	"	"	"	
m,p-Xylene	1.5	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	0.62	0.44	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.85	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

90.7 % 76-134 " " " "
101 % 78-125 " " " "
109 % 77-127 " " " "

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
AA-3 (E102029-13) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
Chloromethane	1.2	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	1.2	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.63	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	5.9	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	0.91	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.51	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	
Bromodichloromethane	ND	0.68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	2.1	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	0.48	0.44	"	"	"	"	"	"	
m,p-Xylene	1.7	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	0.70	0.44	"	"	"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
AA-3 (E102029-13) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Bromoform	ND	1.0	ug/m3	1	EB11006	10-Feb-21	10-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.70	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.1 %	76-134		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	78-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.3 %	77-127		"	"	"	"	
AA-1 (E102029-14) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11006	10-Feb-21	11-Feb-21	EPA TO-15	
Chloromethane	1.2	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	1.2	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.71	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	1.2	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	0.81	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.51	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
AA-1 (E102029-14) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Bromodichloromethane	ND	0.68	ug/m3	1	EB11006	10-Feb-21	11-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	1.6	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	ND	0.44	"	"	"	"	"	"	
m,p-Xylene	1.1	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	0.44	0.44	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.50	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		90.8 %	76-134		"	"	"	"	
Surrogate: Toluene-d8		110 %	78-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.8 %	77-127		"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15 - 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 EB11006 - TO-15

Blank (EB11006-BLK1)

Prepared & Analyzed: 10-Feb-21

Dichlorodifluoromethane (F12)	ND	1.0	ug/m3
Chloromethane	ND	0.21	"
Dichlorotetrafluoroethane (F114)	ND	0.71	"
Vinyl chloride	ND	0.13	"
Bromomethane	ND	0.39	"
Chloroethane	ND	0.27	"
Trichlorofluoromethane (F11)	ND	0.56	"
1,1-Dichloroethene	ND	0.40	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"
Methylene chloride (Dichloromethane)	ND	0.35	"
Carbon disulfide	ND	0.32	"
trans-1,2-Dichloroethene	ND	0.40	"
1,1-Dichloroethane	ND	0.41	"
2-Butanone (MEK)	ND	0.60	"
cis-1,2-Dichloroethene	ND	0.40	"
Chloroform	ND	0.25	"
1,1,1-Trichloroethane	ND	0.55	"
1,2-Dichloroethane (EDC)	ND	0.41	"
Benzene	ND	0.16	"
Carbon tetrachloride	ND	0.32	"
Trichloroethene	ND	0.55	"
1,2-Dichloropropane	ND	0.47	"
Bromodichloromethane	ND	0.68	"
cis-1,3-Dichloropropene	ND	0.46	"
4-Methyl-2-pentanone (MIBK)	ND	0.83	"
trans-1,3-Dichloropropene	ND	0.46	"
Toluene	ND	0.76	"
1,1,2-Trichloroethane	ND	0.55	"
2-Hexanone (MBK)	ND	0.83	"
Dibromochloromethane	ND	1.7	"
Tetrachloroethene	ND	0.69	"
1,2-Dibromoethane (EDB)	ND	0.78	"
1,1,1,2-Tetrachloroethane	ND	0.70	"
Chlorobenzene	ND	0.47	"

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15 - 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 EB11006 - TO-15

Blank (EB11006-BLK1)

Prepared & Analyzed: 10-Feb-21

Ethylbenzene	ND	0.44	ug/m3
m,p-Xylene	ND	0.44	"
Styrene	ND	0.43	"
o-Xylene	ND	0.44	"
Bromoform	ND	1.0	"
1,1,2,2-Tetrachloroethane	ND	0.70	"
4-Ethyltoluene	ND	0.50	"
1,3,5-Trimethylbenzene	ND	0.50	"
1,2,4-Trimethylbenzene	ND	0.50	"
1,3-Dichlorobenzene	ND	0.61	"
1,4-Dichlorobenzene	ND	0.61	"
1,2-Dichlorobenzene	ND	0.61	"
1,2,4-Trichlorobenzene	ND	1.9	"
Hexachlorobutadiene	ND	2.7	"

Surrogate: 1,2-Dichloroethane-d4	44.3	"	42.7	104	76-134
Surrogate: Toluene-d8	43.9	"	41.6	106	78-125
Surrogate: 4-Bromofluorobenzene	65.2	"	72.6	89.8	77-127

LCS (EB11006-BS1)

Prepared & Analyzed: 10-Feb-21

Dichlorodifluoromethane (F12)	17.3	1.0	ug/m3	20.2	85.9	59-128
Vinyl chloride	8.9	0.13	"	10.4	85.5	64-127
Chloroethane	9.0	0.27	"	10.7	83.6	63-127
Trichlorofluoromethane (F11)	18.5	0.56	"	22.6	81.7	62-126
1,1-Dichloroethene	13.6	0.40	"	16.2	84.1	61-133
1,1,2-Trichlorotrifluoroethane (F113)	25.7	0.77	"	31.0	82.8	66-126
Methylene chloride (Dichloromethane)	10.5	0.35	"	14.2	74.4	62-115
trans-1,2-Dichloroethene	13.0	0.40	"	16.2	80.2	67-124
1,1-Dichloroethane	12.9	0.41	"	16.5	78.2	68-126
cis-1,2-Dichloroethene	13.3	0.40	"	16.0	83.2	70-121
Chloroform	16.3	0.25	"	19.8	82.3	68-123
1,1,1-Trichloroethane	18.9	0.55	"	22.2	84.8	68-125
1,2-Dichloroethane (EDC)	13.8	0.41	"	16.5	83.5	65-128
Benzene	10.5	0.16	"	13.0	81.4	69-119

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Volatile Organic Compounds by EPA TO-15 - 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 EB11006 - TO-15

LCS (EB11006-BS1)

Prepared & Analyzed: 10-Feb-21

Carbon tetrachloride	21.5	0.32	ug/m3	25.6		83.8	68-132			
Trichloroethene	18.8	0.55	"	21.9		85.8	71-123			
Toluene	12.8	0.76	"	15.4		83.5	66-119			
1,1,2-Trichloroethane	18.3	0.55	"	22.2		82.1	73-119			
Tetrachloroethene	22.0	0.69	"	27.6		79.6	66-124			
1,1,1,2-Tetrachloroethane	23.3	0.70	"	28.0		83.4	67-129			
Ethylbenzene	14.3	0.44	"	17.7		80.8	70-124			
m,p-Xylene	15.0	0.44	"	17.7		85.0	61-134			
o-Xylene	14.0	0.44	"	17.7		79.3	67-125			
1,1,2,2-Tetrachloroethane	19.0	0.70	"	28.0		67.9	65-127			

Surrogate: 1,2-Dichloroethane-d4	42.8		"	42.7		100	76-134			
Surrogate: Toluene-d8	42.1		"	41.6		101	78-125			
Surrogate: 4-Bromofluorobenzene	68.9		"	72.6		94.9	77-127			

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
12-Feb-21 10:45

Notes and Definitions

R-02	This sample was diluted due to limited sample volume, resulting in elevated reporting limits.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
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.handpimg.com/about/certifications.

VAPOR / AIR Chain of Custody

DATE: 02/05/21
Page 3 of 4

Lab Client and Project Information		
Lab Client/Consultant:	Stantec	Project Name / #: 185804980
Lab Client Project Manager:	Lewis Simons	Project Location: 24747 Crenshaw Blvd Torrance
Lab Client Address:	290 Conejo Ridge Ave	Report E-Mail(s): lewis.simons@stantec.com
Lab Client City, State, Zip:	Thousand Oaks, CA 91361	ben.cherlen@stantec
Phone Number:	562-799-9866	
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): J. Arellano B. Villa Signature: <i>[Signature]</i> Date: 02/05/21

Sample Receipt (Lab Use Only)	
Date Rec'd: 2/8/21	Control #: 210085.0
H&P Project # STD 20821-1213	
Lab Work Order # E102029	
Sample Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below	
Receipt Gauge ID: 60204	Temp: RT
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials: WR	

Additional Instructions to Laboratory:

* Preferred VOC units (please choose one):

☐ $\mu\text{g/L}$ ☒ $\mu\text{g/m}^3$ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard F		VOCs Short List	Oxygenates	Naphthalene	TPHv as Gas	Aromatic/Aliphatic	Leak Check Com	Methane by EPA	Fixed Gases by EPA
								8260SV	8260SVm								
1A-8		02/05/21	1728	1A	6L	483	-13.43	X									
1A-10			1729	1A	6L	320	-5.33	X									
1A-9			1729	1A	6L	336	-5.64	X									
1A-7			1726	1A	6L	279	-1.39	X									
1A-6			1848	1A	6L	278	-7.78	X									
1A-5			1847	1A	6L	479	-1.35	X									
1A-4			1846	1A	6L	454	-1.62	X									
1A-3			1842	1A	6L	478	-2.16	X									
AA-2			1914	AA	6L	477	-4.80	X									
1A-1			1844	1A	6L	448	-3.17	X									
Approved/Relinquished by: Emily Medler Eijmahn		Company: Samec		Date: 2/5/21		Time: 1925		Received by: [Signature]		Company: HFP		Date: 02/05/21		Time: 1925			
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*

Appendix 6A1, Rev 1/9/2019, Effective 1/21/2019

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

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020521-TECH
Site Address: 24747 Crenshaw Blvd
Torrance, LA

Consultant: Stantec
Consultant Rep: E. Medler Reviewed: EC
H&P Rep: J. Arellano, B. Villa Scanned: T. Tams

SAMPLE ID: <u>1A-8</u>						
Summa ID #: <u>483</u>	Start Date: <u>2-5-21</u>	Check Date: <u>2-5-21</u>	Check Date: <u>2-5-21</u>	End Date: <u>2-5-21</u>		
Flow Cont ID #: <u>F195</u>	Start Time: <u>1027</u>	Check Time: <u>1306</u>	Check Time: <u>1647</u>	End Time: <u>1728</u>		
Flow Rate (hrs or cc/min): <u>8hrs</u>	Start Vacuum ("Hg): <u>-30</u>	Check Vac ("Hg): <u>-24</u>	Check Vac ("Hg): <u>-16</u>	End Vac ("Hg): <u>-14</u>		

*See note

Summa Canister Height above Ground (ft): 5'

Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photos sent to PM

Note:
*Access to building cut off before 8HRS.
- E-C 2/9/21

Outdoor Temp Hi (F): <u>64</u>	Barometric Pressure: <u>30.1 in Hg</u>	Weather Conditions: <u>A.M. - Overcast</u> <u>P.M. - Sunny</u>
Outdoor Temp Low (F): <u>48</u>	Wind Speed: <u>4 mph</u>	
Indoor Temp Avg (F): <u>70</u>	Wind Direction: <u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020521-TECH
Site Address: 24747 Crenshaw Blvd
Torrance, CA

Consultant: Stantec
Consultant Rep: E. Medler Reviewed: EC
H&P Rep: J. Arellano, B. Villa Scanned: Thoms

SAMPLE ID: <u>1A-10</u>						
Summa ID #: <u>320</u>	Start Date: <u>2-5-21</u>	Check Date: <u>2-5-21</u>	Check Date: <u>2-5-21</u>	End Date: <u>2-5-21</u>		
Flow Cont ID #: <u>F133</u>	Start Time: <u>1029</u>	Check Time: <u>1307</u>	Check Time: <u>1647</u>	End Time: <u>1729</u>		
Flow Rate (hrs or cc/min): <u>8hrs</u>	Start Vacuum ("Hg): <u>-30+</u>	Check Vac ("Hg): <u>-25</u>	Check Vac ("Hg): <u>-12</u>	End Vac ("Hg): <u>-10</u>		

* See note

Summa Canister Height above Ground (ft): 5'

Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photos sent to PM

* Access to building cut off before 8 Hrs.
- E.C. 2/9/21

Outdoor Temp Hi (F): <u>64</u>	Barometric Pressure: <u>30" Hg</u>	Weather Conditions: <u>AM - Overcast</u> <u>P.M. - Sunny</u>
Outdoor Temp Low (F): <u>48</u>	Wind Speed: <u>4 mph</u>	
Indoor Temp Avg (F): <u>70</u>	Wind Direction: <u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020521-TECH
Site Address: 24747 Crenshaw Blvd.
Torrance, CA

Consultant: Stantec
Consultant Rep: E. Medler Reviewed: EC
H&P Rep: J. Arellano, B. Villa Scanned: Thomas

SAMPLE ID: <u>1A-9</u>						
Summa ID #: <u>336</u>	Start Date: <u>2-5-21</u>	Check Date: <u>2-5-21</u>	Check Date: <u>2-5-21</u>	End Date: <u>2-5-21</u>		
Flow Cont ID #: <u>F204</u>	Start Time: <u>1031</u>	Check Time: <u>1308</u>	Check Time: <u>1648</u>	End Time: <u>1731</u>	<u>29</u>	
Flow Rate (hrs or cc/min): <u>8hrs</u>	Start Vacuum ("Hg): <u>-30+</u>	Check Vac ("Hg): <u>-22</u>	Check Vac ("Hg): <u>-8</u>	End Vac ("Hg): <u>-7</u>	<u>* see note</u>	

Summa Canister Height above Ground (ft): 5'

Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photos sent to PM

* Access to building not allowed before 8HR shut off.
- E.C. 2/19/21

Outdoor Temp Hi (F): <u>64</u>	Barometric Pressure: <u>30" Hg</u>	Weather Conditions: <u>AM - Overcast</u> <u>PM - Sunny</u>
Outdoor Temp Low (F): <u>48</u>	Wind Speed: <u>4 mph</u>	
Indoor Temp Avg (F): <u>70</u>	Wind Direction: <u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020521-TECH
Site Address: 24747 Crenshaw Blvd
Torrance, CA

Consultant: Stantec
Consultant Rep: E. Medler Reviewed: EC
H&P Rep: J. Arellano, B. Villa Scanned: T. Harris

		SAMPLE ID: <u>1A-7</u>					
Summa ID #:	<u>279</u>	Start Date:	<u>2-5-21</u>	Check Date:	<u>2-5-21</u>	End Date:	<u>2-5-21</u>
Flow Cont ID #:	<u>F189</u>	Start Time:	<u>1035</u>	Check Time:	<u>1300</u>	End Time:	<u>1726</u>
Flow Rate (hrs or cc/min):	<u>8</u>	Start Vacuum ("Hg):	<u>-30</u>	Check Vac ("Hg):	<u>-19</u>	End Vac ("Hg):	<u>-3</u>

*see
note

Summa Canister Height above Ground (ft): 5'

Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photos sent to PM

* Access to building not
allowed before 8 HR shut off.
- Can filled fast. OK-EC.
2/19/21

Outdoor Temp Hi (F):	<u>64</u>	Barometric Pressure:	<u>30" Hg</u>	Weather Conditions: <u>AM - Overcast</u> <u>PM - Sunny</u>
Outdoor Temp Low (F):	<u>48</u>	Wind Speed:	<u>4 mph</u>	
Indoor Temp Avg (F):	<u>70</u>	Wind Direction:	<u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020521-TECH
Site Address: 24747 Crenshaw Blvd
Torrance, LA

Consultant: Stantec
Consultant Rep: E. Medler Reviewed: EC
H&P Rep: J. Arellano B. Villa Scanned: Thoms

		SAMPLE ID: 1A-6							
Summa ID #:	278	Start Date:	2-5-21	Check Date:	2-5-21	Check Date:	2-5-21	End Date:	2-5-21
Flow Cont ID #:	F134	Start Time:	1038	Check Time:	1257	Check Time:	1634	End Time:	1848
Flow Rate (hrs or cc/min):	8hr	Start Vacuum ("Hg):	-304	Check Vac ("Hg):	-22	Check Vac ("Hg):	-7	End Vac ("Hg):	-3

Summa Canister Height above Ground (ft): 5'

Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photos sent to PM

Outdoor Temp Hi (F):	<u>64</u>	Barometric Pressure:	<u>30" Hg</u>	Weather Conditions: <u>AM - Overcast</u> <u>PM - Sunny</u>
Outdoor Temp Low (F):	<u>48</u>	Wind Speed:	<u>4 mph</u>	
Indoor Temp Avg (F):	<u>70</u>	Wind Direction:	<u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020521-TECH
Site Address: 24747 Crenshaw Blvd.
Torrance, LA

Consultant: Stantec
Consultant Rep: J. Medler Reviewed: EC
H&P Rep: J. Arellano B. Villa Scanned: T. Flores

		SAMPLE ID: 1A-5							
Summa ID #:	479	Start Date:	2-5-21	Check Date:	2-5-21	Check Date:	2-5-21	End Date:	2-5-21
Flow Cont ID #:	F185	Start Time:	1040	Check Time:	1255	Check Time:	1635	End Time:	1847
Flow Rate (hrs or cc/min):	8hrs	Start Vacuum ("Hg):	-30+	Check Vac ("Hg):	-21	Check Vac ("Hg):	-8	End Vac ("Hg):	-2

Summa Canister Height above Ground (ft): 5'
Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):
Photos sent to PM

Outdoor Temp Hi (F):	<u>64</u>	Barometric Pressure:	<u>30" Hg</u>	Weather Conditions: <u>AM Overcast</u> <u>PM Sunny</u>
Outdoor Temp Low (F):	<u>48</u>	Wind Speed:	<u>4mph</u>	
Indoor Temp Avg (F):	<u>70</u>	Wind Direction:	<u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020521-TECH
Site Address: 24747 Crenshaw Blvd
Torrance, CA

Consultant: Stantec
Consultant Rep: E. Medler Reviewed: EC
H&P Rep: J. Arellano B. Villa Scanned: Plans

		SAMPLE ID: 1A-4							
Summa ID #:	454	Start Date:	2-5-21	Check Date:	2-5-21	Check Date:	2-5-21	End Date:	2-5-21
Flow Cont ID #:	F179	Start Time:	1042	Check Time:	1254	Check Time:	1636	End Time:	1846
Flow Rate (hrs or cc/min):	8hrs	Start Vacuum ("Hg):	-30+	Check Vac ("Hg):	-24	Check Vac ("Hg):	-11	End Vac ("Hg):	-4

Summa Canister Height above Ground (ft): 5'

Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photos sent to PM

Outdoor Temp Hi (F):	<u>64</u>	Barometric Pressure:	<u>30" Hg</u>	Weather Conditions: <u>AM - Overcast</u> <u>PM - Sunny</u>
Outdoor Temp Low (F):	<u>48</u>	Wind Speed:	<u>4 mph</u>	
Indoor Temp Avg (F):	<u>70</u>	Wind Direction:	<u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020521-TECH
Site Address: 24747 Crenshaw Blvd
Torrance, CA

Consultant: Stantec
Consultant Rep: E. Medler Reviewed: EC
H&P Rep: J. Arellano B. Villa Scanned: Thomas

		SAMPLE ID: 1A-3							
Summa ID #:	478	Start Date:	2-5-21	Check Date:	2-5-21	Check Date:	2-5-21	End Date:	2-5-21
Flow Cont ID #:	F205	Start Time:	1044	Check Time:	1248	Check Time:	1637	End Time:	1842
Flow Rate (hrs or cc/min):	8hrs	Start Vacuum ("Hg):	-30*	Check Vac ("Hg):	-26	Check Vac ("Hg):	-12	End Vac ("Hg):	-5

Summa Canister Height above Ground (ft): 5'

Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photos sent to PM

Outdoor Temp Hi (F):	<u>64</u>	Barometric Pressure:	<u>30" Hg</u>	Weather Conditions: <u>AM - Overcast</u> <u>PM - Sunny</u>
Outdoor Temp Low (F):	<u>48</u>	Wind Speed:	<u>4mph</u>	
Indoor Temp Avg (F):	<u>70</u>	Wind Direction:	<u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals
<u>Cutting oil</u>	
<u>Solvents</u>	

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST 020521-TECH
Site Address: 24747 Crenshaw Blvd
Torrance, CA 90501

Consultant: Stanter
Consultant Rep: E. Medler Reviewed: EC
H&P Rep: J. Arellano, B. Villa Scanned: T. Flores

SAMPLE ID: <u>AA-2</u>					
Summa ID #:	<u>477</u>	Start Date:	<u>2-5-21</u>	Check Date:	<u>2-5-21</u>
Flow Cont ID #:	<u>F164</u>	Start Time:	<u>1046</u>	Check Time:	<u>1244</u>
Flow Rate (hrs or cc/min):	<u>8hrs</u>	Start Vacuum ("Hg):	<u>-30</u>	Check Vac ("Hg):	<u>-25</u>
				Check Vac ("Hg):	<u>-12</u>
				End Vac ("Hg):	<u>-7</u>

Summa Canister Height above Ground (ft): 5

Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photos sent to PM

Outdoor Temp Hi (F): <u>64</u>	Barometric Pressure: <u>30" Hg</u>	Weather Conditions: <u>AM - Overcast</u> <u>PM - Sunny</u>
Outdoor Temp Low (F): <u>48</u>	Wind Speed: <u>1 mph</u>	
Indoor Temp Avg (F): <u>70</u>	Wind Direction: <u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals
<u>Cutting oil</u>	
<u>Diesel Exhaust</u>	

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020521-TECH
Site Address: 24747 Cranshaw Blvd
Torrance LA

Consultant: Stantec
Consultant Rep: E. Medler Reviewed: EC
H&P Rep: J. Arellano, B. Villa Scanned: T. Jones

		SAMPLE ID: 1A-2							
Summa ID #:	448	Start Date:	2-5-21	Check Date:	2-5-21	Check Date:	2-5-21	End Date:	2-5-21
Flow Cont ID #:	F191	Start Time:	1049	Check Time:	1252	Check Time:	1639	End Time:	1844
Flow Rate (hrs or cc/min):	8hrs	Start Vacuum ("Hg):	-30	Check Vac ("Hg):	-23	Check Vac ("Hg):	-10	End Vac ("Hg):	-4

Summa Canister Height above Ground (ft): 5

Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photos sent to PM

Outdoor Temp Hi (F):	<u>64</u>	Barometric Pressure:	<u>30" Hg</u>	Weather Conditions: <u>AM - Overcast</u> <u>PM - Sunny</u>
Outdoor Temp Low (F):	<u>48</u>	Wind Speed:	<u>4 mph</u>	
Indoor Temp Avg (F):	<u>70</u>	Wind Direction:	<u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals
<u>Cutting oil</u>	
<u>Solvents</u>	

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: 51020521- TECH
Site Address: 24747 Crenshaw Blvd
Torrance, CA

Consultant: Stantec
Consultant Rep: E. Medler
H&P Rep: J. Arellano, B. Villa

Reviewed: EC
Scanned: T. Jones

SAMPLE ID: <u>1A-2 DUP</u>							
Summa ID #:	<u>452</u>	Start Date:	<u>2-5-21</u>	Check Date:	<u>2-5-21</u>	Check Date:	<u>2-5-21</u>
Flow Cont ID #:	<u>F209</u>	Start Time:	<u>1049</u>	Check Time:	<u>1252</u>	Check Time:	<u>1639</u>
Flow Rate (hrs or cc/min):	<u>8hrs</u>	Start Vacuum ("Hg):	<u>-30</u>	Check Vac ("Hg):	<u>-20</u>	Check Vac ("Hg):	<u>-6</u>
						End Vac ("Hg):	<u>-2</u>

Summa Canister Height above Ground (ft): 5'
Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photos sent to PM

Outdoor Temp Hi (F):	<u>64</u>	Barometric Pressure:	<u>30" Hg</u>	Weather Conditions: <u>AM - Overcast</u> <u>PM - Sunny</u>
Outdoor Temp Low (F):	<u>48</u>	Wind Speed:	<u>4 mph</u>	
Indoor Temp Avg (F):	<u>70</u>	Wind Direction:	<u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals
<u>Cutting oil</u>	
<u>Solvents</u>	

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: STO20521-TECH
Site Address: 24747 Crenshaw Blvd
Torrance, CA

Consultant: Stantec
Consultant Rep: E. Medler
H&P Rep: J. Arellano B. Villa

Reviewed: EC
Scanned: T. Jones

SAMPLE ID: <u>1A-1</u>						
Summa ID #: <u>480</u>	Start Date: <u>2-5-21</u>	Check Date: <u>2-5-21</u>	Check Date: <u>2-5-21</u>	Check Date: <u>2-5-21</u>	End Date: <u>2-5-21</u>	
Flow Cont ID #: <u>F150</u>	Start Time: <u>1051</u>	Check Time: <u>1250</u>	Check Time: <u>1638</u>	Check Time: <u>1638</u>	End Time: <u>1843</u>	
Flow Rate (hrs or cc/min): <u>8hrs</u>	Start Vacuum ("Hg): <u>-30+</u>	Check Vac ("Hg): <u>-25</u>	Check Vac ("Hg): <u>-12</u>	Check Vac ("Hg): <u>-12</u>	End Vac ("Hg): <u>-5</u>	

Summa Canister Height above Ground (ft): 5'

Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photos sent to PM

Outdoor Temp Hi (F): <u>64</u>	Barometric Pressure: <u>30" Hg</u>	Weather Conditions: <u>AM - Overcast</u> <u>PM - Sunny</u>
Outdoor Temp Low (F): <u>48</u>	Wind Speed: <u>4 mph</u>	
Indoor Temp Avg (F): <u>70</u>	Wind Direction: <u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals
<u>Cutting oils</u>	
<u>Solvents</u>	

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: 57020521-TECH
Site Address: 24747 Crenshaw Blvd
Torrance, CA

Consultant: Stantec
Consultant Rep: E. Medler
H&P Rep: J. Arellano B. Villa

Reviewed: EC
Scanned: T. Jones

SAMPLE ID: <u>AA-3</u>					
Summa ID #: <u>451</u>	Start Date: <u>2-5-21</u>	Check Date: <u>2-5-21</u>	Check Date: <u>2-5-21</u>	End Date: <u>2-5-21</u>	
Flow Cont ID #: <u>F210</u>	Start Time: <u>1100</u>	Check Time: <u>1302</u>	Check Time: <u>1642</u>	End Time: <u>1901</u>	
Flow Rate (hrs or cc/min): <u>8hrs</u>	Start Vacuum ("Hg): <u>-30</u>	Check Vac ("Hg): <u>-24</u>	Check Vac ("Hg): <u>-12</u>	End Vac ("Hg): <u>-5</u>	

Summa Canister Height above Ground (ft): 5'
Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photos sent to PM

Outdoor Temp Hi (F): <u>61</u>	Barometric Pressure: <u>30" Hg</u>	Weather Conditions:
Outdoor Temp Low (F): <u>48</u>	Wind Speed: <u>4 mph</u>	
Indoor Temp Avg (F): <u>70</u>	Wind Direction: <u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location
<u>Car exhaust</u>	

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020521-TECH
Site Address: 24747 Crenshaw Blvd
Torrance, CA

Consultant: Stantec
Consultant Rep: E. Medler Reviewed: EC
H&P Rep: J. Arellano, B. Villa Scanned: T. Jones

SAMPLE ID: <u>AA-1</u>					
Summa ID #: <u>296</u>	Start Date: <u>2-5-21</u>	Check Date: <u>2-5-21</u>	Check Date: <u>2-5-21</u>	End Date: <u>2-5-21</u>	
Flow Cont ID #: <u>F132</u>	Start Time: <u>1101</u>	Check Time: <u>1305</u>	Check Time: <u>1650</u>	End Time: <u>1859</u>	
Flow Rate (hrs or cc/min): <u>8hrs</u>	Start Vacuum ("Hg): <u>-30+</u>	Check Vac ("Hg): <u>-25</u>	Check Vac ("Hg): <u>-12</u>	End Vac ("Hg): <u>-5</u>	

Summa Canister Height above Ground (ft): 5'
Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):
Photos sent to PM

Outdoor Temp Hi (F): <u>64</u>	Barometric Pressure: <u>30" Hg</u>	Weather Conditions: <u>AM - Overcast</u> <u>PM - Sunny</u>
Outdoor Temp Low (F): <u>48</u>	Wind Speed: <u>4 mph</u>	
Indoor Temp Avg (F): <u>70</u>	Wind Direction: <u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location
<u>Car Exhaust</u>	

24 February 2021

Lewis Simons
Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

H&P Project: ST021221-13
Client Project: 185804980 / Crenshaw Blvd

Dear Lewis Simons:

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 11-Feb-21 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.

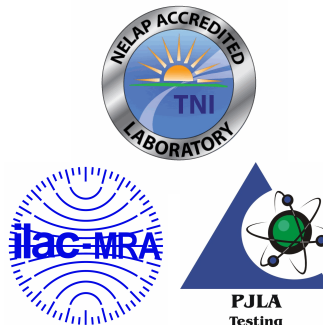
We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

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. Fields of services and analytes contained in this report that are not listed on the certificates should be considered uncertified or unavailable for certification.



Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST021221-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
24-Feb-21 15:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VP-9	E102048-01	Vapor	11-Feb-21	11-Feb-21
VP-10	E102048-02	Vapor	11-Feb-21	11-Feb-21
VP-8	E102048-03	Vapor	11-Feb-21	11-Feb-21
VP-7	E102048-04	Vapor	11-Feb-21	11-Feb-21
VP-6	E102048-05	Vapor	11-Feb-21	11-Feb-21
VP-5	E102048-06	Vapor	11-Feb-21	11-Feb-21
VP-4	E102048-07	Vapor	11-Feb-21	11-Feb-21
VP-3	E102048-08	Vapor	11-Feb-21	11-Feb-21
VP-2	E102048-09	Vapor	11-Feb-21	11-Feb-21
VP-2 Dup	E102048-10	Vapor	11-Feb-21	11-Feb-21
VP-1	E102048-11	Vapor	11-Feb-21	11-Feb-21

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST021221-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
24-Feb-21 15:43

DETECTIONS SUMMARY

Sample ID: **VP-9**

Laboratory ID: **E102048-01**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Trichlorofluoromethane (F11)	10	5.6	ug/m3	EPA TO-15	
1,1,2-Trichlorotrifluoroethane (F113)	1500	7.7	ug/m3	EPA TO-15	
2-Butanone (MEK)	150	30	ug/m3	EPA TO-15	
Trichloroethene	61	5.5	ug/m3	EPA TO-15	
4-Methyl-2-pentanone (MIBK)	9.0	8.3	ug/m3	EPA TO-15	
Toluene	16	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	1200	6.9	ug/m3	EPA TO-15	
m,p-Xylene	12	8.8	ug/m3	EPA TO-15	

Sample ID: **VP-10**

Laboratory ID: **E102048-02**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
1,1,2-Trichlorotrifluoroethane (F113)	500	7.7	ug/m3	EPA TO-15	
2-Butanone (MEK)	87	30	ug/m3	EPA TO-15	
Trichloroethene	320	5.5	ug/m3	EPA TO-15	
Toluene	10	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	1000	6.9	ug/m3	EPA TO-15	
m,p-Xylene	9.1	8.8	ug/m3	EPA TO-15	

Sample ID: **VP-8**

Laboratory ID: **E102048-03**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
1,1,2-Trichlorotrifluoroethane (F113)	25	7.7	ug/m3	EPA TO-15	
2-Butanone (MEK)	50	30	ug/m3	EPA TO-15	
Trichloroethene	16	5.5	ug/m3	EPA TO-15	
Toluene	6.6	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	69	6.9	ug/m3	EPA TO-15	

Sample ID: **VP-7**

Laboratory ID: **E102048-04**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Trichlorofluoromethane (F11)	13	5.6	ug/m3	EPA TO-15	
1,1-Dichloroethene	100	4.0	ug/m3	EPA TO-15	
1,1,2-Trichlorotrifluoroethane (F113)	920	7.7	ug/m3	EPA TO-15	
2-Butanone (MEK)	47	30	ug/m3	EPA TO-15	
Trichloroethene	310	5.5	ug/m3	EPA TO-15	
Toluene	10	3.8	ug/m3	EPA TO-15	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST021221-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
24-Feb-21 15:43

Sample ID: VP-7

Laboratory ID: E102048-04

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Tetrachloroethene	2200	6.9	ug/m3	EPA TO-15	
m,p-Xylene	9.5	8.8	ug/m3	EPA TO-15	

Sample ID: VP-6

Laboratory ID: E102048-05

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
1,1,2-Trichlorotrifluoroethane (F113)	250	7.7	ug/m3	EPA TO-15	
2-Butanone (MEK)	42	30	ug/m3	EPA TO-15	
Trichloroethene	64	5.5	ug/m3	EPA TO-15	
Toluene	9.5	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	900	6.9	ug/m3	EPA TO-15	

Sample ID: VP-5

Laboratory ID: E102048-06

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Trichlorofluoromethane (F11)	12	5.6	ug/m3	EPA TO-15	
1,1,2-Trichlorotrifluoroethane (F113)	1000	7.7	ug/m3	EPA TO-15	
2-Butanone (MEK)	45	30	ug/m3	EPA TO-15	
1,1,1-Trichloroethane	43	5.5	ug/m3	EPA TO-15	
Benzene	3.2	3.2	ug/m3	EPA TO-15	
Trichloroethene	35	5.5	ug/m3	EPA TO-15	
Toluene	20	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	2400	6.9	ug/m3	EPA TO-15	
m,p-Xylene	12	8.8	ug/m3	EPA TO-15	

Sample ID: VP-4

Laboratory ID: E102048-07

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Helium (LCC)	0.16	0.10	%	ASTM D1945M	
Trichlorofluoromethane (F11)	8.3	5.6	ug/m3	EPA TO-15	
1,1-Dichloroethene	230	4.0	ug/m3	EPA TO-15	
1,1,2-Trichlorotrifluoroethane (F113)	560	7.7	ug/m3	EPA TO-15	
2-Butanone (MEK)	75	30	ug/m3	EPA TO-15	
Chloroform	200	4.9	ug/m3	EPA TO-15	
1,1,1-Trichloroethane	7.8	5.5	ug/m3	EPA TO-15	
Benzene	6.8	3.2	ug/m3	EPA TO-15	
Trichloroethene	4600	27	ug/m3	EPA TO-15	
Toluene	29	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	7300	34	ug/m3	EPA TO-15	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST021221-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
24-Feb-21 15:43

Sample ID: VP-4

Laboratory ID: E102048-07

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
m,p-Xylene	15	8.8	ug/m3	EPA TO-15	

Sample ID: VP-3

Laboratory ID: E102048-08

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Helium (LCC)	0.13	0.10	%	ASTM D1945M	
Trichlorofluoromethane (F11)	11	5.6	ug/m3	EPA TO-15	
1,1-Dichloroethene	360	4.0	ug/m3	EPA TO-15	
1,1,2-Trichlorotrifluoroethane (F113)	290	7.7	ug/m3	EPA TO-15	
Chloroform	18	4.9	ug/m3	EPA TO-15	
1,1,1-Trichloroethane	35	5.5	ug/m3	EPA TO-15	
Benzene	13	3.2	ug/m3	EPA TO-15	
Trichloroethene	20000	140	ug/m3	EPA TO-15	
Toluene	6.8	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	44000	170	ug/m3	EPA TO-15	

Sample ID: VP-2

Laboratory ID: E102048-09

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Helium (LCC)	0.13	0.10	%	ASTM D1945M	
1,1-Dichloroethene	140	4.0	ug/m3	EPA TO-15	
1,1,2-Trichlorotrifluoroethane (F113)	190	7.7	ug/m3	EPA TO-15	
Chloroform	8.6	4.9	ug/m3	EPA TO-15	
1,1,1-Trichloroethane	6.6	5.5	ug/m3	EPA TO-15	
Trichloroethene	910	5.5	ug/m3	EPA TO-15	
Toluene	6.0	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	1800	6.9	ug/m3	EPA TO-15	

Sample ID: VP-2 Dup

Laboratory ID: E102048-10

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
1,1-Dichloroethene	130	4.0	ug/m3	EPA TO-15	
1,1,2-Trichlorotrifluoroethane (F113)	170	7.7	ug/m3	EPA TO-15	
Chloroform	8.7	4.9	ug/m3	EPA TO-15	
1,1,1-Trichloroethane	6.6	5.5	ug/m3	EPA TO-15	
Trichloroethene	960	5.5	ug/m3	EPA TO-15	
Toluene	6.3	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	1900	6.9	ug/m3	EPA TO-15	

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Project: ST021221-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
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Sample ID: **VP-1**

Laboratory ID: **E102048-11**

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Trichlorofluoromethane (F11)	18	5.6		ug/m3	EPA TO-15	
1,1-Dichloroethene	230	4.0		ug/m3	EPA TO-15	
1,1,2-Trichlorotrifluoroethane (F113)	450	7.7		ug/m3	EPA TO-15	
2-Butanone (MEK)	82	30		ug/m3	EPA TO-15	
1,1,1-Trichloroethane	33	5.5		ug/m3	EPA TO-15	
Trichloroethene	900	5.5		ug/m3	EPA TO-15	
Toluene	10	3.8		ug/m3	EPA TO-15	
Tetrachloroethene	2700	6.9		ug/m3	EPA TO-15	

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Reported:
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Soil Vapor/Air Analysis by ASTM D1945M

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-9 (E102048-01) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Helium (LCC)	ND	0.10	%	1	EB11714	17-Feb-21	17-Feb-21	ASTM D1945M	
VP-10 (E102048-02) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Helium (LCC)	ND	0.10	%	1	EB11714	17-Feb-21	17-Feb-21	ASTM D1945M	
VP-8 (E102048-03) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Helium (LCC)	ND	0.10	%	1	EB11714	17-Feb-21	17-Feb-21	ASTM D1945M	
VP-7 (E102048-04) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Helium (LCC)	ND	0.10	%	1	EB11714	17-Feb-21	17-Feb-21	ASTM D1945M	
VP-6 (E102048-05) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Helium (LCC)	ND	0.10	%	1	EB11714	17-Feb-21	17-Feb-21	ASTM D1945M	
VP-5 (E102048-06) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Helium (LCC)	ND	0.10	%	1	EB11714	17-Feb-21	17-Feb-21	ASTM D1945M	
VP-4 (E102048-07) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Helium (LCC)	0.16	0.10	%	1	EB11714	17-Feb-21	17-Feb-21	ASTM D1945M	
VP-3 (E102048-08) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Helium (LCC)	0.13	0.10	%	1	EB11714	17-Feb-21	17-Feb-21	ASTM D1945M	
VP-2 (E102048-09) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Helium (LCC)	0.13	0.10	%	1	EB11714	17-Feb-21	17-Feb-21	ASTM D1945M	

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Reported:
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Soil Vapor/Air Analysis by ASTM D1945M

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-2 Dup (E102048-10) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Helium (LCC)	ND	0.10	%	1	EB11714	17-Feb-21	17-Feb-21	ASTM D1945M	
VP-1 (E102048-11) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Helium (LCC)	ND	0.10	%	1	EB11714	17-Feb-21	17-Feb-21	ASTM D1945M	

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Reported:
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-9 (E102048-01) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EB12209	20-Feb-21	20-Feb-21	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	10	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	1500	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	150	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	61	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	9.0	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	16	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	1200	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	12	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	

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Volatile Organic Compounds by EPA TO-15

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-9 (E102048-01) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Bromoform	ND	10	ug/m3	1	EB12209	20-Feb-21	20-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.8 %	76-134		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	78-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		88.9 %	77-127		"	"	"	"	
VP-10 (E102048-02) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EB12209	20-Feb-21	20-Feb-21	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	500	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	87	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	320	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-10 (E102048-02) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Bromodichloromethane	ND	6.8	ug/m3	1	EB12209	20-Feb-21	20-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	10	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	1000	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	9.1	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

95.5 % 76-134

" " " "

Surrogate: Toluene-d8

94.6 % 78-125

" " " "

Surrogate: 4-Bromofluorobenzene

91.0 % 77-127

" " " "

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-8 (E102048-03) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EB12209	20-Feb-21	20-Feb-21	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	25	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	50	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	16	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	6.6	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	69	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-8 (E102048-03) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Bromoform	ND	10	ug/m3	1	EB12209	20-Feb-21	20-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.3 %	76-134		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94.4 %	78-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		91.6 %	77-127		"	"	"	"	
VP-7 (E102048-04) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EB12209	20-Feb-21	20-Feb-21	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	13	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	100	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	920	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	47	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	310	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST021221-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
24-Feb-21 15:43

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-7 (E102048-04) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Bromodichloromethane	ND	6.8	ug/m3	1	EB12209	20-Feb-21	20-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	10	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	2200	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	9.5	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

98.6 % 76-134 " " " "
97.9 % 78-125 " " " "
90.8 % 77-127 " " " "

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Project: ST021221-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
24-Feb-21 15:43

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-6 (E102048-05) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EB12209	20-Feb-21	20-Feb-21	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	250	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	42	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	64	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	9.5	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	900	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	

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Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
24-Feb-21 15:43

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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VP-6 (E102048-05) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21

Bromoform	ND	10	ug/m3	1	EB12209	20-Feb-21	20-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

98.1 % 76-134

" " " "

Surrogate: Toluene-d8

98.9 % 78-125

" " " "

Surrogate: 4-Bromofluorobenzene

89.0 % 77-127

" " " "

VP-5 (E102048-06) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21

Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EB12209	20-Feb-21	20-Feb-21	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	12	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	1000	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	45	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	43	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	3.2	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	35	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-5 (E102048-06) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Bromodichloromethane	ND	6.8	ug/m3	1	EB12209	20-Feb-21	20-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	20	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	2400	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	12	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

99.1 % 76-134
99.5 % 78-125
90.4 % 77-127

" "
" "
" "

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-4 (E102048-07) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EB12209	20-Feb-21	21-Feb-21	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	8.3	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	230	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	560	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	75	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	200	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	7.8	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	6.8	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	4600	27	"	5	"	"	22-Feb-21	"	
1,2-Dichloropropane	ND	9.4	"	1	"	"	21-Feb-21	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	29	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	7300	34	"	5	"	"	22-Feb-21	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	1	"	"	21-Feb-21	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	15	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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VP-4 (E102048-07) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21

Bromoform	ND	10	ug/m3	1	EB12209	20-Feb-21	21-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

99.0 % 76-134

" " " "

Surrogate: Toluene-d8

103 % 78-125

" " " "

Surrogate: 4-Bromofluorobenzene

92.6 % 77-127

" " " "

VP-3 (E102048-08) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21

Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EB12209	20-Feb-21	21-Feb-21	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	11	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	360	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	290	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	18	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	35	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	13	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	20000	140	"	25	"	"	22-Feb-21	"	
1,2-Dichloropropane	ND	9.4	"	1	"	"	21-Feb-21	"	

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-3 (E102048-08) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Bromodichloromethane	ND	6.8	ug/m3	1	EB12209	20-Feb-21	21-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	6.8	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	44000	170	"	25	"	"	22-Feb-21	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	1	"	"	21-Feb-21	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	76-134		"	"	"	"	
Surrogate: Toluene-d8		103 %	78-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.0 %	77-127		"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST021221-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
24-Feb-21 15:43

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-2 (E102048-09) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EB12209	20-Feb-21	21-Feb-21	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	140	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	190	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	8.6	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	6.6	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	910	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	6.0	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	1800	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-2 (E102048-09) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Bromoform	ND	10	ug/m3	1	EB12209	20-Feb-21	21-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.9 %	76-134		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.4 %	78-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.4 %	77-127		"	"	"	"	
VP-2 Dup (E102048-10) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EB12209	20-Feb-21	21-Feb-21	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	130	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	170	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	8.7	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	6.6	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	960	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-2 Dup (E102048-10) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Bromodichloromethane	ND	6.8	ug/m3	1	EB12209	20-Feb-21	21-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	6.3	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	1900	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	76-134		"	"	"	"	
Surrogate: Toluene-d8		99.9 %	78-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.8 %	77-127		"	"	"	"	

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-1 (E102048-11) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EB12209	20-Feb-21	21-Feb-21	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	18	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	230	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	450	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	82	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	33	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	900	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	10	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	2700	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-1 (E102048-11) Vapor Sampled: 11-Feb-21 Received: 11-Feb-21									
Bromoform	ND	10	ug/m3	1	EB12209	20-Feb-21	21-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	76-134		"	"	"	"	
Surrogate: Toluene-d8		97.6 %	78-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.3 %	77-127		"	"	"	"	

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Soil Vapor/Air Analysis by ASTM D1945M - 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 EB11714 - GC

Blank (EB11714-BLK1)	Prepared & Analyzed: 17-Feb-21									
Helium (LCC)	ND	0.10	%							

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Volatile Organic Compounds by EPA TO-15 - 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 EB12209 - TO-15

Blank (EB12209-BLK1)

Prepared & Analyzed: 20-Feb-21

Dichlorodifluoromethane (F12)	ND	5.0	ug/m3
Chloromethane	ND	2.1	"
Dichlorotetrafluoroethane (F114)	ND	7.1	"
Vinyl chloride	ND	2.6	"
Bromomethane	ND	16	"
Chloroethane	ND	8.0	"
Trichlorofluoromethane (F11)	ND	5.6	"
1,1-Dichloroethene	ND	4.0	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"
Methylene chloride (Dichloromethane)	ND	3.5	"
Carbon disulfide	ND	6.3	"
trans-1,2-Dichloroethene	ND	8.0	"
1,1-Dichloroethane	ND	4.1	"
2-Butanone (MEK)	ND	30	"
cis-1,2-Dichloroethene	ND	4.0	"
Chloroform	ND	4.9	"
1,1,1-Trichloroethane	ND	5.5	"
1,2-Dichloroethane (EDC)	ND	4.1	"
Benzene	ND	3.2	"
Carbon tetrachloride	ND	6.4	"
Trichloroethene	ND	5.5	"
1,2-Dichloropropane	ND	9.4	"
Bromodichloromethane	ND	6.8	"
cis-1,3-Dichloropropene	ND	4.6	"
4-Methyl-2-pentanone (MIBK)	ND	8.3	"
trans-1,3-Dichloropropene	ND	4.6	"
Toluene	ND	3.8	"
1,1,2-Trichloroethane	ND	5.5	"
2-Hexanone (MBK)	ND	8.3	"
Dibromochloromethane	ND	8.6	"
Tetrachloroethene	ND	6.9	"
1,2-Dibromoethane (EDB)	ND	7.8	"
1,1,1,2-Tetrachloroethane	ND	7.0	"
Chlorobenzene	ND	4.7	"

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Volatile Organic Compounds by EPA TO-15 - 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 EB12209 - TO-15

Blank (EB12209-BLK1)

Prepared & Analyzed: 20-Feb-21

Ethylbenzene	ND	4.4	ug/m3							
m,p-Xylene	ND	8.8	"							
Styrene	ND	4.3	"							
o-Xylene	ND	4.4	"							
Bromoform	ND	10	"							
1,1,2,2-Tetrachloroethane	ND	7.0	"							
4-Ethyltoluene	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	12	"							
1,4-Dichlorobenzene	ND	12	"							
1,2-Dichlorobenzene	ND	12	"							
1,2,4-Trichlorobenzene	ND	38	"							
Hexachlorobutadiene	ND	54	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>198</i>		<i>"</i>	<i>214</i>		<i>92.5</i>	<i>76-134</i>			
<i>Surrogate: Toluene-d8</i>	<i>202</i>		<i>"</i>	<i>208</i>		<i>97.1</i>	<i>78-125</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>308</i>		<i>"</i>	<i>363</i>		<i>84.9</i>	<i>77-127</i>			

LCS (EB12209-BS1)

Prepared: 20-Feb-21 Analyzed: 21-Feb-21

Dichlorodifluoromethane (F12)	120	5.0	ug/m3	101		118	59-128			
Vinyl chloride	58	2.6	"	52.0		111	64-127			
Chloroethane	58	8.0	"	53.6		108	63-127			
Trichlorofluoromethane (F11)	110	5.6	"	113		100	62-126			
1,1-Dichloroethene	82	4.0	"	80.8		101	61-133			
1,1,2-Trichlorotrifluoroethane (F113)	160	7.7	"	155		106	66-126			
Methylene chloride (Dichloromethane)	72	3.5	"	70.8		102	62-115			
trans-1,2-Dichloroethene	77	8.0	"	80.8		94.9	67-124			
1,1-Dichloroethane	82	4.1	"	82.4		100	68-126			
cis-1,2-Dichloroethene	78	4.0	"	80.0		97.9	70-121			
Chloroform	100	4.9	"	99.2		104	68-123			
1,1,1-Trichloroethane	110	5.5	"	111		102	68-125			
1,2-Dichloroethane (EDC)	84	4.1	"	82.4		102	65-128			
Benzene	66	3.2	"	64.8		101	69-119			

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Volatile Organic Compounds by EPA TO-15 - 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 EB12209 - TO-15

LCS (EB12209-BS1)

Prepared: 20-Feb-21 Analyzed: 21-Feb-21

Carbon tetrachloride	130	6.4	ug/m3	128		102	68-132			
Trichloroethene	120	5.5	"	110		112	71-123			
Toluene	84	3.8	"	76.8		109	66-119			
1,1,2-Trichloroethane	120	5.5	"	111		107	73-119			
Tetrachloroethene	160	6.9	"	138		118	66-124			
1,1,1,2-Tetrachloroethane	170	7.0	"	140		124	67-129			
Ethylbenzene	110	4.4	"	88.4		126	70-124			QL-1H
m,p-Xylene	110	8.8	"	88.4		125	61-134			
o-Xylene	110	4.4	"	88.4		124	67-125			
1,1,2,2-Tetrachloroethane	160	7.0	"	140		111	65-127			
Surrogate: 1,2-Dichloroethane-d4	203		"	214		95.2	76-134			
Surrogate: Toluene-d8	199		"	208		95.7	78-125			
Surrogate: 4-Bromofluorobenzene	363		"	363		100	77-127			

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST021221-13
Project Number: 185804980 / Crenshaw Blvd
Project Manager: Lewis Simons

Reported:
24-Feb-21 15:43

Notes and Definitions

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

LCC Leak Check Compound

ND Analyte NOT DETECTED at or above the reporting limit

MDL Method Detection Limit

%REC Percent Recovery

RPD Relative Percent Difference

All soil results are reported in wet weight.

Appendix

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

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

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

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

Lab Client and Project Information			
Lab Client/Consultant: <u>Stantec</u>		Project Name / #: <u>185804980</u>	
Lab Client Project Manager: <u>Lewis Simons</u>		Project Location: <u>24747 Crenshaw Blvd</u>	
Lab Client Address: <u>290 Conejo Ridge Ave</u>		Report E-Mail(s): <u>Lewis.simons@stantec.com</u>	
Lab Client City, State, Zip: <u>Thousand Oaks, CA 91361</u>		<u>Ben.chulen@stantec.com</u>	
Phone Number: <u>(562) 766-1686</u>			
Reporting Requirements		Turnaround Time	
<input checked="" type="checkbox"/> Standard Report <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Excel EDD <input type="checkbox"/> Other EDD: _____ <input type="checkbox"/> CA Geotracker Global ID: _____		<input checked="" type="checkbox"/> Standard (7 days for preliminary report, 10 days for final report) <input type="checkbox"/> Rush (specify): _____	
Sampler Information		Sampler(s): <u>J. Arellano</u>	
		Signature: <u>[Signature]</u>	
		Date: <u>02-11-21</u>	

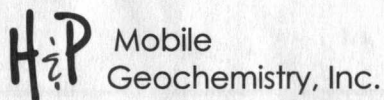
Sample Receipt (Lab Use Only)	
Date Rec'd: <u>2/12</u>	Control #: <u>210085.08</u>
H&P Project # <u>ST021221-TN138</u>	
Lab Work Order # <u>E102048</u>	
Sample Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below	
Receipt Gauge ID: <u>60206</u>	Temp: <u>RT</u>
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials: <u>UB</u>	

Additional Instructions to Laboratory:

* Preferred VOC units (please choose one): Confirm with Ben Chulen per Ron Barron

☐ 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, 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 type="checkbox"/> 8260SV	<input checked="" type="checkbox"/> TO-15	<input type="checkbox"/> 8260SV	<input type="checkbox"/> TO-15								
VP-9		02-11-21	1029	SV	450 mL	634	0.26	/								/			
VP-10			1042			698	0.46	/								/			
VP-8			1056			636	0.46	/								/			
VP-7			1113			649	0.28	/								/			
VP-6			1126			637	0.17	/								/			
VP-5			1139			639	0.37	/								/			
VP-4			1151			641	0.21	/								/			
VP-3			1202			727	0.38	/								/			
VP-2			1217			703	0.39	/								/			
VP-2 Dup			1217			701	0.35	/								/			
Approved/Relinquished by: <u>[Signature]</u>		Company: <u>STANTEC</u>		Date: <u>2/10/21</u>		Time: <u>1345</u>		Received by: <u>J. Arellano</u>		Company: <u>H&P</u>		Date: <u>02-11-21</u>		Time: <u>1345</u>					
Approved/Relinquished by:		Company:		Date:		Time:		Received by:		Company:		Date:		Time:					
Approved/Relinquished by:		Company:		Date:		Time:		Received by:		Company:		Date:		Time:					



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DATE: 02-11-21
Page 2 of 2

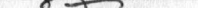
Lab Client and Project Information		
Lab Client/Consultant:	stantec	Project Name / #: 185804980
Lab Client Project Manager:	Lewis Simon	Project Location: 24747 Crenshaw Blvd
Lab Client Address:	290 Conejo Bidge Ave	Report E-Mail(s): Lewis.simon@stantec.com
Lab Client City, State, Zip:	Thousand Oaks, CA 91361	Ben.cherlen@stantec.com
Phone Number:	(562) 766-1686	
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): J. Arellano Signature:  Date: 02-11-21

Sample Receipt (Lab Use Only)	
Date Rec'd: 2/12	Control #: 210085.08
H&P Project # ST021221-N 1348431127	
Lab Work Order # E102048	
Sample Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below	
Receipt Gauge ID: 60206	Temp: RT
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials: WJ	

Additional Instructions to Laboratory:

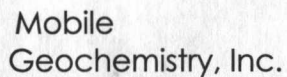
* Preferred VOC units (please choose one): *Confirm with Ben cheylen per Ron Barron*

☐ $\mu\text{g/L}$ ☐ $\mu\text{g/m}^3$ ☐ ppbv ☐ ppmv[illegible]

Approved/Relinquished by: 	Company: STANTEC	Date: 2/11/21	Time: 1345	Received by: J. Arellano	Company: H&P	Date: 02-11-21	Time: 1345
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

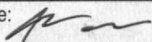
**Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back*

Appendix 6A1, Rev 1/9/2019, Effective 1/21/2019



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DATE: 02-11-21
Page 1 of 2

Lab Client and Project Information		
Lab Client/Consultant:	Stantec	Project Name / #: 185804980
Lab Client Project Manager:	Lewis Simons	Project Location: 24747 Crenshaw Blvd
Lab Client Address:	290 Congo Ridge Ave	Report E-Mail(s):
Lab Client City, State, Zip:	Thousand Oaks, CA 91361	Lewis.simons@stantec.com
Phone Number:	(562) 766-1686	Ben.chauden@stantec.com
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): J. Arellano Signature:  Date: 02-11-21

Sample Receipt (Lab Use Only)	
Date Rec'd: 2/12	Control #: 210085.08
H&P Project # ST021221 - T138 ⁴⁸⁰ 2422	
Lab Work Order # E102048	
Sample Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below	
Receipt Gauge ID: 60206	Temp: RT
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials: UR	

Additional Instructions to Laboratory:

* Preferred VOC units (please choose one): *Confirm with Ben Chevlen per Ron Barron*

☐ $\mu\text{g/L}$ ☐ $\mu\text{g/m}^3$ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE <small>Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)</small>	CONTAINER SIZE & TYPE <small>400mL/1L/6L Summa, Tedlar, Tube, etc.</small>	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard R <input type="checkbox"/> 8260SV <input checked="" type="checkbox"/>	VOCs Short List <input type="checkbox"/> 8260SV <input type="checkbox"/>	Oxygenates <input type="checkbox"/> 8260SV <input type="checkbox"/>	Naphthalene <input type="checkbox"/> 8260SV <input type="checkbox"/>	TPHv as Gas <input type="checkbox"/> 8260SV/m <input type="checkbox"/>	Aromatic/Aliphatic <input type="checkbox"/> 8260SV/m <input type="checkbox"/>	Leak Check Com <input type="checkbox"/> DFA <input type="checkbox"/> IPA	Methane by EPA	Fixed Gases by <input type="checkbox"/> CO2 <input type="checkbox"/> O2				
VP-9		02-11-21	1029	SV	450 mL	634	0.26	/						/						
VP-10			1042			698	0.41	/						/						
VP-8			1056			636	0.46	/						/						
VP-7			1113			649	0.28	/						/						
VP-6			1126			637	0.17	/						/						
VP-5			1139			639	0.37	/						/						
VP-4			1151			641	0.21	/						/						
VP-3			1202			727	0.38	/						/						
VP-2			1217			703	0.39	/						/						
VP-2 Duo			1217			701	0.35	/						/						

Approved/Relinquished by: 

Company: **STANTEC** Date: **2/11/21** Time: **1345**

Received by: J. Arellano

Company: H&P Date: 02-11-21 Time: 1349

Approved/Relinquished by:

Company: _____ Date: _____ Time: _____

Received by: _____

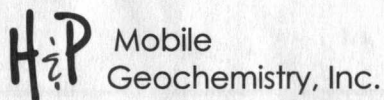
Company: _____ Date: _____ Time: _____

Approved/Relinquished by:

Company: _____ Date: _____ Time: _____

Received by: _____


Company: _____ Date: _____ Time: _____



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DATE: 02-11-21
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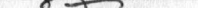
Lab Client and Project Information		
Lab Client/Consultant:	stantec	Project Name / #: 185804980
Lab Client Project Manager:	Lewis Simon	Project Location: 24747 Crenshaw Blvd
Lab Client Address:	290 Conejo Bidge Ave	Report E-Mail(s): Lewis.simon@stantec.com
Lab Client City, State, Zip:	Thousand Oaks, CA 91361	Ben.cherlen@stantec.com
Phone Number:	(562) 766-1686	
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): J. Arellano Signature:  Date: 02-11-21

Sample Receipt (Lab Use Only)	
Date Rec'd: 2/12	Control #: 210085.08
H&P Project # ST021221-N 1348431127	
Lab Work Order # E102048	
Sample Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below	
Receipt Gauge ID: 60206	Temp: RT
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials: WJ	

Additional Instructions to Laboratory:

* Preferred VOC units (please choose one): *Confirm with Ben cheylen per Ron Barron*

☐ $\mu\text{g/L}$ ☐ $\mu\text{g/m}^3$ ☐ ppbv ☐ ppmv[illegible]

Approved/Relinquished by: 	Company: STANTEC	Date: 2/11/21	Time: 1345	Received by: J. Arellano	Company: H&P	Date: 02-11-21	Time: 1345
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*

Appendix 6A1, Rev 1/9/2019, Effective 1/21/2019

Log Sheet: Soil Vapor Sampling with Helium Shroud

H&P Project #: ST021021-TECH/He

Date: 02-11-21

Site Address: 24747 Crenshaw Blvd (Parco Building)

Page: 1 of 2

Consultant: Stantec

H&P Rep(s): J. Arellano

Reviewed: EC

Consultant Rep(s): Bon Barron

Scanned: T. Thomas

Equipment Info	
Inline Gauge ID#:	<u>T05</u>
Pump ID#:	<u>—</u>
He Meter ID#:	<u>017</u>
Shroud ID#:	<u>047</u>

Purge Volume	
PV Amount:	<u>300 mL</u>
PV Includes:	<input checked="" type="checkbox"/> Tubing <input type="checkbox"/> Sand 40% <input type="checkbox"/> Dry Bent 50%

MGD 2002 Helium Detector Calibration		
	Time	Helium (%)
Calibration Standard	n/a	2.5
Opening Calibration	<u>1009</u>	<u>2.4</u>
Closing Calibration	<u>1248</u>	<u>2.7</u>
Acceptable Range	n/a	2.1 - 2.9

Shroud Procedure:	
<u>H&P He Shroud sop</u>	

Sample and Summa Information							Probe Specs							Purge & Collection Information							Shroud Info			Probe Pressure
Point ID	Summa ID #	Sample Kit ID #	Start Time	Initial Vac ("Hg)	End / Sample Time	End Vac ("Hg)	Probe Depth (ft)	Tube Length (ft)	Tube OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min: sec)	Sample Flow Rate (mL/min)	ProbeVac <input type="checkbox"/> Hg <input checked="" type="checkbox"/> H ₂ O	He % Before	He % After	Probe ppmv		
1	VP-9	634	281	1025	-30	1029	0	VP	2	1/8	—	—	—	✓	300	4200	—	4200	0	54.5	56.1	0	0	
2	VP-10	698	175	1039	-27.5	1042	0	VP	2	1/8	—	—	—	✓	300	4200	—	4200	0	60.9	51.9	0	0	
3	VP-8	636	207	1051	-27	1056	0	VP	2	1/8	—	—	—	✓	300	4200	—	4200	0	56.7	50.8	425	0	
4	VP-7	649	177	1109	-26	1113	0	VP	2	1/8	—	—	—	✓	300	4200	—	4200	0	60.8	55.1	0	0	
5	VP-6	637	074	1123	-28	1126	0	VP	2	1/8	—	—	—	✓	300	4200	—	4200	0	58.7	51.2	0	0	
6	VP-5	639	136	1134	-27	1139	0	VP	2	1/8	—	—	—	✓	300	4200	—	4200	0	57.3	52.4	0	0	
7	VP-4	641	073	1147	-28	1151	0	VP	2	1/8	—	—	—	✓	300	4200	—	4200	0	65.9	56.0	0	0	
8	VP-3	727	320	1158	-27	1158	0	VP	2	1/8	—	—	—	✓	300	4200	—	4200	0	63.7	56.5	0	0	
9	VP-2	703	279	1212	-30	1217	0	VP	2	1/8	—	—	—	✓	300	4200	—	4200	0	59.4	51.2	0	0	
10	VP-2 Dup	701	165	1212	-26.9	1217	0	VP	2	1/8	—	—	—	✓	300	4200	—	4200	0	59.4	51.2	0	0	

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

*VP = Vapor pin

Log Sheet: Soil Vapor Sampling with Helium Shroud

H&P Project #: ST021021-TECH/He

Date: 02-11-21

Site Address: 24747 Creechaw Blvd (Parco Building)

Page: 2 of 2

Consultant: Stantec

H&P Rep(s): J. Arellano

Reviewed: EC

Consultant Rep(s): Bon Barron

Scanned: Thos

Equipment Info	
Inline Gauge ID#:	<u>T05</u>
Pump ID#:	<u>—</u>
He Meter ID#:	<u>017</u>
Shroud ID#:	<u>047</u>

Purge Volume	
PV Amount:	<u>300 mL</u>
PV Includes:	<input checked="" type="checkbox"/> Tubing <input type="checkbox"/> Sand 40% <input type="checkbox"/> Dry Bent 50%

MGD 2002 Helium Detector Calibration		
	Time	Helium (%)
Calibration Standard	n/a	2.5
Opening Calibration	<u>1009</u>	<u>2.4</u>
Closing Calibration	<u>1248</u>	<u>2.7</u>
Acceptable Range	n/a	2.1 - 2.9

Shroud Procedure:	
<u>H&P He Shroud SOP</u>	

Sample and Summa Information							Probe Specs							Purge & Collection Information							Shroud Info		
Point ID	Summa ID #	Sample Kit ID #	Start Time	Initial Vac ("Hg)	End / Sample Time	End Vac ("Hg)	Probe Depth (ft)	Tube Length (ft)	Tube OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min: sec)	Sample Flow Rate (mL/min)	ProbeVac <input type="checkbox"/> Hg <input checked="" type="checkbox"/> H ₂ O	He % Before	He % After	Prob ppm	
1	VP-1	638	250	12:17	27.5	12:36	0	VP	2	1/8	—	—	—	✓	300	400	—	400	0	58.9	52.2	0	
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

Probe Pressure

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