

Project No. **14121.001.000** 

December 20, 2018

Mr. Tom Jodry TC Agoge Associates, LLC 101 California Street, Suite 2200 San Francisco. CA 94111

Subject: 354-358 Royal Avenue & 365 Bird Avenue

San Jose, California

PHASE II ENVIRONMENTAL SITE ASSESSMENT

Reference: ENGEO, Phase I Environmental Site Assessment, 354-358 Royal Avenue & 365

Bird Avenue, San Jose, California, DRAFT; December 17, 2018.

Dear Mr. Jodry:

We are pleased to submit the findings of our phase II environmental site assessment (ESA) undertaken at the subject property (Property) in San Jose, California. The purpose of this phase II ESA is to determine if potential subsurface impairments associated with past land use are present at the Property and the potential migration of offsite impact from neighboring sites.

#### **BACKGROUND**

The Property is located at 354-358 Royal Avenue and 365 Bird Avenue in San Jose, California (Property) (Figures 1 and 2). An additional address associated with the Property is 375 Bird Avenue. The approximately 0.5-acre Property consists of four parcels identified as Assessor's Parcel Numbers (APN) 264-20-008, 264-20-009, 264-20-010, and 264-20-021.

The Property consists of two buildings; one used as a convenience store, and the second used as an automotive repair shop, along with associated parking and landscaping. The Property is bounded by Royal Avenue to the west, Bird Avenue to the east, commercial developments to the north, and a gasoline service station and Auzerais Avenue to the south. Surrounding land use is a combination of commercial, light industrial, and residential uses.

Based on the findings of this assessment, no Recognized Environmental Conditions (RECs), no historical RECs, and no controlled RECs were identified for the Property; however, the following potential environmental concerns were identified for the Property.

- Based on both the review of regulatory databases and the area's historic industrial land uses, as well as the use of the Property an automotive repair shop, potential sources of groundwater and soil gas impact exist within the vicinity of the Property.
- Given the age of the existing structures on the Property, it is conceivable that both lead-based paint and asbestos-containing material are present within the structures.

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A limited phase II ESA was recommended to evaluate potential impacts due to the past use of the Property as an automotive repair shop, as well as other offsite sources.

#### **SCOPE OF FIELD EXPLORATION**

Field sampling activities associated with the phase II ESA were performed on December 13, 2018. Prior to drilling, an ENGEO representative contacted USA North Service Alert for identification of underground utilities at the Property. In addition, as a precautionary measure, a private utility locator was retained to clear the sample locations.

A C-57 licensed drilling contractor was retained to advance borings using a Geoprobe® direct-push rig. Soil gas samples were collected from three locations on the Property (SG-1 through SG-3), and groundwater samples were collected from two locations (GW-1 and GW-2), as presented on Figure 2. Details pertaining to each of these tasks are presented below.

#### **Task 1: Grab Groundwater Assessment**

Two direct-push borings were advanced at the Property to a total depth of approximately 25 feet below ground surface, until groundwater was first encountered (Figure 2). Grab groundwater samples were recovered from the two borings. Groundwater was encountered at a depth of approximately 19 to 23 feet below the ground surface. Temporary PVC casings were used in each borehole to facilitate sample collection.

Upon collection, groundwater samples were placed into laboratory-provided sample containers. Each container was labeled with a sample identification, sample location, date and time of collection, and sampler's identification. The groundwater samples were then placed in an ice-cooled chest and submitted under documented chain-of-custody to Torrent Laboratory, Inc., a State-certified laboratory located in Milpitas, California.

The grab groundwater samples were analyzed for the presence of total petroleum hydrocarbons as gasoline (TPH-g) and volatile organic compounds (VOCs) (EPA Method 8260), total petroleum hydrocarbons as diesel (TPH-d) and total petroleum hydrocarbons as motor oil (TPH-mo) (EPA Method 8015M with silica gel cleanup), and CAM-17 metals (EPA Method 6010/7471).

Following sample recovery, the temporary well points were removed and backfilled with neat cement grout.

#### Task 2: Soil Gas Assessment

In order to evaluate potential vapor intrusion issues at the Property, soil gas samples were collected from three locations (SG-1 through SG-3) at the Property (Figure 2).

The installation and sampling of the soil gas borings were performed in general conformance with the Department of Toxic Substances Control (DTSC) *Final Advisory Active Soil Gas Investigations* (July 2015), using the following procedures:

• The temporary soil vapor monitoring well casings were constructed with ¼-inch-diameter Teflon® tubing equipped with a 6-inch stainless steel filter at the base of the tubing. The

temporary well installation was performed with a Geoprobe® direct-push rig, which advanced an approximately 2-inch-diameter boring to a depth of 6 feet below the ground surface.

- The bottom of the well casing was equipped with a 6-inch-long filter centered in the middle of a 2-foot layer of No. 3 sand. Six inches of dry bentonite was installed on top of the sand, and the remaining annular space was filled with hydrated bentonite grout to the surface.
- Following installation of the annular seal, the well casings were sealed, and the mandatory 2-hour equilibration time began. The sample train was connected to the well tubing by threading the permanent Swagelok® fitting on the well casing onto the manifold. The sample train consisted of a stainless steel twin summa manifold with a built-in flow controller set to 100 to 200 milliliters per minute (ml/min).
- Following the mandatory equilibration time, a purge canister was attached to the manifold connection closest to the well casing and the sample canister was connected to the manifold fitting furthest away from the well casing. Prior to connecting the sample train to the well casing, a shut-in test was performed to assess for potential leaks. The shut-in test consisted of capping the end of the manifold, then applying a vacuum with the purge canister, closing the purge valve, and observing the vacuum gauge for 2 minutes to determine if there is a drop in vacuum.
- A minimum of three well volumes were purged from the wells. Once purging was complete, the valve on the purge canister was closed. Samples were collected by opening the sample canister valve and allowing the sample canister to extract soil vapor until the vacuum in the sample canister reached approximately 5 inches of mercury. The leak detection compound 1,1-diflouroethane (1,1-DFA) was applied by wrapping a doused rag around the manifold fittings during sample collection.
- Each sample canister was labeled with a unique identification number, sampling time, and pre- and post-sample vacuum readings. Three soil gas samples were collected and submitted to Torrent Laboratory, Inc. under documented chain-of-custody for analysis of TPH-gasoline and VOCs, by EPA Test Method TO-15.

#### **ANALYTICAL RESULTS**

#### Groundwater

Review of the laboratory test results found detectable concentrations of several metallic analytes, including barium, chromium, molybdenum, selenium, nickel, and zinc in the grab groundwater samples collected from the Property. The detectable concentrations of all metals are below the corresponding San Francisco Regional Water Quality Control Board's (SFRWQCB) Environmental Screening Levels (ESLs) for groundwater established by the SFRWQCB<sup>1</sup>.

As presented in Table A, TPH-g and TPH-d were detected at low concentrations in the grab groundwater samples. Concentrations of TPH-d in both grab groundwater samples exceeded the corresponding ESL. TPH-mo was not detected in the groundwater samples collected from the Property.

<sup>&</sup>lt;sup>1</sup> San Francisco Bay Regional Water Quality Control Board, Environmental Screening Levels (ESLs), MCL Priority (Table GW-1) February 2016, Revision 3.

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Xylene(s) and ethylbenzene were the only VOCs detected in one groundwater sample (GW-1), at concentrations below their corresponding ESL.

A summary of the groundwater analytical results is presented in Table A. The analytical laboratory reports are presented in their entirety in Appendix A.

#### **Soil Gas**

VOCs, including 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 2-butanone, acetone, benzene, carbon disulfide, ethylbenzene, toluene, naphthalene, hexane, xylene(s), methyl tert-butyl ether (MTBE), and TPH-g were detected in the soil gas samples collected from the Property. Results were compared to the corresponding SFRWQCB's ESLs for vapor intrusion for both residential and commercial land use<sup>2,3</sup>.

As presented in Table B, concentrations of all VOCs were below the corresponding residential and commercial/industrial ESLs in the soil gas samples collected from the Property, with the exception of TPH-g, ethylbenzene, naphthalene, and xylene(s).

- TPH-g was detected at a concentration of 1,170,000 micrograms per cubic meter (μg/m³), in soil gas sample SG-2, exceeding its corresponding residential ESL of 300,000 μg/m³. However, this concentration is below the corresponding commercial/industrial ESL.
- Ethylbenzene was detected at a concentration of 30,000 μg/m³ in soil gas sample SG-2, exceeding its corresponding residential and commercial/industrial ESLs.
- Total xylene(s) were detected at a concentration of 204,000 μg/m³ in soil gas sample SG-2, exceeding its corresponding residential ESL of 52,000 μg/m³, but below its corresponding commercial/industrial ESL.
- Naphthalene was detected at a concentration of 53 μg/m³ in soil gas sample SG-3, exceeding its corresponding residential ESL of 41 μg/m³, but below its corresponding commercial/industrial ESL.

A summary of the soil gas analytical results is presented in Table B. The analytical laboratory reports are presented in their entirety in Appendix A.

#### **DISCUSSION AND CONCLUSION**

 Both grab groundwater samples recovered from the Property exhibited concentrations of TPH-d in excess of the corresponding ESL for groundwater.

<sup>&</sup>lt;sup>2</sup> San Francisco RWQCB Table SG-1, Vapor Intrusion Residential Environmental Screening Levels, Revision 3, February 2016.

<sup>&</sup>lt;sup>3</sup> San Francisco RWQCB Table SG-1, Vapor Intrusion Commercial/Industrial Environmental Screening Levels, Revision 3, February 2016.

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Concentrations of select VOCs (TPH-g, naphthalene, ethylbenzene, and total xylene(s)) were
detected at concentrations exceeding their corresponding residential and/or
commercial/industrial ESLs in the soil gas samples collected from the Property.

Based on the analytical results, were believe that the Property may have been adversely impacted due to its past use as an automotive repair shop or due to potential offsite sources.

Additional sampling is recommended to further evaluate the extent of soil gas impacts and potential vapor intrusion at the Property. Additionally, given the past use of the Property, preparation of a Site Management Plan (SMP) is recommended to outline procedures and protocols to handle impacted materials.

#### **LIMITATIONS**

We strived to perform our professional services in accordance with generally accepted engineering principles and practices currently employed in the area (prevailing practice); no warranty is expressed or implied. This report is based upon field and other conditions discovered at the time of report preparation. We developed our conclusions with limited subsurface exploration data and assumed the test results are representative of the actual subsurface conditions across the Property. If unexpected conditions are encountered, notify ENGEO immediately to review these conditions and provide additional and/or modified conclusions, as necessary.

Because prevailing practice and applicable regulatory standards may change over time, our conclusions are limited to the circumstances under which we performed our services. In addition, the samples recovered and tested as part of this assessment are only representative of the noted locations/depths and the analytes tested. We are unable to eliminate all risks nor provide insurance; therefore, we are unable to guarantee or warrant the results of our services.

If you have any questions regarding this report, please contact us.

Sincerely,

**ENGEO** Incorporated

Divya Bhargava, PE

db/jaa/bvv

Jeffrey A. Adams, PhD, PE

Attachments: Figures

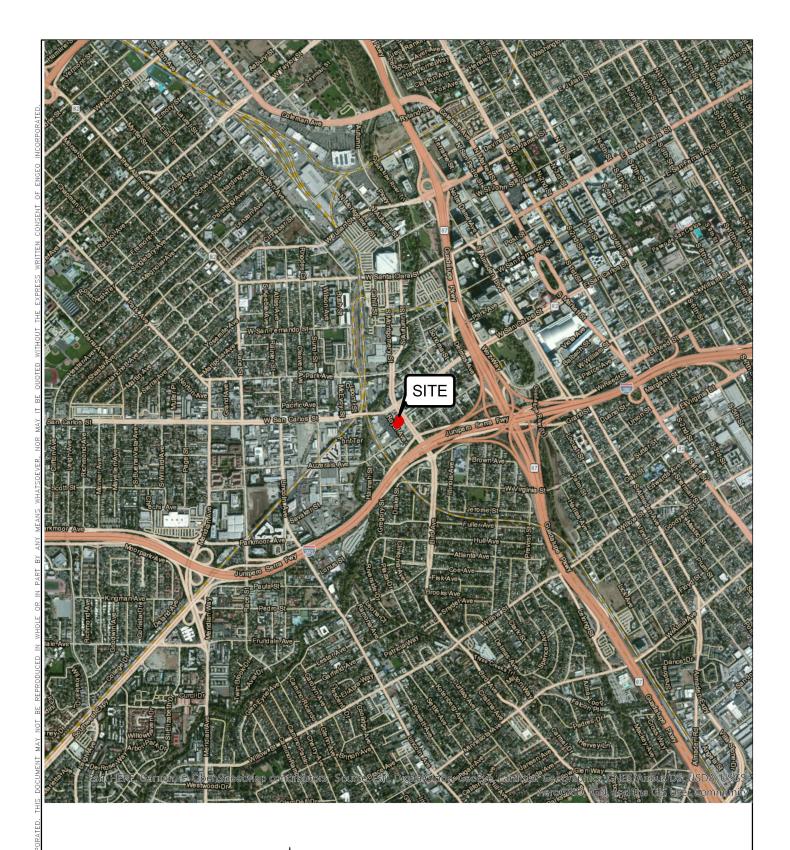
Tables

Appendix A – Laboratory Analytical Reports



# **FIGURES**

Figure 1 – Vicinity Map Figure 2 – Site Plan





0 1,000 2,000 FEET



VICINITY MAP

354-358 ROYAL AVENUE, 365 BIRD AVENUE SAN JOSE, CALIFORNIA PROJECT NO. : 14121.001.000 SCALE: AS SHOWN

DRAWN BY: QRL CHECKED BY:JAA

1





# **TABLES**

Table A – Summary of Groundwater Analytical Results Table B – Summary of Soil Gas Analytical Results

# **TABLE A - Summary of Groundwater Analytical Results**

							Metals							VOCs	
	Date	Barium	Chromium	Molybdenum	Selenium	Nickel	Zinc	Vanadium	Other Metals	TPH-g	TPH-d	TPH-mo	Ethylbenzene	Total Xylenes	Other VOCs
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μg/L	mg/L	mg/L	μg/L	μg/L	μg/L
MCL Pri	ority ESLs <sup>1</sup>	1	0.05	0.1	0.05	0.1	5	0.05		220	0.15		30	20	-
GW-1	12/13/2018	0.04	0.015	< 0.002	0.031	0.023	0.0082	0.032	ND	<29	0.171	<0.12	0.74	4.2	ND
GW-2	12/13/2018	0.036	0.005	0.013	0.027	0.0086	< 0.002	0.028	ND	37.6	0.278	<0.16	<0.5	< 0.31	ND

Notes -

NA = not analyzed

ND = non-detect

mg/L - milligrams per liter

μg/L - micrograms per liter



<sup>&</sup>lt;sup>1</sup> San Francisco RWQCB Table GW-1, MCL Priority Environmental Screening Levels, Rev 3 February 2016. Bold concentrations exceed ESLs.

# **TABLE B - Summary of Soil Gas Analytical Results**

						VO	Cs							
Sample ID	TPH-Gasoline	1,2,4- Trimethylbenzene	1,3,5- Trimethylbenzene	Carbon Disulfide	2-butanone	Acetone	Benzene	Toluene	Ethyl Benzene	Hexane	Naphthalene	Total Xylenes	MTBE	Other VOCs
	μg/m³	μg/m³	μg/m <sup>9</sup>	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m <sup>13</sup>	μg/m³
Residential ESLs <sup>1</sup>	3.0E+05	-	-	-	2.6E+06	1.6E+07	48	1.6E+05	560		41	5.2E+04	5.4E+03	
Commercial ESLs <sup>2</sup>	2.5E+06	-	-	-	2.2E+07	1.4E+08	420	1.3E+06	4900	-	360	4.4E+05	4.7E+04	-
SG-1	102,000	15.0	<1.5	10	64	190	13	130	140	34	<6.4	820	<2.2	ND
SG-2	1,170,000	<600	<300	<370	<390	<400	<440	<750	30,000	<460	<1,300	204,000	<440	ND
SG-3	9,980	17	9.8	22	63	170	22	130	63	36	53	430	12	ND

Notes:

 $\mu g/m^3$  - micrograms per cubic meter NA = not analyzed

ND = non-detect

<sup>1</sup> San Francisco RWQCB Table SG-1, Vapor Intrusion Residential Environmental Screening Levels, Rev 3 February 2016.

<sup>2</sup> San Francisco RWQCB Table SG-1, Vapor Intrusion Commercial/Industrial Environmental Screening Levels, Rev 3 February 2016.

200 - Concentration exceeds ESLs for Residential

200 - Concentration exceeds ESLs for both Residential and Commercial





# **APPENDIX A**

**Laboratory Analytical Reports** 



Engeo (San Ramon) 2010 Crow Canyon Place,#250 San Ramon, California 94583 Tel: (925) 866-9000

Fax: (925) 866-0199 RE: 354-358 Royal Ave

Work Order No.: 1812089

## Dear Divya Bhargava:

Torrent Laboratory, Inc. received 2 sample(s) on December 13, 2018 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Patti L Sandrock

**QA** Officer

December 14, 2018

Date

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**Date:** 12/14/2018

Client: Engeo (San Ramon)
Project: 354-358 Royal Ave
Work Order: 1812089

## **CASE NARRATIVE**

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.

483 Sinclair Frontage Rd., Milpitas, CA 95035 | tel: 408.263.5258 | fax: 408.263.8293 | www.torrentlab.com



Parameters:

Barium (Dissolved)

Chromium (Dissolved)

# **Sample Result Summary**

Report prepared for: Divya Bhargava Date Received: 12/13/18

Engeo (San Ramon) Date Reported: 12/14/18

<u>Analysis</u>

**Method** 

SW6010B

SW6010B

<u>MDL</u>

0.00090

<u>DF</u>

1

1

<u>PQL</u>

0.0050

0.00050 0.0050

**Results** 

0.040

0.015

<u>Unit</u>

mg/L

mg/L

**GW-1** 1812089-001

Nickel (Dissolved)	SW6010B	1	0.0020	0.0050	0.023	mg/L
Selenium (Dissolved)	SW6010B	1	0.0073	0.010	0.031	mg/L
Vanadium (Dissolved)	SW6010B	1	0.0010	0.0050	0.032	mg/L
Zinc (Dissolved)	SW6010B	1	0.0020	0.0050	0.0082	mg/L
TPH as Diesel	SW8015B	1	0.041	0.11	0.171	mg/L
Ethyl Benzene	SW8260B	1	0.20	0.50	0.74	ug/L
m,p-Xylene	SW8260B	1	0.39	1.0	3.0	ug/L
o-Xylene	SW8260B	1	0.15	0.50	1.2	ug/L
GW-2					181	12089-002
Parameters:	Analysis Method	<u>DF</u>	MDL	<u>PQL</u>	Results	<u>Unit</u>
TPH(Gasoline)	8260TPH	1.17	34	59	37.6	ug/L
Barium (Dissolved)	SW6010B	1	0.00050	0.0050	0.036	mg/L
Chromium (Diagolyad)	CMCO40D	4	0.00000	0.0050	0.0050	a/I

Total Page Count: 22 Page 3 of 22

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**Report prepared for:** Divya Bhargava **Date/Time Received:** 12/13/18, 2:50 pm

Engeo (San Ramon) Date Reported: 12/14/18

Client Sample ID: GW-1 Lab Sample ID: 1812089-001A

Project Name/Location:354-358 Royal AveSample Matrix:GroundwaterProject Number:14121.001.000

**Date/Time Sampled:** 12/13/18 / 9:15

SDG:

 Prep Method:
 5030VOC
 Prep Batch Date/Time:
 12/13/18
 1:16:00PM

Prep Batch ID: 1109856 Prep Analyst: BPATEL

Parametera	Analysis	DF	MDL	PQL	Results		Units	Analyzed	Time	D <sub>1</sub>	Analytical
Parameters:	Method					Q	Units	Analyzed	rime	Ву	Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND	•	ug/L	12/13/18	22:47	BP	436180
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	12/13/18	22:47	BP	436180
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	12/13/18	22:47	BP	436180
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	12/13/18	22:47	BP	436180
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/13/18	22:47	BP	436180
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	12/13/18	22:47	BP	436180
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	12/13/18	22:47	BP	436180
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	12/13/18	22:47	BP	436180
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	12/13/18	22:47	BP	436180
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	12/13/18	22:47	BP	436180
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	12/13/18	22:47	BP	436180
tert-Butanol	SW8260B	1	7.4	10	ND		ug/L	12/13/18	22:47	BP	436180
Diisopropyl ether (DIPE)	SW8260B	1	0.12	0.50	ND		ug/L	12/13/18	22:47	BP	436180
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	12/13/18	22:47	BP	436180
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	12/13/18	22:47	BP	436180
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	12/13/18	22:47	BP	436180
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	12/13/18	22:47	BP	436180
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	12/13/18	22:47	BP	436180
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	12/13/18	22:47	BP	436180
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	12/13/18	22:47	BP	436180
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	12/13/18	22:47	BP	436180
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	12/13/18	22:47	BP	436180
Benzene	SW8260B	1	0.16	0.50	ND		ug/L	12/13/18	22:47	BP	436180
TAME	SW8260B	1	0.072	0.50	ND		ug/L	12/13/18	22:47	BP	436180
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	12/13/18		BP	436180
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	12/13/18	22:47	BP	436180
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	12/13/18	22:47	BP	436180
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	12/13/18	22:47	BP	436180
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	12/13/18		BP	436180
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	12/13/18	22:47	BP	436180
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	12/13/18	22:47	BP	436180
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	12/13/18	22:47	BP	436180
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	12/13/18	22:47	BP	436180
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	12/13/18	22:47	BP	436180
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	12/13/18	22:47	BP	436180
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	12/13/18	22:47	BP	436180

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**Report prepared for:** Divya Bhargava **Date/Time Received:** 12/13/18, 2:50 pm

Engeo (San Ramon) Date Reported: 12/14/18

Client Sample ID: GW-1 Lab Sample ID: 1812089-001A

Project Name/Location:354-358 Royal AveSample Matrix:GroundwaterProject Number:14121.001.000

12/13/18 / 9:15

SDG:

Date/Time Sampled:

Prep Method: 5030VOC Prep Batch Date/Time: 12/13/18 1:16:00PM

Prep Batch ID:1109856Prep Analyst:BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
1,2-Dibromoethane	SW8260B	<u> </u>	0.079	0.50	ND		ug/L	12/13/18	22:47	BP	436180
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/13/18		BP	436180
Ethyl Benzene	SW8260B	1	0.20	0.50	0.74		ug/L	12/13/18	22:47	BP	436180
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	12/13/18	22:47	BP	436180
m,p-Xylene	SW8260B	1	0.39	1.0	3.0		ug/L	12/13/18	22:47	BP	436180
o-Xylene	SW8260B	1	0.15	0.50	1.2		ug/L	12/13/18	22:47	BP	436180
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	12/13/18	22:47	BP	436180
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	12/13/18	22:47	BP	436180
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	12/13/18	22:47	BP	436180
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	12/13/18	22:47	BP	436180
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	12/13/18	22:47	BP	436180
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	12/13/18	22:47	BP	436180
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	12/13/18	22:47	BP	436180
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	12/13/18	22:47	BP	436180
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	12/13/18	22:47	BP	436180
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	12/13/18	22:47	BP	436180
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	12/13/18	22:47	BP	436180
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	12/13/18	22:47	BP	436180
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	12/13/18	22:47	BP	436180
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	12/13/18	22:47	BP	436180
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	12/13/18	22:47	BP	436180
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	12/13/18	22:47	BP	436180
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	12/13/18	22:47	BP	436180
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	12/13/18	22:47	BP	436180
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	12/13/18	22:47	BP	436180
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	12/13/18	22:47	BP	436180
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	12/13/18	22:47	BP	436180
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	12/13/18	22:47	BP	436180
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	12/13/18	22:47	BP	436180
(S) Dibromofluoromethane	SW8260B		61.2 - 13	31	102		%	12/13/18	22:47	BP	436180
(S) Toluene-d8	SW8260B		75.1 - 12	27	93.2		%	12/13/18	22:47	BP	436180
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 12	20	108		%	12/13/18	22:47	BP	436180

 Prep Method:
 5030GRO
 Prep Batch Date/Time:
 12/13/18
 1:16:00PM

Prep Batch ID:1109859Prep Analyst:BPATEL

Total Page Count: 22 Page 5 of 22



Divya Bhargava Report prepared for: Date/Time Received: 12/13/18, 2:50 pm

Engeo (San Ramon) Date Reported: 12/14/18

GW-1 Client Sample ID: 1812089-001A Lab Sample ID:

Project Name/Location: 354-358 Royal Ave Sample Matrix: Groundwater 14121.001.000 **Project Number:** 

12/13/18 / 9:15 Date/Time Sampled: SDG:

Prep Method: 5030GRO Prep Batch Date/Time: 12/13/18 1:16:00PM

Prep Batch ID: 1109859 **BPATEL** Prep Analyst:

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
TPH(Gasoline)	8260TPH	1	29	50	ND		ug/L	12/13/18	22:47	BP	436180
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 12	25	101		%	12/13/18	22:47	BP	436180

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Total Page Count: 22 Page 6 of 22



Report prepared for: Divya Bhargava Date/Time Received: 12/13/18, 2:50 pm

Engeo (San Ramon) Date Reported: 12/14/18

 Client Sample ID:
 GW-1
 Lab Sample ID:
 1812089-001B

Project Name/Location:354-358 Royal AveSample Matrix:GroundwaterProject Number:14121.001.000

Date/Time Sampled: SDG:

 Prep Method:
 3510\_TPH
 Prep Batch Date/Time:
 12/13/18
 6:56:00PM

Prep Batch ID: 1109843 Prep Analyst: LIMBAT

12/13/18 / 9:15

Trop Buton IB: Troop Is					. rop / mary	<u> </u>					
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
TPH as Diesel	SW8015B	1	0.041	0.11	0.171	Х	mg/L	12/14/18	1:26	AW	436190
TPH as Motor Oil	SW8015B	1	0.12	0.44	ND		mg/L	12/14/18	1:26	AW	436190
		Α	cceptance	Limits							
Pentacosane (S)	SW8015B		59 - 12	9	108		%	12/14/18	1:26	AW	436190
NOTE: x-Diesel value the resul	t of overlap of Oil	range ir	nto Diesel	range							

Total Page Count: 22 Page 7 of 22



Report prepared for: Divya Bhargava Date/Time Received: 12/13/18, 2:50 pm

Engeo (San Ramon) Date Reported: 12/14/18

Client Sample ID: GW-1 Lab Sample ID: 1812089-001C

Project Name/Location: 354-358 Royal Ave Sample Matrix: Groundwater
Project Number: 14121.001.000

**Date/Time Sampled:** 12/13/18 / 9:15

SDG:

 Prep Method:
 7470AP
 Prep Batch Date/Time:
 12/13/18
 5:15:00PM

Prep Batch ID: 1109854 Prep Analyst: BJAY

Analysis DF MDL PQL Results Analytical Method Q Units Parameters: Analyzed Time Ву Batch Mercury (Dissolved) SW7470A 0.00013 0.00020 ND 12/14/18 13:05 BJAY 436197 mg/L

 Prep Method:
 3010B

 Prep Batch Date/Time:
 12/14/18
 5:00:00PM

Prep Batch ID: 1109849 Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
Antimony (Dissolved)	SW6010B	1	0.0050	0.010	ND		mg/L	12/14/18	10:39	ERR	436187
Arsenic (Dissolved)	SW6010B	1	0.0040	0.010	ND		mg/L	12/14/18	10:39	ERR	436187
Barium (Dissolved)	SW6010B	1	0.00050	0.0050	0.040		mg/L	12/14/18	10:39	ERR	436187
Beryllium (Dissolved)	SW6010B	1	0.00020	0.0050	ND		mg/L	12/14/18	10:39	ERR	436187
Cadmium (Dissolved)	SW6010B	1	0.0020	0.0050	ND		mg/L	12/14/18	10:39	ERR	436187
Chromium (Dissolved)	SW6010B	1	0.00090	0.0050	0.015		mg/L	12/14/18	10:39	ERR	436187
Cobalt (Dissolved)	SW6010B	1	0.00050	0.0050	ND		mg/L	12/14/18	10:39	ERR	436187
Copper (Dissolved)	SW6010B	1	0.0020	0.0050	ND		mg/L	12/14/18	10:39	ERR	436187
Lead (Dissolved)	SW6010B	1	0.0040	0.010	ND		mg/L	12/14/18	10:39	ERR	436187
Molybdenum (Dissolved)	SW6010B	1	0.0020	0.010	ND		mg/L	12/14/18	10:39	ERR	436187
Nickel (Dissolved)	SW6010B	1	0.0020	0.0050	0.023		mg/L	12/14/18	10:39	ERR	436187
Selenium (Dissolved)	SW6010B	1	0.0073	0.010	0.031		mg/L	12/14/18	10:39	ERR	436187
Silver (Dissolved)	SW6010B	1	0.0040	0.010	ND		mg/L	12/14/18	10:39	ERR	436187
Thallium (Dissolved)	SW6010B	1	0.0040	0.015	ND		mg/L	12/14/18	10:39	ERR	436187
Vanadium (Dissolved)	SW6010B	1	0.0010	0.0050	0.032		mg/L	12/14/18	10:39	ERR	436187
Zinc (Dissolved)	SW6010B	1	0.0020	0.0050	0.0082		mg/L	12/14/18	10:39	ERR	436187

Total Page Count: 22 Page 8 of 22



**Report prepared for:** Divya Bhargava **Date/Time Received:** 12/13/18, 2:50 pm

Engeo (San Ramon) Date Reported: 12/14/18

Client Sample ID: GW-2 Lab Sample ID: 1812089-002A

Project Name/Location:354-358 Royal AveSample Matrix:GroundwaterProject Number:14121.001.000

12/13/18 / 10:15

Date/Time Sampled: SDG:

 Prep Method:
 5030VOC
 Prep Batch Date/Time:
 12/13/18
 1:16:00PM

Prep Batch ID: 1109856 Prep Analyst: BPATEL

	Analysis	DF	MDL	PQL	Results			Ī		_	Analytical
Parameters:	Method					Q	Units	Analyzed	Time	Ву	Batch
The results shown below are	reported usin	g their	MDL.	•			•		-		
Dichlorodifluoromethane	SW8260B	1.17	0.31	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Chloromethane	SW8260B	1.17	0.20	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Vinyl Chloride	SW8260B	1.17	0.24	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Bromomethane	SW8260B	1.17	0.25	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Chloroethane	SW8260B	1.17	0.13	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Trichlorofluoromethane	SW8260B	1.17	0.22	0.59	ND		ug/L	12/13/18	23:15	BP	436180
1,1-Dichloroethene	SW8260B	1.17	0.17	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Freon 113	SW8260B	1.17	0.40	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Methylene Chloride	SW8260B	1.17	0.15	1.2	ND		ug/L	12/13/18	23:15	BP	436180
trans-1,2-Dichloroethene	SW8260B	1.17	0.19	0.59	ND		ug/L	12/13/18	23:15	BP	436180
MTBE	SW8260B	1.17	0.090	0.59	ND		ug/L	12/13/18	23:15	BP	436180
tert-Butanol	SW8260B	1.17	8.6	12	ND		ug/L	12/13/18	23:15	BP	436180
Diisopropyl ether (DIPE)	SW8260B	1.17	0.14	0.59	ND		ug/L	12/13/18	23:15	BP	436180
1,1-Dichloroethane	SW8260B	1.17	0.14	0.59	ND		ug/L	12/13/18	23:15	BP	436180
ETBE	SW8260B	1.17	0.075	0.59	ND		ug/L	12/13/18	23:15	BP	436180
cis-1,2-Dichloroethene	SW8260B	1.17	0.18	0.59	ND		ug/L	12/13/18	23:15	BP	436180
2,2-Dichloropropane	SW8260B	1.17	0.11	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Bromochloromethane	SW8260B	1.17	0.17	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Chloroform	SW8260B	1.17	0.14	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Carbon Tetrachloride	SW8260B	1.17	0.18	0.59	ND		ug/L	12/13/18	23:15	BP	436180
1,1,1-Trichloroethane	SW8260B	1.17	0.19	0.59	ND		ug/L	12/13/18	23:15	BP	436180
1,1-Dichloropropene	SW8260B	1.17	0.22	0.59	ND		ug/L	12/13/18		BP	436180
Benzene	SW8260B	1.17	0.18	0.59	ND		ug/L	12/13/18	23:15	BP	436180
TAME	SW8260B	1.17	0.084	0.59	ND		ug/L	12/13/18	23:15	BP	436180
1,2-Dichloroethane	SW8260B	1.17	0.13	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Trichloroethylene	SW8260B	1.17	0.17	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Dibromomethane	SW8260B	1.17	0.13	0.59	ND		ug/L	12/13/18	23:15	BP	436180
1,2-Dichloropropane	SW8260B	1.17	0.10	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Bromodichloromethane	SW8260B	1.17	0.089	0.59	ND		ug/L	12/13/18	23:15	BP	436180
cis-1,3-Dichloropropene	SW8260B	1.17	0.091	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Toluene	SW8260B	1.17	0.17	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Tetrachloroethylene	SW8260B	1.17	0.28	0.59	ND		ug/L	12/13/18		BP	436180
trans-1,3-Dichloropropene	SW8260B	1.17	0.25	0.59	ND		ug/L	12/13/18		BP	436180
1,1,2-Trichloroethane	SW8260B	1.17	0.089	0.59	ND		ug/L	12/13/18		BP	436180
Dibromochloromethane	SW8260B	1.17	0.21	0.59	ND		ug/L	12/13/18		BP	436180

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Total Page Count: 22 Page 9 of 22



Report prepared for: Divya Bhargava Date/Time Received: 12/13/18, 2:50 pm

Engeo (San Ramon) Date Reported: 12/14/18

Client Sample ID:GW-2Lab Sample ID:1812089-002AProject Name/Location:354-358 Royal AveSample Matrix:Groundwater

Project Name/Location:354-358 Royal AveSample Matrix:Project Number:14121.001.000

12/13/18 / 10:15

Date/Time Sampled: SDG:

 Prep Method:
 5030VOC
 Prep Batch Date/Time:
 12/13/18
 1:16:00PM

Prep Batch ID:1109856Prep Analyst:BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
The results shown below ar	e reported usi	ng their	r MDL.	<u> </u>		<u> </u>			<u>,                                      </u>		
1,3-Dichloropropane	SW8260B	1.17	0.25	0.59	ND		ug/L	12/13/18	23:15	BP	436180
1,2-Dibromoethane	SW8260B	1.17	0.092	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Chlorobenzene	SW8260B	1.17	0.19	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Ethyl Benzene	SW8260B	1.17	0.23	0.59	ND		ug/L	12/13/18	23:15	BP	436180
1,1,1,2-Tetrachloroethane	SW8260B	1.17	0.10	0.59	ND		ug/L	12/13/18	23:15	BP	436180
m,p-Xylene	SW8260B	1.17	0.46	1.2	ND		ug/L	12/13/18	23:15	BP	436180
o-Xylene	SW8260B	1.17	0.18	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Styrene	SW8260B	1.17	0.13	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Bromoform	SW8260B	1.17	0.089	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Isopropyl Benzene	SW8260B	1.17	0.25	0.59	ND		ug/L	12/13/18	23:15	BP	436180
n-Propylbenzene	SW8260B	1.17	0.35	0.59	ND		ug/L	12/13/18	23:15	BP	436180
Bromobenzene	SW8260B	1.17	0.17	0.59	ND		ug/L	12/13/18	23:15	BP	436180
1,1,2,2-Tetrachloroethane	SW8260B	1.17	0.092	0.59	ND		ug/L	12/13/18	23:15	BP	436180
2-Chlorotoluene	SW8260B	1.17	0.29	0.59	ND		ug/L	12/13/18	23:15	BP	436180
1,3,5-Trimethylbenzene	SW8260B	1.17	0.28	0.59	ND		ug/L	12/13/18	23:15	BP	436180
1,2,3-Trichloropropane	SW8260B	1.17	0.17	0.59	ND		ug/L	12/13/18	23:15	BP	436180
4-Chlorotoluene	SW8260B	1.17	0.25	0.59	ND		ug/L	12/13/18	23:15	BP	436180
tert-Butylbenzene	SW8260B	1.17	0.31	0.59	ND		ug/L	12/13/18	23:15	BP	436180
1,2,4-Trimethylbenzene	SW8260B	1.17	0.27	0.59	ND		ug/L	12/13/18	23:15	BP	436180
sec-Butyl Benzene	SW8260B	1.17	0.35	0.59	ND		ug/L	12/13/18	23:15	BP	436180
p-Isopropyltoluene	SW8260B	1.17	0.31	0.59	ND		ug/L	12/13/18	23:15	BP	436180
1,3-Dichlorobenzene	SW8260B	1.17	0.20	0.59	ND		ug/L	12/13/18	23:15	BP	436180
1,4-Dichlorobenzene	SW8260B	1.17	0.20	0.59	ND		ug/L	12/13/18	23:15	BP	436180
n-Butylbenzene	SW8260B	1.17	0.32	0.59	ND		ug/L	12/13/18	23:15	BP	436180
1,2-Dichlorobenzene	SW8260B	1.17	0.19	0.59	ND		ug/L	12/13/18	23:15	BP	436180
1,2-Dibromo-3-Chloropropane	SW8260B	1.17	0.89	2.3	ND		ug/L	12/13/18	23:15	BP	436180
Hexachlorobutadiene	SW8260B	1.17	0.72	2.3	ND		ug/L	12/13/18	23:15	BP	436180
1,2,4-Trichlorobenzene	SW8260B	1.17	1.1	2.3	ND		ug/L	12/13/18	23:15	BP	436180
Naphthalene	SW8260B	1.17	1.4	2.3	ND		ug/L	12/13/18	23:15	BP	436180
1,2,3-Trichlorobenzene	SW8260B	1.17	1.4	2.3	ND		ug/L	12/13/18	23:15	BP	436180
(S) Dibromofluoromethane	SW8260B		61.2 - 13	31	103		%	12/13/18	23:15	BP	436180
(S) Toluene-d8	SW8260B		75.1 - 12	27	95.6		%	12/13/18	23:15	BP	436180
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 12	20	108		%	12/13/18	23:15	BP	436180
NOTE: Reporting limits were ra	aised due to sedir	nent in a	II VOAs.								

Total Page Count: 22 Page 10 of 22



Report prepared for: Divya Bhargava Date/Time Received: 12/13/18, 2:50 pm

Engeo (San Ramon) Date Reported: 12/14/18

Client Sample ID: GW-2 Lab Sample ID: 1812089-002A

Project Name/Location:354-358 Royal AveSample Matrix:GroundwaterProject Number:14121.001.000

**Date/Time Sampled:** 12/13/18 / 10:15 **SDG:** 

Prep Method: 5030GRO Prep Batch Date/Time: 12/13/18 1:16:00PM

Prep Batch ID:1109859Prep Analyst:BPATEL

DF MDL PQL Analysis Results Analytical Parameters: Method Q Units Analyzed Time Ву Batch The results shown below are reported using their MDL. TPH(Gasoline) 8260TPH 1.17 59 37.6 ug/L 12/13/18 23:15 ΒP 436180 12/13/18 23:15 (S) 4-Bromofluorobenzene 41.5 - 125 91.1 BP 436180 8260TPH % NOTE: Raised reporting limit - see comment for 8260B analysis.

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Total Page Count: 22

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**Report prepared for:** Divya Bhargava **Date/Time Received:** 12/13/18, 2:50 pm

Engeo (San Ramon) Date Reported: 12/14/18

 Client Sample ID:
 GW-2
 Lab Sample ID:
 1812089-002B

Project Name/Location:354-358 Royal AveSample Matrix:GroundwaterProject Number:14121.001.000

**Date/Time Sampled:** 12/13/18 / 10:15 **SDG:** 

 Prep Method:
 3510\_TPH
 Prep Batch Date/Time:
 12/13/18
 6:56:00PM

Prep Batch ID: 1109843 Prep Analyst: LIMBAT

Trop Saton IS:													
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch		
TPH as Diesel	SW8015B	1	0.051	0.14	0.278	Х	mg/L	12/14/18	1:50	AW	436190		
TPH as Motor Oil	SW8015B	1	0.16	0.56	ND		mg/L	12/14/18	1:50	AW	436190		
		Α	cceptance	Limits									
Pentacosane (S)	SW8015B		59 - 12	9	99.4		%	12/14/18	1:50	AW	436190		
NOTE: x-Diesel value the resul	(4)												

Total Page Count: 22 Page 12 of 22

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Report prepared for: Divya Bhargava Date/Time Received: 12/13/18, 2:50 pm

Engeo (San Ramon) Date Reported: 12/14/18

Client Sample ID: GW-2 Lab Sample ID: 1812089-002C

Project Name/Location: 354-358 Royal Ave Sample Matrix: Groundwater
Project Number: 14121.001.000

12/13/18 / 10:15

Date/Time Sampled: SDG:

 Prep Method:
 7470AP
 Prep Batch Date/Time:
 12/13/18
 5:15:00PM

Prep Batch ID: 1109854 Prep Analyst: BJAY

Analysis DF MDL PQL Results Analytical Method Q Units Parameters: Analyzed Time Batch Ву SW7470A 0.00013 0.00020 12/14/18 13:07 Mercury (Dissolved) ND 436197 mg/L BJAY

 Prep Method:
 3010B
 Prep Batch Date/Time:
 12/14/18
 5:00:00PM

Prep Batch ID: 1109849 Prep Analyst: BJAY

Prep Batch ID: 1109849					Prep Analy	st:	BJA	(			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
Antimony (Dissolved)	SW6010B	1	0.0050	0.010	ND	-	mg/L	12/14/18	10:51	ERR	436187
Arsenic (Dissolved)	SW6010B	1	0.0040	0.010	ND		mg/L	12/14/18	10:51	ERR	436187
Barium (Dissolved)	SW6010B	1	0.00050	0.0050	0.036		mg/L	12/14/18	10:51	ERR	436187
Beryllium (Dissolved)	SW6010B	1	0.00020	0.0050	ND		mg/L	12/14/18	10:51	ERR	436187
Cadmium (Dissolved)	SW6010B	1	0.0020	0.0050	ND		mg/L	12/14/18	10:51	ERR	436187
Chromium (Dissolved)	SW6010B	1	0.00090	0.0050	0.0050		mg/L	12/14/18	10:51	ERR	436187
Cobalt (Dissolved)	SW6010B	1	0.00050	0.0050	ND		mg/L	12/14/18	10:51	ERR	436187
Copper (Dissolved)	SW6010B	1	0.0020	0.0050	ND		mg/L	12/14/18	10:51	ERR	436187
Lead (Dissolved)	SW6010B	1	0.0040	0.010	ND		mg/L	12/14/18	10:51	ERR	436187
Molybdenum (Dissolved)	SW6010B	1	0.0020	0.010	0.013		mg/L	12/14/18	10:51	ERR	436187
Nickel (Dissolved)	SW6010B	1	0.0020	0.0050	0.0086		mg/L	12/14/18	10:51	ERR	436187
Selenium (Dissolved)	SW6010B	1	0.0073	0.010	0.027		mg/L	12/14/18	10:51	ERR	436187
Silver (Dissolved)	SW6010B	1	0.0040	0.010	ND		mg/L	12/14/18	10:51	ERR	436187
Thallium (Dissolved)	SW6010B	1	0.0040	0.015	ND		mg/L	12/14/18	10:51	ERR	436187
Vanadium (Dissolved)	SW6010B	1	0.0010	0.0050	0.028		mg/L	12/14/18	10:51	ERR	436187
Zinc (Dissolved)	SW6010B	1	0.0020	0.0050	ND		mg/L	12/14/18	10:51	ERR	436187

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# **MB Summary Report**

				iiib Gai	illial y ix	port			
Work Order:	1812089	Prep l	Method:	3510_TPH	Prep	Date:	12/13/18	Prep Batch:	1109843
Matrix:	Water	Analytical Method:		SW8015B	Anal	yzed Date:	12/14/2018	Analytical Batch:	436190
Units:	mg/Kg								
Parameters		MDL	PQL	Method Blank Conc.	Lab Qualifier				
TPH as Diesel		0.037	0.10	ND					
TPH as Motor Oil Pentacosane (S)		0.11	0.40	ND 115					
Work Order:	1812089	Prep	Method:	3010B	Prep	Date:	12/14/18	Prep Batch:	1109849
Matrix:	Water	Analy Metho		SW6010B	Anal	Analyzed Date:		Analytical Batch:	436187
Units:	mg/L								
Parameters		MDL	PQL	Method Blank Conc.	Lab Qualifier				
Antimony (Dissol	ved)	0.0050	0.010	ND					
Arsenic (Dissolve	ed)	0.0040	0.010	ND					
Barium (Dissolve	d)	0.00050	0.0050	0.000500					
Beryllium (Dissolv	•	0.00020	0.0050	0.000300					
Cadmium (Dissol		0.0020	0.0050	ND					
Chromium (Disso		0.00090	0.0050	ND					
Cobalt (Dissolved		0.00050	0.0050	ND					
Copper (Dissolve		0.0020	0.0050	ND					
Lead (Dissolved)		0.0040	0.010	ND					
Molybdenum (Dis	•	0.0020	0.010	ND					
Nickel (Dissolved		0.0020	0.0050	ND					
Selenium (Dissolved		0.0073	0.010	ND					
Silver (Dissolved) Thallium (Dissolv		0.0040 0.0040	0.010 0.015	ND ND					
Vanadium (Dissolv		0.0040	0.015	ND					
Zinc (Dissolved)		0.0010	0.0050	ND					
Work Order:	1812089		Method:	7470AP	Prep	Date:	12/13/18	Prep Batch:	1109854
Matrix:	Water	•		SW7470A	_	yzed Date:	12/14/2018	Analytical	436197
Units:	mg/L		Analytical Method:			,		Batch:	
Parameters		MDL	PQL	Method Blank Conc.	Lab Qualifier				
Mercury (Dissolve	ed)	0.00013	0.00020	ND					
- '									

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# **MB Summary Report**

Work Order: 1812089 Prep Method: 5030VOC Prep Date: 12/13/18 Prep Batch: 1109856 Matrix: Water Analytical Method: SW8260B Analyzed Date: 12/13/2018 Analytical Batch: 436180 Units: ug/L

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.26	0.50	ND	•	
Chloromethane	0.17	0.50	ND		
Vinyl Chloride	0.21	0.50	ND		
Bromomethane	0.21	0.50	ND		
Chloroethane	0.11	0.50	ND		
Trichlorofluoromethane	0.19	0.50	ND		
1,1-Dichloroethene	0.14	0.50	ND		
Freon 113	0.34	0.50	ND		
Methylene Chloride	0.13	1.0	ND		
trans-1,2-Dichloroethene	0.16	0.50	ND		
MTBE	0.077	0.50	ND		
tert-Butanol	7.4	10	ND		
Diisopropyl ether (DIPE)	0.12	0.50	ND		
1,1-Dichloroethane	0.12	0.50	ND		
ETBE	0.064	0.50	ND		
cis-1,2-Dichloroethene	0.15	0.50	ND		
2,2-Dichloropropane	0.094	0.50	ND		
Bromochloromethane	0.15	0.50	ND		
Chloroform	0.12	0.50	ND		
Carbon Tetrachloride	0.16	0.50	ND		
1,1,1-Trichloroethane	0.16	0.50	ND		
1,1-Dichloropropene	0.19	0.50	ND		
Benzene	0.16	0.50	ND		
TAME	0.072	0.50	ND		
1,2-Dichloroethane	0.11	0.50	ND		
Trichloroethylene	0.15	0.50	ND		
Dibromomethane	0.11	0.50	ND		
1,2-Dichloropropane	0.089	0.50	ND		
Bromodichloromethane	0.076	0.50	ND		
cis-1,3-Dichloropropene	0.078	0.50	ND		
Toluene	0.14	0.50	ND		
Tetrachloroethylene	0.24	0.50	ND		
trans-1,3-Dichloropropene	0.22	0.50	ND		
1,1,2-Trichloroethane	0.076	0.50	ND		
Dibromochloromethane	0.18	0.50	ND		
1,3-Dichloropropane	0.22	0.50	ND		
1,2-Dibromoethane	0.079	0.50	ND		
Chlorobenzene	0.16	0.50	ND		
Ethyl Benzene	0.20	0.50	ND		
1,1,1,2-Tetrachloroethane	0.087	0.50	ND		
m,p-Xylene	0.39	1.0	ND		
o-Xylene	0.15	0.50	ND		

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2-Chlorotoluene

(S) Dibromofluoromethane

(S) Toluene-d8

0.25

0.50

ND

113

93.5

# **MB Summary Report**

Work Order:	k Order: 1812089		Prep Method:		Prep	Date:	12/13/18	Prep Batch:	1109856
Matrix:	Water	,		SW8260B	Anal	yzed Date:	12/13/2018	Analytical	436180
Units:	ug/L	Metho	od:					Batch:	
Parameters		MDL	PQL	Method Blank Conc.	Lab Qualifier				
Styrene		0.11	0.50	ND					
Bromoform		0.076	0.50	ND					
Isopropyl Benzene	e	0.22	0.50	ND					
n-Propylbenzene		0.30 0.50 ND		ND					
Bromobenzene		0.15	0.50	ND					
1,1,2,2-Tetrachlor	oethane	0.079 0.50 ND							

1,3,5-Trimethylbenzene	0.24	0.50	ND
1,2,3-Trichloropropane	0.15	0.50	ND
4-Chlorotoluene	0.22	0.50	ND
tert-Butylbenzene	0.26	0.50	ND
1,2,4-Trimethylbenzene	0.23	0.50	ND
sec-Butyl Benzene	0.30	0.50	ND
p-Isopropyltoluene	0.27	0.50	ND
1,3-Dichlorobenzene	0.17	0.50	ND
1,4-Dichlorobenzene	0.18	0.50	ND
n-Butylbenzene	0.27	0.50	ND
1,2-Dichlorobenzene	0.16	0.50	ND
1,2-Dibromo-3-Chloropropane	0.76	2.0	ND
Hexachlorobutadiene	0.62	2.0	ND
1,2,4-Trichlorobenzene	0.93	2.0	ND
Naphthalene	1.2	2.0	ND
1,2,3-Trichlorobenzene	1.2	2.0	ND

(S) 4-Bromotiuoro	obenzene		100				
Work Order:	1812089	Prep Method:	5030GRO	Prep Date:	12/13/18	Prep Batch:	1109859
Matrix:	Water	Analytical	SW8260B	Analyzed Date:	12/13/2018	Analytical	436180
Units:	ug/L	Method:				Batch:	

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Units:

mg/L

## LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order: 1812089 Prep Method: 3510\_TPH 12/13/18 Prep Batch: 1109843 Prep Date: Matrix: Water Analytical 12/14/2018 Analytical SW8015B **Analyzed Date:** 436190 Method: Batch: Units: mg/Kg

Method LCS % LCSD % LCS/LCSD % **Spike Parameters** MDL **PQL Blank** Conc. Recovery Recovery % RPD Recovery % RPD Lab Limits Qualifier Conc. Limits TPH as Diesel 0.037 52 - 115 0.10 ND 1.0 90.1 96.7 7.07 30 59 - 129 Pentacosane (S) 200 99.2 110

Work Order: 1812089 Prep Method: 3010B Prep Date: 12/14/18 Prep Batch: 1109849

Matrix: Water Analytical SW6010B **Analyzed Date:** 12/14/2018 Analytical 436187 Method: Batch: Units: mg/L

LCSD % LCS/LCSD Method Spike LCS % PQL MDL **Parameters Blank** Conc. Recovery Recovery % RPD Recovery % RPD Lab Limits Qualifier Conc. Limits Antimony (Dissolved) 0.0050 0.010 ND 1.0 100 105 4.88 80 - 120 20 Arsenic (Dissolved) 0.0040 0.010 ND 1.0 102 107 4.78 80 - 120 20 Barium (Dissolved) 0.00050 0.0050 0.000500 1.0 99.3 103 3.66 80 - 120 20 80 - 120 Beryllium (Dissolved) 0.0050 0.000300 1.0 101 106 4.83 20 0.00020 Cadmium (Dissolved) 0.0020 0.0050 ND 1.0 101 106 4.83 80 - 120 20 Chromium (Dissolved) ND 99.2 103 3.76 80 - 120 20 0.00090 0.0050 1.0 Cobalt (Dissolved) ND 98.0 101 20 0.00050 0.0050 1.0 3.02 80 - 120 Copper (Dissolved) 0.0050 ND 98.9 102 3.09 80 - 120 20 0.0020 1.0 80 - 120 100 104 20 Lead (Dissolved) 0.0040 0.010 ND 1.0 3.92 Molybdenum (Dissolved) 99.4 0.0020 0.010 ND 1.0 103 3.56 80 - 120 20 Nickel (Dissolved) 0.0050 99.9 103 80 - 120 0.0020 ND 1.0 3.06 20 Selenium (Dissolved) 0.0073 0.010 ND 1.0 105 111 5.56 80 - 120 20 Silver (Dissolved) 0.0040 0.010 ND 1.0 99.7 103 3.26 80 - 120 20 Thallium (Dissolved) 0.0040 0.015 ND 1.0 97.0 98.0 1.03 80 - 120 20 Vanadium (Dissolved) 0.0010 0.0050 ND 96.4 99.0 2.66 80 - 120 20 1.0 Zinc (Dissolved) 0.0020 0.0050 ND 1.0 101 106 4.83 80 - 120 20

Work Order: 1812089 Prep Method: 7470AP 12/13/18 Prep Batch: 1109854 Prep Date: Matrix: Water Analytical SW7470A **Analyzed Date:** 12/14/2018 **Analytical** 436197 Method: Batch:

LCS % LCSD % LCS/LCSD Method % Spike **Parameters** MDL PQL Blank % RPD Recovery % RPD Conc. Recovery Recovery Lab Conc. Limits Limits Qualifier Mercury (Dissolved) 0.00013 0.00020 ND 0.015 103 105 80 - 120 20 1.92

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# **LCS/LCSD Summary Report**

Raw values are used in quality control assessment.

Work Order: Prep Method: 5030VOC 12/13/18 Prep Batch: 1109856 1812089 Prep Date: Matrix: Water Analytical SW8260B Analyzed Date: 12/13/2018 Analytical 436180 Method: Batch: Units: ug/L

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.14	0.50	ND	17.9	103	96.2	6.74	61.4 - 129	30	
Benzene	0.16	0.50	ND	17.9	106	100	5.43	66.9 - 140	30	
Trichloroethylene	0.15	0.50	ND	17.9	107	98.7	8.17	69.3 - 144	30	
Toluene	0.14	0.50	ND	17.9	110	108	2.06	76.6 - 123	30	
Chlorobenzene	0.16	0.50	ND	17.9	105	102	3.24	73.9 - 137	30	
(S) Dibromofluoromethane				17.9	113	111		61.2 - 131		
(S) Toluene-d8				17.9	104	102		75.1 - 127		
(S) 4-Bromofluorobenzene				17.9	107	104		64.1 - 120		

Work Order: 1812089 5030GRO 12/13/18 Prep Batch: 1109859 Prep Method: Prep Date: Matrix: Water Analytical SW8260B **Analyzed Date:** 12/13/2018 Analytical 436180 Method: Batch: Units: ug/L

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	29	50	35	238	91.4	89.6	2.32	52.4 - 127	30	
(S) 4-Bromofluorobenzene				11.9	89.4	106		41.5 - 125		

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# Laboratory Qualifiers and Definitions

#### **DEFINITIONS:**

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.

**Blank (Method/Preparation Blank)** -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.

**Duplicate** - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)

Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.

Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)

Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.

Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero

Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.

Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates

Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis

**Tentatively Identified Compound (TIC)** - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.

**Units:** the unit of measure used to express the reported result - **mg/L** and **mg/Kg** (equivalent to PPM - parts per million in **liquid** and **solid**), **ug/L** and **ug/Kg** (equivalent to PPB - parts per billion in **liquid** and **solid**), **ug/m3**, **mg/m3**, **ppbv** and **ppmv** (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

#### LABORATORY QUALIFIERS:

- B Indicates when the analyte is found in the associated method or preparation blank
- D Surrogate is not recoverable due to the necessary dilution of the sample
- E Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
- H- Indicates that the recommended holding time for the analyte or compound has been exceeded
- J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
- NA Not Analyzed
- N/A Not Applicable
- ND Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
- NR Not recoverable a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
- R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
- S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
- **X** -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

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# Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Date and Time Received: 12/13/2018 2:50:00PM

Project Name: 354-358 Royal Ave Received By: Helena Ueng

Work Order No.: 1812089 Physically Logged By: Helena Ueng

Checklist Completed By: Helena Ueng

Carrier Name: Client Drop Off

#### **Chain of Custody (COC) Information**

Chain of custody present? Yes

Chain of custody signed when relinquished and received? Yes

Chain of custody agrees with sample labels? Yes

Custody seals intact on sample bottles? <u>Not Present</u>

#### **Sample Receipt Information**

Custody seals intact on shipping container/cooler?

Not Present

Shipping Container/Cooler In Good Condition? <u>Yes</u>

Samples in proper container/bottle? <u>Yes</u>

Samples containers intact? <u>Yes</u>

Sufficient sample volume for indicated test? Yes

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes

Container/Temp Blank temperature in compliance? <u>Yes</u> Temperature: 3.0 °C

Water-VOA vials have zero headspace? Yes

Water-pH acceptable upon receipt?

pH Checked by: Helena Ueng pH Adjusted by: Helena Ueng

#### **Comments:**

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# **Login Summary Report**

Client ID: Engeo (San Ramon) QC Level: TL5123 Ш

**Project Name: TAT Requested:** 1 Day Rush:1 354-358 Royal Ave

Date Received: 12/13/2018 Project #: 14121.001.000

**Report Due Date:** 12/14/2018 Time Received: 2:50 pm

Comments:

Analyze for dissolved metals per client e-mail 12/13

Work Order #: 1812089

WO Sample ID	<u>Client</u> Sample ID	Collection Date/Tir		<u>Matrix</u>	Scheduled Disposal	Sample On Hold	<u>Test</u> On Hold	Requested Tests	Subbed
1812089-001A	GW-1	12/13/18 9:	):15	Water	01/27/19			VOC_W_8260B VOC_W_GRO	
Sample Note:	*1-DAY RUSH! VOCs/TPH	g							
1812089-001B	GW-1	12/13/18 9	):15	Water	01/27/19			TPHDO_W_8015B(M)	
Sample Note:	*1-DAY RUSH! TPHd/mo								
1812089-001C	GW-1	12/13/18 9:	):15	Water	01/27/19			Hg_W_7470ADis Met_6010BDiss CAM17	
Sample Note:	*1-DAY RUSH! **LAB-FILT	ER & Preserve	e for D	Dissolved Ca	AM17 metals				
1812089-002A	GW-2	12/13/18 10	0:15	Water	01/27/19			VOC_W_8260B VOC_W_GRO	
1812089-002B	GW-2	12/13/18 10	0:15	Water	01/27/19				
1812089-002C	GW-2	12/13/18 10	0:15	Water	01/27/19			TPHDO_W_8015B(M) Hg_W_7470ADis Met_6010BDiss	

CAM17

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Engeo (San Ramon) 2010 Crow Canyon Place,#250 San Ramon, California 94583 Tel: (925) 866-9000

Fax: (925) 866-0199 RE: 354-358 Royal Ave

Work Order No.: 1812090

## Dear Divya Bhargava:

Torrent Laboratory, Inc. received 3 sample(s) on December 13, 2018 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Patti L Sandrock

**QA** Officer

December 14, 2018

Date

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**Date:** 12/14/2018

Client: Engeo (San Ramon)
Project: 354-358 Royal Ave
Work Order: 1812090

## **CASE NARRATIVE**

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

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Total Page Count: 19 Page 2 of 19

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1,3,5-Trimethylbenzene

1,2,4-Trimethylbenzene

Naphthalene

**TPH-Gasoline** 

SG-1

# **Sample Result Summary**

Report prepared for: Divya Bhargava Date Received: 12/13/18

Engeo (San Ramon) Date Reported: 12/14/18

1812090-001

00-1					1012	.000-001
Parameters:	<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	<u>PQL</u>	Results ug/m3	
Carbon Disulfide	ETO15	5	1.9	7.8	10	
Acetone	ETO15	5	2.0	60	190	
Hexane	ETO15	5	2.3	8.8	34	
2-Butanone (MEK)	ETO15	5	1.9	7.4	64	
Benzene	ETO15	5	2.2	8.0	13	
Toluene	ETO15	5	3.8	9.4	130	
Ethyl Benzene	ETO15	5	3.1	11	140	
m,p-Xylene	ETO15	5	4.9	11	590	
o-Xylene	ETO15	5	1.5	11	230	
1,2,4-Trimethylbenzene	ETO15	5	3.0	12	15	
TPH-Gasoline	TO-15	5	200	880	10200	
SG-2					1812	090-002
Parameters:	<u>Analysis</u> <u>Method</u>	DF	MDL	<u>PQL</u>	Results ug/m3	
Ethyl Benzene	ETO15	1000	630	2200	30000	
m,p-Xylene	ETO15	1000	980	2200	150000	
o-Xylene	ETO15	1000	300	2200	54000	
TPH-Gasoline	TO-15	400	16000	70000	1170000	
SG-3					1812	090-003
Parameters:	<u>Analysis</u> <u>Method</u>	DF	MDL	<u>PQL</u>	Results ug/m3	
Carbon Disulfide	ETO15	3.5	1.3	5.4	22	
Acetone	ETO15	3.5	1.4	42	170	
Hexane	ETO15	3.5	1.6	6.2	36	
MTBE	ETO15	3.5	1.6	6.3	12	
2-Butanone (MEK)	ETO15	3.5	1.4	5.2	63	
Benzene	ETO15	3.5	1.5	5.6	22	
Toluene	ETO15	3.5	2.6	6.6	130	
Ethyl Benzene	ETO15	3.5	2.2	7.6	63	
m,p-Xylene	ETO15	3.5	3.4	7.6	310	
o-Xylene	ETO15	3.5	1.1	7.6	120	

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ETO15

ETO15

TO-15

ETO15

3.5

3.5

3.5

1.1

2.1

140

3.5 4.5

8.6

8.6

9.2

620

9.8

17

53

9980



Report prepared for: Divya Bhargava Date/Time Received: 12/13/18, 2:50 pm

Engeo (San Ramon) Date Reported: 12/14/18

1812090-001A

Soil Vapor

Lab Sample ID:

Sample Matrix:

Client Sample ID: SG-1

**Project Name/Location:** 354-358 Royal Ave

**Project Number:** 14121.001.000

Date/Time Sampled: 12/13/18 / 13:45 Certified Clean WO #:

Canister/Tube ID: A11723 Received PSI: 10.5

Collection Volume (L): Corrected PSI:

SDG:

 Prep Method:
 TO15-P

 Prep Batch Date/Time:
 12/13/18
 3:00:00PM

Prep Batch ID: 1109860 Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	Ву	Analytical Batch
										-	
Dichlorodifluoromethane	ETO15	5.00	7.8	12	ND	ND		12/13/18	22:34	BA	436183
1,1-Difluoroethane	ETO15	5.00	1.7	68	ND	ND		12/13/18	22:34	BA	436183
1,2-Dichlorotetrafluoroethane	ETO15	5.00	140	280	ND	ND		12/13/18	22:34	BA	436183
Chloromethane	ETO15	5.00	10	21	ND	ND		12/13/18	22:34	BA	436183
Vinyl Chloride	ETO15	5.00	1.1	6.4	ND	ND		12/13/18	22:34	BA	436183
1,3-Butadiene	ETO15	5.00	1.7	5.5	ND	ND		12/13/18	22:34	BA	436183
Bromomethane	ETO15	5.00	3.3	9.7	ND	ND		12/13/18	22:34	BA	436183
Chloroethane	ETO15	5.00	4.1	6.6	ND	ND		12/13/18	22:34	BA	436183
Trichlorofluoromethane	ETO15	5.00	2.8	14	ND	ND		12/13/18	22:34	BA	436183
1,1-Dichloroethene	ETO15	5.00	4.1	9.9	ND	ND		12/13/18	22:34	BA	436183
Freon 113	ETO15	5.00	5.1	19	ND	ND		12/13/18	22:34	BA	436183
Carbon Disulfide	ETO15	5.00	1.9	7.8	10	3.22		12/13/18	22:34	BA	436183
2-Propanol (Isopropyl Alcohol)	ETO15	5.00	6.4	62	ND	ND		12/13/18	22:34	BA	436183
Methylene Chloride	ETO15	5.00	3.5	52	ND	ND		12/13/18	22:34	BA	436183
Acetone	ETO15	5.00	2.0	60	190	79.83		12/13/18	22:34	BA	436183
trans-1,2-Dichloroethene	ETO15	5.00	2.4	9.9	ND	ND		12/13/18	22:34	BA	436183
Hexane	ETO15	5.00	2.3	8.8	34	9.66		12/13/18	22:34	BA	436183
MTBE	ETO15	5.00	2.2	9.0	ND	ND		12/13/18	22:34	BA	436183
tert-Butanol	ETO15	5.00	3.1	7.6	ND	ND		12/13/18	22:34	BA	436183
Diisopropyl ether (DIPE)	ETO15	5.00	3.7	10	ND	ND		12/13/18	22:34	BA	436183
1,1-Dichloroethane	ETO15	5.00	2.7	10	ND	ND		12/13/18	22:34	BA	436183
ETBE	ETO15	5.00	1.6	10	ND	ND		12/13/18	22:34	BA	436183
cis-1,2-Dichloroethene	ETO15	5.00	4.2	9.9	ND	ND		12/13/18	22:34	BA	436183
Chloroform	ETO15	5.00	4.8	12	ND	ND		12/13/18	22:34	BA	436183
Vinyl Acetate	ETO15	5.00	3.8	8.8	ND	ND		12/13/18	22:34	BA	436183
Carbon Tetrachloride	ETO15	5.00	5.5	16	ND	ND		12/13/18	22:34	BA	436183
1,1,1-Trichloroethane	ETO15	5.00	4.0	14	ND	ND		12/13/18	22:34	BA	436183
2-Butanone (MEK)	ETO15	5.00	1.9	7.4	64	21.69		12/13/18	22:34	BA	436183
Ethyl Acetate	ETO15	5.00	2.4	9.0	ND	ND		12/13/18	22:34	BA	436183
Tetrahydrofuran	ETO15	5.00	2.2	7.4	ND	ND		12/13/18	22:34	BA	436183
Benzene	ETO15	5.00	2.2	8.0	13	4.08		12/13/18	22:34	BA	436183
TAME	ETO15	5.00	3.4	10	ND	ND		12/13/18	22:34	BA	436183
1,2-Dichloroethane (EDC)	ETO15	5.00	2.1	10	ND	ND		12/13/18	22:34	ВА	436183

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Report prepared for: Divya Bhargava Date/Time Received: 12/13/18, 2:50 pm

Engeo (San Ramon) Date Reported: 12/14/18

Sample Matrix:

1812090-001A

Soil Vapor

Client Sample ID: SG-1 Lab Sample ID:

**Project Name/Location:** 354-358 Royal Ave

Project Number: 14121.001.000

Date/Time Sampled: 12/13/18 / 13:45 Certified Clean WO #:

Canister/Tube ID: A11723 Received PSI: 10.5

Collection Volume (L): Corrected PSI:

SDG:

 Prep Method:
 TO15-P
 Prep Batch Date/Time:
 12/13/18
 3:00:00PM

Prep Batch ID: 1109860 Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q Analyzed	Time	Ву	Analytical Batch
Trichloroethylene	ETO15	5.00	4.0	13	ND	ND	12/13/18	22:34	ВА	436183
1,2-Dichloropropane	ETO15	5.00	3.8	12	ND	ND	12/13/18	22:34	BA	436183
Bromodichloromethane	ETO15	5.00	3.7	17	ND	ND	12/13/18	22:34	BA	436183
1,4-Dioxane	ETO15	5.00	9.0	18	ND	ND	12/13/18	22:34	BA	436183
trans-1,3-Dichloropropene	ETO15	5.00	5.3	11	ND	ND	12/13/18	22:34	BA	436183
Toluene	ETO15	5.00	3.8	9.4	130	34.48	12/13/18	22:34	BA	436183
4-Methyl-2-Pentanone (MIBK)	ETO15	5.00	3.7	10	ND	ND	12/13/18	22:34	BA	436183
cis-1,3-Dichloropropene	ETO15	5.00	2.1	11	ND	ND	12/13/18	22:34	BA	436183
Tetrachloroethylene	ETO15	5.00	7.3	17	ND	ND	12/13/18	22:34	BA	436183
1,1,2-Trichloroethane	ETO15	5.00	2.9	14	ND	ND	12/13/18	22:34	BA	436183
Dibromochloromethane	ETO15	5.00	5.6	21	ND	ND	12/13/18	22:34	BA	436183
1,2-Dibromoethane (EDB)	ETO15	5.00	3.7	19	ND	ND	12/13/18	22:34	BA	436183
2-Hexanone	ETO15	5.00	3.3	10	ND	ND	12/13/18	22:34	BA	436183
Ethyl Benzene	ETO15	5.00	3.1	11	140	32.26	12/13/18	22:34	BA	436183
Chlorobenzene	ETO15	5.00	3.0	12	ND	ND	12/13/18	22:34	BA	436183
1,1,1,2-Tetrachloroethane	ETO15	5.00	4.2	17	ND	ND	12/13/18	22:34	BA	436183
m,p-Xylene	ETO15	5.00	4.9	11	590	135.94	12/13/18	22:34	BA	436183
o-Xylene	ETO15	5.00	1.5	11	230	53.00	12/13/18	22:34	BA	436183
Styrene	ETO15	5.00	2.3	11	ND	ND	12/13/18	22:34	BA	436183
Bromoform	ETO15	5.00	6.5	26	ND	ND	12/13/18	22:34	BA	436183
1,1,2,2-Tetrachloroethane	ETO15	5.00	4.1	17	ND	ND	12/13/18	22:34	BA	436183
4-Ethyl Toluene	ETO15	5.00	2.7	12	ND	ND	12/13/18	22:34	BA	436183
1,3,5-Trimethylbenzene	ETO15	5.00	1.5	12	ND	ND	12/13/18	22:34	BA	436183
1,2,4-Trimethylbenzene	ETO15	5.00	3.0	12	15	3.05	12/13/18	22:34	BA	436183
1,4-Dichlorobenzene	ETO15	5.00	3.7	15	ND	ND	12/13/18	22:34	BA	436183
1,3-Dichlorobenzene	ETO15	5.00	6.7	15	ND	ND	12/13/18	22:34	BA	436183
1,2-Dichlorobenzene	ETO15	5.00	5.3	15	ND	ND	12/13/18	22:34	BA	436183
Hexachlorobutadiene	ETO15	5.00	9.3	27	ND	ND	12/13/18	22:34	BA	436183
1,2,4-Trichlorobenzene	ETO15	5.00	11	19	ND	ND	12/13/18	22:34	BA	436183
Naphthalene	ETO15	5.00	6.4	13	ND	ND	12/13/18	22:34	BA	436183
(S) 4-Bromofluorobenzene	ETO15	5.00	50	150	93 %		12/13/18	22:34	BA	436183

Total Page Count: 19 Page 5 of 19



Report prepared for: Divya Bhargava Date/Time Received: 12/13/18, 2:50 pm

Engeo (San Ramon) Date Reported: 12/14/18

Lab Sample ID:

Sample Matrix:

Certified Clean WO #:

1812090-001A

Soil Vapor

Client Sample ID: SG-1

**Project Name/Location:** 354-358 Royal Ave

**Project Number:** 14121.001.000

Date/Time Sampled: 12/13/18 / 13:45

Canister/Tube ID: A11723 Received PSI: 10.5

Corrected PSI: Collection Volume (L):

SDG:

Prep Method: TO15-GRO 3:00:00PM Prep Batch Date/Time: 12/13/18

Prep Batch ID: 1109863 Prep Analyst: BALI

Analysis MDL PQL Results Results Analytical Parameters: Method ug/m3 ug/m3 ug/m3 ppbv Q Analyzed Time Ву Batch TO-15 12/13/18 22:34 **TPH-Gasoline** 5.00 200 880 10200 2,897.73 ВА 436183

NOTE: x -Although gasoline consituents are present, results are elevated due to the presence of non-gasoline compounds within the C5-C12 Gasoline quantitation range.

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**Report prepared for:** Divya Bhargava **Date/Time Received:** 12/13/18, 2:50 pm

Engeo (San Ramon) Date Reported: 12/14/18

1812090-002A

Client Sample ID: SG-2 Lab Sample ID:

Project Name/Location:354-358 Royal AveSample Matrix:Soil VaporProject Number:14121.001.000

 Project Number:
 14121.001.000

 Date/Time Sampled:
 12/13/18 / 10:30
 Certified Clean WO # :

Canister/Tube ID: A11733 Received PSI: 11.8

Collection Volume (L): Corrected PSI:

SDG:

 Prep Method:
 TO15-P

 Prep Batch Date/Time:
 12/13/18
 3:00:00PM

Prep Batch ID: 1109860 Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	Ву	Analytical Batch
Dichlorodifluoromethane	ETO15	1,000	1600	2500	ND	ND		12/13/18	21:12	ВА	436183
1,1-Difluoroethane	ETO15	1,000	350	14000	ND	ND		12/13/18	21:12	BA	436183
1,2-Dichlorotetrafluoroethane	ETO15	1,000	28000	56000	ND	ND		12/13/18	21:12	BA	436183
Chloromethane	ETO15	1,000	2000	4100	ND	ND		12/13/18	21:12	BA	436183
Vinyl Chloride	ETO15	1,000	230	1300	ND	ND		12/13/18	21:12	BA	436183
1,3-Butadiene	ETO15	1,000	340	1100	ND	ND		12/13/18	21:12	BA	436183
Bromomethane	ETO15	1,000	660	1900	ND	ND		12/13/18	21:12	BA	436183
Chloroethane	ETO15	1,000	810	1300	ND	ND		12/13/18	21:12	BA	436183
Trichlorofluoromethane	ETO15	1,000	560	2800	ND	ND		12/13/18	21:12	BA	436183
1,1-Dichloroethene	ETO15	1,000	830	2000	ND	ND		12/13/18	21:12	BA	436183
Freon 113	ETO15	1,000	1000	3800	ND	ND		12/13/18	21:12	BA	436183
Carbon Disulfide	ETO15	1,000	370	1600	ND	ND		12/13/18	21:12	BA	436183
2-Propanol (Isopropyl Alcohol)	ETO15	1,000	1300	12000	ND	ND		12/13/18	21:12	BA	436183
Methylene Chloride	ETO15	1,000	700	10000	ND	ND		12/13/18	21:12	BA	436183
Acetone	ETO15	1,000	400	12000	ND	ND		12/13/18	21:12	BA	436183
trans-1,2-Dichloroethene	ETO15	1,000	480	2000	ND	ND		12/13/18	21:12	BA	436183
Hexane	ETO15	1,000	460	1800	ND	ND		12/13/18	21:12	BA	436183
MTBE	ETO15	1,000	440	1800	ND	ND		12/13/18	21:12	BA	436183
tert-Butanol	ETO15	1,000	620	1500	ND	ND		12/13/18	21:12	BA	436183
Diisopropyl ether (DIPE)	ETO15	1,000	740	2100	ND	ND		12/13/18	21:12	BA	436183
1,1-Dichloroethane	ETO15	1,000	540	2000	ND	ND		12/13/18	21:12	BA	436183
ETBE	ETO15	1,000	330	2100	ND	ND		12/13/18	21:12	BA	436183
cis-1,2-Dichloroethene	ETO15	1,000	830	2000	ND	ND		12/13/18	21:12	BA	436183
Chloroform	ETO15	1,000	970	2400	ND	ND		12/13/18	21:12	BA	436183
Vinyl Acetate	ETO15	1,000	760	1800	ND	ND		12/13/18	21:12	BA	436183
Carbon Tetrachloride	ETO15	1,000	1100	3100	ND	ND		12/13/18	21:12	BA	436183
1,1,1-Trichloroethane	ETO15	1,000	790	2700	ND	ND		12/13/18	21:12	BA	436183
2-Butanone (MEK)	ETO15	1,000	390	1500	ND	ND		12/13/18	21:12	BA	436183
Ethyl Acetate	ETO15	1,000	480	1800	ND	ND		12/13/18	21:12	BA	436183
Tetrahydrofuran	ETO15	1,000	450	1500	ND	ND		12/13/18	21:12	BA	436183
Benzene	ETO15	1,000	440	1600	ND	ND		12/13/18	21:12	BA	436183
TAME	ETO15	1,000	670	2100	ND	ND		12/13/18	21:12	BA	436183
1,2-Dichloroethane (EDC)	ETO15	1,000	420	2000	ND	ND		12/13/18	21:12	BA	436183

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Total Page Count: 19 Page 7 of 19



Report prepared for: Divya Bhargava Date/Time Received: 12/13/18, 2:50 pm

Engeo (San Ramon) Date Reported: 12/14/18

Client Sample ID: SG-2 Lab Sample ID: 1812090-002A

Project Name/Location: 354-358 Royal Ave Sample Matrix: Soil Vapor

 Project Number:
 14121.001.000

 Date/Time Sampled:
 12/13/18 / 10:30

 Certified Clean WO # :

Canister/Tube ID: A11733 Received PSI: 11.8

Collection Volume (L): Corrected PSI:

SDG:

Prep Method: TO15-P Prep Batch Date/Time: 12/13/18 3:00:00PM

Prep Batch ID: 1109860 Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q Analyzed	Time	Ву	Analytical Batch
Trichloroethylene	ETO15	1,000	810	2700	ND	ND	12/13/18	21:12	BA	436183
1,2-Dichloropropane	ETO15	1,000	760	2300	ND	ND	12/13/18	21:12	BA	436183
Bromodichloromethane	ETO15	1,000	740	3400	ND	ND	12/13/18	21:12	BA	436183
1,4-Dioxane	ETO15	1,000	1800	3600	ND	ND	12/13/18	21:12	BA	436183
trans-1,3-Dichloropropene	ETO15	1,000	1100	2300	ND	ND	12/13/18	21:12	BA	436183
Toluene	ETO15	1,000	750	1900	ND	ND	12/13/18	21:12	BA	436183
4-Methyl-2-Pentanone (MIBK)	ETO15	1,000	750	2100	ND	ND	12/13/18	21:12	BA	436183
cis-1,3-Dichloropropene	ETO15	1,000	420	2300	ND	ND	12/13/18	21:12	BA	436183
Tetrachloroethylene	ETO15	1,000	1500	3400	ND	ND	12/13/18	21:12	BA	436183
1,1,2-Trichloroethane	ETO15	1,000	580	2700	ND	ND	12/13/18	21:12	BA	436183
Dibromochloromethane	ETO15	1,000	1100	4300	ND	ND	12/13/18	21:12	BA	436183
1,2-Dibromoethane (EDB)	ETO15	1,000	740	3800	ND	ND	12/13/18	21:12	BA	436183
2-Hexanone	ETO15	1,000	650	2100	ND	ND	12/13/18	21:12	BA	436183
Ethyl Benzene	ETO15	1,000	630	2200	30000	6,912.44	12/13/18	21:12	BA	436183
Chlorobenzene	ETO15	1,000	600	2300	ND	ND	12/13/18	21:12	BA	436183
1,1,1,2-Tetrachloroethane	ETO15	1,000	840	3400	ND	ND	12/13/18	21:12	BA	436183
m,p-Xylene	ETO15	1,000	980	2200	150000	34,562.21	12/13/18	21:12	BA	436183
o-Xylene	ETO15	1,000	300	2200	54000	12,442.40	12/13/18	21:12	BA	436183
Styrene	ETO15	1,000	460	2100	ND	ND	12/13/18	21:12	BA	436183
Bromoform	ETO15	1,000	1300	5200	ND	ND	12/13/18	21:12	BA	436183
1,1,2,2-Tetrachloroethane	ETO15	1,000	820	3400	ND	ND	12/13/18	21:12	BA	436183
4-Ethyl Toluene	ETO15	1,000	550	2500	ND	ND	12/13/18	21:12	BA	436183
1,3,5-Trimethylbenzene	ETO15	1,000	300	2500	ND	ND	12/13/18	21:12	BA	436183
1,2,4-Trimethylbenzene	ETO15	1,000	600	2500	ND	ND	12/13/18	21:12	BA	436183
1,4-Dichlorobenzene	ETO15	1,000	750	3000	ND	ND	12/13/18	21:12	BA	436183
1,3-Dichlorobenzene	ETO15	1,000	1300	3000	ND	ND	12/13/18	21:12	BA	436183
1,2-Dichlorobenzene	ETO15	1,000	1100	3000	ND	ND	12/13/18	21:12	BA	436183
Hexachlorobutadiene	ETO15	1,000	1900	5300	ND	ND	12/13/18	21:12	BA	436183
1,2,4-Trichlorobenzene	ETO15	1,000	2200	3700	ND	ND	12/13/18	21:12	BA	436183
Naphthalene	ETO15	1,000	1300	2600	ND	ND	12/13/18	21:12	BA	436183
(S) 4-Bromofluorobenzene	ETO15	1,000	50	150	96 %		12/13/18	21:12	BA	436183

Total Page Count: 19 Page 8 of 19



Report prepared for: Divya Bhargava Date/Time Received: 12/13/18, 2:50 pm

Engeo (San Ramon) Date Reported: 12/14/18

Lab Sample ID:

Sample Matrix:

Certified Clean WO #:

1812090-002A

Soil Vapor

Client Sample ID: SG-2

**Project Name/Location:** 354-358 Royal Ave

**Project Number:** 14121.001.000

Date/Time Sampled: 12/13/18 / 10:30

Canister/Tube ID: A11733 Received PSI: 11.8

Collection Volume (L): Corrected PSI:

SDG:

 Prep Method:
 TO15-GRO
 Prep Batch Date/Time:
 12/13/18
 3:00:00PM

Prep Batch ID: 1109863 Prep Analyst: BALI

Analysis MDL PQL Results Analytical Results Parameters: Method ug/m3 ug/m3 ug/m3 ppbv Q Analyzed Time Ву Batch TPH-Gasoline TO-15 400.0 16000 70000 1170000 332,386.36 12/13/18 23:15 ВА 436183

**NOTE:** x - Sample chromatogram does not resemble gasoline standard pattern (possible aged gasoline). Reported value is the result of presence of hydrocarbons within range of C5-C12 quantified as Gasoline.

Total Page Count: 19 Page 9 of 19



Report prepared for: Divya Bhargava Date/Time Received: 12/13/18, 2:50 pm

Engeo (San Ramon) Date Reported: 12/14/18

1812090-003A

Soil Vapor

Lab Sample ID:

Sample Matrix:

Client Sample ID: SG-3

**Project Name/Location:** 354-358 Royal Ave

**Project Number:** 14121.001.000

Date/Time Sampled: 12/13/18 / 11:00 Certified Clean WO #:

Canister/Tube ID: A7474 Received PSI: 11.6

Collection Volume (L): Corrected PSI:

SDG:

 Prep Method:
 TO15-P
 Prep Batch Date/Time:
 12/13/18
 3:00:00PM

Prep Batch ID: 1109860 Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	Ву	Analytical Batch
Dichlorodifluoromethane	ETO15	3.50	5.5	8.7	ND	ND	•	12/14/18	8:42	ВА	436183
1,1-Difluoroethane	ETO15	3.50	1.2	47	ND	ND		12/14/18	8:42	BA	436183
1,2-Dichlorotetrafluoroethane	ETO15	3.50	99	200	ND	ND		12/14/18	8:42	BA	436183
Chloromethane	ETO15	3.50	7.2	14	ND	ND		12/14/18	8:42	BA	436183
Vinyl Chloride	ETO15	3.50	0.79	4.5	ND	ND		12/14/18	8:42	BA	436183
1,3-Butadiene	ETO15	3.50	1.2	3.9	ND	ND		12/14/18	8:42	BA	436183
Bromomethane	ETO15	3.50	2.3	6.8	ND	ND		12/14/18	8:42	BA	436183
Chloroethane	ETO15	3.50	2.8	4.6	ND	ND		12/14/18	8:42	BA	436183
Trichlorofluoromethane	ETO15	3.50	1.9	9.8	ND	ND		12/14/18	8:42	BA	436183
1,1-Dichloroethene	ETO15	3.50	2.9	6.9	ND	ND		12/14/18	8:42	BA	436183
Freon 113	ETO15	3.50	3.6	13	ND	ND		12/14/18	8:42	BA	436183
Carbon Disulfide	ETO15	3.50	1.3	5.4	22	7.07		12/14/18	8:42	BA	436183
2-Propanol (Isopropyl Alcohol)	ETO15	3.50	4.5	43	ND	ND		12/14/18	8:42	BA	436183
Methylene Chloride	ETO15	3.50	2.5	36	ND	ND		12/14/18	8:42	BA	436183
Acetone	ETO15	3.50	1.4	42	170	71.43		12/14/18	8:42	BA	436183
trans-1,2-Dichloroethene	ETO15	3.50	1.7	6.9	ND	ND		12/14/18	8:42	BA	436183
Hexane	ETO15	3.50	1.6	6.2	36	10.23		12/14/18	8:42	BA	436183
MTBE	ETO15	3.50	1.6	6.3	12	3.32		12/14/18	8:42	BA	436183
tert-Butanol	ETO15	3.50	2.2	5.3	ND	ND		12/14/18	8:42	BA	436183
Diisopropyl ether (DIPE)	ETO15	3.50	2.6	7.3	ND	ND		12/14/18	8:42	BA	436183
1,1-Dichloroethane	ETO15	3.50	1.9	7.1	ND	ND		12/14/18	8:42	BA	436183
ETBE	ETO15	3.50	1.1	7.3	ND	ND		12/14/18	8:42	BA	436183
cis-1,2-Dichloroethene	ETO15	3.50	2.9	6.9	ND	ND		12/14/18	8:42	BA	436183
Chloroform	ETO15	3.50	3.4	8.5	ND	ND		12/14/18	8:42	BA	436183
Vinyl Acetate	ETO15	3.50	2.6	6.2	ND	ND		12/14/18	8:42	BA	436183
Carbon Tetrachloride	ETO15	3.50	3.9	11	ND	ND		12/14/18	8:42	BA	436183
1,1,1-Trichloroethane	ETO15	3.50	2.8	9.6	ND	ND		12/14/18	8:42	BA	436183
2-Butanone (MEK)	ETO15	3.50	1.4	5.2	63	21.36		12/14/18	8:42	BA	436183
Ethyl Acetate	ETO15	3.50	1.7	6.3	ND	ND		12/14/18	8:42	BA	436183
Tetrahydrofuran	ETO15	3.50	1.6	5.2	ND	ND		12/14/18	8:42	BA	436183
Benzene	ETO15	3.50	1.5	5.6	22	6.90		12/14/18	8:42	BA	436183
TAME	ETO15	3.50	2.4	7.3	ND	ND		12/14/18	8:42	BA	436183
1,2-Dichloroethane (EDC)	ETO15	3.50	1.5	7.1	ND	ND		12/14/18	8:42	BA	436183

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Report prepared for: Divya Bhargava Date/Time Received: 12/13/18, 2:50 pm

Engeo (San Ramon) Date Reported: 12/14/18

Client Sample ID: SG-3 Lab Sample ID: 1812090-003A

Project Name/Location:354-358 Royal AveSample Matrix:Soil VaporProject Number:14121.001.000

Date/Time Sampled: 12/13/18 / 11:00 Certified Clean WO #:

Canister/Tube ID: A7474 Received PSI: 11.6

Collection Volume (L): Corrected PSI:

SDG:

 Prep Method:
 TO15-P

 Prep Batch Date/Time:
 12/13/18
 3:00:00PM

Prep Batch ID: 1109860 Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q Analyzed	Time	Ву	Analytical Batch
Trichloroethylene	ETO15	3.50	2.8	9.4	ND	ND	12/14/18	8:42	ВА	436183
1,2-Dichloropropane	ETO15	3.50	2.7	8.1	ND	ND	12/14/18	8:42	BA	436183
Bromodichloromethane	ETO15	3.50	2.6	12	ND	ND	12/14/18	8:42	BA	436183
1,4-Dioxane	ETO15	3.50	6.3	13	ND	ND	12/14/18	8:42	BA	436183
trans-1,3-Dichloropropene	ETO15	3.50	3.7	7.9	ND	ND	12/14/18	8:42	BA	436183
Toluene	ETO15	3.50	2.6	6.6	130	34.48	12/14/18	8:42	BA	436183
4-Methyl-2-Pentanone (MIBK)	ETO15	3.50	2.6	7.2	ND	ND	12/14/18	8:42	BA	436183
cis-1,3-Dichloropropene	ETO15	3.50	1.5	7.9	ND	ND	12/14/18	8:42	BA	436183
Tetrachloroethylene	ETO15	3.50	5.1	12	ND	ND	12/14/18	8:42	BA	436183
1,1,2-Trichloroethane	ETO15	3.50	2.0	9.6	ND	ND	12/14/18	8:42	BA	436183
Dibromochloromethane	ETO15	3.50	3.9	15	ND	ND	12/14/18	8:42	BA	436183
1,2-Dibromoethane (EDB)	ETO15	3.50	2.6	13	ND	ND	12/14/18	8:42	BA	436183
2-Hexanone	ETO15	3.50	2.3	7.2	ND	ND	12/14/18	8:42	BA	436183
Ethyl Benzene	ETO15	3.50	2.2	7.6	63	14.52	12/14/18	8:42	BA	436183
Chlorobenzene	ETO15	3.50	2.1	8.1	ND	ND	12/14/18	8:42	BA	436183
1,1,1,2-Tetrachloroethane	ETO15	3.50	2.9	12	ND	ND	12/14/18	8:42	BA	436183
m,p-Xylene	ETO15	3.50	3.4	7.6	310	71.43	12/14/18	8:42	BA	436183
o-Xylene	ETO15	3.50	1.1	7.6	120	27.65	12/14/18	8:42	BA	436183
Styrene	ETO15	3.50	1.6	7.5	ND	ND	12/14/18	8:42	BA	436183
Bromoform	ETO15	3.50	4.6	18	ND	ND	12/14/18	8:42	BA	436183
1,1,2,2-Tetrachloroethane	ETO15	3.50	2.9	12	ND	ND	12/14/18	8:42	BA	436183
4-Ethyl Toluene	ETO15	3.50	1.9	8.6	ND	ND	12/14/18	8:42	BA	436183
1,3,5-Trimethylbenzene	ETO15	3.50	1.1	8.6	9.8	1.99	12/14/18	8:42	BA	436183
1,2,4-Trimethylbenzene	ETO15	3.50	2.1	8.6	17	3.46	12/14/18	8:42	BA	436183
1,4-Dichlorobenzene	ETO15	3.50	2.6	11	ND	ND	12/14/18	8:42	BA	436183
1,3-Dichlorobenzene	ETO15	3.50	4.7	11	ND	ND	12/14/18	8:42	BA	436183
1,2-Dichlorobenzene	ETO15	3.50	3.7	11	ND	ND	12/14/18	8:42	BA	436183
Hexachlorobutadiene	ETO15	3.50	6.5	19	ND	ND	12/14/18	8:42	BA	436183
1,2,4-Trichlorobenzene	ETO15	3.50	7.5	13	ND	ND	12/14/18	8:42	BA	436183
Naphthalene	ETO15	3.50	4.5	9.2	53	10.11	12/14/18	8:42	BA	436183
(S) 4-Bromofluorobenzene	ETO15	3.50	50	150	91 %		12/14/18	8:42	BA	436183

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Report prepared for: Divya Bhargava Date/Time Received: 12/13/18, 2:50 pm

Engeo (San Ramon) Date Reported: 12/14/18

> Lab Sample ID: Sample Matrix:

1812090-003A

Soil Vapor

Client Sample ID: SG-3

**Project Name/Location:** 354-358 Royal Ave

**Project Number:** 14121.001.000

Date/Time Sampled: 12/13/18 / 11:00 Certified Clean WO #:

A7474 Canister/Tube ID: Received PSI: 11.6

Corrected PSI: Collection Volume (L):

SDG:

Prep Method: TO15-GRO 3:00:00PM Prep Batch Date/Time: 12/13/18

Prep Batch ID: 1109863 Prep Analyst: BALI

Analysis MDL PQL Results Results Analytical Parameters: Method ug/m3 ug/m3 ug/m3 ppbv Q Analyzed Time Ву Batch TO-15 12/14/18 8:42 **TPH-Gasoline** 3.50 140 620 9980 2,835.23 ВА 436183

NOTE: x -Although gasoline consituents are present, results are elevated due to the presence of non-gasoline compounds within the C5-C12 Gasoline quantitation range.

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# **MB Summary Report**

Work Order: 1812090 Prep Method: TO15-P Prep Date: 12/13/18 Prep Batch: 1109860 Matrix: Air Analytical Method: ETO15 Analyzed Date: 12/13/2018 Analytical Batch: 436183 Units: ppbv

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.32	0.50	ND	•	
1,1-Difluoroethane	0.13	5.0	ND		
1,2-Dichlorotetrafluoroethane	4.0	8.0	ND		
Chloromethane	0.99	2.0	ND		
Vinyl Chloride	0.088	0.50	ND		
1,3-Butadiene	0.15	0.50	ND		
Bromomethane	0.17	0.50	ND		
Chloroethane	0.31	0.50	ND		
Trichlorofluoromethane	0.099	0.50	ND		
1,1-Dichloroethene	0.21	0.50	ND		
Freon 113	0.13	0.50	ND		
Carbon Disulfide	0.12	0.50	ND		
2-Propanol (Isopropyl Alcohol)	0.52	5.0	ND		
Methylene Chloride	0.20	3.0	ND		
Acetone	0.17	5.0	ND		
trans-1,2-Dichloroethene	0.12	0.50	ND		
Hexane	0.13	0.50	ND		
MTBE	0.12	0.50	ND		
tert-Butanol	0.20	0.50	ND		
Diisopropyl ether (DIPE)	0.18	0.50	ND		
1,1-Dichloroethane	0.13	0.50	ND		
ETBE	0.078	0.50	ND		
cis-1,2-Dichloroethene	0.21	0.50	ND		
Chloroform	0.20	0.50	ND		
Vinyl Acetate	0.22	0.50	ND		
Carbon Tetrachloride	0.18	0.50	ND		
1,1,1-Trichloroethane	0.15	0.50	ND		
2-Butanone (MEK)	0.13	0.50	ND		
Ethyl Acetate	0.13	0.50	ND		
Tetrahydrofuran	0.15	0.50	ND		
Benzene	0.14	0.50	ND		
TAME	0.16	0.50	ND		
1,2-Dichloroethane (EDC)	0.10	0.50	ND		
Trichloroethylene	0.15	0.50	ND		
1,2-Dichloropropane	0.17	0.50	ND		
Bromodichloromethane	0.11	0.50	ND		
1,4-Dioxane	0.50	1.0	ND		
trans-1,3-Dichloropropene	0.23	0.50	ND		
Toluene	0.20	0.50	ND		
4-Methyl-2-Pentanone (MIBK)	0.18	0.50	ND		
cis-1,3-Dichloropropene	0.093	0.50	ND		
Tetrachloroethylene	0.22	0.50	ND		

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# **MB Summary Report**

Work Order:	1812090	Prep Method:	TO15-P	Prep Date:	12/13/18	Prep Batch:	1109860
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	12/13/2018	Analytical Batch:	436183
Units:	ppbv	wethou.				Daten.	

Parameters		MDL	PQL	Method Blank Conc.	Lab Qualifier				
1,1,2-Trichloroethane		0.11	0.50	ND	·				
Dibromochloromethan	е	0.13	0.50	ND					
1,2-Dibromoethane (E	DB)	0.096	0.50	ND					
2-Hexanone		0.16	0.50	ND					
Ethyl Benzene		0.15	0.50	ND					
Chlorobenzene		0.13	0.50	ND					
1,1,1,2-Tetrachloroeth	ane	0.12	0.50	ND					
m,p-Xylene		0.23	0.50	ND					
o-Xylene		0.070	0.50	0.12					
Styrene		0.11	0.50	ND					
Bromoform		0.13	0.50	ND					
1,1,2,2-Tetrachloroeth	ane	0.12	0.50	ND					
4-Ethyl Toluene		0.11	0.50	ND					
1,3,5-Trimethylbenzen	е	0.061	0.50	ND					
1,2,4-Trimethylbenzen	е	0.12	0.50	ND					
1,4-Dichlorobenzene		0.12	0.50	ND					
1,3-Dichlorobenzene		0.22	0.50	ND					
1,2-Dichlorobenzene		0.18	0.50	ND					
Hexachlorobutadiene		0.17	0.50	ND					
1,2,4-Trichlorobenzen	Э	0.29	0.50	ND					
Naphthalene		0.24	0.50	ND					
(S) 4-Bromofluorobenz	zene			89					
Work Order:	1812090	Prep	Method:	TO15-GRO	Prep Date	<b>e</b> :	12/13/18	Prep Batch:	1109863
Matrix:	Air	Analy		ETO15	Analyzed	Date:	12/13/2018	Analytical	436183
Units:	opbv	Metho	od:					Batch:	
				Method	Lab				

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH-Gasoline	11	50	ND		

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# **LCS/LCSD Summary Report**

Raw values are used in quality control assessment.

Work Order:	1812090	Prep Method:	TO15-P	Prep Date:	12/13/18	Prep Batch:	1109860	
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	12/13/2018	Analytical Batch:	436183	
Units:	ppbv	weinoa:				Datuil:		

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.21	0.50	ND	8.00	107	114	6.45	65 - 135	30	
Benzene	0.14	0.50	ND	8.00	91.0	92.7	1.90	65 - 135	30	
Trichloroethylene	0.15	0.50	ND	8.00	94.1	95.6	1.71	65 - 135	30	
Toluene	0.20	0.50	ND	8.00	112	112	0.446	65 - 135	30	
Chlorobenzene	0.13	0.50	ND	8.00	109	114	4.38	65 - 135	30	
(S) 4-Bromofluorobenzene				20.0	101	106		50 - 150		

Work Order:	1812090	Prep Method:	TO15-GRO	Prep Date:	12/13/18	Prep Batch:	1109863
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	12/14/2018	Analytical Batch:	436183
Units:	ppbv	wethou.				Daton.	

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH-Gasoline	11	50	ND	500	84.4	108	24.7	65 - 135	30	

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# Laboratory Qualifiers and Definitions

### **DEFINITIONS:**

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.

**Blank (Method/Preparation Blank)** -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.

**Duplicate** - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)

Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.

Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)

**Matrix Spike (MS/MSD)** - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.

Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero

Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.

Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates

Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis

**Tentatively Identified Compound (TIC)** - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.

**Units:** the unit of measure used to express the reported result - **mg/L** and **mg/Kg** (equivalent to PPM - parts per million in **liquid** and **solid**), **ug/L** and **ug/Kg** (equivalent to PPB - parts per billion in **liquid** and **solid**), **ug/m3**, **mg/m3**, **ppbv** and **ppmv** (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

## LABORATORY QUALIFIERS:

- B Indicates when the analyte is found in the associated method or preparation blank
- D Surrogate is not recoverable due to the necessary dilution of the sample
- E Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
- H- Indicates that the recommended holding time for the analyte or compound has been exceeded
- J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
- NA Not Analyzed
- N/A Not Applicable
- ND Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
- **NR** Not recoverable a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
- R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
- S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
- **X** -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

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# Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Date and Time Received: 12/13/2018 2:50:00PM

Project Name: <u>354-358 Royal Ave</u> Received By: Helena Ueng

Work Order No.: 1812090 Physically Logged By: Helena Ueng

Checklist Completed By: Helena Ueng

Carrier Name: Client Drop Off

## Chain of Custody (COC) Information

Chain of custody present? Yes

Chain of custody signed when relinquished and received? Yes

Chain of custody agrees with sample labels? Yes

Custody seals intact on sample bottles? <u>Not Present</u>

## **Sample Receipt Information**

Custody seals intact on shipping container/cooler?

Not Present

Shipping Container/Cooler In Good Condition? <u>Yes</u>

Samples in proper container/bottle? <u>Yes</u>
Samples containers intact? <u>Yes</u>

Sufficient sample volume for indicated test? Yes

### Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes

Container/Temp Blank temperature in compliance? Temperature: °C

Water-VOA vials have zero headspace? No VOA vials submitted

Water-pH acceptable upon receipt? N/A

pH Checked by: N/A pH Adjusted by: N/A

### **Comments:**

Summa canisters received at ambient temperature.

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# **Login Summary Report**

Client ID: TL5123 Engeo (San Ramon) QC Level: II

 Project Name:
 354-358 Royal Ave
 TAT Requested:
 1 Day Rush:1

 Project #:
 14121.001.000
 Date Received:
 12/13/2018

Comments:

Work Order #: 1812090

WO Sample ID	<u>Client</u> Sample ID	Collection Date/Time	<u>Matrix</u>	Scheduled Disposal	Sample On Hold	<u>Test</u> On Hold	Requested Tests	Subbed
1812090-001A	SG-1	12/13/18 13:45	Air	06/11/19			VOC_A_TO15 VOC_A_TO15GRO	
Sample Note:	*1-DAY RUSH! TO15-VOC	Cs (incl.DFA), TPHg						
1812090-002A	SG-2	12/13/18 10:30	Air					
							VOC_A_TO15	
1812090-003A	SG-3	12/13/18 11:00	Air				VOC_A_TO15GRO	
10.200 000/1		12, 13, 13	. <del></del>				VOC_A_TO15 VOC_A_TO15GRO	

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