

Project No.
14121.001.000

August 21, 2018
Revised October 24, 2018

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

Subject: 580 Lorraine Avenue
San Jose, California

UPDATED PHASE II ENVIRONMENTAL SITE ASSESSMENT

Reference: ENGE, Phase I Environmental Site Assessment, 580 Lorraine Avenue, San Jose, California; Project No. 14121.001.000; April 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 address potential subsurface impairments associated with the past uses of the Property and the potential migration of offsite impact from neighboring sites.

BACKGROUND

The Property is located at 580 Lorraine Avenue in San Jose, California (Figure 1). The approximately 0.6-acre Property is identified with Assessor's Parcel Numbers (APN) 259-47-038, 259-47-040, 259-47-077, and 259-47-079. Additional addresses associated with the Property include 587 and 597 West San Carlos Street.

The Property consists of one large irregularly shaped building, several large storage containers, and paved parking.

Based on the findings of the referenced Phase I ESA, 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:

- A review of historical records found that the property adjacent to the west was used as a gasoline service station and a dry cleaning facility in the past. It is possible that soil gas and groundwater at the Property may be impacted due to the offsite use.
- Given the age of the existing structure, it is conceivable that asbestos-containing materials and lead-based paint materials may exist within the structure.

A phase II environmental site assessment was proposed for the Property, including the recovery of soil, groundwater, and soil gas samples, to address potential subsurface impairments associated with the past uses of the adjacent property to the west and the potential migration of offsite impact from other neighboring sites.

SCOPE OF FIELD EXPLORATION

Initial field sampling activities associated with the phase II ESA were performed on April 5, 2018, and a second round of sampling was conducted on October 17, 2018. Prior to drilling, an ENGEO representative contacted USA North Service Alert for identification of underground utilities at the Property. Subsequently, 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. During the first round of sampling, soil samples were collected from five locations (S-1, S-2, S-5, S-6, and S-7), groundwater samples were collected from two locations (GW-2 and GW-6), and soil gas samples were collected from five locations (SG-1 through SG-4, SG-6), as presented on Figure 2. Soil gas could not be collected from location SG-5. Further, groundwater could not be collected from location GW-7.

The second round of sampling included the collection of soil gas samples from an additional eight locations (SG-7 through SG-14), and the collection of one groundwater sample (GW-8) (Figure 2).

Details pertaining to each of these tasks are presented below.

Task 1: Soil Assessment

A soil sampling study was performed to address potential subsurface impairments associated with the past use of Property.

A total of five soil borings (S-1, S-2, S-5, S-6, and S-7) were advanced at the Property to a total depth of 10 feet below ground surface (Figure 2). Soil samples were retrieved within continuous acetate core liners measuring 5 feet in length. During drilling, a photoionization detector (PID) was used to screen the soil cores.

Soil samples were retrieved from three prescribed depths, 1 foot, 5 feet, and 10 feet below ground surface. Following recovery, the soil samples were sealed using Teflon® sheets secured by tight-fitting plastic end caps and tape. Upon collection, a label was placed on the sample that included a unique sample number, sample location, time/date collected, laboratory analysis, and the sampler's identification. The soil samples were placed in an ice-cooled chest and submitted under documented chain-of-custody to Torrent Laboratory, Inc., a State-certified laboratory in Milpitas, California.

Refusal was encountered at sample location S-5 at approximately 3 feet below ground surface due to a concrete slab, and a sample was collected at 1 foot below ground surface.

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

The boreholes were filled with neat cement grout upon completion of sampling.

Task 2: Grab Groundwater Assessment

Grab groundwater samples were recovered from three of the five sample locations (GW-2, GW-6, and GW-7), as shown on Figure 2. An additional groundwater sample was collected from location

GW-8 in October 2018. The soil borings were advanced at these locations until groundwater was first encountered. Groundwater was encountered at a depth of approximately 20 to 28 feet below the ground surface. Temporary PVC casings were used in each borehole to facilitate 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 representative groundwater sample for laboratory analysis could not be collected from location GW-7 since there was not enough groundwater encountered in this boring, which had been advanced to approximately 30 feet below ground surface. The two grab groundwater samples (GW-2 and GW-6) were analyzed for the presence of TPH-g and VOCs (EPA Method 8260), TPH-d and TPH-mo (EPA Method 8015M with silica gel cleanup), and CAM-17 metals (EPA Method 6010/7471). Grab groundwater sample GW-8 was analyzed for VOCs (EPA Method 8260).

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

Task 3: Soil Gas Assessment

Soil gas samples were proposed to be collected from six locations (SG-1 through SG-6) at the Property (Figure 2). However, at location SG-5, a soil gas sample could not be collected since refusal was encountered at approximately 3 feet below ground surface. Eight additional soil gas samples (SG-7 through SG-14) were collected in October 2018. Boring logs for the samples collected in October 2018 are presented in Appendix A.

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-difluoroethane (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. Five (SG-1 through SG-4 and S-6) soil gas samples were collected and submitted to a State-certified laboratory under documented chain-of-custody for analysis of TPH-g and VOCs, by EPA Test Method TO-15. Eight soil gas samples (SG-7 through SG-14) collected in October 2018 were analyzed for VOCs (EPA Test Method TO-15).

ANALYTICAL RESULTS

Soil

As presented in Table A, detected analytes in soil were compared to their respective San Francisco Regional Water Quality Control Board's (RWQCB) Environmental Screening Levels (ESLs) for direct exposure to shallow soil for both residential and commercial land use^{1,2}.

Review of the laboratory test results found detectable concentrations of several metallic analytes, including arsenic, barium, chromium, cobalt, copper, lead, nickel, selenium, vanadium, and zinc in the soil samples collected from the Property.

Select soil samples exhibited arsenic concentrations in excess of their respective screening levels for both residential and commercial land use. However, the reported arsenic concentrations, ranging between non-detect mg/kg and 8.28 milligrams per kilograms (mg/kg), are consistent with expected background soil concentrations in the San Francisco Bay Area.

Soil sample S-6@1' exhibited a concentration of lead (63.3 mg/kg) below its corresponding commercial and residential ESL. However, because the soil sample exhibited a lead concentration in excess of 50 mg/kg, which is greater than 10 times the respective soluble threshold limit concentration (STLC) of 5 milligrams per liter (mg/L), if removal and offsite transport of soil from this location is contemplated, it is recommended that subsequent analysis be performed using the Waste Extraction Test (WET) to determine the soluble concentration.

All other concentrations of metals were below the corresponding ESLs or within background concentrations.

TPH-d and TPH-mo were detected in the soil samples collected from the Property; however, the detected concentrations are below the corresponding ESLs.

TPH-g, m,p-xylene, o-xylene, and tetrachloroethylene (PCE) were the only VOCs detected in soil at the Property. TPH-g, m,p-xylene, and o-xylene were detected at concentrations below the corresponding ESLs. The PCE concentration in one sample (S2@10') exceeded the corresponding residential ESL of 600 micrograms per kilograms ($\mu\text{g}/\text{kg}$), but was below the

¹ San Francisco Regional Water Quality Control Board (RWQCB), Residential Shallow Soil Exposure Environmental Screening Levels, Table S-1, February 2016, Revision 3.

² San Francisco RWQCB, Commercial/Industrial Shallow Soil Exposure Environmental Screening Levels, Table S-1, February 2016, Revision 3.

corresponding commercial/industrial ESL of 2,700 µg/kg. The PCE concentration in another sample collected from the same location (S2@5') exceeded both the corresponding residential and commercial ESL. Sample location S-2 is located in the southwest portion of the Property (adjacent to the 282 S. Montgomery site).

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

Groundwater

As presented in Table B, the two grab groundwater samples collected from the Property exhibited total metallic analyte concentrations in excess of respective ESL established by the RWQCB³ for the following: antimony, arsenic, barium, beryllium, chromium, cobalt, copper, lead, thallium, nickel, vanadium, and mercury. The groundwater sample analysis reported total metal concentrations, and the reported concentrations appear indicative of naturally occurring concentrations.

TPH-mo was not detected in the groundwater samples. TPH-g was detected at a concentration of 2,110 micrograms per liter (µg/L) in groundwater sample GW-2, which exceeds the corresponding groundwater ESL. TPH-d was detected at a concentration of 0.166 milligrams per liter (mg/L), which exceeds the corresponding groundwater ESL of 0.15 mg/L.

PCE was detected at a concentration of 3,500 µg/L in grab groundwater sample GW-2, exceeding the corresponding ESL. PCE was detected at a concentration of 0.92 µg/L in grab groundwater sample GW-8. No other VOCs were detected in the groundwater samples.

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

Soil Gas

VOCs, including 2-butanone, 2-hexanone, benzene, hexane, acetone, chloroethane, tert-butanol, 4-methyl-2-pentanone, carbon disulfide, ethylbenzene, 1,1,1-trichloroethane, toluene, xylenes, trichloroethylene (TCE), PCE, 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^{4,5}.

With the exception of PCE, concentrations of the VOCs are below the corresponding ESLs.

Reported concentrations of PCE ranged between non-detect to 850,000 micrograms per cubic meter (µg/m³). PCE concentrations at seven sample locations (SG-1 through SG-3, SG-7, SG-10, SG-11, and SG-13) exceed both the corresponding residential and commercial ESLs for vapor intrusion. These samples were generally collected from the southern and western portions of the Property.

³ San Francisco Bay RWQCB, Groundwater Environmental Screening Levels, MCL Priority, Table GW-1, February 2016, Revision 3.

⁴ San Francisco RWQCB, Vapor Intrusion Residential Environmental Screening Levels, Table SG-1, February 2016, Revision 3.

⁵ San Francisco RWQCB, Vapor Intrusion Commercial/Industrial Environmental Screening Levels, Table SG-1, February 2016, Revision 3.

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

DISCUSSION AND CONCLUSION

Review of the laboratory test results found areas of isolated soil impact with select target analytes exceeding the corresponding residential screening levels and/or commercial/industrial screening levels.

The two groundwater samples analyzed for metals exhibited concentrations in excess of the respective ESLs in several metallic analytes; although this appears to be indicative of naturally occurring conditions. The three groundwater samples recovered from the Property also exhibited concentrations in excess of the respective ESLs in one or more of the following: TPH-g, TPH-d, and PCE.

Elevated concentrations of PCE were observed in several soil gas samples collected from the Property. These samples were generally collected from the southern and western portions of the Property and exceed both the residential and commercial/industrial ESLs for vapor intrusion.

The elevated concentrations of PCE in groundwater and soil gas indicates that the Property has likely been impacted by a release from the adjacent 282 S. Montgomery site, although other sources in the vicinity (automotive repair/automotive body shops) cannot be ruled out. Remediation would be required at the Property to reduce the concentrations of PCE in soil gas and groundwater prior to redevelopment.

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

Sincerely,

ENGEO Incorporated



Divya Bhargava, PE
db/jaa/dt

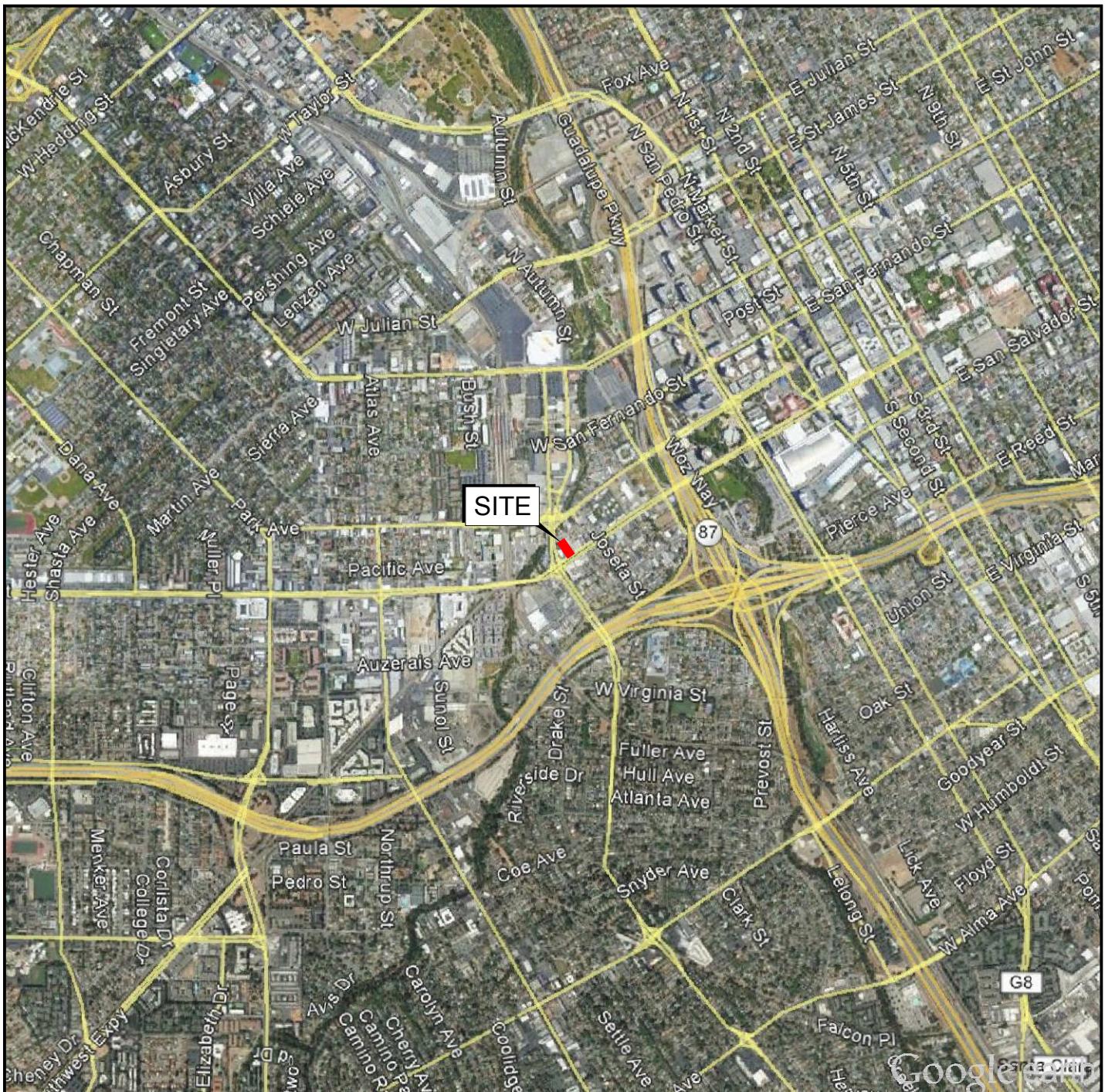


Jeffrey A. Adams, PhD, PE

Attachments: Figures
Tables
Appendix A – Boring Logs
Appendix B – Laboratory Analytical Reports

FIGURES

**Figure 1 – Vicinity Map
Figure 2 – Site Plan**



0 FEET 2000
0 METERS 1000

BASE MAP SOURCE: GOOGLE EARTH MAPPING SERVICE

ENGEO
Expect Excellence

VICINITY MAP
580 LORRAINE AVENUE
SAN JOSE, CALIFORNIA

PROJECT NO.: 14121.001.000

FIGURE NO.

SCALE: AS SHOWN

1

DRAWN BY: DLB

CHECKED BY: JAA



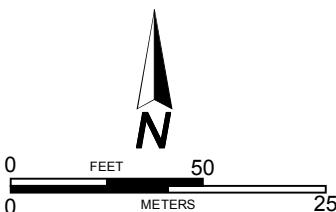
EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- GW-8** ● GROUNDWATER SAMPLE (ENGEO, 2018)
- S-7/GW-7*** ● SOIL AND GROUNDWATER SAMPLE (ENGEO, 2018)
- S-5** ● SOIL SAMPLE (ENGEO, 2018)
- SG-14** ● SOIL GAS SAMPLE (ENGEO, 2018)

* SAMPLE COULD NOT BE COLLECTED

BASE MAP SOURCE: GOOGLE EARTH MAPPING SERVICE



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SITE PLAN

580 LORRAINE AVENUE
SAN JOSE, CALIFORNIA

PROJECT NO.: 14121.001.000

SCALE: AS SHOWN

DRAWN BY: SRP CHECKED BY: JAA

FIGURE NO.

2

TABLES

- Table A – Summary of Soil Analytical Results**
- Table B – Summary of Groundwater Analytical Results**
- Table C – Summary of Soil Gas Analytical Results**

Table A - Summary of Soil Analytical Results

Sample ID	Date	Metals										Petroleum Hydrocarbons			VOCs				
		Arsenic	Barium	Chromium	Cobalt	Copper	Lead	Nickel	Vanadium	Zinc	Other Metals	TPH-g	TPH-d	TPH-mo	m,p-xylene	o-xylene	PCE	Toluene	Other VOCs
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg	mg/kg	mg/kg	mg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
		0.067 ³	1.50E+04	1.20E+05	23	3.10E+03	80	490*	390*	2.30E+04	--	7.40E+05	2.30E+02	1.10E+04	--	--	600	9.70E+05	--
		0.31 ³	2.20E+05	1.80E+06	350	4.70E+04	320	3,100*	1000*	3.50E+05	--	3.90E+06	1.10E+03	1.40E+05	--	--	2700	4.60E+06	--
S1@1'	4/5/2018	4.15	229	31.0	8.93	27.6	9.85	41.9	31.6	47.3	ND	ND	6.58	38.5	ND	ND	19.7	ND	ND
S1@5'	4/5/2018	6.57	164	50.8	11.9	26.2	10.8	73.8	30.7	54.1	ND	ND	9.24	96.3	ND	ND	65.8	12.0	ND
S1@10'	4/5/2018	3.80	114	43.5	10.1	23.2	16.7	59.4	35.4	55.2	ND	ND	11.7	79.8	ND	ND	163	ND	ND
S2@1'	4/5/2018	3.75	122	46.4	9.56	31.0	35.7	69.5	34.3	63.2	ND	ND	6.81	54.9	ND	ND	279	ND	ND
S2@5'	4/5/2018	5.38	142	44.6	10.2	31.0	47.2	74.2	33.2	66.6	ND	3,140	7.09	94.8	ND	ND	3,180	ND	ND
S2@10'	4/5/2018	3.89	93.5	39.8	8.86	19.4	14.7	49.2	34.8	45.2	ND	244	6.57	16.8	ND	ND	1,870	ND	ND
S5@1'	4/5/2018	5.69	123	51.3	8.72	24.5	13.0	57.9	38.1	55.7	ND	ND	4.63	43.2	ND	ND	ND	ND	ND
S6@1'	4/5/2018	8.28	131	41.8	9.96	28.1	63.3	57.9	30.8	86.2	ND	149	5.44	15.6	115	50.6	ND	ND	ND
S6@5'	4/5/2018	ND	155	47.5	7.37	25.1	9.8	48.5	33.2	53.4	ND	ND	3.67	ND	21.1	ND	ND	ND	ND
S6@10'	4/5/2018	6.16	99.7	43.3	10.4	21.3	6.8	49.4	36.7	49.1	ND	ND	4.34	ND	ND	ND	ND	ND	ND
S7@1'	4/5/2018	3.66	180	37.3	10	34	30.1	54.6	32.3	79.0	ND	ND	7.77	27.8	ND	ND	ND	11.3	ND
S7@5'	4/5/2018	3.70	159	45.3	11.1	30.7	22.6	61.2	38.5	79.0	ND	ND	11.5	103	ND	ND	52.9	ND	ND
S7@10'	4/5/2018	7.43	206	45.6	11.3	21.8	6.35	60.4	44.1	45.5	ND	ND	4.24	17.4	ND	ND	20	ND	ND

Notes -

mg/kg - milligrams per kilograms

µg/kg - micrograms per kilogram

NA - not analyzed

ND - not detected

¹ San Francisco Regional Water Quality Control Board (RWQCB), Residential Shallow Soil Exposure Environmental Screening Levels, Table S-1, Rev 3 February 2016.

² San Francisco RWQCB, Commercial/Industrial Shallow Soil Exposure Environmental Screening Levels, Table S-1, Rev 3 February 2016.

³ Although arsenic concentrations exceed the corresponding residential screening levels, concentrations are within expected background concentrations observed in the San Francisco Bay Area.

*DTSC-SLs (August 2017) have been used as the screening level.

200 - Concentration exceeds ESLs for Residential

200 - Concentration exceeds ESLs for both Residential and Commercial

Table B - Summary of Groundwater Analytical Results

Sample ID	Date	Metals													Petroleum Hydrocarbons			VOCs			
		Antimony	Arsenic	Barium	Beryllium	Chromium	Cobalt	Copper	Lead	Thallium	Nickel	Vanadium	Zinc	Mercury	Other Metals	TPH-g	TPH-d	TPH-mo	PCE	Other VOCs	
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μg/L	mg/L	mg/L	mg/L	μg/L	μg/L		
		MCL Priority ESLs¹	0.006	0.01	1	--	0.05	0.006	1	0.015	0.002	0.1	0.05	5	--	--	220	0.15	--	5	--
GW-2	4/5/2018	0.0123	0.293	11.6	0.0359	2.92	0.785	2.33	0.470	0.0310	4.33	2.06	4.16	0.0037	ND	2110	ND	ND	3500	ND	
GW-6	4/5/2018	0.0231	0.342	11.6	0.0463	4.12	1.09	3.18	0.599	ND	6.10	2.66	5.24	0.0071	ND	ND	0.166	ND	ND	ND	ND
GW-8	10/17/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.92	ND	

NA = not analyzed

ND = non-detect

mg/L - milligrams per liter

μg/L - micrograms per liter

¹ San Francisco RWQCB Direct Exposure Human Health Risk Levels - MCL Priority (Table GW-1), revised February 2016 (3rd Revision).

Highlighted concentrations exceed corresponding screening levels.

Table C - Summary of Soil Gas Analytical Results

Sample ID	Date	VOCs																
		2-butanone	2-Hexanone	Benzene	Hexane	Chloroethane	Acetone	tert-butanol	4-Methyl-2-Pentanone	Carbon Disulfide	Ethyl Benzene	1,1,1-Trichloroethane	Toluene	Total Xylenes	TCE	PCE	TPH-Gasoline	Other VOCs
		µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
Residential ESLs ¹	2.60E+06	--	48	--	5.21E+06	1.60E+07	--	--	--	5.60E+02	5.20E+05	1.60E+05	5.20E+04	2.39E+02	240	3.00E+05	--	
Commercial ESLs ²	2.20E+07	--	420	--	4.38E+07	1.40E+08	--	--	--	4.90E+03	4.40E+06	1.30E+06	4.40E+05	2.99E+03	2100	2.50E+06	--	
SG-1	4/5/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	49,000	65,400	ND
SG-2	4/5/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	850,000	862,000	ND
SG-3	4/5/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	120,000	179,000	ND
SG-4	4/5/2018	10	ND	8.3	ND	ND	44	ND	37	25	2.9	ND	16	137	ND	29	1,580	ND
SG-5	4/5/2018	SAMPLE COULD NOT BE COLLECTED																
SG-6	4/5/2018	ND	ND	ND	ND	ND	ND	ND	ND	730	ND	ND	5,400	ND	ND	11,700	ND	
SG-7	10/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	590,000	ND	ND
SG-8	10/17/2018	ND	4.4	10	ND	ND	160	9.1	23	ND	ND	ND	4	10.8	ND	41	ND	ND
SG-9	10/17/2018	ND	ND	ND	ND	ND	86	ND	6.9	ND	ND	ND	ND	ND	ND	230	ND	ND
SG-10	10/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6,400	ND	ND
SG-11	10/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4,100	ND	ND
SG-12	10/17/2018	ND	4.5	21	35	1.3	ND	ND	6.3	7.8	4.7	ND	16	34.1	ND	ND	ND	ND
SG-13	10/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	55	74	3,900	ND	ND
SG-14	10/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	870	ND	ND

Notes:

µg/m³ - micrograms per cubic meter

NA = not analyzed

ND = non-detect

¹ San Francisco RWQCB Table SG-1, Vapor Intrusion Residential Environmental Screening Levels, Rev 3 February 2016.² 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

Boring Logs

14121.001.000
August 21, 2018
Revised October 24, 2018

KEY TO BORING LOGS																		
MAJOR TYPES				DESCRIPTION														
COARSE-GRAINED SOILS MORE THAN HALF OF MATERIAL LARGER THAN #200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE	CLEAN GRAVELS WITH LESS THAN 5% FINES		GW - Well graded gravels or gravel-sand mixtures		GP - Poorly graded gravels or gravel-sand mixtures												
		GRAVELS WITH OVER 12 % FINES		GM - Silty gravels, gravel-sand and silt mixtures		GC - Clayey gravels, gravel-sand and clay mixtures												
	SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE	CLEAN SANDS WITH LESS THAN 5% FINES		SW - Well graded sands, or gravelly sand mixtures		SP - Poorly graded sands or gravelly sand mixtures												
		SANDS WITH OVER 12 % FINES		SM - Silty sand, sand-silt mixtures		SC - Clayey sand, sand-clay mixtures												
FINE-GRAINED SOILS MORE THAN HALF OF MATERIAL SMALLER THAN #200 SIEVE	SILTS AND CLAYS LIQUID LIMIT 50 % OR LESS			ML - Inorganic silt with low to medium plasticity		CL - Inorganic clay with low to medium plasticity												
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50 %			OL - Low plasticity organic silts and clays		MH - Elastic silt with high plasticity												
	HIGHLY ORGANIC SOILS			CH - Fat clay with high plasticity		OH - Highly plastic organic silts and clays												
	PT - Peat and other highly organic soils																	
For fine-grained soils with 15 to 29% retained on the #200 sieve, the words "with sand" or "with gravel" (whichever is predominant) are added to the group name.																		
For fine-grained soil with >30% retained on the #200 sieve, the words "sandy" or "gravelly" (whichever is predominant) are added to the group name.																		
GRAIN SIZES																		
U.S. STANDARD SERIES SIEVE SIZE				CLEAR SQUARE SIEVE OPENINGS														
200	40	10	4	3/4 "	3"	12"												
SILTS AND CLAYS	SAND			GRAVEL		COBBLES	BOULDERS											
	FINE	MEDIUM	COARSE	FINE	COARSE													
RELATIVE DENSITY				CONSISTENCY														
SANDS AND GRAVELS		BLOWS/FOOT (S.P.T.)		SILTS AND CLAYS		STRENGTH*												
VERY LOOSE		0-4		VERY SOFT		0-1/4												
LOOSE		4-10		SOFT		1/4-1/2												
MEDIUM DENSE		10-30		MEDIUM STIFF		1/2-1												
DENSE		30-50		STIFF		1-2												
VERY DENSE		OVER 50		VERY STIFF		2-4												
				HARD		OVER 4												
MOISTURE CONDITION																		
SAMPLER SYMBOLS				DRY	Dusty, dry to touch													
				MOIST	Damp but no visible water													
				WET	Visible freewater													
LINE TYPES																		
				Solid - Layer Break														
				Dashed - Gradational or approximate layer break														
GROUND-WATER SYMBOLS																		
				Groundwater level during drilling														
				Stabilized groundwater level														
NR No Recovery																		
(S.P.T.) Number of blows of 140 lb. hammer falling 30" to drive a 2-inch O.D. (1-3/8 inch I.D.) sampler																		
* Unconfined compressive strength in tons/sq. ft., asterisk on log means determined by pocket penetrometer																		



LOG OF PROBE GW-8

LATITUDE: 37.325247

LONGITUDE: -121.8999

Environmental Assessment
TC Agoge Associates - Diridon
San Jose, CA
14121.001.000

DATE DRILLED: 10/17/2018
HOLE DEPTH: 30 ft.
HOLE DIAMETER: 2.0 in.
SURF ELEV (WGS84): Approx. 97 ft.

LOGGED / REVIEWED BY: C. Johnson / SM
DRILLING CONTRACTOR: PENECORE
DRILLING METHOD: Geoprobe
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Recovery (in) / Run (in)	REMARKS	
							PID (ppm)	
0	0		WELL GRADED GRAVEL (GW), gray LEAN CLAY (CL), dark brown					
1	0.30		CLAYEY SAND (SC), grayish green					
1	0.30		LEAN CLAY (CL), dark yellowish brown					
5	1.52		LEAN CLAY (CL), dark yellowish brown					
2	0.61		CLAYEY SAND (SC), yellowish brown					
10	3.04		WELL GRADED SAND (SW), yellowish red					
4	1.22							
15	4.57							
5	1.52		FAT CLAY (CH), dark brown					
6	1.83		WELL GRADED SAND (SW), yellowish red					
20	6.06							



Expect Excellence

LOG OF PROBE GW-8

LATITUDE: 37.325247

LONGITUDE: -121.8999

Environmental Assessment
TC Agoge Associates - Diridon
San Jose, CA
14121.001.000

DATE DRILLED: 10/17/2018
HOLE DEPTH: 30 ft.
HOLE DIAMETER: 2.0 in.
SURF ELEV (WGS84): Approx. 97 ft.

LOGGED / REVIEWED BY: C. Johnson / SM
DRILLING CONTRACTOR: PENECORE
DRILLING METHOD: Geoprobe
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Recovery (in) / Run (in)	PID (ppm)	REMARKS
7			LEAN CLAY (CL), yellowish brown					
25			CLAYEY SAND (SC), dark yellowish brown					
30			End of Boring at approximately 30 feet. Groundwater encountered at approximatly 28 feet.					



LOG OF PROBE SG-10

Expect Excellence

LATITUDE: 37.325228

LONGITUDE: -121.90011

Environmental Assessment
TC Agoge Associates - Diridon
San Jose, CA
14121.001.000

DATE DRILLED: 10/17/2018
HOLE DEPTH: 6 ft.
HOLE DIAMETER: 2.0 in.
SURF ELEV (WGS84): Approx. 97 ft.

LOGGED / REVIEWED BY: C. Johnson / SM
DRILLING CONTRACTOR: PENECORE
DRILLING METHOD: Geoprobe
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Recovery (in) / Run (in)	PID (ppm)	REMARKS
			WELL GRADED GRAVEL (GW), gray					
			CLAYEY SAND WITH GRAVEL (SC), dark yellowish brown					
1			LEAN CLAY (CL), dark yellowish brown					
5			FAT CLAY (CH), dark brown					
			End of Boring at approximately 6 feet. Groundwater not encountered during drilling.					



LOG OF PROBE SG-11

LATITUDE: 37.325315

LONGITUDE: -121.900213

Environmental Assessment
TC Agoge Associates - Diridon
San Jose, CA
14121.001.000

DATE DRILLED: 10/17/2018
HOLE DEPTH: 6 ft.
HOLE DIAMETER: 2.0 in.
SURF ELEV (WGS84): Approx. 97 ft.

LOGGED / REVIEWED BY: C. Johnson / SM
DRILLING CONTRACTOR: PENECORE
DRILLING METHOD: Geoprobe
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Recovery (in) / Run (in)	REMARKS	
							PID (ppm)	
			WELL GRADED GRAVEL (GW), gray					
			CLAYEY SAND (SC), grayish green					
			CLAYEY SAND WITH GRAVEL (SC), dark yellowish brown					
1			LEAN CLAY (CL), dark yellowish brown					
5			FAT CLAY (CH), gray					
			End of Boring at approximately 6 feet. Groundwater not encountered during drilling.					



Expect Excellence

LOG OF PROBE SG-12

LATITUDE: 37.32553

LONGITUDE: -121.900048

Environmental Assessment
TC Agoge Associates - Diridon
San Jose, CA
14121.001.000

DATE DRILLED: 10/17/2018
HOLE DEPTH: 6 ft.
HOLE DIAMETER: 2.0 in.
SURF ELEV (WGS84): Approx. 97 ft.

LOGGED / REVIEWED BY: C. Johnson / SM
DRILLING CONTRACTOR: PENECORE
DRILLING METHOD: Geoprobe
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Recovery (in) / Run (in)	PID (ppm)	REMARKS
			WELL GRADED GRAVEL (GW), gray					
			CLAYEY SAND WITH GRAVEL (SC), dark brown					
			LEAN CLAY (CL), dark yellowish brown					
			FAT CLAY (CH), dark brown					
1								
5								
			End of Boring at approximately 6 feet. Groundwater not encountered during drilling.					



LOG OF PROBE SG-13

LATITUDE: 37.325496

LONGITUDE: -121.900378

Environmental Assessment
TC Agoge Associates - Diridon
San Jose, CA
14121.001.000

DATE DRILLED: 10/17/2018
HOLE DEPTH: 6 ft.
HOLE DIAMETER: 2.0 in.
SURF ELEV (WGS84): Approx. 97 ft.

LOGGED / REVIEWED BY: C. Johnson / SM
DRILLING CONTRACTOR: PENECORE
DRILLING METHOD: Geoprobe
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Recovery (in) / Run (in)	PID (ppm)	REMARKS
			WELL GRADED GRAVEL (GW), gray CLAYEY SAND (SC), dark yellowish gray					
1			FAT CLAY (CH), dark brown					
5			End of Boring at approximately 6 feet. Groundwater not encountered during drilling.					



Expect Excellence

LOG OF PROBE SG-14

LATITUDE: 37.325598

LONGITUDE: -121.900458

Environmental Assessment
TC Agoge Associates - Diridon
San Jose, CA
14121.001.000

DATE DRILLED: 10/17/2018
HOLE DEPTH: 6 ft.
HOLE DIAMETER: 2.0 in.
SURF ELEV (WGS84): Approx. 97 ft.

LOGGED / REVIEWED BY: C. Johnson / SM
DRILLING CONTRACTOR: PENECORE
DRILLING METHOD: Geoprobe
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	REMARKS	
						Recovery (in) / Run (in)	PID (ppm)
			WELL GRADED GRAVEL (GW), gray				
			CLAYEY SAND (SC), dark brown				
			CLAYEY SAND (SC), dark yellowish brown				
1			LEAN CLAY (CL), dark yellowish brown				
5			FAT CLAY (CH), dark brown				
			End of Boring at approximately 6 feet. Groundwater not encountered during drilling.				



Expect Excellence

LOG OF PROBE SG-7

LATITUDE: 37.325098

LONGITUDE: -121.90004

Environmental Assessment
TC Agoge Associates - Diridon
San Jose, CA
14121.001.000

DATE DRILLED: 10/17/2018
HOLE DEPTH: 6 ft.
HOLE DIAMETER: 2.0 in.
SURF ELEV (WGS84): Approx. 97 ft.

LOGGED / REVIEWED BY: C. Johnson / SM
DRILLING CONTRACTOR: PENECORE
DRILLING METHOD: Geoprobe
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	REMARKS	
						Recovery (in) / Run (in)	PID (ppm)
			WELL GRADED GRAVEL (GW), gray				
			CLAYEY SAND (SC), dark yellowish brown				
1			LEAN CLAY (CL), dark yellowish brown				
5			CLAYEY SAND (SC), yellowish brown				
			End of Boring at approximately 6 feet. Groundwater not encountered during drilling.				



Expect Excellence

LOG OF PROBE SG-8

LATITUDE: 37.32524

LONGITUDE: -121.89973

Environmental Assessment
TC Agoge Associates - Diridon
San Jose, CA
14121.001.000

DATE DRILLED: 10/17/2018
HOLE DEPTH: 6 ft.
HOLE DIAMETER: 2.0 in.
SURF ELEV (WGS84): Approx. 98 ft.

LOGGED / REVIEWED BY: C. Johnson / SM
DRILLING CONTRACTOR: PENECORE
DRILLING METHOD: Geoprobe
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Recovery (in) / Run (in)	PID (ppm)	REMARKS
			CLAYEY SAND (SC), grayish green					
			CLAYEY SAND (SC), dark reddish brown, with wood and glass fragments					
			CLAYEY SAND (SC), dark yellowish brown					
1			CLAYEY SAND (SC), light yellowish brown					
5			FAT CLAY (CH), dark brown					
			End of Boring at approximately 6 feet. Groundwater not encountered during drilling.					



Expect Excellence

LOG OF PROBE SG-9

LATITUDE: 37.325362

LONGITUDE: -121.899883

Environmental Assessment
TC Agoge Associates - Diridon
San Jose, CA
14121.001.000

DATE DRILLED: 10/17/2018
HOLE DEPTH: 6 ft.
HOLE DIAMETER: 2.0 in.
SURF ELEV (WGS84): Approx. 97 ft.

LOGGED / REVIEWED BY: C. Johnson / SM
DRILLING CONTRACTOR: PENECORE
DRILLING METHOD: Geoprobe
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Recovery (in) / Run (in)	PID (ppm)	REMARKS
			CLAYEY SAND (SC), grayish green					
			CLAYEY SAND (SC), dark yellowish brown					
			CLAYEY SAND WITH GRAVEL (SC), dark yellowish brown					
1			CLAYEY GRAVEL (GC), pale yellow					
5			CLAYEY SAND (SC), pale olive					
			CLAYEY SAND (SC), dark brown					
			End of Boring at approximately 6 feet. Groundwater not encountered during drilling.					

APPENDIX B
Laboratory Analytical Reports

14121.001.000
August 21, 2018
Revised October 24, 2018



Engeo (San Ramon)
2010 Crow Canyon Place, #250
San Ramon, California 94583
Tel: (925) 866-9000
Fax: (925) 866-0199
RE: 580 Loraine Ave

Work Order No.: 1810119

Dear Divya Bhargava:

Torrent Laboratory, Inc. received 8 sample(s) on October 17, 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.

A handwritten signature in blue ink that appears to read "Patti L. Sandrock".

Patti L Sandrock
QA Officer

October 18, 2018

Date



Date: 10/18/2018

Client: Engeo (San Ramon)

Project: 580 Loraine Ave

Work Order: 1810119

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.



Sample Result Summary

Report prepared for: Divya Bhargava
Engeo (San Ramon) **Date Received:** 10/17/18
Date Reported: 10/18/18

SG-7

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Tetrachloroethylene	ETO15	4000	5800	14000	590000

SG-8

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Acetone	ETO15	1	0.40	12	160
tert-Butanol	ETO15	1	0.62	1.5	9.1
Benzene	ETO15	1	0.44	1.6	10
Toluene	ETO15	1	0.75	1.9	4.0
4-Methyl-2-Pentanone (MIBK)	ETO15	1	0.75	2.1	23
Tetrachloroethylene	ETO15	1	1.5	3.4	41
2-Hexanone	ETO15	1	0.65	2.1	4.4
m,p-Xylene	ETO15	1	0.98	2.2	8.6
o-Xylene	ETO15	1	0.30	2.2	2.2

SG-9

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Acetone	ETO15	1.66	0.66	20	86
4-Methyl-2-Pentanone (MIBK)	ETO15	1.66	1.2	3.4	6.9
Tetrachloroethylene	ETO15	1.66	2.4	5.6	230

SG-10

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Tetrachloroethylene	ETO15	50	73	170	6400

SG-11

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Tetrachloroethylene	ETO15	25	36	85	4100



Sample Result Summary

Report prepared for: Divya Bhargava
Engeo (San Ramon) **Date Received:** 10/17/18
Date Reported: 10/18/18

SG-12

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Chloroethane	ETO15	1	0.81	1.3	1.3
Carbon Disulfide	ETO15	1	0.37	1.6	7.8
Hexane	ETO15	1	0.46	1.8	35
Benzene	ETO15	1	0.44	1.6	21
Toluene	ETO15	1	0.75	1.9	16
4-Methyl-2-Pentanone (MIBK)	ETO15	1	0.75	2.1	6.3
2-Hexanone	ETO15	1	0.65	2.1	4.5
Ethyl Benzene	ETO15	1	0.63	2.2	4.7
m,p-Xylene	ETO15	1	0.98	2.2	27
o-Xylene	ETO15	1	0.30	2.2	7.1

SG-13

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Trichloroethylene	ETO15	25	20	67	74
Tetrachloroethylene	ETO15	25	36	85	3900
m,p-Xylene	ETO15	25	24	54	55

SG-14

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Tetrachloroethylene	ETO15	10	15	34	870



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 10/17/18, 3:40 pm
Date Reported: 10/18/18

Client Sample ID:	SG-7	Lab Sample ID:	1810119-001A
Project Name/Location:	580 Loraine Ave	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000	Certified Clean WO # :	
Date/Time Sampled:	10/17/18 / 14:35	Received PSI :	10.2
Canister/Tube ID:	6326	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time:	10/17/18	4:00:00PM
Prep Batch ID: 1108688	Prep Analyst:	BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	4,000	6300	9900	ND	ND		10/18/18	14:05	BA	435118
1,1-Difluoroethane	ETO15	4,000	1400	54000	ND	ND		10/18/18	14:05	BA	435118
1,2-Dichlorotetrafluoroethane	ETO15	4,000	110000	220000	ND	ND		10/18/18	14:05	BA	435118
Chloromethane	ETO15	4,000	8200	17000	ND	ND		10/18/18	14:05	BA	435118
Vinyl Chloride	ETO15	4,000	900	5100	ND	ND		10/18/18	14:05	BA	435118
1,3-Butadiene	ETO15	4,000	1400	4400	ND	ND		10/18/18	14:05	BA	435118
Bromomethane	ETO15	4,000	2600	7800	ND	ND		10/18/18	14:05	BA	435118
Chloroethane	ETO15	4,000	3300	5300	ND	ND		10/18/18	14:05	BA	435118
Trichlorofluoromethane	ETO15	4,000	2200	11000	ND	ND		10/18/18	14:05	BA	435118
1,1-Dichloroethene	ETO15	4,000	3300	7900	ND	ND		10/18/18	14:05	BA	435118
Freon 113	ETO15	4,000	4100	15000	ND	ND		10/18/18	14:05	BA	435118
Carbon Disulfide	ETO15	4,000	1500	6200	ND	ND		10/18/18	14:05	BA	435118
2-Propanol (Isopropyl Alcohol)	ETO15	4,000	5100	49000	ND	ND		10/18/18	14:05	BA	435118
Methylene Chloride	ETO15	4,000	2800	42000	ND	ND		10/18/18	14:05	BA	435118
Acetone	ETO15	4,000	1600	48000	ND	ND		10/18/18	14:05	BA	435118
trans-1,2-Dichloroethene	ETO15	4,000	1900	7900	ND	ND		10/18/18	14:05	BA	435118
Hexane	ETO15	4,000	1900	7000	ND	ND		10/18/18	14:05	BA	435118
MTBE	ETO15	4,000	1800	7200	ND	ND		10/18/18	14:05	BA	435118
tert-Butanol	ETO15	4,000	2500	6100	ND	ND		10/18/18	14:05	BA	435118
Diisopropyl ether (DIPE)	ETO15	4,000	2900	8400	ND	ND		10/18/18	14:05	BA	435118
1,1-Dichloroethane	ETO15	4,000	2200	8100	ND	ND		10/18/18	14:05	BA	435118
ETBE	ETO15	4,000	1300	8400	ND	ND		10/18/18	14:05	BA	435118
cis-1,2-Dichloroethene	ETO15	4,000	3300	7900	ND	ND		10/18/18	14:05	BA	435118
Chloroform	ETO15	4,000	3900	9800	ND	ND		10/18/18	14:05	BA	435118
Vinyl Acetate	ETO15	4,000	3000	7000	ND	ND		10/18/18	14:05	BA	435118
Carbon Tetrachloride	ETO15	4,000	4400	13000	ND	ND		10/18/18	14:05	BA	435118
1,1,1-Trichloroethane	ETO15	4,000	3200	11000	ND	ND		10/18/18	14:05	BA	435118
2-Butanone (MEK)	ETO15	4,000	1600	5900	ND	ND		10/18/18	14:05	BA	435118
Ethyl Acetate	ETO15	4,000	1900	7200	ND	ND		10/18/18	14:05	BA	435118
Tetrahydrofuran	ETO15	4,000	1800	5900	ND	ND		10/18/18	14:05	BA	435118
Benzene	ETO15	4,000	1700	6400	ND	ND		10/18/18	14:05	BA	435118
TAME	ETO15	4,000	2700	8400	ND	ND		10/18/18	14:05	BA	435118
1,2-Dichloroethane (EDC)	ETO15	4,000	1700	8100	ND	ND		10/18/18	14:05	BA	435118



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 10/17/18, 3:40 pm
Date Reported: 10/18/18

Client Sample ID:	SG-7	Lab Sample ID:	1810119-001A
Project Name/Location:	580 Loraine Ave	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000	Certified Clean WO # :	
Date/Time Sampled:	10/17/18 / 14:35	Received PSI :	10.2
Canister/Tube ID:	6326	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 10/17/18 4:00:00PM
Prep Batch ID: 1108688	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	4,000	3200	11000	ND	ND		10/18/18	14:05	BA	435118
1,2-Dichloropropane	ETO15	4,000	3000	9200	ND	ND		10/18/18	14:05	BA	435118
Bromodichloromethane	ETO15	4,000	3000	13000	ND	ND		10/18/18	14:05	BA	435118
1,4-Dioxane	ETO15	4,000	7200	14000	ND	ND		10/18/18	14:05	BA	435118
trans-1,3-Dichloropropene	ETO15	4,000	4200	9100	ND	ND		10/18/18	14:05	BA	435118
Toluene	ETO15	4,000	3000	7500	ND	ND		10/18/18	14:05	BA	435118
4-Methyl-2-Pentanone (MIBK)	ETO15	4,000	3000	8200	ND	ND		10/18/18	14:05	BA	435118
cis-1,3-Dichloropropene	ETO15	4,000	1700	9100	ND	ND		10/18/18	14:05	BA	435118
Tetrachloroethylene	ETO15	4,000	5800	14000	590000	87,020.65		10/18/18	14:05	BA	435118
1,1,2-Trichloroethane	ETO15	4,000	2300	11000	ND	ND		10/18/18	14:05	BA	435118
Dibromochloromethane	ETO15	4,000	4500	17000	ND	ND		10/18/18	14:05	BA	435118
1,2-Dibromoethane (EDB)	ETO15	4,000	2900	15000	ND	ND		10/18/18	14:05	BA	435118
2-Hexanone	ETO15	4,000	2600	8200	ND	ND		10/18/18	14:05	BA	435118
Ethyl Benzene	ETO15	4,000	2500	8700	ND	ND		10/18/18	14:05	BA	435118
Chlorobenzene	ETO15	4,000	2400	9200	ND	ND		10/18/18	14:05	BA	435118
1,1,1,2-Tetrachloroethane	ETO15	4,000	3400	14000	ND	ND		10/18/18	14:05	BA	435118
m,p-Xylene	ETO15	4,000	3900	8700	ND	ND		10/18/18	14:05	BA	435118
o-Xylene	ETO15	4,000	1200	8700	ND	ND		10/18/18	14:05	BA	435118
Styrene	ETO15	4,000	1900	8500	ND	ND		10/18/18	14:05	BA	435118
Bromoform	ETO15	4,000	5200	21000	ND	ND		10/18/18	14:05	BA	435118
1,1,2,2-Tetrachloroethane	ETO15	4,000	3300	14000	ND	ND		10/18/18	14:05	BA	435118
4-Ethyl Toluene	ETO15	4,000	2200	9800	ND	ND		10/18/18	14:05	BA	435118
1,3,5-Trimethylbenzene	ETO15	4,000	1200	9800	ND	ND		10/18/18	14:05	BA	435118
1,2,4-Trimethylbenzene	ETO15	4,000	2400	9800	ND	ND		10/18/18	14:05	BA	435118
1,4-Dichlorobenzene	ETO15	4,000	3000	12000	ND	ND		10/18/18	14:05	BA	435118
1,3-Dichlorobenzene	ETO15	4,000	5300	12000	ND	ND		10/18/18	14:05	BA	435118
1,2-Dichlorobenzene	ETO15	4,000	4300	12000	ND	ND		10/18/18	14:05	BA	435118
Hexachlorobutadiene	ETO15	4,000	7400	21000	ND	ND		10/18/18	14:05	BA	435118
1,2,4-Trichlorobenzene	ETO15	4,000	8600	15000	ND	ND		10/18/18	14:05	BA	435118
Naphthalene	ETO15	4,000	5100	10000	ND	ND		10/18/18	14:05	BA	435118
(S) 4-Bromofluorobenzene	ETO15	4,000	50	150	88 %			10/18/18	14:05	BA	435118



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 10/17/18, 3:40 pm
Date Reported: 10/18/18

Client Sample ID:	SG-8	Lab Sample ID:	1810119-002A
Project Name/Location:	580 Loraine Ave	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000		
Date/Time Sampled:	10/17/18 / 11:00	Certified Clean WO #:	
Canister/Tube ID:	A7563	Received PSI :	14.5
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time:	10/17/18	4:00:00PM
Prep Batch ID: 1108688	Prep Analyst:	BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		10/18/18	11:53	BA	435118
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		10/18/18	11:53	BA	435118
1,2-Dichlorotetrafluoroethane	ETO15	1.00	28	56	ND	ND		10/18/18	11:53	BA	435118
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		10/18/18	11:53	BA	435118
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		10/18/18	11:53	BA	435118
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		10/18/18	11:53	BA	435118
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		10/18/18	11:53	BA	435118
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		10/18/18	11:53	BA	435118
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		10/18/18	11:53	BA	435118
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		10/18/18	11:53	BA	435118
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		10/18/18	11:53	BA	435118
Carbon Disulfide	ETO15	1.00	0.37	1.6	ND	ND		10/18/18	11:53	BA	435118
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		10/18/18	11:53	BA	435118
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		10/18/18	11:53	BA	435118
Acetone	ETO15	1.00	0.40	12	160	67.23	E	10/18/18	11:53	BA	435118
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		10/18/18	11:53	BA	435118
Hexane	ETO15	1.00	0.46	1.8	ND	ND		10/18/18	11:53	BA	435118
MTBE	ETO15	1.00	0.44	1.8	ND	ND		10/18/18	11:53	BA	435118
tert-Butanol	ETO15	1.00	0.62	1.5	9.1	3.00		10/18/18	11:53	BA	435118
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		10/18/18	11:53	BA	435118
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		10/18/18	11:53	BA	435118
ETBE	ETO15	1.00	0.33	2.1	ND	ND		10/18/18	11:53	BA	435118
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		10/18/18	11:53	BA	435118
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		10/18/18	11:53	BA	435118
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		10/18/18	11:53	BA	435118
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		10/18/18	11:53	BA	435118
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		10/18/18	11:53	BA	435118
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	ND	ND		10/18/18	11:53	BA	435118
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		10/18/18	11:53	BA	435118
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		10/18/18	11:53	BA	435118
Benzene	ETO15	1.00	0.44	1.6	10	3.13		10/18/18	11:53	BA	435118
TAME	ETO15	1.00	0.67	2.1	ND	ND		10/18/18	11:53	BA	435118
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		10/18/18	11:53	BA	435118



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 10/17/18, 3:40 pm
Date Reported: 10/18/18

Client Sample ID:	SG-8	Lab Sample ID:	1810119-002A
Project Name/Location:	580 Loraine Ave	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000		
Date/Time Sampled:	10/17/18 / 11:00	Certified Clean WO #:	
Canister/Tube ID:	A7563	Received PSI :	14.5
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time:	10/17/18	4:00:00PM
Prep Batch ID: 1108688	Prep Analyst:	BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		10/18/18	11:53	BA	435118
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		10/18/18	11:53	BA	435118
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		10/18/18	11:53	BA	435118
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		10/18/18	11:53	BA	435118
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		10/18/18	11:53	BA	435118
Toluene	ETO15	1.00	0.75	1.9	4.0	1.06		10/18/18	11:53	BA	435118
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	23	5.61		10/18/18	11:53	BA	435118
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		10/18/18	11:53	BA	435118
Tetrachloroethylene	ETO15	1.00	1.5	3.4	41	6.05		10/18/18	11:53	BA	435118
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		10/18/18	11:53	BA	435118
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		10/18/18	11:53	BA	435118
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		10/18/18	11:53	BA	435118
2-Hexanone	ETO15	1.00	0.65	2.1	4.4	1.07		10/18/18	11:53	BA	435118
Ethyl Benzene	ETO15	1.00	0.63	2.2	ND	ND		10/18/18	11:53	BA	435118
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		10/18/18	11:53	BA	435118
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		10/18/18	11:53	BA	435118
m,p-Xylene	ETO15	1.00	0.98	2.2	8.6	1.98		10/18/18	11:53	BA	435118
o-Xylene	ETO15	1.00	0.30	2.2	2.2	0.51		10/18/18	11:53	BA	435118
Styrene	ETO15	1.00	0.46	2.1	ND	ND		10/18/18	11:53	BA	435118
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		10/18/18	11:53	BA	435118
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		10/18/18	11:53	BA	435118
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		10/18/18	11:53	BA	435118
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		10/18/18	11:53	BA	435118
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		10/18/18	11:53	BA	435118
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		10/18/18	11:53	BA	435118
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		10/18/18	11:53	BA	435118
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		10/18/18	11:53	BA	435118
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		10/18/18	11:53	BA	435118
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		10/18/18	11:53	BA	435118
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		10/18/18	11:53	BA	435118
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	97 %			10/18/18	11:53	BA	435118



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 10/17/18, 3:40 pm
Date Reported: 10/18/18

Client Sample ID:	SG-9	Lab Sample ID:	1810119-003A
Project Name/Location:	580 Loraine Ave	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000		
Date/Time Sampled:	10/17/18 / 10:40	Certified Clean WO #:	
Canister/Tube ID:	N1440	Received PSI :	13.9
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time:	10/17/18	4:00:00PM
Prep Batch ID: 1108688	Prep Analyst:	BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.66	2.6	4.1	ND	ND		10/18/18	12:39	BA	435118
1,1-Difluoroethane	ETO15	1.66	0.57	22	ND	ND		10/18/18	12:39	BA	435118
1,2-Dichlorotetrafluoroethane	ETO15	1.66	47	93	ND	ND		10/18/18	12:39	BA	435118
Chloromethane	ETO15	1.66	3.4	6.9	ND	ND		10/18/18	12:39	BA	435118
Vinyl Chloride	ETO15	1.66	0.37	2.1	ND	ND		10/18/18	12:39	BA	435118
1,3-Butadiene	ETO15	1.66	0.57	1.8	ND	ND		10/18/18	12:39	BA	435118
Bromomethane	ETO15	1.66	1.1	3.2	ND	ND		10/18/18	12:39	BA	435118
Chloroethane	ETO15	1.66	1.4	2.2	ND	ND		10/18/18	12:39	BA	435118
Trichlorofluoromethane	ETO15	1.66	0.92	4.7	ND	ND		10/18/18	12:39	BA	435118
1,1-Dichloroethene	ETO15	1.66	1.4	3.3	ND	ND		10/18/18	12:39	BA	435118
Freon 113	ETO15	1.66	1.7	6.4	ND	ND		10/18/18	12:39	BA	435118
Carbon Disulfide	ETO15	1.66	0.62	2.6	ND	ND		10/18/18	12:39	BA	435118
2-Propanol (Isopropyl Alcohol)	ETO15	1.66	2.1	20	ND	ND		10/18/18	12:39	BA	435118
Methylene Chloride	ETO15	1.66	1.2	17	ND	ND		10/18/18	12:39	BA	435118
Acetone	ETO15	1.66	0.66	20	86	36.13		10/18/18	12:39	BA	435118
trans-1,2-Dichloroethene	ETO15	1.66	0.79	3.3	ND	ND		10/18/18	12:39	BA	435118
Hexane	ETO15	1.66	0.77	2.9	ND	ND		10/18/18	12:39	BA	435118
MTBE	ETO15	1.66	0.74	3.0	ND	ND		10/18/18	12:39	BA	435118
tert-Butanol	ETO15	1.66	1.0	2.5	ND	ND		10/18/18	12:39	BA	435118
Diisopropyl ether (DIPE)	ETO15	1.66	1.2	3.5	ND	ND		10/18/18	12:39	BA	435118
1,1-Dichloroethane	ETO15	1.66	0.90	3.4	ND	ND		10/18/18	12:39	BA	435118
ETBE	ETO15	1.66	0.54	3.5	ND	ND		10/18/18	12:39	BA	435118
cis-1,2-Dichloroethene	ETO15	1.66	1.4	3.3	ND	ND		10/18/18	12:39	BA	435118
Chloroform	ETO15	1.66	1.6	4.1	ND	ND		10/18/18	12:39	BA	435118
Vinyl Acetate	ETO15	1.66	1.3	2.9	ND	ND		10/18/18	12:39	BA	435118
Carbon Tetrachloride	ETO15	1.66	1.8	5.2	ND	ND		10/18/18	12:39	BA	435118
1,1,1-Trichloroethane	ETO15	1.66	1.3	4.5	ND	ND		10/18/18	12:39	BA	435118
2-Butanone (MEK)	ETO15	1.66	0.65	2.4	ND	ND		10/18/18	12:39	BA	435118
Ethyl Acetate	ETO15	1.66	0.79	3.0	ND	ND		10/18/18	12:39	BA	435118
Tetrahydrofuran	ETO15	1.66	0.74	2.4	ND	ND		10/18/18	12:39	BA	435118
Benzene	ETO15	1.66	0.73	2.6	ND	ND		10/18/18	12:39	BA	435118
TAME	ETO15	1.66	1.1	3.5	ND	ND		10/18/18	12:39	BA	435118
1,2-Dichloroethane (EDC)	ETO15	1.66	0.70	3.4	ND	ND		10/18/18	12:39	BA	435118



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 10/17/18, 3:40 pm
Date Reported: 10/18/18

Client Sample ID:	SG-9	Lab Sample ID:	1810119-003A
Project Name/Location:	580 Loraine Ave	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000		
Date/Time Sampled:	10/17/18 / 10:40	Certified Clean WO # :	
Canister/Tube ID:	N1440	Received PSI :	13.9
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time:	10/17/18	4:00:00PM
Prep Batch ID: 1108688	Prep Analyst:	BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	1.66	1.3	4.5	ND	ND		10/18/18	12:39	BA	435118
1,2-Dichloropropane	ETO15	1.66	1.3	3.8	ND	ND		10/18/18	12:39	BA	435118
Bromodichloromethane	ETO15	1.66	1.2	5.6	ND	ND		10/18/18	12:39	BA	435118
1,4-Dioxane	ETO15	1.66	3.0	6.0	ND	ND		10/18/18	12:39	BA	435118
trans-1,3-Dichloropropene	ETO15	1.66	1.8	3.8	ND	ND		10/18/18	12:39	BA	435118
Toluene	ETO15	1.66	1.3	3.1	ND	ND		10/18/18	12:39	BA	435118
4-Methyl-2-Pentanone (MIBK)	ETO15	1.66	1.2	3.4	6.9	1.68		10/18/18	12:39	BA	435118
cis-1,3-Dichloropropene	ETO15	1.66	0.70	3.8	ND	ND		10/18/18	12:39	BA	435118
Tetrachloroethylene	ETO15	1.66	2.4	5.6	230	33.92		10/18/18	12:39	BA	435118
1,1,2-Trichloroethane	ETO15	1.66	0.97	4.5	ND	ND		10/18/18	12:39	BA	435118
Dibromochloromethane	ETO15	1.66	1.9	7.1	ND	ND		10/18/18	12:39	BA	435118
1,2-Dibromoethane (EDB)	ETO15	1.66	1.2	6.4	ND	ND		10/18/18	12:39	BA	435118
2-Hexanone	ETO15	1.66	1.1	3.4	ND	ND		10/18/18	12:39	BA	435118
Ethyl Benzene	ETO15	1.66	1.0	3.6	ND	ND		10/18/18	12:39	BA	435118
Chlorobenzene	ETO15	1.66	0.99	3.8	ND	ND		10/18/18	12:39	BA	435118
1,1,1,2-Tetrachloroethane	ETO15	1.66	1.4	5.7	ND	ND		10/18/18	12:39	BA	435118
m,p-Xylene	ETO15	1.66	1.6	3.6	ND	ND		10/18/18	12:39	BA	435118
o-Xylene	ETO15	1.66	0.50	3.6	ND	ND		10/18/18	12:39	BA	435118
Styrene	ETO15	1.66	0.77	3.5	ND	ND		10/18/18	12:39	BA	435118
Bromoform	ETO15	1.66	2.2	8.6	ND	ND		10/18/18	12:39	BA	435118
1,1,2,2-Tetrachloroethane	ETO15	1.66	1.4	5.7	ND	ND		10/18/18	12:39	BA	435118
4-Ethyl Toluene	ETO15	1.66	0.91	4.1	ND	ND		10/18/18	12:39	BA	435118
1,3,5-Trimethylbenzene	ETO15	1.66	0.50	4.1	ND	ND		10/18/18	12:39	BA	435118
1,2,4-Trimethylbenzene	ETO15	1.66	0.99	4.1	ND	ND		10/18/18	12:39	BA	435118
1,4-Dichlorobenzene	ETO15	1.66	1.2	5.0	ND	ND		10/18/18	12:39	BA	435118
1,3-Dichlorobenzene	ETO15	1.66	2.2	5.0	ND	ND		10/18/18	12:39	BA	435118
1,2-Dichlorobenzene	ETO15	1.66	1.8	5.0	ND	ND		10/18/18	12:39	BA	435118
Hexachlorobutadiene	ETO15	1.66	3.1	8.9	ND	ND		10/18/18	12:39	BA	435118
1,2,4-Trichlorobenzene	ETO15	1.66	3.6	6.2	ND	ND		10/18/18	12:39	BA	435118
Naphthalene	ETO15	1.66	2.1	4.3	ND	ND		10/18/18	12:39	BA	435118
(S) 4-Bromofluorobenzene	ETO15	1.66	50	150	100 %			10/18/18	12:39	BA	435118



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 10/17/18, 3:40 pm
Date Reported: 10/18/18

Client Sample ID:	SG-10	Lab Sample ID:	1810119-004A
Project Name/Location:	580 Loraine Ave	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000	Certified Clean WO # :	
Date/Time Sampled:	10/17/18 / 14:10	Received PSI :	13.9
Canister/Tube ID:	N1446	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time:	10/17/18	4:00:00PM
Prep Batch ID: 1108688	Prep Analyst:	BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	50.00	78	120	ND	ND		10/18/18	9:49	BA	435118
1,1-Difluoroethane	ETO15	50.00	17	680	ND	ND		10/18/18	9:49	BA	435118
1,2-Dichlorotetrafluoroethane	ETO15	50.00	1400	2800	ND	ND		10/18/18	9:49	BA	435118
Chloromethane	ETO15	50.00	100	210	ND	ND		10/18/18	9:49	BA	435118
Vinyl Chloride	ETO15	50.00	11	64	ND	ND		10/18/18	9:49	BA	435118
1,3-Butadiene	ETO15	50.00	17	55	ND	ND		10/18/18	9:49	BA	435118
Bromomethane	ETO15	50.00	33	97	ND	ND		10/18/18	9:49	BA	435118
Chloroethane	ETO15	50.00	41	66	ND	ND		10/18/18	9:49	BA	435118
Trichlorofluoromethane	ETO15	50.00	28	140	ND	ND		10/18/18	9:49	BA	435118
1,1-Dichloroethene	ETO15	50.00	41	99	ND	ND		10/18/18	9:49	BA	435118
Freon 113	ETO15	50.00	51	190	ND	ND		10/18/18	9:49	BA	435118
Carbon Disulfide	ETO15	50.00	19	78	ND	ND		10/18/18	9:49	BA	435118
2-Propanol (Isopropyl Alcohol)	ETO15	50.00	64	620	ND	ND		10/18/18	9:49	BA	435118
Methylene Chloride	ETO15	50.00	35	520	ND	ND		10/18/18	9:49	BA	435118
Acetone	ETO15	50.00	20	600	ND	ND		10/18/18	9:49	BA	435118
trans-1,2-Dichloroethene	ETO15	50.00	24	99	ND	ND		10/18/18	9:49	BA	435118
Hexane	ETO15	50.00	23	88	ND	ND		10/18/18	9:49	BA	435118
MTBE	ETO15	50.00	22	90	ND	ND		10/18/18	9:49	BA	435118
tert-Butanol	ETO15	50.00	31	76	ND	ND		10/18/18	9:49	BA	435118
Diisopropyl ether (DIPE)	ETO15	50.00	37	100	ND	ND		10/18/18	9:49	BA	435118
1,1-Dichloroethane	ETO15	50.00	27	100	ND	ND		10/18/18	9:49	BA	435118
ETBE	ETO15	50.00	16	100	ND	ND		10/18/18	9:49	BA	435118
cis-1,2-Dichloroethene	ETO15	50.00	42	99	ND	ND		10/18/18	9:49	BA	435118
Chloroform	ETO15	50.00	48	120	ND	ND		10/18/18	9:49	BA	435118
Vinyl Acetate	ETO15	50.00	38	88	ND	ND		10/18/18	9:49	BA	435118
Carbon Tetrachloride	ETO15	50.00	55	160	ND	ND		10/18/18	9:49	BA	435118
1,1,1-Trichloroethane	ETO15	50.00	40	140	ND	ND		10/18/18	9:49	BA	435118
2-Butanone (MEK)	ETO15	50.00	19	74	ND	ND		10/18/18	9:49	BA	435118
Ethyl Acetate	ETO15	50.00	24	90	ND	ND		10/18/18	9:49	BA	435118
Tetrahydrofuran	ETO15	50.00	22	74	ND	ND		10/18/18	9:49	BA	435118
Benzene	ETO15	50.00	22	80	ND	ND		10/18/18	9:49	BA	435118
TAME	ETO15	50.00	34	100	ND	ND		10/18/18	9:49	BA	435118
1,2-Dichloroethane (EDC)	ETO15	50.00	21	100	ND	ND		10/18/18	9:49	BA	435118



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 10/17/18, 3:40 pm
Date Reported: 10/18/18

Client Sample ID:	SG-10	Lab Sample ID:	1810119-004A
Project Name/Location:	580 Loraine Ave	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000		
Date/Time Sampled:	10/17/18 / 14:10	Certified Clean WO # :	
Canister/Tube ID:	N1446	Received PSI :	13.9
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time:	10/17/18	4:00:00PM
Prep Batch ID: 1108688	Prep Analyst:	BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	50.00	40	130	ND	ND		10/18/18	9:49	BA	435118
1,2-Dichloropropane	ETO15	50.00	38	120	ND	ND		10/18/18	9:49	BA	435118
Bromodichloromethane	ETO15	50.00	37	170	ND	ND		10/18/18	9:49	BA	435118
1,4-Dioxane	ETO15	50.00	90	180	ND	ND		10/18/18	9:49	BA	435118
trans-1,3-Dichloropropene	ETO15	50.00	53	110	ND	ND		10/18/18	9:49	BA	435118
Toluene	ETO15	50.00	38	94	ND	ND		10/18/18	9:49	BA	435118
4-Methyl-2-Pentanone (MIBK)	ETO15	50.00	37	100	ND	ND		10/18/18	9:49	BA	435118
cis-1,3-Dichloropropene	ETO15	50.00	21	110	ND	ND		10/18/18	9:49	BA	435118
Tetrachloroethylene	ETO15	50.00	73	170	6400	943.95		10/18/18	9:49	BA	435118
1,1,2-Trichloroethane	ETO15	50.00	29	140	ND	ND		10/18/18	9:49	BA	435118
Dibromochloromethane	ETO15	50.00	56	210	ND	ND		10/18/18	9:49	BA	435118
1,2-Dibromoethane (EDB)	ETO15	50.00	37	190	ND	ND		10/18/18	9:49	BA	435118
2-Hexanone	ETO15	50.00	33	100	ND	ND		10/18/18	9:49	BA	435118
Ethyl Benzene	ETO15	50.00	31	110	ND	ND		10/18/18	9:49	BA	435118
Chlorobenzene	ETO15	50.00	30	120	ND	ND		10/18/18	9:49	BA	435118
1,1,1,2-Tetrachloroethane	ETO15	50.00	42	170	ND	ND		10/18/18	9:49	BA	435118
m,p-Xylene	ETO15	50.00	49	110	ND	ND		10/18/18	9:49	BA	435118
o-Xylene	ETO15	50.00	15	110	ND	ND		10/18/18	9:49	BA	435118
Styrene	ETO15	50.00	23	110	ND	ND		10/18/18	9:49	BA	435118
Bromoform	ETO15	50.00	65	260	ND	ND		10/18/18	9:49	BA	435118
1,1,2,2-Tetrachloroethane	ETO15	50.00	41	170	ND	ND		10/18/18	9:49	BA	435118
4-Ethyl Toluene	ETO15	50.00	27	120	ND	ND		10/18/18	9:49	BA	435118
1,3,5-Trimethylbenzene	ETO15	50.00	15	120	ND	ND		10/18/18	9:49	BA	435118
1,2,4-Trimethylbenzene	ETO15	50.00	30	120	ND	ND		10/18/18	9:49	BA	435118
1,4-Dichlorobenzene	ETO15	50.00	37	150	ND	ND		10/18/18	9:49	BA	435118
1,3-Dichlorobenzene	ETO15	50.00	67	150	ND	ND		10/18/18	9:49	BA	435118
1,2-Dichlorobenzene	ETO15	50.00	53	150	ND	ND		10/18/18	9:49	BA	435118
Hexachlorobutadiene	ETO15	50.00	93	270	ND	ND		10/18/18	9:49	BA	435118
1,2,4-Trichlorobenzene	ETO15	50.00	110	190	ND	ND		10/18/18	9:49	BA	435118
Naphthalene	ETO15	50.00	64	130	ND	ND		10/18/18	9:49	BA	435118
(S) 4-Bromofluorobenzene	ETO15	50.00	50	150	94 %			10/18/18	9:49	BA	435118



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 10/17/18, 3:40 pm
Date Reported: 10/18/18

Client Sample ID:	SG-11	Lab Sample ID:	1810119-005A
Project Name/Location:	580 Loraine Ave	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000		
Date/Time Sampled:	10/17/18 / 14:30	Certified Clean WO # :	
Canister/Tube ID:	A7479	Received PSI :	12.9
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time:	10/17/18	4:00:00PM
Prep Batch ID: 1108688	Prep Analyst:	BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	25.00	39	62	ND	ND		10/17/18	22:38	BA	435118
1,1-Difluoroethane	ETO15	25.00	8.6	340	ND	ND		10/17/18	22:38	BA	435118
1,2-Dichlorotetrafluoroethane	ETO15	25.00	700	1400	ND	ND		10/17/18	22:38	BA	435118
Chloromethane	ETO15	25.00	51	100	ND	ND		10/17/18	22:38	BA	435118
Vinyl Chloride	ETO15	25.00	5.6	32	ND	ND		10/17/18	22:38	BA	435118
1,3-Butadiene	ETO15	25.00	8.5	28	ND	ND		10/17/18	22:38	BA	435118
Bromomethane	ETO15	25.00	16	49	ND	ND		10/17/18	22:38	BA	435118
Chloroethane	ETO15	25.00	20	33	ND	ND		10/17/18	22:38	BA	435118
Trichlorofluoromethane	ETO15	25.00	14	70	ND	ND		10/17/18	22:38	BA	435118
1,1-Dichloroethene	ETO15	25.00	21	50	ND	ND		10/17/18	22:38	BA	435118
Freon 113	ETO15	25.00	25	96	ND	ND		10/17/18	22:38	BA	435118
Carbon Disulfide	ETO15	25.00	9.3	39	ND	ND		10/17/18	22:38	BA	435118
2-Propanol (Isopropyl Alcohol)	ETO15	25.00	32	310	ND	ND		10/17/18	22:38	BA	435118
Methylene Chloride	ETO15	25.00	18	260	ND	ND		10/17/18	22:38	BA	435118
Acetone	ETO15	25.00	9.9	300	ND	ND		10/17/18	22:38	BA	435118
trans-1,2-Dichloroethene	ETO15	25.00	12	50	ND	ND		10/17/18	22:38	BA	435118
Hexane	ETO15	25.00	12	44	ND	ND		10/17/18	22:38	BA	435118
MTBE	ETO15	25.00	11	45	ND	ND		10/17/18	22:38	BA	435118
tert-Butanol	ETO15	25.00	15	38	ND	ND		10/17/18	22:38	BA	435118
Diisopropyl ether (DIPE)	ETO15	25.00	18	52	ND	ND		10/17/18	22:38	BA	435118
1,1-Dichloroethane	ETO15	25.00	14	51	ND	ND		10/17/18	22:38	BA	435118
ETBE	ETO15	25.00	8.2	52	ND	ND		10/17/18	22:38	BA	435118
cis-1,2-Dichloroethene	ETO15	25.00	21	50	ND	ND		10/17/18	22:38	BA	435118
Chloroform	ETO15	25.00	24	61	ND	ND		10/17/18	22:38	BA	435118
Vinyl Acetate	ETO15	25.00	19	44	ND	ND		10/17/18	22:38	BA	435118
Carbon Tetrachloride	ETO15	25.00	28	79	ND	ND		10/17/18	22:38	BA	435118
1,1,1-Trichloroethane	ETO15	25.00	20	68	ND	ND		10/17/18	22:38	BA	435118
2-Butanone (MEK)	ETO15	25.00	9.7	37	ND	ND		10/17/18	22:38	BA	435118
Ethyl Acetate	ETO15	25.00	12	45	ND	ND		10/17/18	22:38	BA	435118
Tetrahydrofuran	ETO15	25.00	11	37	ND	ND		10/17/18	22:38	BA	435118
Benzene	ETO15	25.00	11	40	ND	ND		10/17/18	22:38	BA	435118
TAME	ETO15	25.00	17	52	ND	ND		10/17/18	22:38	BA	435118
1,2-Dichloroethane (EDC)	ETO15	25.00	11	51	ND	ND		10/17/18	22:38	BA	435118



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 10/17/18, 3:40 pm
Date Reported: 10/18/18

Client Sample ID:	SG-11	Lab Sample ID:	1810119-005A
Project Name/Location:	580 Loraine Ave	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000	Certified Clean WO # :	
Date/Time Sampled:	10/17/18 / 14:30	Received PSI :	12.9
Canister/Tube ID:	A7479	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 10/17/18 4:00:00PM
Prep Batch ID: 1108688	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	25.00	20	67	ND	ND		10/17/18	22:38	BA	435118
1,2-Dichloropropane	ETO15	25.00	19	58	ND	ND		10/17/18	22:38	BA	435118
Bromodichloromethane	ETO15	25.00	19	84	ND	ND		10/17/18	22:38	BA	435118
1,4-Dioxane	ETO15	25.00	45	90	ND	ND		10/17/18	22:38	BA	435118
trans-1,3-Dichloropropene	ETO15	25.00	27	57	ND	ND		10/17/18	22:38	BA	435118
Toluene	ETO15	25.00	19	47	ND	ND		10/17/18	22:38	BA	435118
4-Methyl-2-Pentanone (MIBK)	ETO15	25.00	19	51	ND	ND		10/17/18	22:38	BA	435118
cis-1,3-Dichloropropene	ETO15	25.00	11	57	ND	ND		10/17/18	22:38	BA	435118
Tetrachloroethylene	ETO15	25.00	36	85	4100	604.72		10/17/18	22:38	BA	435118
1,1,2-Trichloroethane	ETO15	25.00	15	68	ND	ND		10/17/18	22:38	BA	435118
Dibromochloromethane	ETO15	25.00	28	110	ND	ND		10/17/18	22:38	BA	435118
1,2-Dibromoethane (EDB)	ETO15	25.00	18	96	ND	ND		10/17/18	22:38	BA	435118
2-Hexanone	ETO15	25.00	16	51	ND	ND		10/17/18	22:38	BA	435118
Ethyl Benzene	ETO15	25.00	16	54	ND	ND		10/17/18	22:38	BA	435118
Chlorobenzene	ETO15	25.00	15	58	ND	ND		10/17/18	22:38	BA	435118
1,1,1,2-Tetrachloroethane	ETO15	25.00	21	86	ND	ND		10/17/18	22:38	BA	435118
m,p-Xylene	ETO15	25.00	24	54	ND	ND		10/17/18	22:38	BA	435118
o-Xylene	ETO15	25.00	7.6	54	ND	ND		10/17/18	22:38	BA	435118
Styrene	ETO15	25.00	12	53	ND	ND		10/17/18	22:38	BA	435118
Bromoform	ETO15	25.00	33	130	ND	ND		10/17/18	22:38	BA	435118
1,1,2,2-Tetrachloroethane	ETO15	25.00	20	86	ND	ND		10/17/18	22:38	BA	435118
4-Ethyl Toluene	ETO15	25.00	14	62	ND	ND		10/17/18	22:38	BA	435118
1,3,5-Trimethylbenzene	ETO15	25.00	7.5	62	ND	ND		10/17/18	22:38	BA	435118
1,2,4-Trimethylbenzene	ETO15	25.00	15	62	ND	ND		10/17/18	22:38	BA	435118
1,4-Dichlorobenzene	ETO15	25.00	19	75	ND	ND		10/17/18	22:38	BA	435118
1,3-Dichlorobenzene	ETO15	25.00	33	75	ND	ND		10/17/18	22:38	BA	435118
1,2-Dichlorobenzene	ETO15	25.00	27	75	ND	ND		10/17/18	22:38	BA	435118
Hexachlorobutadiene	ETO15	25.00	46	130	ND	ND		10/17/18	22:38	BA	435118
1,2,4-Trichlorobenzene	ETO15	25.00	54	93	ND	ND		10/17/18	22:38	BA	435118
Naphthalene	ETO15	25.00	32	66	ND	ND		10/17/18	22:38	BA	435118
(S) 4-Bromofluorobenzene	ETO15	25.00	50	150	95 %			10/17/18	22:38	BA	435118



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 10/17/18, 3:40 pm
Date Reported: 10/18/18

Client Sample ID:	SG-12	Lab Sample ID:	1810119-006A
Project Name/Location:	580 Loraine Ave	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000		
Date/Time Sampled:	10/17/18 / 10:45	Certified Clean WO # :	
Canister/Tube ID:	6327	Received PSI :	11.2
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time:	10/17/18	4:00:00PM
Prep Batch ID: 1108688	Prep Analyst:	BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		10/18/18	13:24	BA	435118
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		10/18/18	13:24	BA	435118
1,2-Dichlorotetrafluoroethane	ETO15	1.00	28	56	ND	ND		10/18/18	13:24	BA	435118
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		10/18/18	13:24	BA	435118
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		10/18/18	13:24	BA	435118
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		10/18/18	13:24	BA	435118
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		10/18/18	13:24	BA	435118
Chloroethane	ETO15	1.00	0.81	1.3	1.3	0.49		10/18/18	13:24	BA	435118
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		10/18/18	13:24	BA	435118
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		10/18/18	13:24	BA	435118
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		10/18/18	13:24	BA	435118
Carbon Disulfide	ETO15	1.00	0.37	1.6	7.8	2.51		10/18/18	13:24	BA	435118
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		10/18/18	13:24	BA	435118
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		10/18/18	13:24	BA	435118
Acetone	ETO15	1.00	0.40	12	ND	ND		10/18/18	13:24	BA	435118
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		10/18/18	13:24	BA	435118
Hexane	ETO15	1.00	0.46	1.8	35	9.94		10/18/18	13:24	BA	435118
MTBE	ETO15	1.00	0.44	1.8	ND	ND		10/18/18	13:24	BA	435118
tert-Butanol	ETO15	1.00	0.62	1.5	ND	ND		10/18/18	13:24	BA	435118
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		10/18/18	13:24	BA	435118
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		10/18/18	13:24	BA	435118
ETBE	ETO15	1.00	0.33	2.1	ND	ND		10/18/18	13:24	BA	435118
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		10/18/18	13:24	BA	435118
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		10/18/18	13:24	BA	435118
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		10/18/18	13:24	BA	435118
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		10/18/18	13:24	BA	435118
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		10/18/18	13:24	BA	435118
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	ND	ND		10/18/18	13:24	BA	435118
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		10/18/18	13:24	BA	435118
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		10/18/18	13:24	BA	435118
Benzene	ETO15	1.00	0.44	1.6	21	6.58		10/18/18	13:24	BA	435118
TAME	ETO15	1.00	0.67	2.1	ND	ND		10/18/18	13:24	BA	435118
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		10/18/18	13:24	BA	435118



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 10/17/18, 3:40 pm
Date Reported: 10/18/18

Client Sample ID:	SG-12	Lab Sample ID:	1810119-006A
Project Name/Location:	580 Loraine Ave	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000		
Date/Time Sampled:	10/17/18 / 10:45	Certified Clean WO # :	
Canister/Tube ID:	6327	Received PSI :	11.2
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time:	10/17/18	4:00:00PM
Prep Batch ID: 1108688	Prep Analyst:	BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		10/18/18	13:24	BA	435118
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		10/18/18	13:24	BA	435118
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		10/18/18	13:24	BA	435118
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		10/18/18	13:24	BA	435118
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		10/18/18	13:24	BA	435118
Toluene	ETO15	1.00	0.75	1.9	16	4.24		10/18/18	13:24	BA	435118
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	6.3	1.54		10/18/18	13:24	BA	435118
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		10/18/18	13:24	BA	435118
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		10/18/18	13:24	BA	435118
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		10/18/18	13:24	BA	435118
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		10/18/18	13:24	BA	435118
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		10/18/18	13:24	BA	435118
2-Hexanone	ETO15	1.00	0.65	2.1	4.5	1.10		10/18/18	13:24	BA	435118
Ethyl Benzene	ETO15	1.00	0.63	2.2	4.7	1.08		10/18/18	13:24	BA	435118
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		10/18/18	13:24	BA	435118
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		10/18/18	13:24	BA	435118
m,p-Xylene	ETO15	1.00	0.98	2.2	27	6.22		10/18/18	13:24	BA	435118
o-Xylene	ETO15	1.00	0.30	2.2	7.1	1.64		10/18/18	13:24	BA	435118
Styrene	ETO15	1.00	0.46	2.1	ND	ND		10/18/18	13:24	BA	435118
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		10/18/18	13:24	BA	435118
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		10/18/18	13:24	BA	435118
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		10/18/18	13:24	BA	435118
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		10/18/18	13:24	BA	435118
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		10/18/18	13:24	BA	435118
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		10/18/18	13:24	BA	435118
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		10/18/18	13:24	BA	435118
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		10/18/18	13:24	BA	435118
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		10/18/18	13:24	BA	435118
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		10/18/18	13:24	BA	435118
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		10/18/18	13:24	BA	435118
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	93 %			10/18/18	13:24	BA	435118



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 10/17/18, 3:40 pm
Date Reported: 10/18/18

Client Sample ID:	SG-13	Lab Sample ID:	1810119-007A
Project Name/Location:	580 Loraine Ave	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000	Certified Clean WO # :	
Date/Time Sampled:	10/17/18 / 14:50	Received PSI :	14.1
Canister/Tube ID:	N1445	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 10/17/18 4:00:00PM
Prep Batch ID: 1108688	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	25.00	39	62	ND	ND		10/18/18	0:00	BA	435118
1,1-Difluoroethane	ETO15	25.00	8.6	340	ND	ND		10/18/18	0:00	BA	435118
1,2-Dichlorotetrafluoroethane	ETO15	25.00	700	1400	ND	ND		10/18/18	0:00	BA	435118
Chloromethane	ETO15	25.00	51	100	ND	ND		10/18/18	0:00	BA	435118
Vinyl Chloride	ETO15	25.00	5.6	32	ND	ND		10/18/18	0:00	BA	435118
1,3-Butadiene	ETO15	25.00	8.5	28	ND	ND		10/18/18	0:00	BA	435118
Bromomethane	ETO15	25.00	16	49	ND	ND		10/18/18	0:00	BA	435118
Chloroethane	ETO15	25.00	20	33	ND	ND		10/18/18	0:00	BA	435118
Trichlorofluoromethane	ETO15	25.00	14	70	ND	ND		10/18/18	0:00	BA	435118
1,1-Dichloroethene	ETO15	25.00	21	50	ND	ND		10/18/18	0:00	BA	435118
Freon 113	ETO15	25.00	25	96	ND	ND		10/18/18	0:00	BA	435118
Carbon Disulfide	ETO15	25.00	9.3	39	ND	ND		10/18/18	0:00	BA	435118
2-Propanol (Isopropyl Alcohol)	ETO15	25.00	32	310	ND	ND		10/18/18	0:00	BA	435118
Methylene Chloride	ETO15	25.00	18	260	ND	ND		10/18/18	0:00	BA	435118
Acetone	ETO15	25.00	9.9	300	ND	ND		10/18/18	0:00	BA	435118
trans-1,2-Dichloroethene	ETO15	25.00	12	50	ND	ND		10/18/18	0:00	BA	435118
Hexane	ETO15	25.00	12	44	ND	ND		10/18/18	0:00	BA	435118
MTBE	ETO15	25.00	11	45	ND	ND		10/18/18	0:00	BA	435118
tert-Butanol	ETO15	25.00	15	38	ND	ND		10/18/18	0:00	BA	435118
Diisopropyl ether (DIPE)	ETO15	25.00	18	52	ND	ND		10/18/18	0:00	BA	435118
1,1-Dichloroethane	ETO15	25.00	14	51	ND	ND		10/18/18	0:00	BA	435118
ETBE	ETO15	25.00	8.2	52	ND	ND		10/18/18	0:00	BA	435118
cis-1,2-Dichloroethene	ETO15	25.00	21	50	ND	ND		10/18/18	0:00	BA	435118
Chloroform	ETO15	25.00	24	61	ND	ND		10/18/18	0:00	BA	435118
Vinyl Acetate	ETO15	25.00	19	44	ND	ND		10/18/18	0:00	BA	435118
Carbon Tetrachloride	ETO15	25.00	28	79	ND	ND		10/18/18	0:00	BA	435118
1,1,1-Trichloroethane	ETO15	25.00	20	68	ND	ND		10/18/18	0:00	BA	435118
2-Butanone (MEK)	ETO15	25.00	9.7	37	ND	ND		10/18/18	0:00	BA	435118
Ethyl Acetate	ETO15	25.00	12	45	ND	ND		10/18/18	0:00	BA	435118
Tetrahydrofuran	ETO15	25.00	11	37	ND	ND		10/18/18	0:00	BA	435118
Benzene	ETO15	25.00	11	40	ND	ND		10/18/18	0:00	BA	435118
TAME	ETO15	25.00	17	52	ND	ND		10/18/18	0:00	BA	435118
1,2-Dichloroethane (EDC)	ETO15	25.00	11	51	ND	ND		10/18/18	0:00	BA	435118



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 10/17/18, 3:40 pm
Date Reported: 10/18/18

Client Sample ID:	SG-13	Lab Sample ID:	1810119-007A
Project Name/Location:	580 Loraine Ave	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000	Certified Clean WO # :	
Date/Time Sampled:	10/17/18 / 14:50	Received PSI :	14.1
Canister/Tube ID:	N1445	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 10/17/18 4:00:00PM
Prep Batch ID: 1108688	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	25.00	20	67	74	13.78		10/18/18	0:00	BA	435118
1,2-Dichloropropane	ETO15	25.00	19	58	ND	ND		10/18/18	0:00	BA	435118
Bromodichloromethane	ETO15	25.00	19	84	ND	ND		10/18/18	0:00	BA	435118
1,4-Dioxane	ETO15	25.00	45	90	ND	ND		10/18/18	0:00	BA	435118
trans-1,3-Dichloropropene	ETO15	25.00	27	57	ND	ND		10/18/18	0:00	BA	435118
Toluene	ETO15	25.00	19	47	ND	ND		10/18/18	0:00	BA	435118
4-Methyl-2-Pentanone (MIBK)	ETO15	25.00	19	51	ND	ND		10/18/18	0:00	BA	435118
cis-1,3-Dichloropropene	ETO15	25.00	11	57	ND	ND		10/18/18	0:00	BA	435118
Tetrachloroethylene	ETO15	25.00	36	85	3900	575.22		10/18/18	0:00	BA	435118
1,1,2-Trichloroethane	ETO15	25.00	15	68	ND	ND		10/18/18	0:00	BA	435118
Dibromochloromethane	ETO15	25.00	28	110	ND	ND		10/18/18	0:00	BA	435118
1,2-Dibromoethane (EDB)	ETO15	25.00	18	96	ND	ND		10/18/18	0:00	BA	435118
2-Hexanone	ETO15	25.00	16	51	ND	ND		10/18/18	0:00	BA	435118
Ethyl Benzene	ETO15	25.00	16	54	ND	ND		10/18/18	0:00	BA	435118
Chlorobenzene	ETO15	25.00	15	58	ND	ND		10/18/18	0:00	BA	435118
1,1,1,2-Tetrachloroethane	ETO15	25.00	21	86	ND	ND		10/18/18	0:00	BA	435118
m,p-Xylene	ETO15	25.00	24	54	55	12.67		10/18/18	0:00	BA	435118
o-Xylene	ETO15	25.00	7.6	54	ND	ND		10/18/18	0:00	BA	435118
Styrene	ETO15	25.00	12	53	ND	ND		10/18/18	0:00	BA	435118
Bromoform	ETO15	25.00	33	130	ND	ND		10/18/18	0:00	BA	435118
1,1,2,2-Tetrachloroethane	ETO15	25.00	20	86	ND	ND		10/18/18	0:00	BA	435118
4-Ethyl Toluene	ETO15	25.00	14	62	ND	ND		10/18/18	0:00	BA	435118
1,3,5-Trimethylbenzene	ETO15	25.00	7.5	62	ND	ND		10/18/18	0:00	BA	435118
1,2,4-Trimethylbenzene	ETO15	25.00	15	62	ND	ND		10/18/18	0:00	BA	435118
1,4-Dichlorobenzene	ETO15	25.00	19	75	ND	ND		10/18/18	0:00	BA	435118
1,3-Dichlorobenzene	ETO15	25.00	33	75	ND	ND		10/18/18	0:00	BA	435118
1,2-Dichlorobenzene	ETO15	25.00	27	75	ND	ND		10/18/18	0:00	BA	435118
Hexachlorobutadiene	ETO15	25.00	46	130	ND	ND		10/18/18	0:00	BA	435118
1,2,4-Trichlorobenzene	ETO15	25.00	54	93	ND	ND		10/18/18	0:00	BA	435118
Naphthalene	ETO15	25.00	32	66	ND	ND		10/18/18	0:00	BA	435118
(S) 4-Bromofluorobenzene	ETO15	25.00	50	150	95 %			10/18/18	0:00	BA	435118



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 10/17/18, 3:40 pm
Date Reported: 10/18/18

Client Sample ID:	SG-14	Lab Sample ID:	1810119-008A
Project Name/Location:	580 Loraine Ave	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000	Certified Clean WO # :	
Date/Time Sampled:	10/17/18 / 14:00	Received PSI :	13.6
Canister/Tube ID:	A11712	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time:	10/17/18	4:00:00PM
Prep Batch ID: 1108688	Prep Analyst:	BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	10.00	16	25	ND	ND		10/18/18	11:11	BA	435118
1,1-Difluoroethane	ETO15	10.00	3.5	140	ND	ND		10/18/18	11:11	BA	435118
1,2-Dichlorotetrafluoroethane	ETO15	10.00	280	560	ND	ND		10/18/18	11:11	BA	435118
Chloromethane	ETO15	10.00	20	41	ND	ND		10/18/18	11:11	BA	435118
Vinyl Chloride	ETO15	10.00	2.3	13	ND	ND		10/18/18	11:11	BA	435118
1,3-Butadiene	ETO15	10.00	3.4	11	ND	ND		10/18/18	11:11	BA	435118
Bromomethane	ETO15	10.00	6.6	19	ND	ND		10/18/18	11:11	BA	435118
Chloroethane	ETO15	10.00	8.1	13	ND	ND		10/18/18	11:11	BA	435118
Trichlorofluoromethane	ETO15	10.00	5.6	28	ND	ND		10/18/18	11:11	BA	435118
1,1-Dichloroethene	ETO15	10.00	8.3	20	ND	ND		10/18/18	11:11	BA	435118
Freon 113	ETO15	10.00	10	38	ND	ND		10/18/18	11:11	BA	435118
Carbon Disulfide	ETO15	10.00	3.7	16	ND	ND		10/18/18	11:11	BA	435118
2-Propanol (Isopropyl Alcohol)	ETO15	10.00	13	120	ND	ND		10/18/18	11:11	BA	435118
Methylene Chloride	ETO15	10.00	7.0	100	ND	ND		10/18/18	11:11	BA	435118
Acetone	ETO15	10.00	4.0	120	ND	ND		10/18/18	11:11	BA	435118
trans-1,2-Dichloroethene	ETO15	10.00	4.8	20	ND	ND		10/18/18	11:11	BA	435118
Hexane	ETO15	10.00	4.6	18	ND	ND		10/18/18	11:11	BA	435118
MTBE	ETO15	10.00	4.4	18	ND	ND		10/18/18	11:11	BA	435118
tert-Butanol	ETO15	10.00	6.2	15	ND	ND		10/18/18	11:11	BA	435118
Diisopropyl ether (DIPE)	ETO15	10.00	7.4	21	ND	ND		10/18/18	11:11	BA	435118
1,1-Dichloroethane	ETO15	10.00	5.4	20	ND	ND		10/18/18	11:11	BA	435118
ETBE	ETO15	10.00	3.3	21	ND	ND		10/18/18	11:11	BA	435118
cis-1,2-Dichloroethene	ETO15	10.00	8.3	20	ND	ND		10/18/18	11:11	BA	435118
Chloroform	ETO15	10.00	9.7	24	ND	ND		10/18/18	11:11	BA	435118
Vinyl Acetate	ETO15	10.00	7.6	18	ND	ND		10/18/18	11:11	BA	435118
Carbon Tetrachloride	ETO15	10.00	11	31	ND	ND		10/18/18	11:11	BA	435118
1,1,1-Trichloroethane	ETO15	10.00	7.9	27	ND	ND		10/18/18	11:11	BA	435118
2-Butanone (MEK)	ETO15	10.00	3.9	15	ND	ND		10/18/18	11:11	BA	435118
Ethyl Acetate	ETO15	10.00	4.8	18	ND	ND		10/18/18	11:11	BA	435118
Tetrahydrofuran	ETO15	10.00	4.5	15	ND	ND		10/18/18	11:11	BA	435118
Benzene	ETO15	10.00	4.4	16	ND	ND		10/18/18	11:11	BA	435118
TAME	ETO15	10.00	6.7	21	ND	ND		10/18/18	11:11	BA	435118
1,2-Dichloroethane (EDC)	ETO15	10.00	4.2	20	ND	ND		10/18/18	11:11	BA	435118



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 10/17/18, 3:40 pm
Date Reported: 10/18/18

Client Sample ID:	SG-14	Lab Sample ID:	1810119-008A
Project Name/Location:	580 Loraine Ave	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000		
Date/Time Sampled:	10/17/18 / 14:00	Certified Clean WO #:	
Canister/Tube ID:	A11712	Received PSI :	13.6
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time:	10/17/18	4:00:00PM
Prep Batch ID: 1108688	Prep Analyst:	BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	10.00	8.1	27	ND	ND		10/18/18	11:11	BA	435118
1,2-Dichloropropane	ETO15	10.00	7.6	23	ND	ND		10/18/18	11:11	BA	435118
Bromodichloromethane	ETO15	10.00	7.4	34	ND	ND		10/18/18	11:11	BA	435118
1,4-Dioxane	ETO15	10.00	18	36	ND	ND		10/18/18	11:11	BA	435118
trans-1,3-Dichloropropene	ETO15	10.00	11	23	ND	ND		10/18/18	11:11	BA	435118
Toluene	ETO15	10.00	7.5	19	ND	ND		10/18/18	11:11	BA	435118
4-Methyl-2-Pentanone (MIBK)	ETO15	10.00	7.5	21	ND	ND		10/18/18	11:11	BA	435118
cis-1,3-Dichloropropene	ETO15	10.00	4.2	23	ND	ND		10/18/18	11:11	BA	435118
Tetrachloroethylene	ETO15	10.00	15	34	870	128.32		10/18/18	11:11	BA	435118
1,1,2-Trichloroethane	ETO15	10.00	5.8	27	ND	ND		10/18/18	11:11	BA	435118
Dibromochloromethane	ETO15	10.00	11	43	ND	ND		10/18/18	11:11	BA	435118
1,2-Dibromoethane (EDB)	ETO15	10.00	7.4	38	ND	ND		10/18/18	11:11	BA	435118
2-Hexanone	ETO15	10.00	6.5	21	ND	ND		10/18/18	11:11	BA	435118
Ethyl Benzene	ETO15	10.00	6.3	22	ND	ND		10/18/18	11:11	BA	435118
Chlorobenzene	ETO15	10.00	6.0	23	ND	ND		10/18/18	11:11	BA	435118
1,1,1,2-Tetrachloroethane	ETO15	10.00	8.4	34	ND	ND		10/18/18	11:11	BA	435118
m,p-Xylene	ETO15	10.00	9.8	22	ND	ND		10/18/18	11:11	BA	435118
o-Xylene	ETO15	10.00	3.0	22	ND	ND		10/18/18	11:11	BA	435118
Styrene	ETO15	10.00	4.6	21	ND	ND		10/18/18	11:11	BA	435118
Bromoform	ETO15	10.00	13	52	ND	ND		10/18/18	11:11	BA	435118
1,1,2,2-Tetrachloroethane	ETO15	10.00	8.2	34	ND	ND		10/18/18	11:11	BA	435118
4-Ethyl Toluene	ETO15	10.00	5.5	25	ND	ND		10/18/18	11:11	BA	435118
1,3,5-Trimethylbenzene	ETO15	10.00	3.0	25	ND	ND		10/18/18	11:11	BA	435118
1,2,4-Trimethylbenzene	ETO15	10.00	6.0	25	ND	ND		10/18/18	11:11	BA	435118
1,4-Dichlorobenzene	ETO15	10.00	7.5	30	ND	ND		10/18/18	11:11	BA	435118
1,3-Dichlorobenzene	ETO15	10.00	13	30	ND	ND		10/18/18	11:11	BA	435118
1,2-Dichlorobenzene	ETO15	10.00	11	30	ND	ND		10/18/18	11:11	BA	435118
Hexachlorobutadiene	ETO15	10.00	19	53	ND	ND		10/18/18	11:11	BA	435118
1,2,4-Trichlorobenzene	ETO15	10.00	22	37	ND	ND		10/18/18	11:11	BA	435118
Naphthalene	ETO15	10.00	13	26	ND	ND		10/18/18	11:11	BA	435118
(S) 4-Bromofluorobenzene	ETO15	10.00	50	150	94 %			10/18/18	11:11	BA	435118



MB Summary Report

Work Order:	1810119	Prep Method:	TO15-P	Prep Date:	10/17/18	Prep Batch:	1108688
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	10/17/2018	Analytical Batch:	435118
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	0.18		
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	0.22		
1,2-Dichloroethane (EDC)	0.10	0.50	ND		
Trichloroethylene	0.15	0.50	0.33		
1,2-Dichloropropane	0.17	0.50	ND		
Bromodichloromethane	0.11	0.50	0.23		
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	0.21		
cis-1,3-Dichloropropene	0.093	0.50	ND		
Tetrachloroethylene	0.22	0.50	ND		



MB Summary Report

Work Order:	1810119	Prep Method:	TO15-P	Prep Date:	10/17/18	Prep Batch:	1108688
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	10/17/2018	Analytical Batch:	435118
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
1,1,2-Trichloroethane	0.11	0.50	ND		
Dibromochloromethane	0.13	0.50	ND		
1,2-Dibromoethane (EDB)	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-Tetrachloroethane	0.12	0.50	ND		
m,p-Xylene	0.23	0.50	ND		
o-Xylene	0.070	0.50	ND		
Styrene	0.11	0.50	ND		
Bromoform	0.13	0.50	ND		
1,1,2,2-Tetrachloroethane	0.12	0.50	ND		
4-Ethyl Toluene	0.11	0.50	ND		
1,3,5-Trimethylbenzene	0.061	0.50	ND		
1,2,4-Trimethylbenzene	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-Trichlorobenzene	0.29	0.50	ND		
Naphthalene	0.24	0.50	ND		
(S) 4-Bromofluorobenzene			91		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1810119	Prep Method:	TO15-P	Prep Date:	10/17/18	Prep Batch:	1108688
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	10/17/2018	Analytical Batch:	435118
Units:	ppbv						

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	86.1	85.4	0.875	65 - 135	30	
Benzene	0.14	0.50	ND	8.00	86.6	83.4	3.82	65 - 135	30	
Trichloroethylene	0.15	0.50	ND	8.00	89.4	91.3	1.94	65 - 135	30	
Toluene	0.20	0.50	ND	8.00	86.2	86.6	0.434	65 - 135	30	
Chlorobenzene	0.13	0.50	ND	8.00	93.8	88.1	6.19	65 - 135	30	
(S) 4-Bromofluorobenzene				20.0	109	94.3		50 - 150		



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 100cm ² 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 than 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.



Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Date and Time Received: 10/17/2018 3:40:00PM

Project Name: 580 Loraine Ave

Received By: Navin Ghodasara

Work Order No.: 1810119

Physically Logged By: Navin Ghodasara

Checklist Completed By: Navin Ghodasara

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present?	<u>Yes</u>
Chain of custody signed when relinquished and received?	<u>Yes</u>
Chain of custody agrees with sample labels?	<u>Yes</u>
Custody seals intact on sample bottles?	<u>Not Present</u>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	<u>Not Present</u>
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?	<u>Yes</u>

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	<u>Yes</u>	
Container/Temp Blank temperature in compliance?		Temperature: <u> °C</u>
Water-VOA vials have zero headspace?	<u>No VOA vials submitted</u>	
Water-pH acceptable upon receipt?	<u>N/A</u>	
pH Checked by: na		pH Adjusted by: na

Comments:

Air samples received at ambient temperature.



Login Summary Report

Client ID: TL5123 **Engeo (San Ramon)** **QC Level:** II
Project Name: 580 Loraine Ave **TAT Requested:** 1 Day Rush:1
Project # : 14121.001.000 **Date Received:** 10/17/2018
Report Due Date: 10/18/2018 **Time Received:** 3:40 pm

Comments:

Work Order # : **1810119**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1810119-001A	SG-7	10/17/18 14:35	Air				VOC_A_TO15	
<u>Sample Note:</u>	RUSH 1 Day!!!!	TO-15. 1,1-DFE-leak check compound.						
1810119-002A	SG-8	10/17/18 11:00	Air				VOC_A_TO15	
1810119-003A	SG-9	10/17/18 10:40	Air				VOC_A_TO15	
1810119-004A	SG-10	10/17/18 14:10	Air				VOC_A_TO15	
1810119-005A	SG-11	10/17/18 14:30	Air				VOC_A_TO15	
1810119-006A	SG-12	10/17/18 10:45	Air				VOC_A_TO15	
1810119-007A	SG-13	10/17/18 14:50	Air				VOC_A_TO15	
1810119-008A	SG-14	10/17/18 14:00	Air				VOC_A_TO15	



CHAIN OF CUSTODY RECORD

1810119

PROJECT NUMBER 14121.001.000		PROJECT NAME 580 Lorraine Avenue						REMARKS REQUIRED DETECTION LIMITS							
SAMPLED BY: (SIGNATURE/PRINT) Cody Johnson															
PROJECT MANAGER: (SIGNATURE/PRINT) Divya Bhargava															
ROUTING: E-MAIL Dbhargava@engeo.com CJohnson@engeo.com		HARD COPY													
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	VOCs (TO-15)	VOCs (B260)	DFA						
SG-7	10/17/2018	2:35	Gas	1	canister	--	x	x	x	-001A					
SG-8	10/17/2018	11:00	Gas	1	canister	--	x	x	x	-002A					
SG-9	10/17/2018	10:40	Gas	1	canister	--	x	x	x	-003A					
SG-10	10/17/2018	2:10	Gas	1	canister	--	x	x	x	-004A					
SG-11	10/17/2018	2:30	Gas	1	canister	--	x	x	x	-005A					
SG-12	10/17/2018	10:45	Gas	1	canister	--	x	x	x	-006A					
SG-13	10/17/2018	2:50	Gas	1	canister	--	x	x	x	-007A					
SG-14	10/17/2018	2:00	Gas	1	canister	--	x	x	x	-008A					
GW-8	10/17/2018	12:30	liquid	3	jar	HCL	x	x	x	-009A	Temp 60 ^o C	#2			
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)					
		10/17 15:40		NAVIN G. 											
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)					
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE/TIME		REMARKS							
								Standard TAT							
										24 hour TAT					
												DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES			

EN GEO
INCORPORATED

2010 CROW CANYON PLACE SUITE 250
SAN RAMON, CALIFORNIA 94583
(925) 866-9000 FAX (925) 866-0199
WWW.ENGEOT.COM

D/C



Engeo (San Ramon)
2010 Crow Canyon Place, #250
San Ramon, California 94583
Tel: (925) 866-9000
Fax: (925) 866-0199
RE: 580 Loraine Ave

Work Order No.: 1810120

Dear Divya Bhargava:

Torrent Laboratory, Inc. received 1 sample(s) on October 17, 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.

A handwritten signature in blue ink that appears to read "Patti L. Sandrock".

Patti L Sandrock
QA Officer

October 18, 2018

Date



Date: 10/18/2018

Client: Engeo (San Ramon)

Project: 580 Loraine Ave

Work Order: 1810120

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.



Sample Result Summary

Report prepared for: Divya Bhargava
Engeo (San Ramon) **Date Received:** 10/17/18
Date Reported: 10/18/18

GW-8

1810120-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Tetrachloroethylene	SW8260B	1	0.24	0.50	0.92	ug/L



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 10/17/18, 3:40 pm
Date Reported: 10/18/18

Client Sample ID:	GW-8	Lab Sample ID:	1810120-001A
Project Name/Location:	580 Loraine Ave	Sample Matrix:	Groundwater
Project Number:	14121.001.000		
Date/Time Sampled:	10/17/18 / 12:30		
SDG:			

Prep Method:	5030VOC	Prep Batch Date/Time:	10/17/18	9:12:00AM
Prep Batch ID:	1108687	Prep Analyst:	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	10/17/18	18:21	BP	435117
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	10/17/18	18:21	BP	435117
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	10/17/18	18:21	BP	435117
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	10/17/18	18:21	BP	435117
tert-Butanol	SW8260B	1	7.4	10	ND		ug/L	10/17/18	18:21	BP	435117
Diisopropyl ether (DIPE)	SW8260B	1	0.12	0.50	ND		ug/L	10/17/18	18:21	BP	435117
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	10/17/18	18:21	BP	435117
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	10/17/18	18:21	BP	435117
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	10/17/18	18:21	BP	435117
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	10/17/18	18:21	BP	435117
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	10/17/18	18:21	BP	435117
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Benzene	SW8260B	1	0.16	0.50	ND		ug/L	10/17/18	18:21	BP	435117
TAME	SW8260B	1	0.072	0.50	ND		ug/L	10/17/18	18:21	BP	435117
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	10/17/18	18:21	BP	435117
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	10/17/18	18:21	BP	435117
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Tetrachloroethylene	SW8260B	1	0.24	0.50	0.92		ug/L	10/17/18	18:21	BP	435117
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	10/17/18	18:21	BP	435117
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	10/17/18	18:21	BP	435117
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	10/17/18	18:21	BP	435117



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 10/17/18, 3:40 pm
Date Reported: 10/18/18

Client Sample ID:	GW-8	Lab Sample ID:	1810120-001A
Project Name/Location:	580 Loraine Ave	Sample Matrix:	Groundwater
Project Number:	14121.001.000		
Date/Time Sampled:	10/17/18 / 12:30		
SDG:			

Prep Method:	5030VOC	Prep Batch Date/Time:	10/17/18	9:12:00AM
Prep Batch ID:	1108687	Prep Analyst:	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Ethyl Benzene	SW8260B	1	0.20	0.50	ND		ug/L	10/17/18	18:21	BP	435117
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	10/17/18	18:21	BP	435117
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	10/17/18	18:21	BP	435117
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	10/17/18	18:21	BP	435117
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	10/17/18	18:21	BP	435117
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	10/17/18	18:21	BP	435117
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	10/17/18	18:21	BP	435117
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	10/17/18	18:21	BP	435117
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	10/17/18	18:21	BP	435117
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	10/17/18	18:21	BP	435117
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	10/17/18	18:21	BP	435117
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	10/17/18	18:21	BP	435117
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	10/17/18	18:21	BP	435117
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	10/17/18	18:21	BP	435117
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	10/17/18	18:21	BP	435117
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	10/17/18	18:21	BP	435117
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	10/17/18	18:21	BP	435117
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	10/17/18	18:21	BP	435117
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	10/17/18	18:21	BP	435117
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	10/17/18	18:21	BP	435117
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	10/17/18	18:21	BP	435117
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	10/17/18	18:21	BP	435117
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	10/17/18	18:21	BP	435117
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	10/17/18	18:21	BP	435117
(S) Dibromofluoromethane	SW8260B		61.2 - 131		115		%	10/17/18	18:21	BP	435117
(S) Toluene-d8	SW8260B		75.1 - 127		107		%	10/17/18	18:21	BP	435117
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		103		%	10/17/18	18:21	BP	435117



MB Summary Report

Work Order:	1810120	Prep Method:	5030VOC	Prep Date:	10/17/18	Prep Batch:	1108687
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	10/17/2018	Analytical Batch:	435117
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		



MB Summary Report

Work Order:	1810120	Prep Method:	5030VOC	Prep Date:	10/17/18	Prep Batch:	1108687
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	10/17/2018	Analytical Batch:	435117
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Styrene	0.11	0.50	ND		
Bromoform	0.076	0.50	ND		
Isopropyl Benzene	0.22	0.50	ND		
n-Propylbenzene	0.30	0.50	ND		
Bromobenzene	0.15	0.50	ND		
1,1,2,2-Tetrachloroethane	0.079	0.50	ND		
2-Chlorotoluene	0.25	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	0.34		
n-Butylbenzene	0.27	0.50	ND		
1,2-Dichlorobenzene	0.16	0.50	0.43		
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) Dibromofluoromethane			113		
(S) Toluene-d8			104		
(S) 4-Bromofluorobenzene			94.2		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1810120	Prep Method:	5030VOC	Prep Date:	10/17/18	Prep Batch:	1108687
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	10/17/2018	Analytical Batch:	435117
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	108	106	1.57	61.4 - 129	30	
Benzene	0.16	0.50	ND	17.9	107	106	1.57	66.9 - 140	30	
Trichloroethylene	0.15	0.50	ND	17.9	111	113	2.49	69.3 - 144	30	
Toluene	0.14	0.50	ND	17.9	112	113	1.49	76.6 - 123	30	
Chlorobenzene	0.16	0.50	ND	17.9	106	108	2.09	73.9 - 137	30	
(S) Dibromofluoromethane				17.9	109	108		61.2 - 131		
(S) Toluene-d8				17.9	112	115		75.1 - 127		
(S) 4-Bromofluorobenzene				17.9	101	102		64.1 - 120		



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 100cm ² 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 than 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.



Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Date and Time Received: 10/17/2018 3:40:00PM

Project Name: 580 Loraine Ave

Received By: Navin Ghodasara

Work Order No.: 1810120

Physically Logged By: Navin Ghodasara

Checklist Completed By: Navin Ghodasara

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?

Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present

Shipping Container/Cooler In Good Condition? Yes

Samples in proper container/bottle? Yes

Samples containers intact? Yes

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? Yes Temperature: 6.0 °C

Water-VOA vials have zero headspace? Yes

Water-pH acceptable upon receipt? N/A

pH Checked by: na pH Adjusted by: na

Comments:



Login Summary Report

Client ID: TL5123 **Engeo (San Ramon)** **QC Level:** II
Project Name: 580 Loraine Ave **TAT Requested:** 1 Day Rush:1
Project # : 14121.001.000 **Date Received:** 10/17/2018
Report Due Date: 10/18/2018 **Time Received:** 3:40 pm

Comments:

Work Order # : **1810120**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1810120-001A	GW-8	10/17/18 12:30	Water	12/01/18			VOC_W_8260B	

Sample Note: RUSH 1 Day!!!! VOCs.



CHAIN OF CUSTODY RECORD

1810120

PROJECT NUMBER 14121.001.000		PROJECT NAME 580 Lorraine Avenue						REMARKS REQUIRED DETECTION LIMITS				
SAMPLED BY: (SIGNATURE/PRINT) Cody Johnson												
PROJECT MANAGER: (SIGNATURE/PRINT) Divya Bhargava												
ROUTING E-MAIL: Dbhargava@engeo.com Cjohnson@engeo.com												
HARD COPY												
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE				VOCs (TO-15)	VOCs (82610)	DFA
SG-7	10/17/2018	2:35	Gas	1	canister	-	x			x	x	-001A
SG-8	10/17/2018	11:00	Gas	1	canister	-	x			x	x	-002A
SG-9	10/17/2018	10:40	Gas	1	canister	-	x			x	x	-003A
SG-10	10/17/2018	2:10	Gas	1	canister	-	x	x	x	-004A		
SG-11	10/17/2018	2:30	Gas	1	canister	-	x	x	x	-005A		
SG-12	10/17/2018	10:45	Gas	1	canister	-	x	x	x	-006A		
SG-13	10/17/2018	2:50	Gas	1	canister	-	x	x	x	-007A		
SG-14	10/17/2018	2:00	Gas	1	canister	-	x	x	x	-008A		
GW-8	10/17/2018	12:30	liquid	3	jar	HCL	x	x	x	-009A -001A		
RUSH 1 DAY												
RELINQUISHED BY: (SIGNATURE)			DATE/TIME	RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)			
			10/17 10:40									
RELINQUISHED BY: (SIGNATURE)			DATE/TIME	RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)			
RELINQUISHED BY: (SIGNATURE)			DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE/TIME	REMARKS					
							Standard TAT					
24 hour TAT												
DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES												

EN GEO
INCORPORATED

2010 CROW CANYON PLACE SUITE 250
SAN RAMON, CALIFORNIA 94583
(925) 866-9000 FAX (925) 866-0199

WWW.ENGEOP.COM

D/C



Engeo (San Ramon)
2010 Crow Canyon Place, #250
San Ramon, California 94583
Tel: (925) 866-9000
Fax: (925) 866-0199
RE: 580 Lorraine

Work Order No.: 1804047

Dear Divya Bhargava:

Torrent Laboratory, Inc. received 5 sample(s) on April 05, 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.

A handwritten signature in blue ink that appears to read "Belinda Vega".

Belinda Vega
Vice President of Operations

April 10, 2018

Date



Date: 4/10/2018

Client: Engeo (San Ramon)

Project: 580 Lorraine

Work Order: 1804047

CASE 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.



Sample Result Summary

Report prepared for: Divya Bhargava
Engeo (San Ramon) **Date Received:** 04/05/18
Date Reported: 04/10/18

SG-2

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Tetrachloroethylene	ETO15	2000	2900	6800	850000
TPH-Gasoline	TO-15	2000	81000	350000	862000

SG-6

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Ethyl Benzene	ETO15	12.5	7.9	27	730
m,p-Xylene	ETO15	12.5	12	27	3900
o-Xylene	ETO15	12.5	3.8	27	1500
TPH-Gasoline	TO-15	12.5	500	2200	11700

SG-4

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Carbon Disulfide	ETO15	1	0.37	1.6	37
Acetone	ETO15	1	0.40	12	44
1,1,1-Trichloroethane	ETO15	1	0.79	2.7	2.9
2-Butanone (MEK)	ETO15	1	0.39	1.5	10
Benzene	ETO15	1	0.44	1.6	8.3
Toluene	ETO15	1	0.75	1.9	16
Tetrachloroethylene	ETO15	1	1.5	3.4	29
Ethyl Benzene	ETO15	1	0.63	2.2	25
m,p-Xylene	ETO15	1	0.98	2.2	100
o-Xylene	ETO15	1	0.30	2.2	37
TPH-Gasoline	TO-15	1	40	180	1580

SG-1

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Tetrachloroethylene	ETO15	200	290	680	49000
TPH-Gasoline	TO-15	200	8100	35000	65400

SG-3

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Tetrachloroethylene	ETO15	1000	1500	3400	120000
TPH-Gasoline	TO-15	1000	40000	180000	179000



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	SG-2	Lab Sample ID:	1804047-001A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000	Certified Clean WO # :	
Date/Time Sampled:	04/05/18 / 13:43	Received PSI :	12.0
Canister/Tube ID:	N1425	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 4/8/18	10:00:00PM
Prep Batch ID: 1104099	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	2,000	3100	5000	ND	ND		04/09/18	15:23	BA	430850
1,1-Difluoroethane	ETO15	2,000	690	27000	ND	ND		04/09/18	15:23	BA	430850
1,2-Dichlorotetrafluoroethane	ETO15	2,000	56000	110000	ND	ND		04/09/18	15:23	BA	430850
Chloromethane	ETO15	2,000	4100	8300	ND	ND		04/09/18	15:23	BA	430850
Vinyl Chloride	ETO15	2,000	450	2600	ND	ND		04/09/18	15:23	BA	430850
1,3-Butadiene	ETO15	2,000	680	2200	ND	ND		04/09/18	15:23	BA	430850
Bromomethane	ETO15	2,000	1300	3900	ND	ND		04/09/18	15:23	BA	430850
Chloroethane	ETO15	2,000	1600	2600	ND	ND		04/09/18	15:23	BA	430850
Trichlorofluoromethane	ETO15	2,000	1100	5600	ND	ND		04/09/18	15:23	BA	430850
1,1-Dichloroethene	ETO15	2,000	1700	4000	ND	ND		04/09/18	15:23	BA	430850
Freon 113	ETO15	2,000	2000	7700	ND	ND		04/09/18	15:23	BA	430850
Carbon Disulfide	ETO15	2,000	750	3100	ND	ND		04/09/18	15:23	BA	430850
2-Propanol (Isopropyl Alcohol)	ETO15	2,000	2600	25000	ND	ND		04/09/18	15:23	BA	430850
Methylene Chloride	ETO15	2,000	1400	21000	ND	ND		04/09/18	15:23	BA	430850
Acetone	ETO15	2,000	790	24000	ND	ND		04/09/18	15:23	BA	430850
trans-1,2-Dichloroethene	ETO15	2,000	950	4000	ND	ND		04/09/18	15:23	BA	430850
Hexane	ETO15	2,000	930	3500	ND	ND		04/09/18	15:23	BA	430850
MTBE	ETO15	2,000	890	3600	ND	ND		04/09/18	15:23	BA	430850
tert-Butanol	ETO15	2,000	1200	3000	ND	ND		04/09/18	15:23	BA	430850
Diisopropyl ether (DIPE)	ETO15	2,000	1500	4200	ND	ND		04/09/18	15:23	BA	430850
1,1-Dichloroethane	ETO15	2,000	1100	4100	ND	ND		04/09/18	15:23	BA	430850
ETBE	ETO15	2,000	650	4200	ND	ND		04/09/18	15:23	BA	430850
cis-1,2-Dichloroethene	ETO15	2,000	1700	4000	ND	ND		04/09/18	15:23	BA	430850
Chloroform	ETO15	2,000	1900	4900	ND	ND		04/09/18	15:23	BA	430850
Vinyl Acetate	ETO15	2,000	1500	3500	ND	ND		04/09/18	15:23	BA	430850
Carbon Tetrachloride	ETO15	2,000	2200	6300	ND	ND		04/09/18	15:23	BA	430850
1,1,1-Trichloroethane	ETO15	2,000	1600	5500	ND	ND		04/09/18	15:23	BA	430850
2-Butanone (MEK)	ETO15	2,000	780	3000	ND	ND		04/09/18	15:23	BA	430850
Ethyl Acetate	ETO15	2,000	950	3600	ND	ND		04/09/18	15:23	BA	430850
Tetrahydrofuran	ETO15	2,000	900	3000	ND	ND		04/09/18	15:23	BA	430850
Benzene	ETO15	2,000	870	3200	ND	ND		04/09/18	15:23	BA	430850
TAME	ETO15	2,000	1300	4200	ND	ND		04/09/18	15:23	BA	430850
1,2-Dichloroethane (EDC)	ETO15	2,000	840	4100	ND	ND		04/09/18	15:23	BA	430850



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	SG-2	Lab Sample ID:	1804047-001A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 13:43	Certified Clean WO # :	
Canister/Tube ID:	N1425	Received PSI :	12.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time:	4/8/18	10:00:00PM
Prep Batch ID: 1104099	Prep Analyst:	BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	2,000	1600	5400	ND	ND		04/09/18	15:23	BA	430850
1,2-Dichloropropane	ETO15	2,000	1500	4600	ND	ND		04/09/18	15:23	BA	430850
Bromodichloromethane	ETO15	2,000	1500	6700	ND	ND		04/09/18	15:23	BA	430850
1,4-Dioxane	ETO15	2,000	3600	7200	ND	ND		04/09/18	15:23	BA	430850
trans-1,3-Dichloropropene	ETO15	2,000	2100	4500	ND	ND		04/09/18	15:23	BA	430850
Toluene	ETO15	2,000	1500	3800	ND	ND		04/09/18	15:23	BA	430850
4-Methyl-2-Pentanone (MIBK)	ETO15	2,000	1500	4100	ND	ND		04/09/18	15:23	BA	430850
cis-1,3-Dichloropropene	ETO15	2,000	840	4500	ND	ND		04/09/18	15:23	BA	430850
Tetrachloroethylene	ETO15	2,000	2900	6800	850000	125,368.73		04/09/18	15:23	BA	430850
1,1,2-Trichloroethane	ETO15	2,000	1200	5500	ND	ND		04/09/18	15:23	BA	430850
Dibromochloromethane	ETO15	2,000	2200	8500	ND	ND		04/09/18	15:23	BA	430850
1,2-Dibromoethane (EDB)	ETO15	2,000	1500	7700	ND	ND		04/09/18	15:23	BA	430850
2-Hexanone	ETO15	2,000	1300	4100	ND	ND		04/09/18	15:23	BA	430850
Ethyl Benzene	ETO15	2,000	1300	4300	ND	ND		04/09/18	15:23	BA	430850
Chlorobenzene	ETO15	2,000	1200	4600	ND	ND		04/09/18	15:23	BA	430850
1,1,1,2-Tetrachloroethane	ETO15	2,000	1700	6900	ND	ND		04/09/18	15:23	BA	430850
m,p-Xylene	ETO15	2,000	2000	4300	ND	ND		04/09/18	15:23	BA	430850
o-Xylene	ETO15	2,000	610	4300	ND	ND		04/09/18	15:23	BA	430850
Styrene	ETO15	2,000	930	4300	ND	ND		04/09/18	15:23	BA	430850
Bromoform	ETO15	2,000	2600	10000	ND	ND		04/09/18	15:23	BA	430850
1,1,2,2-Tetrachloroethane	ETO15	2,000	1600	6900	ND	ND		04/09/18	15:23	BA	430850
4-Ethyl Toluene	ETO15	2,000	1100	4900	ND	ND		04/09/18	15:23	BA	430850
1,3,5-Trimethylbenzene	ETO15	2,000	600	4900	ND	ND		04/09/18	15:23	BA	430850
1,2,4-Trimethylbenzene	ETO15	2,000	1200	4900	ND	ND		04/09/18	15:23	BA	430850
1,4-Dichlorobenzene	ETO15	2,000	1500	6000	ND	ND		04/09/18	15:23	BA	430850
1,3-Dichlorobenzene	ETO15	2,000	2700	6000	ND	ND		04/09/18	15:23	BA	430850
1,2-Dichlorobenzene	ETO15	2,000	2100	6000	ND	ND		04/09/18	15:23	BA	430850
Hexachlorobutadiene	ETO15	2,000	3700	11000	ND	ND		04/09/18	15:23	BA	430850
1,2,4-Trichlorobenzene	ETO15	2,000	4300	7400	ND	ND		04/09/18	15:23	BA	430850
Naphthalene	ETO15	2,000	2500	5200	ND	ND		04/09/18	15:23	BA	430850
(S) 4-Bromofluorobenzene	ETO15	2,000	50	150	97 %			04/09/18	15:23	BA	430850



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	SG-2	Lab Sample ID:	1804047-001A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 13:43	Certified Clean WO #:	
Canister/Tube ID:	N1425	Received PSI :	12.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-GRO	Prep Batch Date/Time: 4/8/18 9:00:00PM
Prep Batch ID: 1104112	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	2,000	81000	350000	862000	244,886.36	x	04/09/18	15:23	BA	430850

NOTE: x- Sample chromatogram does not resemble gasoline standard pattern. TPH value is due to discrete peak present in the sample.



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	SG-6	Lab Sample ID:	1804047-002A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000	Certified Clean WO # :	
Date/Time Sampled:	04/05/18 / 14:30	Received PSI :	12.2
Canister/Tube ID:	A7546	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time:	4/8/18	10:00:00PM
Prep Batch ID: 1104099	Prep Analyst:	BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	12.50	20	31	ND	ND		04/09/18	14:25	BA	430850
1,1-Difluoroethane	ETO15	12.50	4.3	170	ND	ND		04/09/18	14:25	BA	430850
1,2-Dichlorotetrafluoroethane	ETO15	12.50	350	700	ND	ND		04/09/18	14:25	BA	430850
Chloromethane	ETO15	12.50	26	52	ND	ND		04/09/18	14:25	BA	430850
Vinyl Chloride	ETO15	12.50	2.8	16	ND	ND		04/09/18	14:25	BA	430850
1,3-Butadiene	ETO15	12.50	4.3	14	ND	ND		04/09/18	14:25	BA	430850
Bromomethane	ETO15	12.50	8.2	24	ND	ND		04/09/18	14:25	BA	430850
Chloroethane	ETO15	12.50	10	17	ND	ND		04/09/18	14:25	BA	430850
Trichlorofluoromethane	ETO15	12.50	7.0	35	ND	ND		04/09/18	14:25	BA	430850
1,1-Dichloroethene	ETO15	12.50	10	25	ND	ND		04/09/18	14:25	BA	430850
Freon 113	ETO15	12.50	13	48	ND	ND		04/09/18	14:25	BA	430850
Carbon Disulfide	ETO15	12.50	4.7	19	ND	ND		04/09/18	14:25	BA	430850
2-Propanol (Isopropyl Alcohol)	ETO15	12.50	16	150	ND	ND		04/09/18	14:25	BA	430850
Methylene Chloride	ETO15	12.50	8.8	130	ND	ND		04/09/18	14:25	BA	430850
Acetone	ETO15	12.50	4.9	150	ND	ND		04/09/18	14:25	BA	430850
trans-1,2-Dichloroethene	ETO15	12.50	5.9	25	ND	ND		04/09/18	14:25	BA	430850
Hexane	ETO15	12.50	5.8	22	ND	ND		04/09/18	14:25	BA	430850
MTBE	ETO15	12.50	5.6	23	ND	ND		04/09/18	14:25	BA	430850
tert-Butanol	ETO15	12.50	7.7	19	ND	ND		04/09/18	14:25	BA	430850
Diisopropyl ether (DIPE)	ETO15	12.50	9.2	26	ND	ND		04/09/18	14:25	BA	430850
1,1-Dichloroethane	ETO15	12.50	6.8	25	ND	ND		04/09/18	14:25	BA	430850
ETBE	ETO15	12.50	4.1	26	ND	ND		04/09/18	14:25	BA	430850
cis-1,2-Dichloroethene	ETO15	12.50	10	25	ND	ND		04/09/18	14:25	BA	430850
Chloroform	ETO15	12.50	12	31	ND	ND		04/09/18	14:25	BA	430850
Vinyl Acetate	ETO15	12.50	9.5	22	ND	ND		04/09/18	14:25	BA	430850
Carbon Tetrachloride	ETO15	12.50	14	39	ND	ND		04/09/18	14:25	BA	430850
1,1,1-Trichloroethane	ETO15	12.50	9.9	34	ND	ND		04/09/18	14:25	BA	430850
2-Butanone (MEK)	ETO15	12.50	4.9	18	ND	ND		04/09/18	14:25	BA	430850
Ethyl Acetate	ETO15	12.50	5.9	23	ND	ND		04/09/18	14:25	BA	430850
Tetrahydrofuran	ETO15	12.50	5.6	18	ND	ND		04/09/18	14:25	BA	430850
Benzene	ETO15	12.50	5.5	20	ND	ND		04/09/18	14:25	BA	430850
TAME	ETO15	12.50	8.4	26	ND	ND		04/09/18	14:25	BA	430850
1,2-Dichloroethane (EDC)	ETO15	12.50	5.3	25	ND	ND		04/09/18	14:25	BA	430850



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	SG-6	Lab Sample ID:	1804047-002A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000	Certified Clean WO # :	
Date/Time Sampled:	04/05/18 / 14:30	Received PSI :	12.2
Canister/Tube ID:	A7546	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 4/8/18	10:00:00PM
Prep Batch ID: 1104099	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	12.50	10	34	ND	ND		04/09/18	14:25	BA	430850
1,2-Dichloropropane	ETO15	12.50	9.5	29	ND	ND		04/09/18	14:25	BA	430850
Bromodichloromethane	ETO15	12.50	9.3	42	ND	ND		04/09/18	14:25	BA	430850
1,4-Dioxane	ETO15	12.50	22	45	ND	ND		04/09/18	14:25	BA	430850
trans-1,3-Dichloropropene	ETO15	12.50	13	28	ND	ND		04/09/18	14:25	BA	430850
Toluene	ETO15	12.50	9.4	24	ND	ND		04/09/18	14:25	BA	430850
4-Methyl-2-Pentanone (MIBK)	ETO15	12.50	9.3	26	ND	ND		04/09/18	14:25	BA	430850
cis-1,3-Dichloropropene	ETO15	12.50	5.3	28	ND	ND		04/09/18	14:25	BA	430850
Tetrachloroethylene	ETO15	12.50	18	42	ND	ND		04/09/18	14:25	BA	430850
1,1,2-Trichloroethane	ETO15	12.50	7.3	34	ND	ND		04/09/18	14:25	BA	430850
Dibromochloromethane	ETO15	12.50	14	53	ND	ND		04/09/18	14:25	BA	430850
1,2-Dibromoethane (EDB)	ETO15	12.50	9.2	48	ND	ND		04/09/18	14:25	BA	430850
2-Hexanone	ETO15	12.50	8.1	26	ND	ND		04/09/18	14:25	BA	430850
Ethyl Benzene	ETO15	12.50	7.9	27	730	168.20		04/09/18	14:25	BA	430850
Chlorobenzene	ETO15	12.50	7.5	29	ND	ND		04/09/18	14:25	BA	430850
1,1,1,2-Tetrachloroethane	ETO15	12.50	10	43	ND	ND		04/09/18	14:25	BA	430850
m,p-Xylene	ETO15	12.50	12	27	3900	898.62		04/09/18	14:25	BA	430850
o-Xylene	ETO15	12.50	3.8	27	1500	345.62		04/09/18	14:25	BA	430850
Styrene	ETO15	12.50	5.8	27	ND	ND		04/09/18	14:25	BA	430850
Bromoform	ETO15	12.50	16	65	ND	ND		04/09/18	14:25	BA	430850
1,1,2,2-Tetrachloroethane	ETO15	12.50	10	43	ND	ND		04/09/18	14:25	BA	430850
4-Ethyl Toluene	ETO15	12.50	6.8	31	ND	ND		04/09/18	14:25	BA	430850
1,3,5-Trimethylbenzene	ETO15	12.50	3.8	31	ND	ND		04/09/18	14:25	BA	430850
1,2,4-Trimethylbenzene	ETO15	12.50	7.4	31	ND	ND		04/09/18	14:25	BA	430850
1,4-Dichlorobenzene	ETO15	12.50	9.3	38	ND	ND		04/09/18	14:25	BA	430850
1,3-Dichlorobenzene	ETO15	12.50	17	38	ND	ND		04/09/18	14:25	BA	430850
1,2-Dichlorobenzene	ETO15	12.50	13	38	ND	ND		04/09/18	14:25	BA	430850
Hexachlorobutadiene	ETO15	12.50	23	67	ND	ND		04/09/18	14:25	BA	430850
1,2,4-Trichlorobenzene	ETO15	12.50	27	46	ND	ND		04/09/18	14:25	BA	430850
Naphthalene	ETO15	12.50	16	33	ND	ND		04/09/18	14:25	BA	430850
(S) 4-Bromofluorobenzene	ETO15	12.50	50	150	110 %			04/09/18	14:25	BA	430850



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	SG-6	Lab Sample ID:	1804047-002A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 14:30	Certified Clean WO # :	
Canister/Tube ID:	A7546	Received PSI :	12.2
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-GRO	Prep Batch Date/Time: 4/8/18 9:00:00PM
Prep Batch ID: 1104112	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	12.50	500	2200	11700	3,323.86	x	04/09/18	14:25	BA	430850

NOTE: x- Sample chromatogram does not resemble gasoline standard pattern (closest pattern match is Mineral Spirits/Stoddard).



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	SG-4	Lab Sample ID:	1804047-003A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 15:57	Certified Clean WO #:	
Canister/Tube ID:	A7551	Received PSI :	12.1
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time:	4/8/18	10:00:00PM
Prep Batch ID: 1104099	Prep Analyst:	BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		04/09/18	14:58	BA	430850
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		04/09/18	14:58	BA	430850
1,2-Dichlorotetrafluoroethane	ETO15	1.00	28	56	ND	ND		04/09/18	14:58	BA	430850
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		04/09/18	14:58	BA	430850
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		04/09/18	14:58	BA	430850
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		04/09/18	14:58	BA	430850
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		04/09/18	14:58	BA	430850
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		04/09/18	14:58	BA	430850
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		04/09/18	14:58	BA	430850
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		04/09/18	14:58	BA	430850
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		04/09/18	14:58	BA	430850
Carbon Disulfide	ETO15	1.00	0.37	1.6	37	11.90		04/09/18	14:58	BA	430850
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		04/09/18	14:58	BA	430850
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		04/09/18	14:58	BA	430850
Acetone	ETO15	1.00	0.40	12	44	18.49		04/09/18	14:58	BA	430850
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		04/09/18	14:58	BA	430850
Hexane	ETO15	1.00	0.46	1.8	ND	ND		04/09/18	14:58	BA	430850
MTBE	ETO15	1.00	0.44	1.8	ND	ND		04/09/18	14:58	BA	430850
tert-Butanol	ETO15	1.00	0.62	1.5	ND	ND		04/09/18	14:58	BA	430850
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		04/09/18	14:58	BA	430850
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		04/09/18	14:58	BA	430850
ETBE	ETO15	1.00	0.33	2.1	ND	ND		04/09/18	14:58	BA	430850
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		04/09/18	14:58	BA	430850
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		04/09/18	14:58	BA	430850
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		04/09/18	14:58	BA	430850
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		04/09/18	14:58	BA	430850
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	2.9	0.53		04/09/18	14:58	BA	430850
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	10	3.39		04/09/18	14:58	BA	430850
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		04/09/18	14:58	BA	430850
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		04/09/18	14:58	BA	430850
Benzene	ETO15	1.00	0.44	1.6	8.3	2.60		04/09/18	14:58	BA	430850
TAME	ETO15	1.00	0.67	2.1	ND	ND		04/09/18	14:58	BA	430850
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		04/09/18	14:58	BA	430850



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	SG-4	Lab Sample ID:	1804047-003A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 15:57	Certified Clean WO # :	
Canister/Tube ID:	A7551	Received PSI :	12.1
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time:	4/8/18	10:00:00PM
Prep Batch ID: 1104099	Prep Analyst:	BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		04/09/18	14:58	BA	430850
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		04/09/18	14:58	BA	430850
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		04/09/18	14:58	BA	430850
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		04/09/18	14:58	BA	430850
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		04/09/18	14:58	BA	430850
Toluene	ETO15	1.00	0.75	1.9	16	4.24		04/09/18	14:58	BA	430850
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	ND	ND		04/09/18	14:58	BA	430850
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		04/09/18	14:58	BA	430850
Tetrachloroethylene	ETO15	1.00	1.5	3.4	29	4.28		04/09/18	14:58	BA	430850
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		04/09/18	14:58	BA	430850
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		04/09/18	14:58	BA	430850
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		04/09/18	14:58	BA	430850
2-Hexanone	ETO15	1.00	0.65	2.1	ND	ND		04/09/18	14:58	BA	430850
Ethyl Benzene	ETO15	1.00	0.63	2.2	25	5.76		04/09/18	14:58	BA	430850
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		04/09/18	14:58	BA	430850
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		04/09/18	14:58	BA	430850
m,p-Xylene	ETO15	1.00	0.98	2.2	100	23.04		04/09/18	14:58	BA	430850
o-Xylene	ETO15	1.00	0.30	2.2	37	8.53		04/09/18	14:58	BA	430850
Styrene	ETO15	1.00	0.46	2.1	ND	ND		04/09/18	14:58	BA	430850
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		04/09/18	14:58	BA	430850
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		04/09/18	14:58	BA	430850
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		04/09/18	14:58	BA	430850
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		04/09/18	14:58	BA	430850
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		04/09/18	14:58	BA	430850
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		04/09/18	14:58	BA	430850
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		04/09/18	14:58	BA	430850
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		04/09/18	14:58	BA	430850
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		04/09/18	14:58	BA	430850
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		04/09/18	14:58	BA	430850
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		04/09/18	14:58	BA	430850
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	120 %			04/09/18	14:58	BA	430850



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	SG-4	Lab Sample ID:	1804047-003A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 15:57	Certified Clean WO # :	
Canister/Tube ID:	A7551	Received PSI :	12.1
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-GRO	Prep Batch Date/Time: 4/8/18 9:00:00PM
Prep Batch ID: 1104112	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	1.00	40	180	1580	448.86	x	04/09/18	14:58	BA	430850

NOTE: x- Sample chromatogram does not resemble gasoline standard pattern (closest pattern match is Mineral Spirits/Stoddard).



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	SG-1	Lab Sample ID:	1804047-004A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000	Certified Clean WO # :	
Date/Time Sampled:	04/05/18 / 16:23	Received PSI :	13.1
Canister/Tube ID:	A11711	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time:	4/8/18	10:00:00PM
Prep Batch ID: 1104099	Prep Analyst:	BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	200.0	310	500	ND	ND		04/09/18	15:47	BA	430850
1,1-Difluoroethane	ETO15	200.0	69	2700	ND	ND		04/09/18	15:47	BA	430850
1,2-Dichlorotetrafluoroethane	ETO15	200.0	5600	11000	ND	ND		04/09/18	15:47	BA	430850
Chloromethane	ETO15	200.0	410	830	ND	ND		04/09/18	15:47	BA	430850
Vinyl Chloride	ETO15	200.0	45	260	ND	ND		04/09/18	15:47	BA	430850
1,3-Butadiene	ETO15	200.0	68	220	ND	ND		04/09/18	15:47	BA	430850
Bromomethane	ETO15	200.0	130	390	ND	ND		04/09/18	15:47	BA	430850
Chloroethane	ETO15	200.0	160	260	ND	ND		04/09/18	15:47	BA	430850
Trichlorofluoromethane	ETO15	200.0	110	560	ND	ND		04/09/18	15:47	BA	430850
1,1-Dichloroethene	ETO15	200.0	170	400	ND	ND		04/09/18	15:47	BA	430850
Freon 113	ETO15	200.0	200	770	ND	ND		04/09/18	15:47	BA	430850
Carbon Disulfide	ETO15	200.0	75	310	ND	ND		04/09/18	15:47	BA	430850
2-Propanol (Isopropyl Alcohol)	ETO15	200.0	260	2500	ND	ND		04/09/18	15:47	BA	430850
Methylene Chloride	ETO15	200.0	140	2100	ND	ND		04/09/18	15:47	BA	430850
Acetone	ETO15	200.0	79	2400	ND	ND		04/09/18	15:47	BA	430850
trans-1,2-Dichloroethene	ETO15	200.0	95	400	ND	ND		04/09/18	15:47	BA	430850
Hexane	ETO15	200.0	93	350	ND	ND		04/09/18	15:47	BA	430850
MTBE	ETO15	200.0	89	360	ND	ND		04/09/18	15:47	BA	430850
tert-Butanol	ETO15	200.0	120	300	ND	ND		04/09/18	15:47	BA	430850
Diisopropyl ether (DIPE)	ETO15	200.0	150	420	ND	ND		04/09/18	15:47	BA	430850
1,1-Dichloroethane	ETO15	200.0	110	410	ND	ND		04/09/18	15:47	BA	430850
ETBE	ETO15	200.0	65	420	ND	ND		04/09/18	15:47	BA	430850
cis-1,2-Dichloroethene	ETO15	200.0	170	400	ND	ND		04/09/18	15:47	BA	430850
Chloroform	ETO15	200.0	190	490	ND	ND		04/09/18	15:47	BA	430850
Vinyl Acetate	ETO15	200.0	150	350	ND	ND		04/09/18	15:47	BA	430850
Carbon Tetrachloride	ETO15	200.0	220	630	ND	ND		04/09/18	15:47	BA	430850
1,1,1-Trichloroethane	ETO15	200.0	160	550	ND	ND		04/09/18	15:47	BA	430850
2-Butanone (MEK)	ETO15	200.0	78	300	ND	ND		04/09/18	15:47	BA	430850
Ethyl Acetate	ETO15	200.0	95	360	ND	ND		04/09/18	15:47	BA	430850
Tetrahydrofuran	ETO15	200.0	90	300	ND	ND		04/09/18	15:47	BA	430850
Benzene	ETO15	200.0	87	320	ND	ND		04/09/18	15:47	BA	430850
TAME	ETO15	200.0	130	420	ND	ND		04/09/18	15:47	BA	430850
1,2-Dichloroethane (EDC)	ETO15	200.0	84	410	ND	ND		04/09/18	15:47	BA	430850



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	SG-1	Lab Sample ID:	1804047-004A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 16:23	Certified Clean WO # :	
Canister/Tube ID:	A11711	Received PSI :	13.1
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time:	4/8/18	10:00:00PM
Prep Batch ID: 1104099	Prep Analyst:	BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	200.0	160	540	ND	ND		04/09/18	15:47	BA	430850
1,2-Dichloropropane	ETO15	200.0	150	460	ND	ND		04/09/18	15:47	BA	430850
Bromodichloromethane	ETO15	200.0	150	670	ND	ND		04/09/18	15:47	BA	430850
1,4-Dioxane	ETO15	200.0	360	720	ND	ND		04/09/18	15:47	BA	430850
trans-1,3-Dichloropropene	ETO15	200.0	210	450	ND	ND		04/09/18	15:47	BA	430850
Toluene	ETO15	200.0	150	380	ND	ND		04/09/18	15:47	BA	430850
4-Methyl-2-Pentanone (MIBK)	ETO15	200.0	150	410	ND	ND		04/09/18	15:47	BA	430850
cis-1,3-Dichloropropene	ETO15	200.0	84	450	ND	ND		04/09/18	15:47	BA	430850
Tetrachloroethylene	ETO15	200.0	290	680	49000	7,227.14		04/09/18	15:47	BA	430850
1,1,2-Trichloroethane	ETO15	200.0	120	550	ND	ND		04/09/18	15:47	BA	430850
Dibromochloromethane	ETO15	200.0	220	850	ND	ND		04/09/18	15:47	BA	430850
1,2-Dibromoethane (EDB)	ETO15	200.0	150	770	ND	ND		04/09/18	15:47	BA	430850
2-Hexanone	ETO15	200.0	130	410	ND	ND		04/09/18	15:47	BA	430850
Ethyl Benzene	ETO15	200.0	130	430	ND	ND		04/09/18	15:47	BA	430850
Chlorobenzene	ETO15	200.0	120	460	ND	ND		04/09/18	15:47	BA	430850
1,1,1,2-Tetrachloroethane	ETO15	200.0	170	690	ND	ND		04/09/18	15:47	BA	430850
m,p-Xylene	ETO15	200.0	200	430	ND	ND		04/09/18	15:47	BA	430850
o-Xylene	ETO15	200.0	61	430	ND	ND		04/09/18	15:47	BA	430850
Styrene	ETO15	200.0	93	430	ND	ND		04/09/18	15:47	BA	430850
Bromoform	ETO15	200.0	260	1000	ND	ND		04/09/18	15:47	BA	430850
1,1,2,2-Tetrachloroethane	ETO15	200.0	160	690	ND	ND		04/09/18	15:47	BA	430850
4-Ethyl Toluene	ETO15	200.0	110	490	ND	ND		04/09/18	15:47	BA	430850
1,3,5-Trimethylbenzene	ETO15	200.0	60	490	ND	ND		04/09/18	15:47	BA	430850
1,2,4-Trimethylbenzene	ETO15	200.0	120	490	ND	ND		04/09/18	15:47	BA	430850
1,4-Dichlorobenzene	ETO15	200.0	150	600	ND	ND		04/09/18	15:47	BA	430850
1,3-Dichlorobenzene	ETO15	200.0	270	600	ND	ND		04/09/18	15:47	BA	430850
1,2-Dichlorobenzene	ETO15	200.0	210	600	ND	ND		04/09/18	15:47	BA	430850
Hexachlorobutadiene	ETO15	200.0	370	1100	ND	ND		04/09/18	15:47	BA	430850
1,2,4-Trichlorobenzene	ETO15	200.0	430	740	ND	ND		04/09/18	15:47	BA	430850
Naphthalene	ETO15	200.0	250	520	ND	ND		04/09/18	15:47	BA	430850
(S) 4-Bromofluorobenzene	ETO15	200.0	50	150	96 %			04/09/18	15:47	BA	430850



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	SG-1	Lab Sample ID:	1804047-004A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 16:23	Certified Clean WO #:	
Canister/Tube ID:	A11711	Received PSI :	13.1
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-GRO	Prep Batch Date/Time: 4/8/18 9:00:00PM
Prep Batch ID: 1104112	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	200.0	8100	35000	65400	18,579.55	x	04/09/18	15:47	BA	430850

NOTE: x- Sample chromatogram does not resemble gasoline standard pattern. TPH value is due to discrete peak present in the sample.



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	SG-3	Lab Sample ID:	1804047-005A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000	Certified Clean WO # :	
Date/Time Sampled:	04/05/18 / 16:39	Received PSI :	12.1
Canister/Tube ID:	A7475	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time:	4/8/18	10:00:00PM
Prep Batch ID: 1104099	Prep Analyst:	BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1,000	1600	2500	ND	ND		04/09/18	16:12	BA	430850
1,1-Difluoroethane	ETO15	1,000	350	14000	ND	ND		04/09/18	16:12	BA	430850
1,2-Dichlorotetrafluoroethane	ETO15	1,000	28000	56000	ND	ND		04/09/18	16:12	BA	430850
Chloromethane	ETO15	1,000	2000	4100	ND	ND		04/09/18	16:12	BA	430850
Vinyl Chloride	ETO15	1,000	230	1300	ND	ND		04/09/18	16:12	BA	430850
1,3-Butadiene	ETO15	1,000	340	1100	ND	ND		04/09/18	16:12	BA	430850
Bromomethane	ETO15	1,000	660	1900	ND	ND		04/09/18	16:12	BA	430850
Chloroethane	ETO15	1,000	810	1300	ND	ND		04/09/18	16:12	BA	430850
Trichlorofluoromethane	ETO15	1,000	560	2800	ND	ND		04/09/18	16:12	BA	430850
1,1-Dichloroethene	ETO15	1,000	830	2000	ND	ND		04/09/18	16:12	BA	430850
Freon 113	ETO15	1,000	1000	3800	ND	ND		04/09/18	16:12	BA	430850
Carbon Disulfide	ETO15	1,000	370	1600	ND	ND		04/09/18	16:12	BA	430850
2-Propanol (Isopropyl Alcohol)	ETO15	1,000	1300	12000	ND	ND		04/09/18	16:12	BA	430850
Methylene Chloride	ETO15	1,000	700	10000	ND	ND		04/09/18	16:12	BA	430850
Acetone	ETO15	1,000	400	12000	ND	ND		04/09/18	16:12	BA	430850
trans-1,2-Dichloroethene	ETO15	1,000	480	2000	ND	ND		04/09/18	16:12	BA	430850
Hexane	ETO15	1,000	460	1800	ND	ND		04/09/18	16:12	BA	430850
MTBE	ETO15	1,000	440	1800	ND	ND		04/09/18	16:12	BA	430850
tert-Butanol	ETO15	1,000	620	1500	ND	ND		04/09/18	16:12	BA	430850
Diisopropyl ether (DIPE)	ETO15	1,000	740	2100	ND	ND		04/09/18	16:12	BA	430850
1,1-Dichloroethane	ETO15	1,000	540	2000	ND	ND		04/09/18	16:12	BA	430850
ETBE	ETO15	1,000	330	2100	ND	ND		04/09/18	16:12	BA	430850
cis-1,2-Dichloroethene	ETO15	1,000	830	2000	ND	ND		04/09/18	16:12	BA	430850
Chloroform	ETO15	1,000	970	2400	ND	ND		04/09/18	16:12	BA	430850
Vinyl Acetate	ETO15	1,000	760	1800	ND	ND		04/09/18	16:12	BA	430850
Carbon Tetrachloride	ETO15	1,000	1100	3100	ND	ND		04/09/18	16:12	BA	430850
1,1,1-Trichloroethane	ETO15	1,000	790	2700	ND	ND		04/09/18	16:12	BA	430850
2-Butanone (MEK)	ETO15	1,000	390	1500	ND	ND		04/09/18	16:12	BA	430850
Ethyl Acetate	ETO15	1,000	480	1800	ND	ND		04/09/18	16:12	BA	430850
Tetrahydrofuran	ETO15	1,000	450	1500	ND	ND		04/09/18	16:12	BA	430850
Benzene	ETO15	1,000	440	1600	ND	ND		04/09/18	16:12	BA	430850
TAME	ETO15	1,000	670	2100	ND	ND		04/09/18	16:12	BA	430850
1,2-Dichloroethane (EDC)	ETO15	1,000	420	2000	ND	ND		04/09/18	16:12	BA	430850



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	SG-3	Lab Sample ID:	1804047-005A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000	Certified Clean WO # :	
Date/Time Sampled:	04/05/18 / 16:39	Received PSI :	12.1
Canister/Tube ID:	A7475	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 4/8/18	10:00:00PM
Prep Batch ID: 1104099	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	1,000	810	2700	ND	ND		04/09/18	16:12	BA	430850
1,2-Dichloropropane	ETO15	1,000	760	2300	ND	ND		04/09/18	16:12	BA	430850
Bromodichloromethane	ETO15	1,000	740	3400	ND	ND		04/09/18	16:12	BA	430850
1,4-Dioxane	ETO15	1,000	1800	3600	ND	ND		04/09/18	16:12	BA	430850
trans-1,3-Dichloropropene	ETO15	1,000	1100	2300	ND	ND		04/09/18	16:12	BA	430850
Toluene	ETO15	1,000	750	1900	ND	ND		04/09/18	16:12	BA	430850
4-Methyl-2-Pentanone (MIBK)	ETO15	1,000	750	2100	ND	ND		04/09/18	16:12	BA	430850
cis-1,3-Dichloropropene	ETO15	1,000	420	2300	ND	ND		04/09/18	16:12	BA	430850
Tetrachloroethylene	ETO15	1,000	1500	3400	120000	17,699.12		04/09/18	16:12	BA	430850
1,1,2-Trichloroethane	ETO15	1,000	580	2700	ND	ND		04/09/18	16:12	BA	430850
Dibromochloromethane	ETO15	1,000	1100	4300	ND	ND		04/09/18	16:12	BA	430850
1,2-Dibromoethane (EDB)	ETO15	1,000	740	3800	ND	ND		04/09/18	16:12	BA	430850
2-Hexanone	ETO15	1,000	650	2100	ND	ND		04/09/18	16:12	BA	430850
Ethyl Benzene	ETO15	1,000	630	2200	ND	ND		04/09/18	16:12	BA	430850
Chlorobenzene	ETO15	1,000	600	2300	ND	ND		04/09/18	16:12	BA	430850
1,1,1,2-Tetrachloroethane	ETO15	1,000	840	3400	ND	ND		04/09/18	16:12	BA	430850
m,p-Xylene	ETO15	1,000	980	2200	ND	ND		04/09/18	16:12	BA	430850
o-Xylene	ETO15	1,000	300	2200	ND	ND		04/09/18	16:12	BA	430850
Styrene	ETO15	1,000	460	2100	ND	ND		04/09/18	16:12	BA	430850
Bromoform	ETO15	1,000	1300	5200	ND	ND		04/09/18	16:12	BA	430850
1,1,2,2-Tetrachloroethane	ETO15	1,000	820	3400	ND	ND		04/09/18	16:12	BA	430850
4-Ethyl Toluene	ETO15	1,000	550	2500	ND	ND		04/09/18	16:12	BA	430850
1,3,5-Trimethylbenzene	ETO15	1,000	300	2500	ND	ND		04/09/18	16:12	BA	430850
1,2,4-Trimethylbenzene	ETO15	1,000	600	2500	ND	ND		04/09/18	16:12	BA	430850
1,4-Dichlorobenzene	ETO15	1,000	750	3000	ND	ND		04/09/18	16:12	BA	430850
1,3-Dichlorobenzene	ETO15	1,000	1300	3000	ND	ND		04/09/18	16:12	BA	430850
1,2-Dichlorobenzene	ETO15	1,000	1100	3000	ND	ND		04/09/18	16:12	BA	430850
Hexachlorobutadiene	ETO15	1,000	1900	5300	ND	ND		04/09/18	16:12	BA	430850
1,2,4-Trichlorobenzene	ETO15	1,000	2200	3700	ND	ND		04/09/18	16:12	BA	430850
Naphthalene	ETO15	1,000	1300	2600	ND	ND		04/09/18	16:12	BA	430850
(S) 4-Bromofluorobenzene	ETO15	1,000	50	150	94 %			04/09/18	16:12	BA	430850



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	SG-3	Lab Sample ID:	1804047-005A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil Vapor
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 16:39	Certified Clean WO #:	
Canister/Tube ID:	A7475	Received PSI :	12.1
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-GRO	Prep Batch Date/Time: 4/8/18 9:00:00PM
Prep Batch ID: 1104112	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	1,000	40000	180000	179000	50,852.27	x,J	04/09/18	16:12	BA	430850

The results shown below are reported using their MDL.

TPH-Gasoline TO-15 1,000 40000 180000 179000 50,852.27 x,J 04/09/18 16:12 BA 430850

NOTE: x- Sample chromatogram does not resemble gasoline standard pattern. TPH value is due to discrete peak present in the sample.



MB Summary Report

Work Order:	1804047	Prep Method:	TO15-P	Prep Date:	04/08/18	Prep Batch:	1104099
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	4/8/2018	Analytical Batch:	430850
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	0.21		
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	0.21		
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		



MB Summary Report

Work Order:	1804047	Prep Method:	TO15-P	Prep Date:	04/08/18	Prep Batch:	1104099
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	4/8/2018	Analytical Batch:	430850
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
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1,1,2-Trichloroethane	0.11	0.50	ND	
Dibromochloromethane	0.13	0.50	ND	
1,2-Dibromoethane (EDB)	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-Tetrachloroethane	0.12	0.50	ND	
m,p-Xylene	0.23	0.50	ND	
o-Xylene	0.070	0.50	ND	
Styrene	0.11	0.50	ND	
Bromoform	0.13	0.50	ND	
1,1,2,2-Tetrachloroethane	0.12	0.50	ND	
4-Ethyl Toluene	0.11	0.50	ND	
1,3,5-Trimethylbenzene	0.061	0.50	ND	
1,2,4-Trimethylbenzene	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-Trichlorobenzene	0.29	0.50	ND	
Naphthalene	0.24	0.50	ND	
(S) 4-Bromofluorobenzene			97	

Work Order:	1804047	Prep Method:	TO15-GRO	Prep Date:	04/08/18	Prep Batch:	1104112
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	4/8/2018	Analytical Batch:	430850
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
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TPH-Gasoline	11	50	31	
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LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1804047	Prep Method:	TO15-P	Prep Date:	04/08/18	Prep Batch:	1104099
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	4/8/2018	Analytical Batch:	430850
Units:	ppbv						

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	103	107	3.33	65 - 135	30	
Benzene	0.14	0.50	ND	8.00	96.3	95.7	0.651	65 - 135	30	
Trichloroethylene	0.15	0.50	ND	8.00	88.7	91.9	3.46	65 - 135	30	
Toluene	0.20	0.50	ND	8.00	92.7	93.4	0.806	65 - 135	30	
Chlorobenzene	0.13	0.50	ND	8.00	90.7	90.7	0.000	65 - 135	30	
(S) 4-Bromofluorobenzene				20.0	94.4	99.1		50 - 150		

Work Order:	1804047	Prep Method:	TO15-GRO	Prep Date:	04/08/18	Prep Batch:	1104112
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	4/9/2018	Analytical Batch:	430850
Units:	ppbv						

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	31	500	98.7	102	3.59	65 - 135	30	



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 100cm ² 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 than 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.



Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Date and Time Received: 4/5/2018 5:20:00PM

Project Name: 580 Lorraine

Received By: Raj Kaur

Work Order No.: 1804047

Physically Logged By: Helena Ueng

Checklist Completed By: Helena Ueng

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present?	<u>Yes</u>
Chain of custody signed when relinquished and received?	<u>Yes</u>
Chain of custody agrees with sample labels?	<u>Yes</u>
Custody seals intact on sample bottles?	<u>Not Present</u>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	<u>Not Present</u>
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?	<u>Yes</u>

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	<u>Yes</u>	
Container/Temp Blank temperature in compliance?		Temperature: °C
Water-VOA vials have zero headspace?	<u>No VOA vials submitted</u>	
Water-pH acceptable upon receipt?	<u>N/A</u>	
pH Checked by: N/A		pH Adjusted by: N/A

Comments:

Summa canisters received at ambient temperature.



Login Summary Report

Client ID: TL5123 **Engeo (San Ramon)** **QC Level:** II
Project Name: 580 Lorraine **TAT Requested:** 3 Day Std:3
Project # : 14121.001.000 **Date Received:** 4/5/2018
Report Due Date: 4/10/2018 **Time Received:** 5:20 pm

Comments:

Work Order # : **1804047**

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1804047-001A	SG-2	04/05/18 13:43	Air				VOC_A_TO15 VOC_A_TO15GRO	
1804047-002A	SG-6	04/05/18 14:30	Air				VOC_A_TO15 VOC_A_TO15GRO	
1804047-003A	SG-4	04/05/18 15:57	Air				VOC_A_TO15 VOC_A_TO15GRO	
1804047-004A	SG-1	04/05/18 16:23	Air				VOC_A_TO15 VOC_A_TO15GRO	
1804047-005A	SG-3	04/05/18 16:39	Air				VOC_A_TO15 VOC_A_TO15GRO	



TORRENT

CHAIN OF CUSTODY

1804047

ENTHALPY
ANALYTICAL
Formerly Curtis & Tompkins Labs

~~2323 Fifth Street
Berkeley, CA 94710~~

Project No: 14121.001.000

Project Name: 580 Lorraine

Project P.O. No:

Report Level I II III IV

Turnaround Time: RUSH Standard Email: ctbhargava@engagia.com

Turnaround Time: RUSH Standard

Turnaround Time: RUSH Standard Email: Umeshgavali@...

C&T LOGIN #

— Tjekmann

Sampler: J. Coven

Report To: D. Young

Company: ENGEQ

Notes:	SAMPLE RECEIPT	RELINQUISHED BY:		RECEIVED BY:	
		DATE:	TIME:	DATE:	TIME:
<i>Summa canisters received at ambient temperature</i>	<input type="checkbox"/> Intact	<i>Jon Th</i>	<i>4/5</i>	<i>R/Carr</i>	<i>4/5</i>
	<input type="checkbox"/> Cold				
	<input type="checkbox"/> On Ice				
	<input checked="" type="checkbox"/> Ambient				

$\angle B = 70^\circ$ (Reason)



Engeo (San Ramon)
2010 Crow Canyon Place, #250
San Ramon, California 94583
Tel: (925) 866-9000
Fax: (925) 866-0199
RE: 580 Lorraine

Work Order No.: 1804048

Dear Divya Bhargava:

Torrent Laboratory, Inc. received 15 sample(s) on April 05, 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

A handwritten signature in blue ink, appearing to read "Belinda Vega".

Belinda Vega
Vice President of Operations

April 10, 2018

Date



Date: 4/10/2018

Client: Engeo (San Ramon)

Project: 580 Lorraine

Work Order: 1804048

CASE 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 Analytic Inc.

Analytical Comments for method TPHDOSG_S_8015B, 1804048-003A MS, QC Analytical Preparation ID 1104057, Note: The % recovery for Diesel is outside of laboratory control limits but % RPD is within limits. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.

Analytical Comments for method SW6010B, 1804048-001A MS/MSD, QC Analytical Preparation ID 1104089, Note: The % recoveries for Lead and Zinc are outside of laboratory control limits but the RPD is within limits. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.

Analytical Comments for method SW6010B, 1804048-014B MS/MSD, QC Analytical Preparation ID 1104096, Note: The % recoveries and RPD for several metals are outside of laboratory control limits. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.

The spikes in the MS/MSD for Barium, Chromium, Nickel and Zinc are not recoverable. The sample concentration is greater than 4X the spike concentration. No corrective action is required.

Analytical Comment for SW8260B, Note: The % recovery for the 4-Bromofluorobenzene surrogate in the LCS is outside of laboratory control limits (high bias). All samples surrogates were within limits. No corrective action is required.



Sample Result Summary

Report prepared for: Divya Bhargava
Date Received: 04/05/18
 Engeo (San Ramon) **Date Reported:** 04/10/18
Sample ID: 1804048-001

Parameters:

	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH(Gasoline)	8260TPH	1	43	100	149	ug/Kg
Arsenic	SW6010B	1	0.15	3.00	8.28	mg/Kg
Barium	SW6010B	1	0.055	5.00	131	mg/Kg
Chromium	SW6010B	1	0.075	5.00	41.8	mg/Kg
Cobalt	SW6010B	1	0.070	5.00	9.96	mg/Kg
Copper	SW6010B	1	0.20	5.00	28.1	mg/Kg
Lead	SW6010B	1	0.10	1.30	63.3	mg/Kg
Nickel	SW6010B	1	0.50	5.00	57.9	mg/Kg
Vanadium	SW6010B	1	0.10	5.00	30.8	mg/Kg
Zinc	SW6010B	1	0.30	5.00	86.2	mg/Kg
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	5.44	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	15.6	mg/Kg
m,p-Xylene	SW8260B	1	3.2	10	115	ug/Kg
o-Xylene	SW8260B	1	1.7	10	50.6	ug/Kg

S6@5'

1804048-002

Parameters:

	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.055	5.00	155	mg/Kg
Chromium	SW6010B	1	0.075	5.00	47.5	mg/Kg
Cobalt	SW6010B	1	0.070	5.00	7.37	mg/Kg
Copper	SW6010B	1	0.20	5.00	25.1	mg/Kg
Lead	SW6010B	1	0.10	1.30	9.80	mg/Kg
Nickel	SW6010B	1	0.50	5.00	48.5	mg/Kg
Vanadium	SW6010B	1	0.10	5.00	33.2	mg/Kg
Zinc	SW6010B	1	0.30	5.00	53.4	mg/Kg
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	3.67	mg/Kg
m,p-Xylene	SW8260B	1	3.2	10	21.1	ug/Kg

S6@10'

1804048-003

Parameters:

	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6010B	1	0.15	3.00	6.16	mg/Kg
Barium	SW6010B	1	0.055	5.00	99.7	mg/Kg
Chromium	SW6010B	1	0.075	5.00	43.3	mg/Kg
Cobalt	SW6010B	1	0.070	5.00	10.4	mg/Kg
Copper	SW6010B	1	0.20	5.00	21.3	mg/Kg
Lead	SW6010B	1	0.10	1.30	6.80	mg/Kg
Nickel	SW6010B	1	0.50	5.00	49.4	mg/Kg
Vanadium	SW6010B	1	0.10	5.00	36.7	mg/Kg
Zinc	SW6010B	1	0.30	5.00	49.1	mg/Kg
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	4.34	mg/Kg



Sample Result Summary

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date Received: 04/05/18
Date Reported: 04/10/18

1804048-004

S5@1'

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6010B	1	0.15	3.00	5.69	mg/Kg
Barium	SW6010B	1	0.055	5.00	123	mg/Kg
Chromium	SW6010B	1	0.075	5.00	51.3	mg/Kg
Cobalt	SW6010B	1	0.070	5.00	8.72	mg/Kg
Copper	SW6010B	1	0.20	5.00	24.5	mg/Kg
Lead	SW6010B	1	0.10	1.30	13.0	mg/Kg
Nickel	SW6010B	1	0.50	5.00	57.9	mg/Kg
Vanadium	SW6010B	1	0.10	5.00	38.1	mg/Kg
Zinc	SW6010B	1	0.30	5.00	55.7	mg/Kg
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	4.63	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	43.2	mg/Kg

S2@1'

1804048-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6010B	1	0.15	3.00	3.75	mg/Kg
Barium	SW6010B	1	0.055	5.00	122	mg/Kg
Chromium	SW6010B	1	0.075	5.00	46.4	mg/Kg
Cobalt	SW6010B	1	0.070	5.00	9.56	mg/Kg
Copper	SW6010B	1	0.20	5.00	31.0	mg/Kg
Lead	SW6010B	1	0.10	1.30	35.7	mg/Kg
Nickel	SW6010B	1	0.50	5.00	69.5	mg/Kg
Vanadium	SW6010B	1	0.10	5.00	34.3	mg/Kg
Zinc	SW6010B	1	0.30	5.00	63.2	mg/Kg
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	6.81	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	54.9	mg/Kg
Tetrachloroethylene	SW8260B	2.5	4.2	25	279	ug/Kg



Sample Result Summary

Report prepared for: Divya Bhargava
Date Received: 04/05/18
 Engeo (San Ramon) **Date Reported:** 04/10/18
S2@5' **1804048-006**

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH(Gasoline)	8260TPH	5	220	500	3140	ug/Kg
Arsenic	SW6010B	1	0.15	3.00	5.38	mg/Kg
Barium	SW6010B	1	0.055	5.00	142	mg/Kg
Chromium	SW6010B	1	0.075	5.00	44.6	mg/Kg
Cobalt	SW6010B	1	0.070	5.00	10.2	mg/Kg
Copper	SW6010B	1	0.20	5.00	31.0	mg/Kg
Lead	SW6010B	1	0.10	1.30	47.2	mg/Kg
Nickel	SW6010B	1	0.50	5.00	74.2	mg/Kg
Vanadium	SW6010B	1	0.10	5.00	33.2	mg/Kg
Zinc	SW6010B	1	0.30	5.00	66.6	mg/Kg
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	7.09	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	94.8	mg/Kg
Tetrachloroethylene	SW8260B	5	8.3	50	3180	ug/Kg

S2@10' **1804048-007**

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH(Gasoline)	8260TPH	1	43	100	244	ug/Kg
Arsenic	SW6010B	1	0.15	3.00	3.89	mg/Kg
Barium	SW6010B	1	0.055	5.00	93.5	mg/Kg
Chromium	SW6010B	1	0.075	5.00	39.8	mg/Kg
Cobalt	SW6010B	1	0.070	5.00	8.86	mg/Kg
Copper	SW6010B	1	0.20	5.00	19.4	mg/Kg
Lead	SW6010B	1	0.10	1.30	14.7	mg/Kg
Nickel	SW6010B	1	0.50	5.00	49.2	mg/Kg
Vanadium	SW6010B	1	0.10	5.00	34.8	mg/Kg
Zinc	SW6010B	1	0.30	5.00	45.2	mg/Kg
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	6.57	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	16.8	mg/Kg
Tetrachloroethylene	SW8260B	5	8.3	50	1870	ug/Kg



Sample Result Summary

Report prepared for: Divya Bhargava
Engeo (San Ramon) **Date Received:** 04/05/18
Date Reported: 04/10/18
1804048-008

S7@1'

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.15	3.00	3.66	mg/Kg
Barium	SW6010B	1	0.055	5.00	180	mg/Kg
Chromium	SW6010B	1	0.075	5.00	37.3	mg/Kg
Cobalt	SW6010B	1	0.070	5.00	10.0	mg/Kg
Copper	SW6010B	1	0.20	5.00	34.0	mg/Kg
Lead	SW6010B	1	0.10	1.30	30.1	mg/Kg
Nickel	SW6010B	1	0.50	5.00	54.6	mg/Kg
Vanadium	SW6010B	1	0.10	5.00	32.3	mg/Kg
Zinc	SW6010B	1	0.30	5.00	79.0	mg/Kg
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	7.77	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	27.8	mg/Kg
Toluene	SW8260B	1	1.8	10	11.3	ug/Kg

S7@5'

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.15	3.00	3.70	mg/Kg
Barium	SW6010B	1	0.055	5.00	159	mg/Kg
Chromium	SW6010B	1	0.075	5.00	45.3	mg/Kg
Cobalt	SW6010B	1	0.070	5.00	11.1	mg/Kg
Copper	SW6010B	1	0.20	5.00	30.7	mg/Kg
Lead	SW6010B	1	0.10	1.30	22.6	mg/Kg
Nickel	SW6010B	1	0.50	5.00	61.2	mg/Kg
Vanadium	SW6010B	1	0.10	5.00	38.5	mg/Kg
Zinc	SW6010B	1	0.30	5.00	79.0	mg/Kg
TPH as Diesel (SG)	SW8015B	2	1.7	4.0	11.5	mg/Kg
TPH as Motor Oil (SG)	SW8015B	2	6.4	20	103	mg/Kg
Tetrachloroethylene	SW8260B	1	1.7	10	52.9	ug/Kg



Sample Result Summary

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date Received: 04/05/18
Date Reported: 04/10/18

1804048-010

S7@10'

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.15	3.00	7.43	mg/Kg
Barium	SW6010B	1	0.055	5.00	206	mg/Kg
Chromium	SW6010B	1	0.075	5.00	45.6	mg/Kg
Cobalt	SW6010B	1	0.070	5.00	11.3	mg/Kg
Copper	SW6010B	1	0.20	5.00	21.8	mg/Kg
Lead	SW6010B	1	0.10	1.30	6.35	mg/Kg
Nickel	SW6010B	1	0.50	5.00	60.4	mg/Kg
Vanadium	SW6010B	1	0.10	5.00	44.1	mg/Kg
Zinc	SW6010B	1	0.30	5.00	45.5	mg/Kg
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	4.24	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	17.4	mg/Kg
Tetrachloroethylene	SW8260B	1	1.7	10	20.0	ug/Kg

S1@1'

1804048-011

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.15	3.00	4.15	mg/Kg
Barium	SW6010B	1	0.055	5.00	229	mg/Kg
Chromium	SW6010B	1	0.075	5.00	31.0	mg/Kg
Cobalt	SW6010B	1	0.070	5.00	8.93	mg/Kg
Copper	SW6010B	1	0.20	5.00	27.6	mg/Kg
Lead	SW6010B	1	0.10	1.30	9.85	mg/Kg
Nickel	SW6010B	1	0.50	5.00	41.9	mg/Kg
Vanadium	SW6010B	1	0.10	5.00	31.6	mg/Kg
Zinc	SW6010B	1	0.30	5.00	47.3	mg/Kg
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	6.58	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	38.5	mg/Kg
Tetrachloroethylene	SW8260B	1	1.7	10	19.7	ug/Kg



Sample Result Summary

Report prepared for: Divya Bhargava
Date Received: 04/05/18
 Engeo (San Ramon) **Date Reported:** 04/10/18
S1@5' **1804048-012**

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.15	3.00	6.57	mg/Kg
Barium	SW6010B	1	0.055	5.00	164	mg/Kg
Chromium	SW6010B	1	0.075	5.00	50.8	mg/Kg
Cobalt	SW6010B	1	0.070	5.00	11.9	mg/Kg
Copper	SW6010B	1	0.20	5.00	26.2	mg/Kg
Lead	SW6010B	1	0.10	1.30	10.8	mg/Kg
Nickel	SW6010B	1	0.50	5.00	73.8	mg/Kg
Vanadium	SW6010B	1	0.10	5.00	30.7	mg/Kg
Zinc	SW6010B	1	0.30	5.00	54.1	mg/Kg
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	9.24	mg/Kg
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	96.3	mg/Kg
Toluene	SW8260B	1	1.8	10	12.0	ug/Kg
Tetrachloroethylene	SW8260B	1	1.7	10	65.8	ug/Kg

S1@10' **1804048-013**

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.15	3.00	3.80	mg/Kg
Barium	SW6010B	1	0.055	5.00	114	mg/Kg
Chromium	SW6010B	1	0.075	5.00	43.5	mg/Kg
Cobalt	SW6010B	1	0.070	5.00	10.1	mg/Kg
Copper	SW6010B	1	0.20	5.00	23.2	mg/Kg
Lead	SW6010B	1	0.10	1.30	16.7	mg/Kg
Nickel	SW6010B	1	0.50	5.00	59.4	mg/Kg
Vanadium	SW6010B	1	0.10	5.00	35.4	mg/Kg
Zinc	SW6010B	1	0.30	5.00	55.2	mg/Kg
TPH as Diesel (SG)	SW8015B	2	1.7	4.0	11.7	mg/Kg
TPH as Motor Oil (SG)	SW8015B	2	6.4	20	79.8	mg/Kg
Tetrachloroethylene	SW8260B	2.5	4.2	25	163	ug/Kg



Sample Result Summary

Report prepared for: Divya Bhargava **Date Received:** 04/05/18
Engeo (San Ramon) **Date Reported:** 04/10/18

GW-6

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Antimony	SW6010B	1	0.0050	0.010	0.0231	mg/L
Arsenic	SW6010B	1	0.0040	0.010	0.342	mg/L
Barium	SW6010B	1	0.0010	0.0050	11.6	mg/L
Beryllium	SW6010B	1	0.0010	0.0050	0.0463	mg/L
Chromium	SW6010B	1	0.0010	0.0050	4.12	mg/L
Cobalt	SW6010B	1	0.0010	0.0050	1.09	mg/L
Copper	SW6010B	1	0.0020	0.0050	3.18	mg/L
Lead	SW6010B	1	0.0014	0.010	0.599	mg/L
Nickel	SW6010B	1	0.0020	0.0050	6.10	mg/L
Vanadium	SW6010B	1	0.0020	0.0050	2.66	mg/L
Zinc	SW6010B	1	0.0020	0.010	5.24	mg/L
Mercury	SW7470A	1	0.00013	0.00020	0.0071	mg/L
TPH as Diesel	SW8015B	1	0.054	0.15	0.166	mg/L

GW-2

1804048-015

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH(Gasoline)	8260TPH	1	29	50	2110	ug/L
Antimony	SW6010B	1	0.0050	0.010	0.0123	mg/L
Arsenic	SW6010B	1	0.0040	0.010	0.293	mg/L
Barium	SW6010B	1	0.0010	0.0050	11.6	mg/L
Beryllium	SW6010B	1	0.0010	0.0050	0.0359	mg/L
Chromium	SW6010B	1	0.0010	0.0050	2.92	mg/L
Cobalt	SW6010B	1	0.0010	0.0050	0.785	mg/L
Copper	SW6010B	1	0.0020	0.0050	2.33	mg/L
Lead	SW6010B	1	0.0014	0.010	0.470	mg/L
Nickel	SW6010B	1	0.0020	0.0050	4.33	mg/L
Thallium	SW6010B	1	0.0040	0.015	0.0310	mg/L
Vanadium	SW6010B	1	0.0020	0.0050	2.06	mg/L
Zinc	SW6010B	1	0.0020	0.010	4.16	mg/L
Mercury	SW7470A	1	0.00013	0.00020	0.0037	mg/L
Tetrachloroethylene	SW8260B	84	20	42	3500	ug/L



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID: S6@1'
Project Name/Location: 580 Lorraine
Project Number: 14121.001.000
Date/Time Sampled: 04/05/18 / 8:12
SDG:

Lab Sample ID: 1804048-001A
Sample Matrix: Soil

Prep Method: 7471BP Prep Batch Date/Time: 4/9/18 4:20:00PM
Prep Batch ID: 1104090 Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	04/10/18	14:07	BJAY	430871



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon) Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S6@1'	Lab Sample ID:	1804048-001A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 8:12		
SDG:			

Prep Method:	3050B	Prep Batch Date/Time:	4/9/18	4:20:00PM
Prep Batch ID:	1104089	Prep Analyst:	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	12:15	PPATEL	430874
Arsenic	SW6010B	1	0.15	3.00	8.28		mg/Kg	04/10/18	12:15	PPATEL	430874
Barium	SW6010B	1	0.055	5.00	131		mg/Kg	04/10/18	12:15	PPATEL	430874
Beryllium	SW6010B	1	0.055	5.00	ND		mg/Kg	04/10/18	12:15	PPATEL	430874
Cadmium	SW6010B	1	0.10	5.00	ND		mg/Kg	04/10/18	12:15	PPATEL	430874
Chromium	SW6010B	1	0.075	5.00	41.8		mg/Kg	04/10/18	12:15	PPATEL	430874
Cobalt	SW6010B	1	0.070	5.00	9.96		mg/Kg	04/10/18	12:15	PPATEL	430874
Copper	SW6010B	1	0.20	5.00	28.1		mg/Kg	04/10/18	12:15	PPATEL	430874
Lead	SW6010B	1	0.10	1.30	63.3		mg/Kg	04/10/18	12:15	PPATEL	430874
Molybdenum	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	12:15	PPATEL	430874
Nickel	SW6010B	1	0.50	5.00	57.9		mg/Kg	04/10/18	12:15	PPATEL	430874
Selenium	SW6010B	1	0.22	5.00	ND		mg/Kg	04/10/18	12:15	PPATEL	430874
Silver	SW6010B	1	0.15	5.00	ND		mg/Kg	04/10/18	12:15	PPATEL	430874
Thallium	SW6010B	1	0.20	5.00	ND		mg/Kg	04/10/18	12:15	PPATEL	430874
Vanadium	SW6010B	1	0.10	5.00	30.8		mg/Kg	04/10/18	12:15	PPATEL	430874
Zinc	SW6010B	1	0.30	5.00	86.2		mg/Kg	04/10/18	12:15	PPATEL	430874



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S6@1'	Lab Sample ID:	1804048-001A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 8:12		
SDG:			

Prep Method:	3546_TPHSG	Prep Batch Date/Time:	4/6/18 5:38:00PM
Prep Batch ID:	1104057	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	5.44	X	mg/Kg	04/09/18	15:00	mk	430860
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	15.6		mg/Kg	04/09/18	15:00	mk	430860
Pentacosane (S)	SW8015B	Acceptance Limits			81.4		%	04/09/18	15:00	mk	430860
NOTE: x- Diesel result due to over-lapping of oil range organics and presence of discrete peaks within diesel quantified range.											



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S6@1'	Lab Sample ID:	1804048-001A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 8:12		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/9/18	9:22:00AM
Prep Batch ID:	1104109	Prep Analyst:	NPAR	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	04/10/18	0:52	NP	430855
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	04/10/18	0:52	NP	430855
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	04/10/18	0:52	NP	430855
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	04/10/18	0:52	NP	430855
tert-Butanol	SW8260B	1	12	50	ND		ug/Kg	04/10/18	0:52	NP	430855
Diisopropyl ether (DIPE)	SW8260B	1	2.3	10	ND		ug/Kg	04/10/18	0:52	NP	430855
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	04/10/18	0:52	NP	430855
ETBE	SW8260B	1	2.3	10	ND		ug/Kg	04/10/18	0:52	NP	430855
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	04/10/18	0:52	NP	430855
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	04/10/18	0:52	NP	430855
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	04/10/18	0:52	NP	430855
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	04/10/18	0:52	NP	430855
TAME	SW8260B	1	2.3	10	ND		ug/Kg	04/10/18	0:52	NP	430855
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Trichloroethylene	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	0:52	NP	430855
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	04/10/18	0:52	NP	430855
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Tetrachloroethylene	SW8260B	1	1.7	10	ND		ug/Kg	04/10/18	0:52	NP	430855
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	04/10/18	0:52	NP	430855
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	04/10/18	0:52	NP	430855
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	0:52	NP	430855
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	0:52	NP	430855



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S6@1'	Lab Sample ID:	1804048-001A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 8:12		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/9/18	9:22:00AM
Prep Batch ID:	1104109	Prep Analyst:	NPAR	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Ethyl Benzene	SW8260B	1	1.7	10	ND		ug/Kg	04/10/18	0:52	NP	430855
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	04/10/18	0:52	NP	430855
m,p-Xylene	SW8260B	1	3.2	10	115		ug/Kg	04/10/18	0:52	NP	430855
o-Xylene	SW8260B	1	1.7	10	50.6		ug/Kg	04/10/18	0:52	NP	430855
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	04/10/18	0:52	NP	430855
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	0:52	NP	430855
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	04/10/18	0:52	NP	430855
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	0:52	NP	430855
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/10/18	0:52	NP	430855
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/10/18	0:52	NP	430855
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	04/10/18	0:52	NP	430855
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/10/18	0:52	NP	430855
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	04/10/18	0:52	NP	430855
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	04/10/18	0:52	NP	430855
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	04/10/18	0:52	NP	430855
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/10/18	0:52	NP	430855
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/10/18	0:52	NP	430855
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	04/10/18	0:52	NP	430855
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	0:52	NP	430855
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	04/10/18	0:52	NP	430855
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	04/10/18	0:52	NP	430855
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	04/10/18	0:52	NP	430855
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/10/18	0:52	NP	430855
2-Butanone	SW8260B	1	2.3	10	ND		ug/Kg	04/10/18	0:52	NP	430855
(S) Dibromofluoromethane	SW8260B		59.8 - 148		119		%	04/10/18	0:52	NP	430855
(S) Toluene-d8	SW8260B		55.2 - 133		109		%	04/10/18	0:52	NP	430855
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		132		%	04/10/18	0:52	NP	430855



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S6@1'	Lab Sample ID:	1804048-001A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 8:12		
SDG:			

Prep Method: 5035GRO	Prep Batch Date/Time: 4/9/18 9:22:00AM
Prep Batch ID: 1104111	Prep Analyst: NPAR

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	43	100	149	x	ug/Kg	04/10/18	0:52	NP	430855
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		67.3		%	04/10/18	0:52	NP	430855

NOTE: x – Does not match pattern of reference Gasoline standard. Reported TPH value includes contribution from heavy end hydrocarbons.



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID: S6@5'
Project Name/Location: 580 Lorraine
Project Number: 14121.001.000
Date/Time Sampled: 04/05/18 / 8:17
SDG:

Lab Sample ID: 1804048-002A
Sample Matrix: Soil

Prep Method: 7471BP Prep Batch Date/Time: 4/9/18 4:20:00PM
Prep Batch ID: 1104090 Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	04/10/18	14:13	BJAY	430871



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S6@5'	Lab Sample ID:	1804048-002A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 8:17		
SDG:			

Prep Method:	3050B	Prep Batch Date/Time:	4/9/18	4:20:00PM
Prep Batch ID:	1104089	Prep Analyst:	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	12:26	PPATEL	430874
Arsenic	SW6010B	1	0.15	3.00	ND		mg/Kg	04/10/18	12:26	PPATEL	430874
Barium	SW6010B	1	0.055	5.00	155		mg/Kg	04/10/18	12:26	PPATEL	430874
Beryllium	SW6010B	1	0.055	5.00	ND		mg/Kg	04/10/18	12:26	PPATEL	430874
Cadmium	SW6010B	1	0.10	5.00	ND		mg/Kg	04/10/18	12:26	PPATEL	430874
Chromium	SW6010B	1	0.075	5.00	47.5		mg/Kg	04/10/18	12:26	PPATEL	430874
Cobalt	SW6010B	1	0.070	5.00	7.37		mg/Kg	04/10/18	12:26	PPATEL	430874
Copper	SW6010B	1	0.20	5.00	25.1		mg/Kg	04/10/18	12:26	PPATEL	430874
Lead	SW6010B	1	0.10	1.30	9.80		mg/Kg	04/10/18	12:26	PPATEL	430874
Molybdenum	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	12:26	PPATEL	430874
Nickel	SW6010B	1	0.50	5.00	48.5		mg/Kg	04/10/18	12:26	PPATEL	430874
Selenium	SW6010B	1	0.22	5.00	ND		mg/Kg	04/10/18	12:26	PPATEL	430874
Silver	SW6010B	1	0.15	5.00	ND		mg/Kg	04/10/18	12:26	PPATEL	430874
Thallium	SW6010B	1	0.20	5.00	ND		mg/Kg	04/10/18	12:26	PPATEL	430874
Vanadium	SW6010B	1	0.10	5.00	33.2		mg/Kg	04/10/18	12:26	PPATEL	430874
Zinc	SW6010B	1	0.30	5.00	53.4		mg/Kg	04/10/18	12:26	PPATEL	430874



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S6@5'	Lab Sample ID:	1804048-002A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 8:17		
SDG:			

Prep Method:	3546_TPHSG	Prep Batch Date/Time:	4/6/18 5:38:00PM
Prep Batch ID:	1104057	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	3.67	X	mg/Kg	04/09/18	15:24	mk	430860
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	04/09/18	15:24	mk	430860
Acceptance Limits											
Pentacosane (S)	SW8015B	59 - 129		84.0		%	04/09/18	15:24	mk	430860	

NOTE: x-not typical of Diesel ref. std: peaks within Diesel range quantified as diesel



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon) Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S6@5'	Lab Sample ID:	1804048-002A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 8:17		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/7/18	8:17:00AM
Prep Batch ID:	1104093	Prep Analyst:	NPAR	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	04/07/18	18:04	NP	430852
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	04/07/18	18:04	NP	430852
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	04/07/18	18:04	NP	430852
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	04/07/18	18:04	NP	430852
tert-Butanol	SW8260B	1	12	50	ND		ug/Kg	04/07/18	18:04	NP	430852
Diisopropyl ether (DIPE)	SW8260B	1	2.3	10	ND		ug/Kg	04/07/18	18:04	NP	430852
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	04/07/18	18:04	NP	430852
ETBE	SW8260B	1	2.3	10	ND		ug/Kg	04/07/18	18:04	NP	430852
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	04/07/18	18:04	NP	430852
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	04/07/18	18:04	NP	430852
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	04/07/18	18:04	NP	430852
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	04/07/18	18:04	NP	430852
TAME	SW8260B	1	2.3	10	ND		ug/Kg	04/07/18	18:04	NP	430852
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Trichloroethylene	SW8260B	1	1.8	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	04/07/18	18:04	NP	430852
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	04/07/18	18:04	NP	430852
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Tetrachloroethylene	SW8260B	1	1.7	10	ND		ug/Kg	04/07/18	18:04	NP	430852
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	04/07/18	18:04	NP	430852
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	04/07/18	18:04	NP	430852
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	04/07/18	18:04	NP	430852
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	04/07/18	18:04	NP	430852



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S6@5'	Lab Sample ID:	1804048-002A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 8:17		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/7/18	8:17:00AM
Prep Batch ID:	1104093	Prep Analyst:	NPAR	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Ethyl Benzene	SW8260B	1	1.7	10	ND		ug/Kg	04/07/18	18:04	NP	430852
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	04/07/18	18:04	NP	430852
m,p-Xylene	SW8260B	1	3.2	10	21.1		ug/Kg	04/07/18	18:04	NP	430852
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	04/07/18	18:04	NP	430852
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/07/18	18:04	NP	430852
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	04/07/18	18:04	NP	430852
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	04/07/18	18:04	NP	430852
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/07/18	18:04	NP	430852
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/07/18	18:04	NP	430852
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	04/07/18	18:04	NP	430852
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/07/18	18:04	NP	430852
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	04/07/18	18:04	NP	430852
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	04/07/18	18:04	NP	430852
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	04/07/18	18:04	NP	430852
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/07/18	18:04	NP	430852
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/07/18	18:04	NP	430852
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	04/07/18	18:04	NP	430852
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/07/18	18:04	NP	430852
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	04/07/18	18:04	NP	430852
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	04/07/18	18:04	NP	430852
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	04/07/18	18:04	NP	430852
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/07/18	18:04	NP	430852
2-Butanone	SW8260B	1	2.3	10	ND		ug/Kg	04/07/18	18:04	NP	430852
(S) Dibromofluoromethane	SW8260B		59.8 - 148		118		%	04/07/18	18:04	NP	430852
(S) Toluene-d8	SW8260B		55.2 - 133		107		%	04/07/18	18:04	NP	430852
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		108		%	04/07/18	18:04	NP	430852



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S6@5'	Lab Sample ID:	1804048-002A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 8:17		
SDG:			

Prep Method:	5035GRO	Prep Batch Date/Time:	4/7/18	4:17:00AM
Prep Batch ID:	1104105	Prep Analyst:	NPAR	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	43	100	ND		ug/Kg	04/07/18	18:04	NP	430852
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		69.6		%	04/07/18	18:04	NP	430852



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID: S6@10'
Project Name/Location: 580 Lorraine
Project Number: 14121.001.000
Date/Time Sampled: 04/05/18 / 8:22
SDG:

Lab Sample ID: 1804048-003A
Sample Matrix: Soil

Prep Method: 7471BP	Prep Batch Date/Time: 4/9/18 4:20:00PM
Prep Batch ID: 1104090	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	04/10/18	14:18	BJAY	430871



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S6@10'	Lab Sample ID:	1804048-003A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 8:22		
SDG:			

Prep Method:	3050B	Prep Batch Date/Time:	4/9/18	4:20:00PM
Prep Batch ID:	1104089	Prep Analyst:	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	12:34	PPATEL	430874
Arsenic	SW6010B	1	0.15	3.00	6.16		mg/Kg	04/10/18	12:34	PPATEL	430874
Barium	SW6010B	1	0.055	5.00	99.7		mg/Kg	04/10/18	12:34	PPATEL	430874
Beryllium	SW6010B	1	0.055	5.00	ND		mg/Kg	04/10/18	12:34	PPATEL	430874
Cadmium	SW6010B	1	0.10	5.00	ND		mg/Kg	04/10/18	12:34	PPATEL	430874
Chromium	SW6010B	1	0.075	5.00	43.3		mg/Kg	04/10/18	12:34	PPATEL	430874
Cobalt	SW6010B	1	0.070	5.00	10.4		mg/Kg	04/10/18	12:34	PPATEL	430874
Copper	SW6010B	1	0.20	5.00	21.3		mg/Kg	04/10/18	12:34	PPATEL	430874
Lead	SW6010B	1	0.10	1.30	6.80		mg/Kg	04/10/18	12:34	PPATEL	430874
Molybdenum	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	12:34	PPATEL	430874
Nickel	SW6010B	1	0.50	5.00	49.4		mg/Kg	04/10/18	12:34	PPATEL	430874
Selenium	SW6010B	1	0.22	5.00	ND		mg/Kg	04/10/18	12:34	PPATEL	430874
Silver	SW6010B	1	0.15	5.00	ND		mg/Kg	04/10/18	12:34	PPATEL	430874
Thallium	SW6010B	1	0.20	5.00	ND		mg/Kg	04/10/18	12:34	PPATEL	430874
Vanadium	SW6010B	1	0.10	5.00	36.7		mg/Kg	04/10/18	12:34	PPATEL	430874
Zinc	SW6010B	1	0.30	5.00	49.1		mg/Kg	04/10/18	12:34	PPATEL	430874



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S6@10'	Lab Sample ID:	1804048-003A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 8:22		
SDG:			

Prep Method:	3546_TPHSG	Prep Batch Date/Time:	4/6/18 5:38:00PM
Prep Batch ID:	1104057	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	4.34	x	mg/Kg	04/09/18	15:47	mk	430860
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	04/09/18	15:47	mk	430860
Acceptance Limits											
Pentacosane (S)	SW8015B		59 - 129		90.8		%	04/09/18	15:47	mk	430860

NOTE: x-not typical of Diesel ref. std: peaks within Diesel range quantified as diesel



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon) Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S6@10'	Lab Sample ID:	1804048-003A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 8:22		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/8/18	7:01:00AM
Prep Batch ID:	1104088	Prep Analyst:	NPAR	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	04/08/18	16:53	NP	430841
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	04/08/18	16:53	NP	430841
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	04/08/18	16:53	NP	430841
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	16:53	NP	430841
tert-Butanol	SW8260B	1	12	50	ND		ug/Kg	04/08/18	16:53	NP	430841
Diisopropyl ether (DIPE)	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	16:53	NP	430841
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	04/08/18	16:53	NP	430841
ETBE	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	16:53	NP	430841
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	04/08/18	16:53	NP	430841
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	04/08/18	16:53	NP	430841
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	04/08/18	16:53	NP	430841
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	04/08/18	16:53	NP	430841
TAME	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	16:53	NP	430841
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Trichloroethylene	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	16:53	NP	430841
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	04/08/18	16:53	NP	430841
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Tetrachloroethylene	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	16:53	NP	430841
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	16:53	NP	430841
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	16:53	NP	430841
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	16:53	NP	430841
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	16:53	NP	430841



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S6@10'	Lab Sample ID:	1804048-003A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 8:22		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/8/18	7:01:00AM
Prep Batch ID:	1104088	Prep Analyst:	NPAR	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Ethyl Benzene	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	16:53	NP	430841
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	16:53	NP	430841
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	04/08/18	16:53	NP	430841
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	16:53	NP	430841
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	16:53	NP	430841
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	16:53	NP	430841
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	16:53	NP	430841
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	16:53	NP	430841
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	16:53	NP	430841
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	16:53	NP	430841
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	16:53	NP	430841
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	04/08/18	16:53	NP	430841
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	16:53	NP	430841
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	04/08/18	16:53	NP	430841
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	16:53	NP	430841
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	16:53	NP	430841
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	04/08/18	16:53	NP	430841
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	16:53	NP	430841
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	04/08/18	16:53	NP	430841
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	04/08/18	16:53	NP	430841
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	16:53	NP	430841
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	16:53	NP	430841
2-Butanone	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	16:53	NP	430841
(S) Dibromofluoromethane	SW8260B		59.8 - 148		111		%	04/08/18	16:53	NP	430841
(S) Toluene-d8	SW8260B		55.2 - 133		108		%	04/08/18	16:53	NP	430841
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		121		%	04/08/18	16:53	NP	430841



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S6@10'	Lab Sample ID:	1804048-003A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 8:22		
SDG:			

Prep Method: 5035GRO	Prep Batch Date/Time: 4/8/18 7:01:00AM
Prep Batch ID: 1104091	Prep Analyst: NPAR

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	43	100	ND		ug/Kg	04/08/18	16:53	NP	430841
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		95.1		%	04/08/18	16:53	NP	430841



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S5@1'	Lab Sample ID:	1804048-004A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:19		
SDG:			

Prep Method: 7471BP	Prep Batch Date/Time: 4/9/18 4:20:00PM
Prep Batch ID: 1104090	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	04/10/18	14:20	BJAY	430871



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S5@1'	Lab Sample ID:	1804048-004A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:19		
SDG:			

Prep Method:	3050B	Prep Batch Date/Time:	4/9/18	4:20:00PM
Prep Batch ID:	1104089	Prep Analyst:	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	12:38	PPATEL	430874
Arsenic	SW6010B	1	0.15	3.00	5.69		mg/Kg	04/10/18	12:38	PPATEL	430874
Barium	SW6010B	1	0.055	5.00	123		mg/Kg	04/10/18	12:38	PPATEL	430874
Beryllium	SW6010B	1	0.055	5.00	ND		mg/Kg	04/10/18	12:38	PPATEL	430874
Cadmium	SW6010B	1	0.10	5.00	ND		mg/Kg	04/10/18	12:38	PPATEL	430874
Chromium	SW6010B	1	0.075	5.00	51.3		mg/Kg	04/10/18	12:38	PPATEL	430874
Cobalt	SW6010B	1	0.070	5.00	8.72		mg/Kg	04/10/18	12:38	PPATEL	430874
Copper	SW6010B	1	0.20	5.00	24.5		mg/Kg	04/10/18	12:38	PPATEL	430874
Lead	SW6010B	1	0.10	1.30	13.0		mg/Kg	04/10/18	12:38	PPATEL	430874
Molybdenum	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	12:38	PPATEL	430874
Nickel	SW6010B	1	0.50	5.00	57.9		mg/Kg	04/10/18	12:38	PPATEL	430874
Selenium	SW6010B	1	0.22	5.00	ND		mg/Kg	04/10/18	12:38	PPATEL	430874
Silver	SW6010B	1	0.15	5.00	ND		mg/Kg	04/10/18	12:38	PPATEL	430874
Thallium	SW6010B	1	0.20	5.00	ND		mg/Kg	04/10/18	12:38	PPATEL	430874
Vanadium	SW6010B	1	0.10	5.00	38.1		mg/Kg	04/10/18	12:38	PPATEL	430874
Zinc	SW6010B	1	0.30	5.00	55.7		mg/Kg	04/10/18	12:38	PPATEL	430874



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S5@1'	Lab Sample ID:	1804048-004A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:19		
SDG:			

Prep Method:	3546_TPHSG	Prep Batch Date/Time:	4/6/18 5:38:00PM
Prep Batch ID:	1104057	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	4.63	x	mg/Kg	04/09/18	16:11	mk	430860
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	43.2		mg/Kg	04/09/18	16:11	mk	430860
Pentacosane (S)	SW8015B	Acceptance Limits		59 - 129	83.7		%	04/09/18	16:11	mk	430860
NOTE: x- Diesel result due to over-lapping of oil range organics and presence of discrete peaks within diesel quantified range.											



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S5@1'	Lab Sample ID:	1804048-004A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:19		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/9/18	9:22:00AM
Prep Batch ID:	1104109	Prep Analyst:	NPAR	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	04/10/18	1:28	NP	430855
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	04/10/18	1:28	NP	430855
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	04/10/18	1:28	NP	430855
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	04/10/18	1:28	NP	430855
tert-Butanol	SW8260B	1	12	50	ND		ug/Kg	04/10/18	1:28	NP	430855
Diisopropyl ether (DIPE)	SW8260B	1	2.3	10	ND		ug/Kg	04/10/18	1:28	NP	430855
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	04/10/18	1:28	NP	430855
ETBE	SW8260B	1	2.3	10	ND		ug/Kg	04/10/18	1:28	NP	430855
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	04/10/18	1:28	NP	430855
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	04/10/18	1:28	NP	430855
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	04/10/18	1:28	NP	430855
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	04/10/18	1:28	NP	430855
TAME	SW8260B	1	2.3	10	ND		ug/Kg	04/10/18	1:28	NP	430855
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Trichloroethylene	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	1:28	NP	430855
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	04/10/18	1:28	NP	430855
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Tetrachloroethylene	SW8260B	1	1.7	10	ND		ug/Kg	04/10/18	1:28	NP	430855
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	04/10/18	1:28	NP	430855
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	04/10/18	1:28	NP	430855
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	1:28	NP	430855
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	1:28	NP	430855



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S5@1'	Lab Sample ID:	1804048-004A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:19		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/9/18	9:22:00AM
Prep Batch ID:	1104109	Prep Analyst:	NPAR	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Ethyl Benzene	SW8260B	1	1.7	10	ND		ug/Kg	04/10/18	1:28	NP	430855
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	04/10/18	1:28	NP	430855
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	04/10/18	1:28	NP	430855
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	04/10/18	1:28	NP	430855
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	1:28	NP	430855
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	04/10/18	1:28	NP	430855
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	1:28	NP	430855
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/10/18	1:28	NP	430855
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/10/18	1:28	NP	430855
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	04/10/18	1:28	NP	430855
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/10/18	1:28	NP	430855
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	04/10/18	1:28	NP	430855
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	04/10/18	1:28	NP	430855
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	04/10/18	1:28	NP	430855
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/10/18	1:28	NP	430855
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/10/18	1:28	NP	430855
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	04/10/18	1:28	NP	430855
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	1:28	NP	430855
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	04/10/18	1:28	NP	430855
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	04/10/18	1:28	NP	430855
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	04/10/18	1:28	NP	430855
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/10/18	1:28	NP	430855
2-Butanone	SW8260B	1	2.3	10	ND		ug/Kg	04/10/18	1:28	NP	430855
(S) Dibromofluoromethane	SW8260B		59.8 - 148		126		%	04/10/18	1:28	NP	430855
(S) Toluene-d8	SW8260B		55.2 - 133		119		%	04/10/18	1:28	NP	430855
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		142	S	%	04/10/18	1:28	NP	430855

NOTE: S - Surrogate recovery out of limits; matrix effect suspected.



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S5@1'
Project Name/Location:	580 Lorraine
Project Number:	14121.001.000
Date/Time Sampled:	04/05/18 / 10:19
SDG:	

Lab Sample ID: 1804048-004A
Sample Matrix: Soil

Prep Method: 5035GRO	Prep Batch Date/Time: 4/9/18 9:22:00AM
Prep Batch ID: 1104111	Prep Analyst: NPAR

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	43	100	ND		ug/Kg	04/10/18	1:28	NP	430855
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		53.4		%	04/10/18	1:28	NP	430855



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S2@1'	Lab Sample ID:	1804048-005A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:38		
SDG:			

Prep Method: 7471BP	Prep Batch Date/Time: 4/9/18 4:20:00PM
Prep Batch ID: 1104090	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	04/10/18	14:22	BJAY	430871



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S2@1'	Lab Sample ID:	1804048-005A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:38		
SDG:			

Prep Method:	3050B	Prep Batch Date/Time:	4/9/18	4:20:00PM
Prep Batch ID:	1104089	Prep Analyst:	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	12:42	PPATEL	430874
Arsenic	SW6010B	1	0.15	3.00	3.75		mg/Kg	04/10/18	12:42	PPATEL	430874
Barium	SW6010B	1	0.055	5.00	122		mg/Kg	04/10/18	12:42	PPATEL	430874
Beryllium	SW6010B	1	0.055	5.00	ND		mg/Kg	04/10/18	12:42	PPATEL	430874
Cadmium	SW6010B	1	0.10	5.00	ND		mg/Kg	04/10/18	12:42	PPATEL	430874
Chromium	SW6010B	1	0.075	5.00	46.4		mg/Kg	04/10/18	12:42	PPATEL	430874
Cobalt	SW6010B	1	0.070	5.00	9.56		mg/Kg	04/10/18	12:42	PPATEL	430874
Copper	SW6010B	1	0.20	5.00	31.0		mg/Kg	04/10/18	12:42	PPATEL	430874
Lead	SW6010B	1	0.10	1.30	35.7		mg/Kg	04/10/18	12:42	PPATEL	430874
Molybdenum	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	12:42	PPATEL	430874
Nickel	SW6010B	1	0.50	5.00	69.5		mg/Kg	04/10/18	12:42	PPATEL	430874
Selenium	SW6010B	1	0.22	5.00	ND		mg/Kg	04/10/18	12:42	PPATEL	430874
Silver	SW6010B	1	0.15	5.00	ND		mg/Kg	04/10/18	12:42	PPATEL	430874
Thallium	SW6010B	1	0.20	5.00	ND		mg/Kg	04/10/18	12:42	PPATEL	430874
Vanadium	SW6010B	1	0.10	5.00	34.3		mg/Kg	04/10/18	12:42	PPATEL	430874
Zinc	SW6010B	1	0.30	5.00	63.2		mg/Kg	04/10/18	12:42	PPATEL	430874



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S2@1'	Lab Sample ID:	1804048-005A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:38		
SDG:			

Prep Method:	3546_TPHSG	Prep Batch Date/Time:	4/6/18 5:38:00PM
Prep Batch ID:	1104057	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	6.81	x	mg/Kg	04/09/18	16:35	mk	430860
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	54.9		mg/Kg	04/09/18	16:35	mk	430860
Pentacosane (S)	SW8015B	Acceptance Limits		59 - 129	85.3		%	04/09/18	16:35	mk	430860
NOTE: x- Diesel result due to over-lapping of oil range organics and presence of discrete peaks within diesel quantified range.											



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S2@1'	Lab Sample ID:	1804048-005A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:38		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/9/18	9:55:00AM
Prep Batch ID:	1104124	Prep Analyst:	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chloromethane	SW8260B	2.5	4.6	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Vinyl Chloride	SW8260B	2.5	5.1	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Bromomethane	SW8260B	2.5	6.7	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Chloroethane	SW8260B	2.5	7.5	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Trichlorofluoromethane	SW8260B	2.5	5.2	25	ND		ug/Kg	04/09/18	18:19	NP	430865
1,1-Dichloroethene	SW8260B	2.5	5.1	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Freon 113	SW8260B	2.5	4.7	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Methylene Chloride	SW8260B	2.5	18	25	ND		ug/Kg	04/09/18	18:19	NP	430865
trans-1,2-Dichloroethene	SW8260B	2.5	5.2	25	ND		ug/Kg	04/09/18	18:19	NP	430865
MTBE	SW8260B	2.5	5.9	25	ND		ug/Kg	04/09/18	18:19	NP	430865
tert-Butanol	SW8260B	2.5	29	130	ND		ug/Kg	04/09/18	18:19	NP	430865
Diisopropyl ether (DIPE)	SW8260B	2.5	5.7	25	ND		ug/Kg	04/09/18	18:19	NP	430865
1,1-Dichloroethane	SW8260B	2.5	5.5	25	ND		ug/Kg	04/09/18	18:19	NP	430865
ETBE	SW8260B	2.5	5.7	25	ND		ug/Kg	04/09/18	18:19	NP	430865
cis-1,2-Dichloroethene	SW8260B	2.5	5.6	25	ND		ug/Kg	04/09/18	18:19	NP	430865
2,2-Dichloropropane	SW8260B	2.5	4.8	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Bromochloromethane	SW8260B	2.5	5.8	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Chloroform	SW8260B	2.5	5.9	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Carbon Tetrachloride	SW8260B	2.5	5.1	25	ND		ug/Kg	04/09/18	18:19	NP	430865
1,1,1-Trichloroethane	SW8260B	2.5	5.2	25	ND		ug/Kg	04/09/18	18:19	NP	430865
1,1-Dichloropropene	SW8260B	2.5	4.9	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Benzene	SW8260B	2.5	5.6	25	ND		ug/Kg	04/09/18	18:19	NP	430865
TAME	SW8260B	2.5	5.7	25	ND		ug/Kg	04/09/18	18:19	NP	430865
1,2-Dichloroethane	SW8260B	2.5	5.8	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Trichloroethylene	SW8260B	2.5	4.5	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Dibromomethane	SW8260B	2.5	4.6	25	ND		ug/Kg	04/09/18	18:19	NP	430865
1,2-Dichloropropane	SW8260B	2.5	4.7	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Bromodichloromethane	SW8260B	2.5	4.9	25	ND		ug/Kg	04/09/18	18:19	NP	430865
cis-1,3-Dichloropropene	SW8260B	2.5	4.0	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Toluene	SW8260B	2.5	4.6	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Tetrachloroethylene	SW8260B	2.5	4.2	25	279		ug/Kg	04/09/18	18:19	NP	430865
trans-1,3-Dichloropropene	SW8260B	2.5	4.1	25	ND		ug/Kg	04/09/18	18:19	NP	430865
1,1,2-Trichloroethane	SW8260B	2.5	4.6	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Dibromochloromethane	SW8260B	2.5	4.7	25	ND		ug/Kg	04/09/18	18:19	NP	430865
1,3-Dichloropropane	SW8260B	2.5	4.6	25	ND		ug/Kg	04/09/18	18:19	NP	430865
1,2-Dibromoethane	SW8260B	2.5	4.5	25	ND		ug/Kg	04/09/18	18:19	NP	430865



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S2@1'	Lab Sample ID:	1804048-005A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:38		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 4/9/18 9:55:00AM
Prep Batch ID: 1104124	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chlorobenzene	SW8260B	2.5	4.5	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Ethyl Benzene	SW8260B	2.5	4.1	25	ND		ug/Kg	04/09/18	18:19	NP	430865
1,1,1,2-Tetrachloroethane	SW8260B	2.5	4.8	25	ND		ug/Kg	04/09/18	18:19	NP	430865
m,p-Xylene	SW8260B	2.5	7.9	25	ND		ug/Kg	04/09/18	18:19	NP	430865
o-Xylene	SW8260B	2.5	4.3	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Styrene	SW8260B	2.5	4.1	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Bromoform	SW8260B	2.5	4.2	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Isopropyl Benzene	SW8260B	2.5	4.0	25	ND		ug/Kg	04/09/18	18:19	NP	430865
n-Propylbenzene	SW8260B	2.5	3.9	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Bromobenzene	SW8260B	2.5	4.4	25	ND		ug/Kg	04/09/18	18:19	NP	430865
1,1,2,2-Tetrachloroethane	SW8260B	2.5	4.8	25	ND		ug/Kg	04/09/18	18:19	NP	430865
2-Chlorotoluene	SW8260B	2.5	4.4	25	ND		ug/Kg	04/09/18	18:19	NP	430865
1,3,5-Trimethylbenzene	SW8260B	2.5	3.9	25	ND		ug/Kg	04/09/18	18:19	NP	430865
1,2,3-Trichloropropane	SW8260B	2.5	4.8	25	ND		ug/Kg	04/09/18	18:19	NP	430865
4-Chlorotoluene	SW8260B	2.5	4.1	25	ND		ug/Kg	04/09/18	18:19	NP	430865
tert-Butylbenzene	SW8260B	2.5	4.1	25	ND		ug/Kg	04/09/18	18:19	NP	430865
1,2,4-Trimethylbenzene	SW8260B	2.5	3.4	25	ND		ug/Kg	04/09/18	18:19	NP	430865
sec-Butyl Benzene	SW8260B	2.5	3.9	25	ND		ug/Kg	04/09/18	18:19	NP	430865
p-Isopropyltoluene	SW8260B	2.5	3.7	25	ND		ug/Kg	04/09/18	18:19	NP	430865
1,3-Dichlorobenzene	SW8260B	2.5	4.2	25	ND		ug/Kg	04/09/18	18:19	NP	430865
1,4-Dichlorobenzene	SW8260B	2.5	4.3	25	ND		ug/Kg	04/09/18	18:19	NP	430865
n-Butylbenzene	SW8260B	2.5	3.6	25	ND		ug/Kg	04/09/18	18:19	NP	430865
1,2-Dichlorobenzene	SW8260B	2.5	4.4	25	ND		ug/Kg	04/09/18	18:19	NP	430865
1,2-Dibromo-3-Chloropropane	SW8260B	2.5	4.6	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Hexachlorobutadiene	SW8260B	2.5	3.4	25	ND		ug/Kg	04/09/18	18:19	NP	430865
1,2,4-Trichlorobenzene	SW8260B	2.5	3.7	25	ND		ug/Kg	04/09/18	18:19	NP	430865
Naphthalene	SW8260B	2.5	4.2	25	ND		ug/Kg	04/09/18	18:19	NP	430865
1,2,3-Trichlorobenzene	SW8260B	2.5	4.2	25	ND		ug/Kg	04/09/18	18:19	NP	430865
2-Butanone	SW8260B	2.5	5.7	25	ND		ug/Kg	04/09/18	18:19	NP	430865
(S) Dibromofluoromethane	SW8260B		59.8 - 148		100		%	04/09/18	18:19	NP	430865
(S) Toluene-d8	SW8260B		55.2 - 133		109		%	04/09/18	18:19	NP	430865
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		100.		%	04/09/18	18:19	NP	430865



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S2@1'	Lab Sample ID:	1804048-005A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:38		
SDG:			

Prep Method: 5035GRO	Prep Batch Date/Time: 4/9/18 9:55:00AM
Prep Batch ID: 1104125	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	2.5	110	250	ND		ug/Kg	04/09/18	18:19	NP	430865
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		75.9		%	04/09/18	18:19	NP	430865



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S2@5'	Lab Sample ID:	1804048-006A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:42		
SDG:			

Prep Method: 7471BP	Prep Batch Date/Time: 4/9/18 4:20:00PM
Prep Batch ID: 1104090	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	04/10/18	14:24	BJAY	430871



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S2@5'	Lab Sample ID:	1804048-006A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:42		
SDG:			

Prep Method:	3050B	Prep Batch Date/Time:	4/9/18	4:20:00PM
Prep Batch ID:	1104089	Prep Analyst:	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	12:55	PPATEL	430874
Arsenic	SW6010B	1	0.15	3.00	5.38		mg/Kg	04/10/18	12:55	PPATEL	430874
Barium	SW6010B	1	0.055	5.00	142		mg/Kg	04/10/18	12:55	PPATEL	430874
Beryllium	SW6010B	1	0.055	5.00	ND		mg/Kg	04/10/18	12:55	PPATEL	430874
Cadmium	SW6010B	1	0.10	5.00	ND		mg/Kg	04/10/18	12:55	PPATEL	430874
Chromium	SW6010B	1	0.075	5.00	44.6		mg/Kg	04/10/18	12:55	PPATEL	430874
Cobalt	SW6010B	1	0.070	5.00	10.2		mg/Kg	04/10/18	12:55	PPATEL	430874
Copper	SW6010B	1	0.20	5.00	31.0		mg/Kg	04/10/18	12:55	PPATEL	430874
Lead	SW6010B	1	0.10	1.30	47.2		mg/Kg	04/10/18	12:55	PPATEL	430874
Molybdenum	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	12:55	PPATEL	430874
Nickel	SW6010B	1	0.50	5.00	74.2		mg/Kg	04/10/18	12:55	PPATEL	430874
Selenium	SW6010B	1	0.22	5.00	ND		mg/Kg	04/10/18	12:55	PPATEL	430874
Silver	SW6010B	1	0.15	5.00	ND		mg/Kg	04/10/18	12:55	PPATEL	430874
Thallium	SW6010B	1	0.20	5.00	ND		mg/Kg	04/10/18	12:55	PPATEL	430874
Vanadium	SW6010B	1	0.10	5.00	33.2		mg/Kg	04/10/18	12:55	PPATEL	430874
Zinc	SW6010B	1	0.30	5.00	66.6		mg/Kg	04/10/18	12:55	PPATEL	430874



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S2@5'	Lab Sample ID:	1804048-006A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:42		
SDG:			

Prep Method:	3546_TPHSG	Prep Batch Date/Time:	4/6/18 5:38:00PM
Prep Batch ID:	1104057	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	7.09	x	mg/Kg	04/09/18	17:22	mk	430860
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	94.8		mg/Kg	04/09/18	17:22	mk	430860
Acceptance Limits											
Pentacosane (S)	SW8015B		59 - 129		67.5		%	04/09/18	17:22	mk	430860

NOTE: x- Diesel result due to over-lapping of oil range organics and presence of discrete peaks within diesel quantified range.



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon) Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S2@5'	Lab Sample ID:	1804048-006A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:42		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/9/18	9:22:00AM
Prep Batch ID:	1104109	Prep Analyst:	NPAR	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chloromethane	SW8260B	5	9.1	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Vinyl Chloride	SW8260B	5	10	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Bromomethane	SW8260B	5	13	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Chloroethane	SW8260B	5	15	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Trichlorofluoromethane	SW8260B	5	10	50	ND		ug/Kg	04/10/18	2:04	NP	430855
1,1-Dichloroethene	SW8260B	5	10	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Freon 113	SW8260B	5	9.4	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Methylene Chloride	SW8260B	5	36	50	ND		ug/Kg	04/10/18	2:04	NP	430855
trans-1,2-Dichloroethene	SW8260B	5	10	50	ND		ug/Kg	04/10/18	2:04	NP	430855
MTBE	SW8260B	5	12	50	ND		ug/Kg	04/10/18	2:04	NP	430855
tert-Butanol	SW8260B	5	58	250	ND		ug/Kg	04/10/18	2:04	NP	430855
Diisopropyl ether (DIPE)	SW8260B	5	11	50	ND		ug/Kg	04/10/18	2:04	NP	430855
1,1-Dichloroethane	SW8260B	5	11	50	ND		ug/Kg	04/10/18	2:04	NP	430855
ETBE	SW8260B	5	11	50	ND		ug/Kg	04/10/18	2:04	NP	430855
cis-1,2-Dichloroethene	SW8260B	5	11	50	ND		ug/Kg	04/10/18	2:04	NP	430855
2,2-Dichloropropane	SW8260B	5	9.6	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Bromochloromethane	SW8260B	5	12	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Chloroform	SW8260B	5	12	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Carbon Tetrachloride	SW8260B	5	10	50	ND		ug/Kg	04/10/18	2:04	NP	430855
1,1,1-Trichloroethane	SW8260B	5	10	50	ND		ug/Kg	04/10/18	2:04	NP	430855
1,1-Dichloropropene	SW8260B	5	9.9	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Benzene	SW8260B	5	11	50	ND		ug/Kg	04/10/18	2:04	NP	430855
TAME	SW8260B	5	11	50	ND		ug/Kg	04/10/18	2:04	NP	430855
1,2-Dichloroethane	SW8260B	5	12	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Trichloroethylene	SW8260B	5	9.0	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Dibromomethane	SW8260B	5	9.2	50	ND		ug/Kg	04/10/18	2:04	NP	430855
1,2-Dichloropropane	SW8260B	5	9.3	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Bromodichloromethane	SW8260B	5	9.8	50	ND		ug/Kg	04/10/18	2:04	NP	430855
cis-1,3-Dichloropropene	SW8260B	5	8.0	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Toluene	SW8260B	5	9.1	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Tetrachloroethylene	SW8260B	5	8.3	50	3180	E	ug/Kg	04/10/18	2:04	NP	430855
trans-1,3-Dichloropropene	SW8260B	5	8.2	50	ND		ug/Kg	04/10/18	2:04	NP	430855
1,1,2-Trichloroethane	SW8260B	5	9.2	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Dibromochloromethane	SW8260B	5	9.4	50	ND		ug/Kg	04/10/18	2:04	NP	430855
1,3-Dichloropropane	SW8260B	5	9.2	50	ND		ug/Kg	04/10/18	2:04	NP	430855
1,2-Dibromoethane	SW8260B	5	9.0	50	ND		ug/Kg	04/10/18	2:04	NP	430855



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S2@5'	Lab Sample ID:	1804048-006A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:42		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 4/9/18 9:22:00AM
Prep Batch ID: 1104109	Prep Analyst: NPAR

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chlorobenzene	SW8260B	5	9.1	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Ethyl Benzene	SW8260B	5	8.3	50	ND		ug/Kg	04/10/18	2:04	NP	430855
1,1,1,2-Tetrachloroethane	SW8260B	5	9.7	50	ND		ug/Kg	04/10/18	2:04	NP	430855
m,p-Xylene	SW8260B	5	16	50	ND		ug/Kg	04/10/18	2:04	NP	430855
o-Xylene	SW8260B	5	8.6	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Styrene	SW8260B	5	8.2	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Bromoform	SW8260B	5	8.4	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Isopropyl Benzene	SW8260B	5	8.1	50	ND		ug/Kg	04/10/18	2:04	NP	430855
n-Propylbenzene	SW8260B	5	7.8	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Bromobenzene	SW8260B	5	8.8	50	ND		ug/Kg	04/10/18	2:04	NP	430855
1,1,2,2-Tetrachloroethane	SW8260B	5	9.6	50	ND		ug/Kg	04/10/18	2:04	NP	430855
2-Chlorotoluene	SW8260B	5	8.8	50	ND		ug/Kg	04/10/18	2:04	NP	430855
1,3,5-Trimethylbenzene	SW8260B	5	7.9	50	ND		ug/Kg	04/10/18	2:04	NP	430855
1,2,3-Trichloropropane	SW8260B	5	9.5	50	ND		ug/Kg	04/10/18	2:04	NP	430855
4-Chlorotoluene	SW8260B	5	8.2	50	ND		ug/Kg	04/10/18	2:04	NP	430855
tert-Butylbenzene	SW8260B	5	8.1	50	ND		ug/Kg	04/10/18	2:04	NP	430855
1,2,4-Trimethylbenzene	SW8260B	5	6.8	50	ND		ug/Kg	04/10/18	2:04	NP	430855
sec-Butyl Benzene	SW8260B	5	7.8	50	ND		ug/Kg	04/10/18	2:04	NP	430855
p-Isopropyltoluene	SW8260B	5	7.3	50	ND		ug/Kg	04/10/18	2:04	NP	430855
1,3-Dichlorobenzene	SW8260B	5	8.3	50	ND		ug/Kg	04/10/18	2:04	NP	430855
1,4-Dichlorobenzene	SW8260B	5	8.6	50	ND		ug/Kg	04/10/18	2:04	NP	430855
n-Butylbenzene	SW8260B	5	7.3	50	ND		ug/Kg	04/10/18	2:04	NP	430855
1,2-Dichlorobenzene	SW8260B	5	8.9	50	ND		ug/Kg	04/10/18	2:04	NP	430855
1,2-Dibromo-3-Chloropropane	SW8260B	5	9.2	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Hexachlorobutadiene	SW8260B	5	6.8	50	ND		ug/Kg	04/10/18	2:04	NP	430855
1,2,4-Trichlorobenzene	SW8260B	5	7.4	50	ND		ug/Kg	04/10/18	2:04	NP	430855
Naphthalene	SW8260B	5	8.4	50	ND		ug/Kg	04/10/18	2:04	NP	430855
1,2,3-Trichlorobenzene	SW8260B	5	8.3	50	ND		ug/Kg	04/10/18	2:04	NP	430855
2-Butanone	SW8260B	5	11	50	ND		ug/Kg	04/10/18	2:04	NP	430855
(S) Dibromofluoromethane	SW8260B		59.8 - 148		128		%	04/10/18	2:04	NP	430855
(S) Toluene-d8	SW8260B		55.2 - 133		119		%	04/10/18	2:04	NP	430855
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		133		%	04/10/18	2:04	NP	430855

NOTE: E-Estimated value



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S2@5'	Lab Sample ID:	1804048-006A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:42		
SDG:			

Prep Method:	5035GRO	Prep Batch Date/Time:	4/9/18	9:22:00AM	
Prep Batch ID:	1104111	Prep Analyst:	NPAR		

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	5	220	500	3140	x	ug/Kg	04/10/18	2:04	NP	430855
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		69.0		%	04/10/18	2:04	NP	430855

NOTE: x - Does not match pattern of reference Gasoline standard. Reported value is the result of discrete peak (light end) of non-gasoline compounds within range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID: S2@10'
Project Name/Location: 580 Lorraine
Project Number: 14121.001.000
Date/Time Sampled: 04/05/18 / 10:45
SDG:

Lab Sample ID: 1804048-007A
Sample Matrix: Soil

Prep Method: 7471BP	Prep Batch Date/Time: 4/9/18 4:20:00PM
Prep Batch ID: 1104090	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	04/10/18	14:31	BJAY	430871



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S2@10'	Lab Sample ID:	1804048-007A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:45		
SDG:			

Prep Method:	3050B	Prep Batch Date/Time:	4/9/18	4:20:00PM
Prep Batch ID:	1104089	Prep Analyst:	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	12:59	PPATEL	430874
Arsenic	SW6010B	1	0.15	3.00	3.89		mg/Kg	04/10/18	12:59	PPATEL	430874
Barium	SW6010B	1	0.055	5.00	93.5		mg/Kg	04/10/18	12:59	PPATEL	430874
Beryllium	SW6010B	1	0.055	5.00	ND		mg/Kg	04/10/18	12:59	PPATEL	430874
Cadmium	SW6010B	1	0.10	5.00	ND		mg/Kg	04/10/18	12:59	PPATEL	430874
Chromium	SW6010B	1	0.075	5.00	39.8		mg/Kg	04/10/18	12:59	PPATEL	430874
Cobalt	SW6010B	1	0.070	5.00	8.86		mg/Kg	04/10/18	12:59	PPATEL	430874
Copper	SW6010B	1	0.20	5.00	19.4		mg/Kg	04/10/18	12:59	PPATEL	430874
Lead	SW6010B	1	0.10	1.30	14.7		mg/Kg	04/10/18	12:59	PPATEL	430874
Molybdenum	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	12:59	PPATEL	430874
Nickel	SW6010B	1	0.50	5.00	49.2		mg/Kg	04/10/18	12:59	PPATEL	430874
Selenium	SW6010B	1	0.22	5.00	ND		mg/Kg	04/10/18	12:59	PPATEL	430874
Silver	SW6010B	1	0.15	5.00	ND		mg/Kg	04/10/18	12:59	PPATEL	430874
Thallium	SW6010B	1	0.20	5.00	ND		mg/Kg	04/10/18	12:59	PPATEL	430874
Vanadium	SW6010B	1	0.10	5.00	34.8		mg/Kg	04/10/18	12:59	PPATEL	430874
Zinc	SW6010B	1	0.30	5.00	45.2		mg/Kg	04/10/18	12:59	PPATEL	430874



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S2@10'	Lab Sample ID:	1804048-007A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:45		
SDG:			

Prep Method:	3546_TPHSG	Prep Batch Date/Time:	4/6/18 5:38:00PM
Prep Batch ID:	1104057	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	6.57	x	mg/Kg	04/09/18	20:29	mk	430860
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	16.8		mg/Kg	04/09/18	20:29	mk	430860
Pentacosane (S)	SW8015B	Acceptance Limits		59 - 129	110		%	04/09/18	20:29	mk	430860
NOTE: x- Diesel result due to over-lapping of oil range organics and presence of discrete peaks within diesel quantified range.											



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S2@10'	Lab Sample ID:	1804048-007A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:45		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/9/18	9:22:00AM
Prep Batch ID:	1104109	Prep Analyst:	NPAR	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chloromethane	SW8260B	5	9.1	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Vinyl Chloride	SW8260B	5	10	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Bromomethane	SW8260B	5	13	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Chloroethane	SW8260B	5	15	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Trichlorofluoromethane	SW8260B	5	10	50	ND		ug/Kg	04/10/18	2:41	NP	430855
1,1-Dichloroethene	SW8260B	5	10	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Freon 113	SW8260B	5	9.4	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Methylene Chloride	SW8260B	5	36	50	ND		ug/Kg	04/10/18	2:41	NP	430855
trans-1,2-Dichloroethene	SW8260B	5	10	50	ND		ug/Kg	04/10/18	2:41	NP	430855
MTBE	SW8260B	5	12	50	ND		ug/Kg	04/10/18	2:41	NP	430855
tert-Butanol	SW8260B	5	58	250	ND		ug/Kg	04/10/18	2:41	NP	430855
Diisopropyl ether (DIPE)	SW8260B	5	11	50	ND		ug/Kg	04/10/18	2:41	NP	430855
1,1-Dichloroethane	SW8260B	5	11	50	ND		ug/Kg	04/10/18	2:41	NP	430855
ETBE	SW8260B	5	11	50	ND		ug/Kg	04/10/18	2:41	NP	430855
cis-1,2-Dichloroethene	SW8260B	5	11	50	ND		ug/Kg	04/10/18	2:41	NP	430855
2,2-Dichloropropane	SW8260B	5	9.6	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Bromochloromethane	SW8260B	5	12	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Chloroform	SW8260B	5	12	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Carbon Tetrachloride	SW8260B	5	10	50	ND		ug/Kg	04/10/18	2:41	NP	430855
1,1,1-Trichloroethane	SW8260B	5	10	50	ND		ug/Kg	04/10/18	2:41	NP	430855
1,1-Dichloropropene	SW8260B	5	9.9	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Benzene	SW8260B	5	11	50	ND		ug/Kg	04/10/18	2:41	NP	430855
TAME	SW8260B	5	11	50	ND		ug/Kg	04/10/18	2:41	NP	430855
1,2-Dichloroethane	SW8260B	5	12	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Trichloroethylene	SW8260B	5	9.0	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Dibromomethane	SW8260B	5	9.2	50	ND		ug/Kg	04/10/18	2:41	NP	430855
1,2-Dichloropropane	SW8260B	5	9.3	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Bromodichloromethane	SW8260B	5	9.8	50	ND		ug/Kg	04/10/18	2:41	NP	430855
cis-1,3-Dichloropropene	SW8260B	5	8.0	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Toluene	SW8260B	5	9.1	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Tetrachloroethylene	SW8260B	5	8.3	50	1870	E	ug/Kg	04/10/18	2:41	NP	430855
trans-1,3-Dichloropropene	SW8260B	5	8.2	50	ND		ug/Kg	04/10/18	2:41	NP	430855
1,1,2-Trichloroethane	SW8260B	5	9.2	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Dibromochloromethane	SW8260B	5	9.4	50	ND		ug/Kg	04/10/18	2:41	NP	430855
1,3-Dichloropropane	SW8260B	5	9.2	50	ND		ug/Kg	04/10/18	2:41	NP	430855
1,2-Dibromoethane	SW8260B	5	9.0	50	ND		ug/Kg	04/10/18	2:41	NP	430855



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S2@10'	Lab Sample ID:	1804048-007A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:45		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 4/9/18 9:22:00AM
Prep Batch ID: 1104109	Prep Analyst: NPAR

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chlorobenzene	SW8260B	5	9.1	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Ethyl Benzene	SW8260B	5	8.3	50	ND		ug/Kg	04/10/18	2:41	NP	430855
1,1,1,2-Tetrachloroethane	SW8260B	5	9.7	50	ND		ug/Kg	04/10/18	2:41	NP	430855
m,p-Xylene	SW8260B	5	16	50	ND		ug/Kg	04/10/18	2:41	NP	430855
o-Xylene	SW8260B	5	8.6	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Styrene	SW8260B	5	8.2	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Bromoform	SW8260B	5	8.4	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Isopropyl Benzene	SW8260B	5	8.1	50	ND		ug/Kg	04/10/18	2:41	NP	430855
n-Propylbenzene	SW8260B	5	7.8	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Bromobenzene	SW8260B	5	8.8	50	ND		ug/Kg	04/10/18	2:41	NP	430855
1,1,2,2-Tetrachloroethane	SW8260B	5	9.6	50	ND		ug/Kg	04/10/18	2:41	NP	430855
2-Chlorotoluene	SW8260B	5	8.8	50	ND		ug/Kg	04/10/18	2:41	NP	430855
1,3,5-Trimethylbenzene	SW8260B	5	7.9	50	ND		ug/Kg	04/10/18	2:41	NP	430855
1,2,3-Trichloropropane	SW8260B	5	9.5	50	ND		ug/Kg	04/10/18	2:41	NP	430855
4-Chlorotoluene	SW8260B	5	8.2	50	ND		ug/Kg	04/10/18	2:41	NP	430855
tert-Butylbenzene	SW8260B	5	8.1	50	ND		ug/Kg	04/10/18	2:41	NP	430855
1,2,4-Trimethylbenzene	SW8260B	5	6.8	50	ND		ug/Kg	04/10/18	2:41	NP	430855
sec-Butyl Benzene	SW8260B	5	7.8	50	ND		ug/Kg	04/10/18	2:41	NP	430855
p-Isopropyltoluene	SW8260B	5	7.3	50	ND		ug/Kg	04/10/18	2:41	NP	430855
1,3-Dichlorobenzene	SW8260B	5	8.3	50	ND		ug/Kg	04/10/18	2:41	NP	430855
1,4-Dichlorobenzene	SW8260B	5	8.6	50	ND		ug/Kg	04/10/18	2:41	NP	430855
n-Butylbenzene	SW8260B	5	7.3	50	ND		ug/Kg	04/10/18	2:41	NP	430855
1,2-Dichlorobenzene	SW8260B	5	8.9	50	ND		ug/Kg	04/10/18	2:41	NP	430855
1,2-Dibromo-3-Chloropropane	SW8260B	5	9.2	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Hexachlorobutadiene	SW8260B	5	6.8	50	ND		ug/Kg	04/10/18	2:41	NP	430855
1,2,4-Trichlorobenzene	SW8260B	5	7.4	50	ND		ug/Kg	04/10/18	2:41	NP	430855
Naphthalene	SW8260B	5	8.4	50	ND		ug/Kg	04/10/18	2:41	NP	430855
1,2,3-Trichlorobenzene	SW8260B	5	8.3	50	ND		ug/Kg	04/10/18	2:41	NP	430855
2-Butanone	SW8260B	5	11	50	ND		ug/Kg	04/10/18	2:41	NP	430855
(S) Dibromofluoromethane	SW8260B		59.8 - 148		125		%	04/10/18	2:41	NP	430855
(S) Toluene-d8	SW8260B		55.2 - 133		114		%	04/10/18	2:41	NP	430855
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		124		%	04/10/18	2:41	NP	430855

NOTE: E-Estimated value



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S2@10'	Lab Sample ID:	1804048-007A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 10:45		
SDG:			

Prep Method: 5035GRO	Prep Batch Date/Time: 4/8/18 6:42:00AM
Prep Batch ID: 1104121	Prep Analyst: NPAR

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	43	100	244	x	ug/Kg	04/08/18	10:20	NP	430858
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		63.2		%	04/08/18	10:20	NP	430858

NOTE: x - Does not match pattern of reference Gasoline standard. Reported TPH value includes amount due to discrete peak and non-target hydrocarbons within range of C5-C12 quantified as gasoline.



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S7@1'	Lab Sample ID:	1804048-008A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:44		
SDG:			

Prep Method: 7471BP	Prep Batch Date/Time: 4/9/18 4:20:00PM
Prep Batch ID: 1104090	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	04/10/18	14:33	BJAY	430871



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S7@1'	Lab Sample ID:	1804048-008A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:44		
SDG:			

Prep Method:	3050B	Prep Batch Date/Time:	4/9/18	4:20:00PM
Prep Batch ID:	1104089	Prep Analyst:	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	13:03	PPATEL	430874
Arsenic	SW6010B	1	0.15	3.00	3.66		mg/Kg	04/10/18	13:03	PPATEL	430874
Barium	SW6010B	1	0.055	5.00	180		mg/Kg	04/10/18	13:03	PPATEL	430874
Beryllium	SW6010B	1	0.055	5.00	ND		mg/Kg	04/10/18	13:03	PPATEL	430874
Cadmium	SW6010B	1	0.10	5.00	ND		mg/Kg	04/10/18	13:03	PPATEL	430874
Chromium	SW6010B	1	0.075	5.00	37.3		mg/Kg	04/10/18	13:03	PPATEL	430874
Cobalt	SW6010B	1	0.070	5.00	10.0		mg/Kg	04/10/18	13:03	PPATEL	430874
Copper	SW6010B	1	0.20	5.00	34.0		mg/Kg	04/10/18	13:03	PPATEL	430874
Lead	SW6010B	1	0.10	1.30	30.1		mg/Kg	04/10/18	13:03	PPATEL	430874
Molybdenum	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	13:03	PPATEL	430874
Nickel	SW6010B	1	0.50	5.00	54.6		mg/Kg	04/10/18	13:03	PPATEL	430874
Selenium	SW6010B	1	0.22	5.00	ND		mg/Kg	04/10/18	13:03	PPATEL	430874
Silver	SW6010B	1	0.15	5.00	ND		mg/Kg	04/10/18	13:03	PPATEL	430874
Thallium	SW6010B	1	0.20	5.00	ND		mg/Kg	04/10/18	13:03	PPATEL	430874
Vanadium	SW6010B	1	0.10	5.00	32.3		mg/Kg	04/10/18	13:03	PPATEL	430874
Zinc	SW6010B	1	0.30	5.00	79.0		mg/Kg	04/10/18	13:03	PPATEL	430874



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S7@1'	Lab Sample ID:	1804048-008A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:44		
SDG:			

Prep Method:	3546_TPHSG	Prep Batch Date/Time:	4/6/18 5:38:00PM
Prep Batch ID:	1104057	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	7.77	x	mg/Kg	04/09/18	20:52	mk	430860
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	27.8		mg/Kg	04/09/18	20:52	mk	430860
Pentacosane (S)	SW8015B	Acceptance Limits		59 - 129		81.2	%	04/09/18	20:52	mk	430860
NOTE: x- Diesel result due to over-lapping of oil range organics and presence of discrete peaks within diesel quantified range.											



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon) Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S7@1'	Lab Sample ID:	1804048-008A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:44		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/9/18	9:55:00AM
Prep Batch ID:	1104124	Prep Analyst:	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	04/09/18	16:21	NP	430865
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	04/09/18	16:21	NP	430865
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	04/09/18	16:21	NP	430865
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	16:21	NP	430865
tert-Butanol	SW8260B	1	12	50	ND		ug/Kg	04/09/18	16:21	NP	430865
Diisopropyl ether (DIPE)	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	16:21	NP	430865
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	04/09/18	16:21	NP	430865
ETBE	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	16:21	NP	430865
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	04/09/18	16:21	NP	430865
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	04/09/18	16:21	NP	430865
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	04/09/18	16:21	NP	430865
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	04/09/18	16:21	NP	430865
TAME	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	16:21	NP	430865
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Trichloroethylene	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:21	NP	430865
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	04/09/18	16:21	NP	430865
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Toluene	SW8260B	1	1.8	10	11.3		ug/Kg	04/09/18	16:21	NP	430865
Tetrachloroethylene	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	16:21	NP	430865
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	16:21	NP	430865
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	16:21	NP	430865
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:21	NP	430865
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:21	NP	430865



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S7@1'	Lab Sample ID:	1804048-008A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:44		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/9/18	9:55:00AM
Prep Batch ID:	1104124	Prep Analyst:	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Ethyl Benzene	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	16:21	NP	430865
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	16:21	NP	430865
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	04/09/18	16:21	NP	430865
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	16:21	NP	430865
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:21	NP	430865
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	16:21	NP	430865
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:21	NP	430865
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	16:21	NP	430865
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	16:21	NP	430865
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	16:21	NP	430865
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	16:21	NP	430865
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	04/09/18	16:21	NP	430865
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	16:21	NP	430865
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	04/09/18	16:21	NP	430865
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	16:21	NP	430865
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	16:21	NP	430865
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	04/09/18	16:21	NP	430865
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:21	NP	430865
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	04/09/18	16:21	NP	430865
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	04/09/18	16:21	NP	430865
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	16:21	NP	430865
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	16:21	NP	430865
2-Butanone	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	16:21	NP	430865
(S) Dibromofluoromethane	SW8260B		59.8 - 148		103		%	04/09/18	16:21	NP	430865
(S) Toluene-d8	SW8260B		55.2 - 133		108		%	04/09/18	16:21	NP	430865
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		99.9		%	04/09/18	16:21	NP	430865



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S7@1'	Lab Sample ID:	1804048-008A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:44		
SDG:			

Prep Method: 5035GRO	Prep Batch Date/Time: 4/8/18 6:42:00AM
Prep Batch ID: 1104121	Prep Analyst: NPAR

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	43	100	ND		ug/Kg	04/08/18	10:52	NP	430858
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		75.6		%	04/08/18	10:52	NP	430858



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S7@5'	Lab Sample ID:	1804048-009A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:47		
SDG:			

Prep Method: 7471BP	Prep Batch Date/Time: 4/9/18 4:20:00PM
Prep Batch ID: 1104090	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	04/10/18	14:35	BJAY	430871



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S7@5'	Lab Sample ID:	1804048-009A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:47		
SDG:			

Prep Method:	3050B	Prep Batch Date/Time:	4/9/18	4:20:00PM
Prep Batch ID:	1104089	Prep Analyst:	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	13:07	PPATEL	430874
Arsenic	SW6010B	1	0.15	3.00	3.70		mg/Kg	04/10/18	13:07	PPATEL	430874
Barium	SW6010B	1	0.055	5.00	159		mg/Kg	04/10/18	13:07	PPATEL	430874
Beryllium	SW6010B	1	0.055	5.00	ND		mg/Kg	04/10/18	13:07	PPATEL	430874
Cadmium	SW6010B	1	0.10	5.00	ND		mg/Kg	04/10/18	13:07	PPATEL	430874
Chromium	SW6010B	1	0.075	5.00	45.3		mg/Kg	04/10/18	13:07	PPATEL	430874
Cobalt	SW6010B	1	0.070	5.00	11.1		mg/Kg	04/10/18	13:07	PPATEL	430874
Copper	SW6010B	1	0.20	5.00	30.7		mg/Kg	04/10/18	13:07	PPATEL	430874
Lead	SW6010B	1	0.10	1.30	22.6		mg/Kg	04/10/18	13:07	PPATEL	430874
Molybdenum	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	13:07	PPATEL	430874
Nickel	SW6010B	1	0.50	5.00	61.2		mg/Kg	04/10/18	13:07	PPATEL	430874
Selenium	SW6010B	1	0.22	5.00	ND		mg/Kg	04/10/18	13:07	PPATEL	430874
Silver	SW6010B	1	0.15	5.00	ND		mg/Kg	04/10/18	13:07	PPATEL	430874
Thallium	SW6010B	1	0.20	5.00	ND		mg/Kg	04/10/18	13:07	PPATEL	430874
Vanadium	SW6010B	1	0.10	5.00	38.5		mg/Kg	04/10/18	13:07	PPATEL	430874
Zinc	SW6010B	1	0.30	5.00	79.0		mg/Kg	04/10/18	13:07	PPATEL	430874



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S7@5'	Lab Sample ID:	1804048-009A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:47		
SDG:			

Prep Method:	3546_TPHSG	Prep Batch Date/Time:	4/6/18 5:38:00PM
Prep Batch ID:	1104057	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	2	1.7	4.0	11.5	x	mg/Kg	04/09/18	21:16	mk	430860
TPH as Motor Oil (SG)	SW8015B	2	6.4	20	103		mg/Kg	04/09/18	21:16	mk	430860
Acceptance Limits											
Pentacosane (S)	SW8015B		59 - 129		79.8		%	04/09/18	21:16	mk	430860

NOTE: x- Diesel result due to over-lapping of oil range organics and presence of discrete peaks within diesel quantified range.



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S7@5'	Lab Sample ID:	1804048-009A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:47		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/8/18	6:32:00AM
Prep Batch ID:	1104119	Prep Analyst:	NPAR	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	04/08/18	11:25	NP	430858
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	04/08/18	11:25	NP	430858
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	04/08/18	11:25	NP	430858
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	11:25	NP	430858
tert-Butanol	SW8260B	1	12	50	ND		ug/Kg	04/08/18	11:25	NP	430858
Diisopropyl ether (DIPE)	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	11:25	NP	430858
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	04/08/18	11:25	NP	430858
ETBE	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	11:25	NP	430858
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	04/08/18	11:25	NP	430858
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	04/08/18	11:25	NP	430858
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	04/08/18	11:25	NP	430858
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	04/08/18	11:25	NP	430858
TAME	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	11:25	NP	430858
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Trichloroethylene	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:25	NP	430858
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	04/08/18	11:25	NP	430858
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Tetrachloroethylene	SW8260B	1	1.7	10	52.9		ug/Kg	04/08/18	11:25	NP	430858
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	11:25	NP	430858
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	11:25	NP	430858
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:25	NP	430858
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:25	NP	430858



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S7@5'	Lab Sample ID:	1804048-009A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:47		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/8/18	6:32:00AM
Prep Batch ID:	1104119	Prep Analyst:	NPAR	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Ethyl Benzene	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	11:25	NP	430858
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	11:25	NP	430858
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	04/08/18	11:25	NP	430858
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	11:25	NP	430858
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:25	NP	430858
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	11:25	NP	430858
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:25	NP	430858
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	11:25	NP	430858
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	11:25	NP	430858
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	11:25	NP	430858
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	11:25	NP	430858
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	04/08/18	11:25	NP	430858
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	11:25	NP	430858
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	04/08/18	11:25	NP	430858
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	11:25	NP	430858
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	11:25	NP	430858
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	04/08/18	11:25	NP	430858
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:25	NP	430858
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	04/08/18	11:25	NP	430858
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	04/08/18	11:25	NP	430858
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	11:25	NP	430858
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	11:25	NP	430858
2-Butanone	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	11:25	NP	430858
(S) Dibromofluoromethane	SW8260B		59.8 - 148		101		%	04/08/18	11:25	NP	430858
(S) Toluene-d8	SW8260B		55.2 - 133		110		%	04/08/18	11:25	NP	430858
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		99.5		%	04/08/18	11:25	NP	430858



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S7@5'	Lab Sample ID:	1804048-009A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:47		
SDG:			

Prep Method: 5035GRO	Prep Batch Date/Time: 4/8/18 6:42:00AM
Prep Batch ID: 1104121	Prep Analyst: NPAR

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	43	100	ND		ug/Kg	04/08/18	11:25	NP	430858
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		64.1		%	04/08/18	11:25	NP	430858



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S7@10'	Lab Sample ID:	1804048-010A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:50		
SDG:			

Prep Method: 7471BP	Prep Batch Date/Time: 4/9/18 4:20:00PM
Prep Batch ID: 1104090	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	04/10/18	14:37	BJAY	430871



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon) Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S7@10'	Lab Sample ID:	1804048-010A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:50		
SDG:			

Prep Method:	3050B	Prep Batch Date/Time:	4/9/18	4:20:00PM
Prep Batch ID:	1104089	Prep Analyst:	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	13:11	PPATEL	430874
Arsenic	SW6010B	1	0.15	3.00	7.43		mg/Kg	04/10/18	13:11	PPATEL	430874
Barium	SW6010B	1	0.055	5.00	206		mg/Kg	04/10/18	13:11	PPATEL	430874
Beryllium	SW6010B	1	0.055	5.00	ND		mg/Kg	04/10/18	13:11	PPATEL	430874
Cadmium	SW6010B	1	0.10	5.00	ND		mg/Kg	04/10/18	13:11	PPATEL	430874
Chromium	SW6010B	1	0.075	5.00	45.6		mg/Kg	04/10/18	13:11	PPATEL	430874
Cobalt	SW6010B	1	0.070	5.00	11.3		mg/Kg	04/10/18	13:11	PPATEL	430874
Copper	SW6010B	1	0.20	5.00	21.8		mg/Kg	04/10/18	13:11	PPATEL	430874
Lead	SW6010B	1	0.10	1.30	6.35		mg/Kg	04/10/18	13:11	PPATEL	430874
Molybdenum	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	13:11	PPATEL	430874
Nickel	SW6010B	1	0.50	5.00	60.4		mg/Kg	04/10/18	13:11	PPATEL	430874
Selenium	SW6010B	1	0.22	5.00	ND		mg/Kg	04/10/18	13:11	PPATEL	430874
Silver	SW6010B	1	0.15	5.00	ND		mg/Kg	04/10/18	13:11	PPATEL	430874
Thallium	SW6010B	1	0.20	5.00	ND		mg/Kg	04/10/18	13:11	PPATEL	430874
Vanadium	SW6010B	1	0.10	5.00	44.1		mg/Kg	04/10/18	13:11	PPATEL	430874
Zinc	SW6010B	1	0.30	5.00	45.5		mg/Kg	04/10/18	13:11	PPATEL	430874



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID: S7@10'
Project Name/Location: 580 Lorraine
Project Number: 14121.001.000
Date/Time Sampled: 04/05/18 / 12:50
SDG:

Lab Sample ID: 1804048-010A
Sample Matrix: Soil

Prep Method: 3546_TPHSG Prep Batch Date/Time: 4/6/18 5:38:00PM
Prep Batch ID: 1104057 Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	4.24	x	mg/Kg	04/09/18	21:39	mk	430860
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	17.4		mg/Kg	04/09/18	21:39	mk	430860
Pentacosane (S)	SW8015B	Acceptance Limits		59 - 129	87.9		%	04/09/18	21:39	mk	430860
NOTE: x- Diesel result due to over-lapping of oil range organics and presence of discrete peaks within diesel quantified range.											



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S7@10'	Lab Sample ID:	1804048-010A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:50		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/8/18	6:32:00AM
Prep Batch ID:	1104119	Prep Analyst:	NPAR	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	04/08/18	11:57	NP	430858
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	04/08/18	11:57	NP	430858
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	04/08/18	11:57	NP	430858
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	11:57	NP	430858
tert-Butanol	SW8260B	1	12	50	ND		ug/Kg	04/08/18	11:57	NP	430858
Diisopropyl ether (DIPE)	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	11:57	NP	430858
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	04/08/18	11:57	NP	430858
ETBE	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	11:57	NP	430858
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	04/08/18	11:57	NP	430858
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	04/08/18	11:57	NP	430858
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	04/08/18	11:57	NP	430858
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	04/08/18	11:57	NP	430858
TAME	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	11:57	NP	430858
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Trichloroethylene	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:57	NP	430858
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	04/08/18	11:57	NP	430858
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Tetrachloroethylene	SW8260B	1	1.7	10	20.0		ug/Kg	04/08/18	11:57	NP	430858
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	11:57	NP	430858
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	11:57	NP	430858
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:57	NP	430858
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:57	NP	430858



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S7@10'	Lab Sample ID:	1804048-010A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:50		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/8/18	6:32:00AM
Prep Batch ID:	1104119	Prep Analyst:	NPAR	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Ethyl Benzene	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	11:57	NP	430858
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	11:57	NP	430858
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	04/08/18	11:57	NP	430858
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	11:57	NP	430858
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:57	NP	430858
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	11:57	NP	430858
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:57	NP	430858
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	11:57	NP	430858
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/08/18	11:57	NP	430858
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	11:57	NP	430858
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	11:57	NP	430858
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	04/08/18	11:57	NP	430858
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	04/08/18	11:57	NP	430858
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	04/08/18	11:57	NP	430858
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	11:57	NP	430858
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	11:57	NP	430858
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	04/08/18	11:57	NP	430858
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:57	NP	430858
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	04/08/18	11:57	NP	430858
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	04/08/18	11:57	NP	430858
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	11:57	NP	430858
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/08/18	11:57	NP	430858
2-Butanone	SW8260B	1	2.3	10	ND		ug/Kg	04/08/18	11:57	NP	430858
(S) Dibromofluoromethane	SW8260B		59.8 - 148		100		%	04/08/18	11:57	NP	430858
(S) Toluene-d8	SW8260B		55.2 - 133		108		%	04/08/18	11:57	NP	430858
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		98.1		%	04/08/18	11:57	NP	430858



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S7@10'	Lab Sample ID:	1804048-010A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:50		
SDG:			

Prep Method: 5035GRO	Prep Batch Date/Time: 4/8/18 6:42:00AM
Prep Batch ID: 1104121	Prep Analyst: NPAR

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	43	100	ND		ug/Kg	04/08/18	11:57	NP	430858
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		71.2		%	04/08/18	11:57	NP	430858



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID: S1@1'
Project Name/Location: 580 Lorraine
Project Number: 14121.001.000
Date/Time Sampled: 04/05/18 / 13:59
SDG:

Lab Sample ID: 1804048-011A
Sample Matrix: Soil

Prep Method: 7471BP Prep Batch Date/Time: 4/9/18 4:20:00PM
Prep Batch ID: 1104090 Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	04/10/18	14:40	BJAY	430871



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S1@1'	Lab Sample ID:	1804048-011A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 13:59		
SDG:			

Prep Method:	3050B	Prep Batch Date/Time:	4/9/18	4:20:00PM
Prep Batch ID:	1104089	Prep Analyst:	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	13:15	PPATEL	430874
Arsenic	SW6010B	1	0.15	3.00	4.15		mg/Kg	04/10/18	13:15	PPATEL	430874
Barium	SW6010B	1	0.055	5.00	229		mg/Kg	04/10/18	13:15	PPATEL	430874
Beryllium	SW6010B	1	0.055	5.00	ND		mg/Kg	04/10/18	13:15	PPATEL	430874
Cadmium	SW6010B	1	0.10	5.00	ND		mg/Kg	04/10/18	13:15	PPATEL	430874
Chromium	SW6010B	1	0.075	5.00	31.0		mg/Kg	04/10/18	13:15	PPATEL	430874
Cobalt	SW6010B	1	0.070	5.00	8.93		mg/Kg	04/10/18	13:15	PPATEL	430874
Copper	SW6010B	1	0.20	5.00	27.6		mg/Kg	04/10/18	13:15	PPATEL	430874
Lead	SW6010B	1	0.10	1.30	9.85		mg/Kg	04/10/18	13:15	PPATEL	430874
Molybdenum	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	13:15	PPATEL	430874
Nickel	SW6010B	1	0.50	5.00	41.9		mg/Kg	04/10/18	13:15	PPATEL	430874
Selenium	SW6010B	1	0.22	5.00	ND		mg/Kg	04/10/18	13:15	PPATEL	430874
Silver	SW6010B	1	0.15	5.00	ND		mg/Kg	04/10/18	13:15	PPATEL	430874
Thallium	SW6010B	1	0.20	5.00	ND		mg/Kg	04/10/18	13:15	PPATEL	430874
Vanadium	SW6010B	1	0.10	5.00	31.6		mg/Kg	04/10/18	13:15	PPATEL	430874
Zinc	SW6010B	1	0.30	5.00	47.3		mg/Kg	04/10/18	13:15	PPATEL	430874



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S1@1'	Lab Sample ID:	1804048-011A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 13:59		
SDG:			

Prep Method:	3546_TPHSG	Prep Batch Date/Time:	4/6/18 5:38:00PM
Prep Batch ID:	1104057	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	6.58	x	mg/Kg	04/09/18	22:03	mk	430860
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	38.5		mg/Kg	04/09/18	22:03	mk	430860
Pentacosane (S)	SW8015B	Acceptance Limits		59 - 129	76.2		%	04/09/18	22:03	mk	430860
NOTE: x- Diesel result due to over-lapping of oil range organics and presence of discrete peaks within diesel quantified range.											



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon) Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S1@1'	Lab Sample ID:	1804048-011A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 13:59		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/9/18	9:55:00AM
Prep Batch ID:	1104124	Prep Analyst:	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	04/09/18	16:50	NP	430865
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	04/09/18	16:50	NP	430865
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	04/09/18	16:50	NP	430865
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	16:50	NP	430865
tert-Butanol	SW8260B	1	12	50	ND		ug/Kg	04/09/18	16:50	NP	430865
Diisopropyl ether (DIPE)	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	16:50	NP	430865
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	04/09/18	16:50	NP	430865
ETBE	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	16:50	NP	430865
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	04/09/18	16:50	NP	430865
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	04/09/18	16:50	NP	430865
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	04/09/18	16:50	NP	430865
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	04/09/18	16:50	NP	430865
TAME	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	16:50	NP	430865
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Trichloroethylene	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:50	NP	430865
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	04/09/18	16:50	NP	430865
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Tetrachloroethylene	SW8260B	1	1.7	10	19.7		ug/Kg	04/09/18	16:50	NP	430865
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	16:50	NP	430865
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	16:50	NP	430865
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:50	NP	430865
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:50	NP	430865



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S1@1'	Lab Sample ID:	1804048-011A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 13:59		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/9/18	9:55:00AM
Prep Batch ID:	1104124	Prep Analyst:	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Ethyl Benzene	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	16:50	NP	430865
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	16:50	NP	430865
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	04/09/18	16:50	NP	430865
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	16:50	NP	430865
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:50	NP	430865
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	16:50	NP	430865
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:50	NP	430865
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	16:50	NP	430865
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	16:50	NP	430865
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	16:50	NP	430865
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	16:50	NP	430865
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	04/09/18	16:50	NP	430865
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	16:50	NP	430865
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	04/09/18	16:50	NP	430865
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	16:50	NP	430865
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	16:50	NP	430865
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	04/09/18	16:50	NP	430865
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:50	NP	430865
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	04/09/18	16:50	NP	430865
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	04/09/18	16:50	NP	430865
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	16:50	NP	430865
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	16:50	NP	430865
2-Butanone	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	16:50	NP	430865
(S) Dibromofluoromethane	SW8260B		59.8 - 148		93.6		%	04/09/18	16:50	NP	430865
(S) Toluene-d8	SW8260B		55.2 - 133		109		%	04/09/18	16:50	NP	430865
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		100		%	04/09/18	16:50	NP	430865



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S1@1'	Lab Sample ID:	1804048-011A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 13:59		
SDG:			

Prep Method: 5035GRO	Prep Batch Date/Time: 4/8/18 6:42:00AM
Prep Batch ID: 1104121	Prep Analyst: NPAR

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	43	100	ND		ug/Kg	04/08/18	12:31	NP	430858
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		59.6		%	04/08/18	12:31	NP	430858



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S1@5'	Lab Sample ID:	1804048-012A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 14:02		
SDG:			

Prep Method: 7471BP	Prep Batch Date/Time: 4/9/18 4:20:00PM
Prep Batch ID: 1104090	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	04/10/18	14:42	BJAY	430871



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S1@5'	Lab Sample ID:	1804048-012A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 14:02		
SDG:			

Prep Method:	3050B	Prep Batch Date/Time:	4/9/18	4:20:00PM
Prep Batch ID:	1104089	Prep Analyst:	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	13:18	PPATEL	430874
Arsenic	SW6010B	1	0.15	3.00	6.57		mg/Kg	04/10/18	13:18	PPATEL	430874
Barium	SW6010B	1	0.055	5.00	164		mg/Kg	04/10/18	13:18	PPATEL	430874
Beryllium	SW6010B	1	0.055	5.00	ND		mg/Kg	04/10/18	13:18	PPATEL	430874
Cadmium	SW6010B	1	0.10	5.00	ND		mg/Kg	04/10/18	13:18	PPATEL	430874
Chromium	SW6010B	1	0.075	5.00	50.8		mg/Kg	04/10/18	13:18	PPATEL	430874
Cobalt	SW6010B	1	0.070	5.00	11.9		mg/Kg	04/10/18	13:18	PPATEL	430874
Copper	SW6010B	1	0.20	5.00	26.2		mg/Kg	04/10/18	13:18	PPATEL	430874
Lead	SW6010B	1	0.10	1.30	10.8		mg/Kg	04/10/18	13:18	PPATEL	430874
Molybdenum	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	13:18	PPATEL	430874
Nickel	SW6010B	1	0.50	5.00	73.8		mg/Kg	04/10/18	13:18	PPATEL	430874
Selenium	SW6010B	1	0.22	5.00	ND		mg/Kg	04/10/18	13:18	PPATEL	430874
Silver	SW6010B	1	0.15	5.00	ND		mg/Kg	04/10/18	13:18	PPATEL	430874
Thallium	SW6010B	1	0.20	5.00	ND		mg/Kg	04/10/18	13:18	PPATEL	430874
Vanadium	SW6010B	1	0.10	5.00	30.7		mg/Kg	04/10/18	13:18	PPATEL	430874
Zinc	SW6010B	1	0.30	5.00	54.1		mg/Kg	04/10/18	13:18	PPATEL	430874



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID: S1@5'
Project Name/Location: 580 Lorraine
Project Number: 14121.001.000
Date/Time Sampled: 04/05/18 / 14:02
SDG:

Lab Sample ID: 1804048-012A
Sample Matrix: Soil

Prep Method: 3546_TPHSG Prep Batch Date/Time: 4/6/18 5:38:00PM
Prep Batch ID: 1104057 Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	9.24	x	mg/Kg	04/09/18	22:26	mk	430860
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	96.3		mg/Kg	04/09/18	22:26	mk	430860
Pentacosane (S)	SW8015B		Acceptance Limits 59 - 129		68.3		%	04/09/18	22:26	mk	430860

NOTE: x- Diesel result due to over-lapping of oil range organics and presence of discrete peaks within diesel quantified range.



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon) Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S1@5'	Lab Sample ID:	1804048-012A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 14:02		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/9/18	9:55:00AM
Prep Batch ID:	1104124	Prep Analyst:	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	04/09/18	17:20	NP	430865
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	04/09/18	17:20	NP	430865
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	04/09/18	17:20	NP	430865
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	17:20	NP	430865
tert-Butanol	SW8260B	1	12	50	ND		ug/Kg	04/09/18	17:20	NP	430865
Diisopropyl ether (DIPE)	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	17:20	NP	430865
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	04/09/18	17:20	NP	430865
ETBE	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	17:20	NP	430865
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	04/09/18	17:20	NP	430865
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	04/09/18	17:20	NP	430865
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	04/09/18	17:20	NP	430865
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	04/09/18	17:20	NP	430865
TAME	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	17:20	NP	430865
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Trichloroethylene	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	17:20	NP	430865
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	04/09/18	17:20	NP	430865
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Toluene	SW8260B	1	1.8	10	12.0		ug/Kg	04/09/18	17:20	NP	430865
Tetrachloroethylene	SW8260B	1	1.7	10	65.8		ug/Kg	04/09/18	17:20	NP	430865
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	17:20	NP	430865
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	17:20	NP	430865
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	17:20	NP	430865
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	17:20	NP	430865



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S1@5'	Lab Sample ID:	1804048-012A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 14:02		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/9/18	9:55:00AM
Prep Batch ID:	1104124	Prep Analyst:	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Ethyl Benzene	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	17:20	NP	430865
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	17:20	NP	430865
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	04/09/18	17:20	NP	430865
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	17:20	NP	430865
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	17:20	NP	430865
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	17:20	NP	430865
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	17:20	NP	430865
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	17:20	NP	430865
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	04/09/18	17:20	NP	430865
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	17:20	NP	430865
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	17:20	NP	430865
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	04/09/18	17:20	NP	430865
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	04/09/18	17:20	NP	430865
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	04/09/18	17:20	NP	430865
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	17:20	NP	430865
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	17:20	NP	430865
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	04/09/18	17:20	NP	430865
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	17:20	NP	430865
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	04/09/18	17:20	NP	430865
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	04/09/18	17:20	NP	430865
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	17:20	NP	430865
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	04/09/18	17:20	NP	430865
2-Butanone	SW8260B	1	2.3	10	ND		ug/Kg	04/09/18	17:20	NP	430865
(S) Dibromofluoromethane	SW8260B		59.8 - 148		99.7		%	04/09/18	17:20	NP	430865
(S) Toluene-d8	SW8260B		55.2 - 133		107		%	04/09/18	17:20	NP	430865
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		98.5		%	04/09/18	17:20	NP	430865



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S1@5'	Lab Sample ID:	1804048-012A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 14:02		
SDG:			

Prep Method: 5035GRO	Prep Batch Date/Time: 4/8/18 6:42:00AM
Prep Batch ID: 1104121	Prep Analyst: NPAR

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	43	100	ND		ug/Kg	04/08/18	13:02	NP	430858
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		57.3		%	04/08/18	13:02	NP	430858



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID: S1@10'
Project Name/Location: 580 Lorraine
Project Number: 14121.001.000
Date/Time Sampled: 04/05/18 / 14:05
SDG:

Lab Sample ID: 1804048-013A
Sample Matrix: Soil

Prep Method: 7471BP	Prep Batch Date/Time: 4/9/18 4:20:00PM
Prep Batch ID: 1104090	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	04/10/18	14:44	BJAY	430871



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S1@10'	Lab Sample ID:	1804048-013A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 14:05		
SDG:			

Prep Method:	3050B	Prep Batch Date/Time:	4/9/18	4:20:00PM
Prep Batch ID:	1104089	Prep Analyst:	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	13:22	PPATEL	430874
Arsenic	SW6010B	1	0.15	3.00	3.80		mg/Kg	04/10/18	13:22	PPATEL	430874
Barium	SW6010B	1	0.055	5.00	114		mg/Kg	04/10/18	13:22	PPATEL	430874
Beryllium	SW6010B	1	0.055	5.00	ND		mg/Kg	04/10/18	13:22	PPATEL	430874
Cadmium	SW6010B	1	0.10	5.00	ND		mg/Kg	04/10/18	13:22	PPATEL	430874
Chromium	SW6010B	1	0.075	5.00	43.5		mg/Kg	04/10/18	13:22	PPATEL	430874
Cobalt	SW6010B	1	0.070	5.00	10.1		mg/Kg	04/10/18	13:22	PPATEL	430874
Copper	SW6010B	1	0.20	5.00	23.2		mg/Kg	04/10/18	13:22	PPATEL	430874
Lead	SW6010B	1	0.10	1.30	16.7		mg/Kg	04/10/18	13:22	PPATEL	430874
Molybdenum	SW6010B	1	0.050	5.00	ND		mg/Kg	04/10/18	13:22	PPATEL	430874
Nickel	SW6010B	1	0.50	5.00	59.4		mg/Kg	04/10/18	13:22	PPATEL	430874
Selenium	SW6010B	1	0.22	5.00	ND		mg/Kg	04/10/18	13:22	PPATEL	430874
Silver	SW6010B	1	0.15	5.00	ND		mg/Kg	04/10/18	13:22	PPATEL	430874
Thallium	SW6010B	1	0.20	5.00	ND		mg/Kg	04/10/18	13:22	PPATEL	430874
Vanadium	SW6010B	1	0.10	5.00	35.4		mg/Kg	04/10/18	13:22	PPATEL	430874
Zinc	SW6010B	1	0.30	5.00	55.2		mg/Kg	04/10/18	13:22	PPATEL	430874



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID: S1@10' **Lab Sample ID:** 1804048-013A
Project Name/Location: 580 Lorraine **Sample Matrix:** Soil
Project Number: 14121.001.000
Date/Time Sampled: 04/05/18 / 14:05
SDG:

Prep Method: 3546_TPHSG **Prep Batch Date/Time:** 4/6/18 5:38:00PM
Prep Batch ID: 1104057 **Prep Analyst:** SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	2	1.7	4.0	11.7	x	mg/Kg	04/09/18	22:50	mk	430860
TPH as Motor Oil (SG)	SW8015B	2	6.4	20	79.8		mg/Kg	04/09/18	22:50	mk	430860
Acceptance Limits											
Pentacosane (S)	SW8015B		59 - 129		82.9		%	04/09/18	22:50	mk	430860

NOTE: x- Diesel result due to over-lapping of oil range organics and presence of discrete peaks within diesel quantified range.



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon) Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S1@10'	Lab Sample ID:	1804048-013A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 14:05		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/9/18	9:55:00AM
Prep Batch ID:	1104124	Prep Analyst:	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chloromethane	SW8260B	2.5	4.6	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Vinyl Chloride	SW8260B	2.5	5.1	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Bromomethane	SW8260B	2.5	6.7	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Chloroethane	SW8260B	2.5	7.5	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Trichlorofluoromethane	SW8260B	2.5	5.2	25	ND		ug/Kg	04/09/18	17:49	NP	430865
1,1-Dichloroethene	SW8260B	2.5	5.1	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Freon 113	SW8260B	2.5	4.7	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Methylene Chloride	SW8260B	2.5	18	25	ND		ug/Kg	04/09/18	17:49	NP	430865
trans-1,2-Dichloroethene	SW8260B	2.5	5.2	25	ND		ug/Kg	04/09/18	17:49	NP	430865
MTBE	SW8260B	2.5	5.9	25	ND		ug/Kg	04/09/18	17:49	NP	430865
tert-Butanol	SW8260B	2.5	29	130	ND		ug/Kg	04/09/18	17:49	NP	430865
Diisopropyl ether (DIPE)	SW8260B	2.5	5.7	25	ND		ug/Kg	04/09/18	17:49	NP	430865
1,1-Dichloroethane	SW8260B	2.5	5.5	25	ND		ug/Kg	04/09/18	17:49	NP	430865
ETBE	SW8260B	2.5	5.7	25	ND		ug/Kg	04/09/18	17:49	NP	430865
cis-1,2-Dichloroethene	SW8260B	2.5	5.6	25	ND		ug/Kg	04/09/18	17:49	NP	430865
2,2-Dichloropropane	SW8260B	2.5	4.8	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Bromochloromethane	SW8260B	2.5	5.8	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Chloroform	SW8260B	2.5	5.9	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Carbon Tetrachloride	SW8260B	2.5	5.1	25	ND		ug/Kg	04/09/18	17:49	NP	430865
1,1,1-Trichloroethane	SW8260B	2.5	5.2	25	ND		ug/Kg	04/09/18	17:49	NP	430865
1,1-Dichloropropene	SW8260B	2.5	4.9	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Benzene	SW8260B	2.5	5.6	25	ND		ug/Kg	04/09/18	17:49	NP	430865
TAME	SW8260B	2.5	5.7	25	ND		ug/Kg	04/09/18	17:49	NP	430865
1,2-Dichloroethane	SW8260B	2.5	5.8	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Trichloroethylene	SW8260B	2.5	4.5	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Dibromomethane	SW8260B	2.5	4.6	25	ND		ug/Kg	04/09/18	17:49	NP	430865
1,2-Dichloropropane	SW8260B	2.5	4.7	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Bromodichloromethane	SW8260B	2.5	4.9	25	ND		ug/Kg	04/09/18	17:49	NP	430865
cis-1,3-Dichloropropene	SW8260B	2.5	4.0	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Toluene	SW8260B	2.5	4.6	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Tetrachloroethylene	SW8260B	2.5	4.2	25	163		ug/Kg	04/09/18	17:49	NP	430865
trans-1,3-Dichloropropene	SW8260B	2.5	4.1	25	ND		ug/Kg	04/09/18	17:49	NP	430865
1,1,2-Trichloroethane	SW8260B	2.5	4.6	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Dibromochloromethane	SW8260B	2.5	4.7	25	ND		ug/Kg	04/09/18	17:49	NP	430865
1,3-Dichloropropane	SW8260B	2.5	4.6	25	ND		ug/Kg	04/09/18	17:49	NP	430865
1,2-Dibromoethane	SW8260B	2.5	4.5	25	ND		ug/Kg	04/09/18	17:49	NP	430865



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S1@10'	Lab Sample ID:	1804048-013A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 14:05		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	4/9/18	9:55:00AM
Prep Batch ID:	1104124	Prep Analyst:	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chlorobenzene	SW8260B	2.5	4.5	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Ethyl Benzene	SW8260B	2.5	4.1	25	ND		ug/Kg	04/09/18	17:49	NP	430865
1,1,1,2-Tetrachloroethane	SW8260B	2.5	4.8	25	ND		ug/Kg	04/09/18	17:49	NP	430865
m,p-Xylene	SW8260B	2.5	7.9	25	ND		ug/Kg	04/09/18	17:49	NP	430865
o-Xylene	SW8260B	2.5	4.3	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Styrene	SW8260B	2.5	4.1	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Bromoform	SW8260B	2.5	4.2	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Isopropyl Benzene	SW8260B	2.5	4.0	25	ND		ug/Kg	04/09/18	17:49	NP	430865
n-Propylbenzene	SW8260B	2.5	3.9	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Bromobenzene	SW8260B	2.5	4.4	25	ND		ug/Kg	04/09/18	17:49	NP	430865
1,1,2,2-Tetrachloroethane	SW8260B	2.5	4.8	25	ND		ug/Kg	04/09/18	17:49	NP	430865
2-Chlorotoluene	SW8260B	2.5	4.4	25	ND		ug/Kg	04/09/18	17:49	NP	430865
1,3,5-Trimethylbenzene	SW8260B	2.5	3.9	25	ND		ug/Kg	04/09/18	17:49	NP	430865
1,2,3-Trichloropropane	SW8260B	2.5	4.8	25	ND		ug/Kg	04/09/18	17:49	NP	430865
4-Chlorotoluene	SW8260B	2.5	4.1	25	ND		ug/Kg	04/09/18	17:49	NP	430865
tert-Butylbenzene	SW8260B	2.5	4.1	25	ND		ug/Kg	04/09/18	17:49	NP	430865
1,2,4-Trimethylbenzene	SW8260B	2.5	3.4	25	ND		ug/Kg	04/09/18	17:49	NP	430865
sec-Butyl Benzene	SW8260B	2.5	3.9	25	ND		ug/Kg	04/09/18	17:49	NP	430865
p-Isopropyltoluene	SW8260B	2.5	3.7	25	ND		ug/Kg	04/09/18	17:49	NP	430865
1,3-Dichlorobenzene	SW8260B	2.5	4.2	25	ND		ug/Kg	04/09/18	17:49	NP	430865
1,4-Dichlorobenzene	SW8260B	2.5	4.3	25	ND		ug/Kg	04/09/18	17:49	NP	430865
n-Butylbenzene	SW8260B	2.5	3.6	25	ND		ug/Kg	04/09/18	17:49	NP	430865
1,2-Dichlorobenzene	SW8260B	2.5	4.4	25	ND		ug/Kg	04/09/18	17:49	NP	430865
1,2-Dibromo-3-Chloropropane	SW8260B	2.5	4.6	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Hexachlorobutadiene	SW8260B	2.5	3.4	25	ND		ug/Kg	04/09/18	17:49	NP	430865
1,2,4-Trichlorobenzene	SW8260B	2.5	3.7	25	ND		ug/Kg	04/09/18	17:49	NP	430865
Naphthalene	SW8260B	2.5	4.2	25	ND		ug/Kg	04/09/18	17:49	NP	430865
1,2,3-Trichlorobenzene	SW8260B	2.5	4.2	25	ND		ug/Kg	04/09/18	17:49	NP	430865
2-Butanone	SW8260B	2.5	5.7	25	ND		ug/Kg	04/09/18	17:49	NP	430865
(S) Dibromofluoromethane	SW8260B		59.8 - 148		102		%	04/09/18	17:49	NP	430865
(S) Toluene-d8	SW8260B		55.2 - 133		110		%	04/09/18	17:49	NP	430865
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		99.4		%	04/09/18	17:49	NP	430865



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	S1@10'	Lab Sample ID:	1804048-013A
Project Name/Location:	580 Lorraine	Sample Matrix:	Soil
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 14:05		
SDG:			

Prep Method: 5035GRO	Prep Batch Date/Time: 4/9/18 9:55:00AM
Prep Batch ID: 1104125	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	2.5	110	250	ND		ug/Kg	04/09/18	17:49	NP	430865
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		67.3		%	04/09/18	17:49	NP	430865



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	GW-6	Lab Sample ID:	1804048-014A
Project Name/Location:	580 Lorraine	Sample Matrix:	Groundwater
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 9:22		
SDG:			

Prep Method:	5030VOC	Prep Batch Date/Time:	4/9/18	10:06:00AM
Prep Batch ID:	1104092	Prep Analyst:	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Dichlorodifluoromethane	SW8260B	1.35	0.36	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Chloromethane	SW8260B	1.35	0.23	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Vinyl Chloride	SW8260B	1.35	0.28	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Bromomethane	SW8260B	1.35	0.29	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Chloroethane	SW8260B	1.35	0.15	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Trichlorofluoromethane	SW8260B	1.35	0.25	0.68	ND		ug/L	04/09/18	17:35	BP	430843
1,1-Dichloroethene	SW8260B	1.35	0.19	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Freon 113	SW8260B	1.35	0.46	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Methylene Chloride	SW8260B	1.35	0.18	0.68	ND		ug/L	04/09/18	17:35	BP	430843
trans-1,2-Dichloroethene	SW8260B	1.35	0.22	0.68	ND		ug/L	04/09/18	17:35	BP	430843
MTBE	SW8260B	1.35	0.10	0.68	ND		ug/L	04/09/18	17:35	BP	430843
tert-Butanol	SW8260B	1.35	10.	14	ND		ug/L	04/09/18	17:35	BP	430843
Diisopropyl ether (DIPE)	SW8260B	1.35	0.16	0.68	ND		ug/L	04/09/18	17:35	BP	430843
1,1-Dichloroethane	SW8260B	1.35	0.16	0.68	ND		ug/L	04/09/18	17:35	BP	430843
ETBE	SW8260B	1.35	0.086	0.68	ND		ug/L	04/09/18	17:35	BP	430843
cis-1,2-Dichloroethene	SW8260B	1.35	0.20	0.68	ND		ug/L	04/09/18	17:35	BP	430843
2,2-Dichloropropane	SW8260B	1.35	0.13	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Bromochloromethane	SW8260B	1.35	0.20	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Chloroform	SW8260B	1.35	0.16	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Carbon Tetrachloride	SW8260B	1.35	0.21	0.68	ND		ug/L	04/09/18	17:35	BP	430843
1,1,1-Trichloroethane	SW8260B	1.35	0.22	0.68	ND		ug/L	04/09/18	17:35	BP	430843
1,1-Dichloropropene	SW8260B	1.35	0.25	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Benzene	SW8260B	1.35	0.21	0.68	ND		ug/L	04/09/18	17:35	BP	430843
TAME	SW8260B	1.35	0.097	0.68	ND		ug/L	04/09/18	17:35	BP	430843
1,2-Dichloroethane	SW8260B	1.35	0.15	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Trichloroethylene	SW8260B	1.35	0.20	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Dibromomethane	SW8260B	1.35	0.14	0.68	ND		ug/L	04/09/18	17:35	BP	430843
1,2-Dichloropropane	SW8260B	1.35	0.12	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Bromodichloromethane	SW8260B	1.35	0.10	0.68	ND		ug/L	04/09/18	17:35	BP	430843
cis-1,3-Dichloropropene	SW8260B	1.35	0.11	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Toluene	SW8260B	1.35	0.19	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Tetrachloroethylene	SW8260B	1.35	0.32	0.68	ND		ug/L	04/09/18	17:35	BP	430843
trans-1,3-Dichloropropene	SW8260B	1.35	0.29	0.68	ND		ug/L	04/09/18	17:35	BP	430843
1,1,2-Trichloroethane	SW8260B	1.35	0.10	0.68	ND		ug/L	04/09/18	17:35	BP	430843



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon) Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	GW-6	Lab Sample ID:	1804048-014A
Project Name/Location:	580 Lorraine	Sample Matrix:	Groundwater
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 9:22		
SDG:			

Prep Method:	5030VOC	Prep Batch Date/Time:	4/9/18	10:06:00AM
Prep Batch ID:	1104092	Prep Analyst:	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Dibromochloromethane	SW8260B	1.35	0.24	0.68	ND		ug/L	04/09/18	17:35	BP	430843
1,3-Dichloropropane	SW8260B	1.35	0.29	0.68	ND		ug/L	04/09/18	17:35	BP	430843
1,2-Dibromoethane	SW8260B	1.35	0.11	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Chlorobenzene	SW8260B	1.35	0.22	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Ethyl Benzene	SW8260B	1.35	0.26	0.68	ND		ug/L	04/09/18	17:35	BP	430843
1,1,1,2-Tetrachloroethane	SW8260B	1.35	0.12	0.68	ND		ug/L	04/09/18	17:35	BP	430843
m,p-Xylene	SW8260B	1.35	0.53	1.4	ND		ug/L	04/09/18	17:35	BP	430843
o-Xylene	SW8260B	1.35	0.21	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Styrene	SW8260B	1.35	0.15	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Bromoform	SW8260B	1.35	0.10	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Isopropyl Benzene	SW8260B	1.35	0.29	0.68	ND		ug/L	04/09/18	17:35	BP	430843
n-Propylbenzene	SW8260B	1.35	0.40	0.68	ND		ug/L	04/09/18	17:35	BP	430843
Bromobenzene	SW8260B	1.35	0.20	0.68	ND		ug/L	04/09/18	17:35	BP	430843
1,1,2,2-Tetrachloroethane	SW8260B	1.35	0.11	0.68	ND		ug/L	04/09/18	17:35	BP	430843
2-Chlorotoluene	SW8260B	1.35	0.34	0.68	ND		ug/L	04/09/18	17:35	BP	430843
1,3,5-Trimethylbenzene	SW8260B	1.35	0.33	0.68	ND		ug/L	04/09/18	17:35	BP	430843
1,2,3-Trichloropropane	SW8260B	1.35	0.20	0.68	ND		ug/L	04/09/18	17:35	BP	430843
4-Chlorotoluene	SW8260B	1.35	0.29	0.68	ND		ug/L	04/09/18	17:35	BP	430843
tert-Butylbenzene	SW8260B	1.35	0.36	0.68	ND		ug/L	04/09/18	17:35	BP	430843
1,2,4-Trimethylbenzene	SW8260B	1.35	0.31	0.68	ND		ug/L	04/09/18	17:35	BP	430843
sec-Butyl Benzene	SW8260B	1.35	0.40	0.68	ND		ug/L	04/09/18	17:35	BP	430843
p-Isopropyltoluene	SW8260B	1.35	0.36	0.68	ND		ug/L	04/09/18	17:35	BP	430843
1,3-Dichlorobenzene	SW8260B	1.35	0.23	0.68	ND		ug/L	04/09/18	17:35	BP	430843
1,4-Dichlorobenzene	SW8260B	1.35	0.24	0.68	ND		ug/L	04/09/18	17:35	BP	430843
n-Butylbenzene	SW8260B	1.35	0.37	0.68	ND		ug/L	04/09/18	17:35	BP	430843
1,2-Dichlorobenzene	SW8260B	1.35	0.22	0.68	ND		ug/L	04/09/18	17:35	BP	430843
1,2-Dibromo-3-Chloropropane	SW8260B	1.35	1.0	2.7	ND		ug/L	04/09/18	17:35	BP	430843
Hexachlorobutadiene	SW8260B	1.35	0.83	2.7	ND		ug/L	04/09/18	17:35	BP	430843
1,2,4-Trichlorobenzene	SW8260B	1.35	1.3	2.7	ND		ug/L	04/09/18	17:35	BP	430843
Naphthalene	SW8260B	1.35	1.6	2.7	ND		ug/L	04/09/18	17:35	BP	430843
1,2,3-Trichlorobenzene	SW8260B	1.35	1.6	2.7	ND		ug/L	04/09/18	17:35	BP	430843
(S) Dibromofluoromethane	SW8260B	61.2 - 131		146	S	%	04/09/18	17:35	BP	430843	
(S) Toluene-d8	SW8260B	75.1 - 127		97.4		%	04/09/18	17:35	BP	430843	
(S) 4-Bromofluorobenzene	SW8260B	64.1 - 120		98.5		%	04/09/18	17:35	BP	430843	



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	GW-6
Project Name/Location:	580 Lorraine
Project Number:	14121.001.000
Date/Time Sampled:	04/05/18 / 9:22
SDG:	

Lab Sample ID:	1804048-014A
Sample Matrix:	Groundwater

NOTE: Reporting limits were raised due to sediment in all VOAs.

S-Surrogate recovery out of limit-high bias. Data was acceptable as no target analytes were observed in the sample. No corrective action required.



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon) Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	GW-6	Lab Sample ID:	1804048-014A
Project Name/Location:	580 Lorraine	Sample Matrix:	Groundwater
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 9:22		
SDG:			

Prep Method:	5030GRO	Prep Batch Date/Time:	4/9/18	10:06:00AM
Prep Batch ID:	1104094	Prep Analyst:	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

TPH(Gasoline)	8260TPH	1.35	39	68	ND	ug/L	04/09/18	17:35	BP	430843
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		72.5	%	04/09/18	17:35	BP	430843

NOTE: Raised reporting limit - see comment for 8260B analysis.



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID: GW-6
Project Name/Location: 580 Lorraine
Project Number: 14121.001.000
Date/Time Sampled: 04/05/18 / 9:22
SDG:

Lab Sample ID: 1804048-014B
Sample Matrix: Groundwater

Prep Method: 7470AP
Prep Batch ID: 1104098

Prep Batch Date/Time: 4/9/18 5:20:00PM
Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7470A	1	0.00013	0.00020	0.0071		mg/L	04/10/18	13:47	BJAY	430870



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	GW-6	Lab Sample ID:	1804048-014B
Project Name/Location:	580 Lorraine	Sample Matrix:	Groundwater
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 9:22		
SDG:			

Prep Method:	3010B	Prep Batch Date/Time:	4/9/18	5:00:00PM
Prep Batch ID:	1104096	Prep Analyst:	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.0050	0.010	0.0231		mg/L	04/10/18	10:30	PPATEL	430875
Arsenic	SW6010B	1	0.0040	0.010	0.342		mg/L	04/10/18	10:30	PPATEL	430875
Barium	SW6010B	1	0.0010	0.0050	11.6		mg/L	04/10/18	10:30	PPATEL	430875
Beryllium	SW6010B	1	0.0010	0.0050	0.0463		mg/L	04/10/18	10:30	PPATEL	430875
Cadmium	SW6010B	1	0.0020	0.0050	ND		mg/L	04/10/18	10:30	PPATEL	430875
Chromium	SW6010B	1	0.0010	0.0050	4.12		mg/L	04/10/18	10:30	PPATEL	430875
Cobalt	SW6010B	1	0.0010	0.0050	1.09		mg/L	04/10/18	10:30	PPATEL	430875
Copper	SW6010B	1	0.0020	0.0050	3.18		mg/L	04/10/18	10:30	PPATEL	430875
Lead	SW6010B	1	0.0014	0.010	0.599		mg/L	04/10/18	10:30	PPATEL	430875
Molybdenum	SW6010B	1	0.0020	0.010	ND		mg/L	04/10/18	10:30	PPATEL	430875
Nickel	SW6010B	1	0.0020	0.0050	6.10		mg/L	04/10/18	10:30	PPATEL	430875
Selenium	SW6010B	1	0.0070	0.010	ND		mg/L	04/10/18	10:30	PPATEL	430875
Silver	SW6010B	1	0.0040	0.010	ND		mg/L	04/10/18	10:30	PPATEL	430875
Thallium	SW6010B	1	0.0040	0.015	ND		mg/L	04/10/18	10:30	PPATEL	430875
Vanadium	SW6010B	1	0.0020	0.0050	2.66		mg/L	04/10/18	10:30	PPATEL	430875
Zinc	SW6010B	1	0.0020	0.010	5.24		mg/L	04/10/18	10:30	PPATEL	430875



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	GW-6	Lab Sample ID:	1804048-014C
Project Name/Location:	580 Lorraine	Sample Matrix:	Groundwater
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 9:22		
SDG:			

Prep Method:	3510_TPH	Prep Batch Date/Time:	4/10/18	12:00:00PM
Prep Batch ID:	1104122	Prep Analyst:	LIMBAT	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.054	0.15	0.166	x	mg/L	04/10/18	14:20	mk	430878
TPH as Motor Oil	SW8015B	1	0.16	0.59	ND		mg/L	04/10/18	14:20	mk	430878
Acceptance Limits											
Pentacosane (S)	SW8015B		59 - 129		66.6		%	04/10/18	14:20	mk	430878

NOTE: x-not typical of Diesel ref. std: peaks within Diesel range quantified as diesel



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon) Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	GW-2	Lab Sample ID:	1804048-015A
Project Name/Location:	580 Lorraine	Sample Matrix:	Groundwater
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:15		
SDG:			

Prep Method:	5030VOC	Prep Batch Date/Time:	4/9/18	10:06:00AM
Prep Batch ID:	1104092	Prep Analyst:	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	84	22	42	ND		ug/L	04/10/18	10:49	BP	430843
Chloromethane	SW8260B	84	14	42	ND		ug/L	04/10/18	10:49	BP	430843
Vinyl Chloride	SW8260B	84	17	42	ND		ug/L	04/10/18	10:49	BP	430843
Bromomethane	SW8260B	84	18	42	ND		ug/L	04/10/18	10:49	BP	430843
Chloroethane	SW8260B	84	9.6	42	ND		ug/L	04/10/18	10:49	BP	430843
Trichlorofluoromethane	SW8260B	84	16	42	ND		ug/L	04/10/18	10:49	BP	430843
1,1-Dichloroethene	SW8260B	84	12	42	ND		ug/L	04/10/18	10:49	BP	430843
Freon 113	SW8260B	84	29	42	ND		ug/L	04/10/18	10:49	BP	430843
Methylene Chloride	SW8260B	84	11	42	ND		ug/L	04/10/18	10:49	BP	430843
trans-1,2-Dichloroethene	SW8260B	84	14	42	ND		ug/L	04/10/18	10:49	BP	430843
MTBE	SW8260B	84	6.5	42	ND		ug/L	04/10/18	10:49	BP	430843
tert-Butanol	SW8260B	84	620	840	ND		ug/L	04/10/18	10:49	BP	430843
Diisopropyl ether (DIPE)	SW8260B	84	10	42	ND		ug/L	04/10/18	10:49	BP	430843
1,1-Dichloroethane	SW8260B	84	10	42	ND		ug/L	04/10/18	10:49	BP	430843
ETBE	SW8260B	84	5.4	42	ND		ug/L	04/10/18	10:49	BP	430843
cis-1,2-Dichloroethene	SW8260B	84	13	42	ND		ug/L	04/10/18	10:49	BP	430843
2,2-Dichloropropane	SW8260B	84	7.9	42	ND		ug/L	04/10/18	10:49	BP	430843
Bromochloromethane	SW8260B	84	13	42	ND		ug/L	04/10/18	10:49	BP	430843
Chloroform	SW8260B	84	10	42	ND		ug/L	04/10/18	10:49	BP	430843
Carbon Tetrachloride	SW8260B	84	13	42	ND		ug/L	04/10/18	10:49	BP	430843
1,1,1-Trichloroethane	SW8260B	84	14	42	ND		ug/L	04/10/18	10:49	BP	430843
1,1-Dichloropropene	SW8260B	84	16	42	ND		ug/L	04/10/18	10:49	BP	430843
Benzene	SW8260B	84	13	42	ND		ug/L	04/10/18	10:49	BP	430843
TAME	SW8260B	84	6.0	42	ND		ug/L	04/10/18	10:49	BP	430843
1,2-Dichloroethane	SW8260B	84	9.2	42	ND		ug/L	04/10/18	10:49	BP	430843
Trichloroethylene	SW8260B	84	12	42	ND		ug/L	04/10/18	10:49	BP	430843
Dibromomethane	SW8260B	84	9.0	42	ND		ug/L	04/10/18	10:49	BP	430843
1,2-Dichloropropane	SW8260B	84	7.5	42	ND		ug/L	04/10/18	10:49	BP	430843
Bromodichloromethane	SW8260B	84	6.4	42	ND		ug/L	04/10/18	10:49	BP	430843
cis-1,3-Dichloropropene	SW8260B	84	6.6	42	ND		ug/L	04/10/18	10:49	BP	430843
Toluene	SW8260B	84	12	42	ND		ug/L	04/10/18	10:49	BP	430843
Tetrachloroethylene	SW8260B	84	20	42	3500		ug/L	04/10/18	10:49	BP	430843
trans-1,3-Dichloropropene	SW8260B	84	18	42	ND		ug/L	04/10/18	10:49	BP	430843
1,1,2-Trichloroethane	SW8260B	84	6.4	42	ND		ug/L	04/10/18	10:49	BP	430843
Dibromochloromethane	SW8260B	84	15	42	ND		ug/L	04/10/18	10:49	BP	430843
1,3-Dichloropropane	SW8260B	84	18	42	ND		ug/L	04/10/18	10:49	BP	430843



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon) Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	GW-2	Lab Sample ID:	1804048-015A
Project Name/Location:	580 Lorraine	Sample Matrix:	Groundwater
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:15		
SDG:			

Prep Method:	5030VOC	Prep Batch Date/Time:	4/9/18	10:06:00AM
Prep Batch ID:	1104092	Prep Analyst:	BPATEL	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,2-Dibromoethane	SW8260B	84	6.6	42	ND		ug/L	04/10/18	10:49	BP	430843
Chlorobenzene	SW8260B	84	14	42	ND		ug/L	04/10/18	10:49	BP	430843
Ethyl Benzene	SW8260B	84	16	42	ND		ug/L	04/10/18	10:49	BP	430843
1,1,1,2-Tetrachloroethane	SW8260B	84	7.3	42	ND		ug/L	04/10/18	10:49	BP	430843
m,p-Xylene	SW8260B	84	33	84	ND		ug/L	04/10/18	10:49	BP	430843
o-Xylene	SW8260B	84	13	42	ND		ug/L	04/10/18	10:49	BP	430843
Styrene	SW8260B	84	9.2	42	ND		ug/L	04/10/18	10:49	BP	430843
Bromoform	SW8260B	84	6.4	42	ND		ug/L	04/10/18	10:49	BP	430843
Isopropyl Benzene	SW8260B	84	18	42	ND		ug/L	04/10/18	10:49	BP	430843
n-Propylbenzene	SW8260B	84	25	42	ND		ug/L	04/10/18	10:49	BP	430843
Bromobenzene	SW8260B	84	13	42	ND		ug/L	04/10/18	10:49	BP	430843
1,1,2,2-Tetrachloroethane	SW8260B	84	6.6	42	ND		ug/L	04/10/18	10:49	BP	430843
2-Chlorotoluene	SW8260B	84	21	42	ND		ug/L	04/10/18	10:49	BP	430843
1,3,5-Trimethylbenzene	SW8260B	84	20	42	ND		ug/L	04/10/18	10:49	BP	430843
1,2,3-Trichloropropane	SW8260B	84	12	42	ND		ug/L	04/10/18	10:49	BP	430843
4-Chlorotoluene	SW8260B	84	18	42	ND		ug/L	04/10/18	10:49	BP	430843
tert-Butylbenzene	SW8260B	84	22	42	ND		ug/L	04/10/18	10:49	BP	430843
1,2,4-Trimethylbenzene	SW8260B	84	19	42	ND		ug/L	04/10/18	10:49	BP	430843
sec-Butyl Benzene	SW8260B	84	25	42	ND		ug/L	04/10/18	10:49	BP	430843
p-Isopropyltoluene	SW8260B	84	22	42	ND		ug/L	04/10/18	10:49	BP	430843
1,3-Dichlorobenzene	SW8260B	84	14	42	ND		ug/L	04/10/18	10:49	BP	430843
1,4-Dichlorobenzene	SW8260B	84	15	42	ND		ug/L	04/10/18	10:49	BP	430843
n-Butylbenzene	SW8260B	84	23	42	ND		ug/L	04/10/18	10:49	BP	430843
1,2-Dichlorobenzene	SW8260B	84	13	42	ND		ug/L	04/10/18	10:49	BP	430843
1,2-Dibromo-3-Chloropropane	SW8260B	84	64	170	ND		ug/L	04/10/18	10:49	BP	430843
Hexachlorobutadiene	SW8260B	84	52	170	ND		ug/L	04/10/18	10:49	BP	430843
1,2,4-Trichlorobenzene	SW8260B	84	78	170	ND		ug/L	04/10/18	10:49	BP	430843
Naphthalene	SW8260B	84	100	170	ND		ug/L	04/10/18	10:49	BP	430843
1,2,3-Trichlorobenzene	SW8260B	84	100	170	ND		ug/L	04/10/18	10:49	BP	430843
(S) Dibromofluoromethane	SW8260B		61.2 - 131		121		%	04/10/18	10:49	BP	430843
(S) Toluene-d8	SW8260B		75.1 - 127		98.3		%	04/10/18	10:49	BP	430843
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		94.9		%	04/10/18	10:49	BP	430843



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID: GW-2
Project Name/Location: 580 Lorraine
Project Number: 14121.001.000
Date/Time Sampled: 04/05/18 / 12:15
SDG:

Lab Sample ID: 1804048-015A
Sample Matrix: Groundwater

Prep Method: 5030GRO
Prep Batch ID: 1104094

Prep Batch Date/Time: 4/9/18 10:06:00AM
Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	29	50	2110	x	ug/L	04/09/18	18:11	BP	430843
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		44.7		%	04/09/18	18:11	BP	430843

NOTE: x - Does not match pattern of reference Gasoline standard. Reported value is the result of discrete peak of non-gasoline compounds within range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID: GW-2
Project Name/Location: 580 Lorraine
Project Number: 14121.001.000
Date/Time Sampled: 04/05/18 / 12:15
SDG:

Lab Sample ID: 1804048-015B
Sample Matrix: Groundwater

Prep Method: 7470AP
Prep Batch ID: 1104098

Prep Batch Date/Time: 4/9/18 5:20:00PM
Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7470A	1	0.00013	0.00020	0.0037		mg/L	04/10/18	13:49	BJAY	430870



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	GW-2	Lab Sample ID:	1804048-015B
Project Name/Location:	580 Lorraine	Sample Matrix:	Groundwater
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:15		
SDG:			

Prep Method:	3010B	Prep Batch Date/Time:	4/9/18	5:00:00PM
Prep Batch ID:	1104096	Prep Analyst:	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.0050	0.010	0.0123		mg/L	04/10/18	10:42	PPATEL	430875
Arsenic	SW6010B	1	0.0040	0.010	0.293		mg/L	04/10/18	10:42	PPATEL	430875
Barium	SW6010B	1	0.0010	0.0050	11.6		mg/L	04/10/18	10:42	PPATEL	430875
Beryllium	SW6010B	1	0.0010	0.0050	0.0359		mg/L	04/10/18	10:42	PPATEL	430875
Cadmium	SW6010B	1	0.0020	0.0050	ND		mg/L	04/10/18	10:42	PPATEL	430875
Chromium	SW6010B	1	0.0010	0.0050	2.92		mg/L	04/10/18	10:42	PPATEL	430875
Cobalt	SW6010B	1	0.0010	0.0050	0.785		mg/L	04/10/18	10:42	PPATEL	430875
Copper	SW6010B	1	0.0020	0.0050	2.33		mg/L	04/10/18	10:42	PPATEL	430875
Lead	SW6010B	1	0.0014	0.010	0.470		mg/L	04/10/18	10:42	PPATEL	430875
Molybdenum	SW6010B	1	0.0020	0.010	ND		mg/L	04/10/18	10:42	PPATEL	430875
Nickel	SW6010B	1	0.0020	0.0050	4.33		mg/L	04/10/18	10:42	PPATEL	430875
Selenium	SW6010B	1	0.0070	0.010	ND		mg/L	04/10/18	10:42	PPATEL	430875
Silver	SW6010B	1	0.0040	0.010	ND		mg/L	04/10/18	10:42	PPATEL	430875
Thallium	SW6010B	1	0.0040	0.015	0.0310		mg/L	04/10/18	10:42	PPATEL	430875
Vanadium	SW6010B	1	0.0020	0.0050	2.06		mg/L	04/10/18	10:42	PPATEL	430875
Zinc	SW6010B	1	0.0020	0.010	4.16		mg/L	04/10/18	10:42	PPATEL	430875



SAMPLE RESULTS

Report prepared for: Divya Bhargava
Engeo (San Ramon)

Date/Time Received: 04/05/18, 5:20 pm
Date Reported: 04/10/18

Client Sample ID:	GW-2	Lab Sample ID:	1804048-015C
Project Name/Location:	580 Lorraine	Sample Matrix:	Groundwater
Project Number:	14121.001.000		
Date/Time Sampled:	04/05/18 / 12:15		
SDG:			

Prep Method: 3510_TPH	Prep Batch Date/Time: 4/10/18 12:00:00PM
Prep Batch ID: 1104122	Prep Analyst: LIMBAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.050	0.14	ND		mg/L	04/10/18	14:43	mk	430878
TPH as Motor Oil	SW8015B	1	0.15	0.54	ND		mg/L	04/10/18	14:43	mk	430878
Pentacosane (S)	SW8015B	Acceptance Limits 59 - 129			66.4		%	04/10/18	14:43	mk	430878



MB Summary Report

Work Order:	1804048	Prep Method:	3546_TPHSG	Prep Date:	04/06/18	Prep Batch:	1104057
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	4/6/2018	Analytical Batch:	430814
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
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TPH as Diesel (SG) 0.85 2.0 1.09
TPH as Motor Oil (SG) 3.2 10 ND
Pentacosane (S) 129

Work Order:	1804048	Prep Method:	5035	Prep Date:	04/08/18	Prep Batch:	1104088
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/8/2018	Analytical Batch:	430841
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
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Dichlorodifluoromethane 1.2 10 ND
Chloromethane 1.8 10 ND
Vinyl Chloride 2.0 10 ND
Bromomethane 2.7 10 ND
Chloroethane 3.0 10 ND
Trichlorofluoromethane 2.1 10 ND
1,1-Dichloroethene 2.0 10 ND
Freon 113 1.9 10 ND
Methylene Chloride 7.1 10 ND
trans-1,2-Dichloroethene 2.1 10 ND
MTBE 2.3 10 ND
tert-Butanol 12 50 ND
Diisopropyl ether (DIPE) 2.3 10 ND
1,1-Dichloroethane 2.2 10 ND
ETBE 2.3 10 ND
cis-1,2-Dichloroethene 2.2 10 ND
2,2-Dichloropropane 1.9 10 ND
Bromochloromethane 2.3 10 ND
Chloroform 2.4 10 ND
Carbon Tetrachloride 2.1 10 ND
1,1,1-Trichloroethane 2.1 10 ND
1,1-Dichloropropene 2.0 10 ND
Benzene 2.2 10 ND
TAME 2.3 10 ND
1,2-Dichloroethane 2.3 10 ND
Trichloroethylene 1.8 10 ND
Dibromomethane 1.8 10 ND
1,2-Dichloropropane 1.9 10 ND
Bromodichloromethane 2.0 10 ND



MB Summary Report

Work Order:	1804048	Prep Method:	5035	Prep Date:	04/08/18	Prep Batch:	1104088
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/8/2018	Analytical Batch:	430841
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
cis-1,3-Dichloropropene	1.6	10	ND		
Toluene	1.8	10	ND		
Tetrachloroethylene	1.7	10	ND		
trans-1,3-Dichloropropene	1.6	10	ND		
1,1,2-Trichloroethane	1.8	10	ND		
Dibromochloromethane	1.9	10	ND		
1,3-Dichloropropane	1.8	10	ND		
1,2-Dibromoethane	1.8	10	ND		
Chlorobenzene	1.8	10	ND		
Ethyl Benzene	1.7	10	ND		
1,1,1,2-Tetrachloroethane	1.9	10	ND		
m,p-Xylene	3.2	10	ND		
o-Xylene	1.7	10	ND		
Styrene	1.6	10	ND		
Bromoform	1.7	10	ND		
Isopropyl Benzene	1.6	10	ND		
n-Propylbenzene	1.6	10	ND		
Bromobenzene	1.8	10	ND		
1,1,2,2-Tetrachloroethane	1.9	10	ND		
2-Chlorotoluene	1.8	10	ND		
1,3,5-Trimethylbenzene	1.6	10	ND		
1,2,3-Trichloropropane	1.9	10	ND		
4-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.6	10	ND		
1,2,4-Trimethylbenzene	1.4	10	ND		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	1.5		
1,3-Dichlorobenzene	1.7	10	ND		
1,4-Dichlorobenzene	1.7	10	ND		
n-Butylbenzene	1.5	10	1.7		
1,2-Dichlorobenzene	1.8	10	ND		
1,2-Dibromo-3-Chloropropane	1.8	10	ND		
Hexachlorobutadiene	1.4	10	ND		
1,2,4-Trichlorobenzene	1.5	10	ND		
Naphthalene	1.7	10	ND		
1,2,3-Trichlorobenzene	1.7	10	ND		
2-Butanone	1.7	10	ND		
(S) Dibromofluoromethane			107		
(S) Toluene-d8			101		
(S) 4-Bromofluorobenzene			103		



MB Summary Report

Work Order:	1804048	Prep Method:	3050B	Prep Date:	04/09/18	Prep Batch:	1104089
Matrix:	Soil	Analytical Method:	SW6010B	Analyzed Date:	4/10/2018	Analytical Batch:	430874
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
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Antimony	0.050	5.00	ND	
Arsenic	0.15	1.30	0.28	
Barium	0.055	5.00	0.18	
Beryllium	0.055	5.00	ND	
Cadmium	0.10	5.00	ND	
Chromium	0.075	5.00	0.41	
Cobalt	0.070	5.00	0.095	
Copper	0.20	5.00	1.3	
Lead	0.10	1.30	ND	
Molybdenum	0.050	5.00	0.075	
Nickel	0.50	5.00	ND	
Selenium	0.22	5.00	ND	
Silver	0.15	5.00	ND	
Thallium	0.20	5.00	ND	
Vanadium	0.10	5.00	0.14	
Zinc	0.30	5.00	0.43	

Work Order:	1804048	Prep Method:	7471BP	Prep Date:	04/09/18	Prep Batch:	1104090
Matrix:	Soil	Analytical Method:	SW7471B	Analyzed Date:	4/10/2018	Analytical Batch:	430871
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
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Mercury	0.083	0.50	ND	
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Work Order:	1804048	Prep Method:	5035GRO	Prep Date:	04/08/18	Prep Batch:	1104091
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/8/2018	Analytical Batch:	430841
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
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TPH(Gasoline) (S) 4-Bromofluorobenzene	43	100	74 123	
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MB Summary Report

Work Order:	1804048	Prep Method:	5030VOC	Prep Date:	04/09/18	Prep Batch:	1104092
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	4/9/2018	Analytical Batch:	430843
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	0.50	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	0.34		
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		



MB Summary Report

Work Order:	1804048	Prep Method:	5030VOC	Prep Date:	04/09/18	Prep Batch:	1104092
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	4/9/2018	Analytical Batch:	430843
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
o-Xylene	0.15	0.50	ND		
Styrene	0.11	0.50	ND		
Bromoform	0.076	0.50	ND		
Isopropyl Benzene	0.22	0.50	ND		
n-Propylbenzene	0.30	0.50	ND		
Bromobenzene	0.15	0.50	ND		
1,1,2,2-Tetrachloroethane	0.079	0.50	ND		
2-Chlorotoluene	0.25	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) Dibromofluoromethane			127		
(S) Toluene-d8			97.4		
(S) 4-Bromofluorobenzene			93.6		



MB Summary Report

Work Order:	1804048	Prep Method:	5035	Prep Date:	04/07/18	Prep Batch:	1104093
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/7/2018	Analytical Batch:	430852
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	1.2	10	ND		
Chloromethane	1.8	10	ND		
Vinyl Chloride	2.0	10	ND		
Bromomethane	2.7	10	ND		
Chloroethane	3.0	10	ND		
Trichlorofluoromethane	2.1	10	ND		
1,1-Dichloroethene	2.0	10	ND		
Freon 113	1.9	10	ND		
Methylene Chloride	7.1	10	ND		
trans-1,2-Dichloroethene	2.1	10	ND		
MTBE	2.3	10	ND		
tert-Butanol	12	50	ND		
Diisopropyl ether (DIPE)	2.3	10	ND		
1,1-Dichloroethane	2.2	10	ND		
ETBE	2.3	10	5.5		
cis-1,2-Dichloroethene	2.2	10	ND		
2,2-Dichloropropane	1.9	10	ND		
Bromochloromethane	2.3	10	ND		
Chloroform	2.4	10	ND		
Carbon Tetrachloride	2.1	10	ND		
1,1,1-Trichloroethane	2.1	10	ND		
1,1-Dichloropropene	2.0	10	ND		
Benzene	2.2	10	ND		
TAME	2.3	10	5.7		
1,2-Dichloroethane	2.3	10	ND		
Trichloroethylene	1.8	10	ND		
Dibromomethane	1.8	10	ND		
1,2-Dichloropropane	1.9	10	ND		
Bromodichloromethane	2.0	10	ND		
cis-1,3-Dichloropropene	1.6	10	ND		
Toluene	1.8	10	ND		
Tetrachloroethylene	1.7	10	ND		
trans-1,3-Dichloropropene	1.6	10	ND		
1,1,2-Trichloroethane	1.8	10	ND		
Dibromochloromethane	1.9	10	ND		
1,3-Dichloropropane	1.8	10	ND		
1,2-Dibromoethane	1.8	10	ND		
Chlorobenzene	1.8	10	ND		
Ethyl Benzene	1.7	10	ND		
1,1,1,2-Tetrachloroethane	1.9	10	ND		
m,p-Xylene	3.2	10	ND		



MB Summary Report

Work Order:	1804048	Prep Method:	5035	Prep Date:	04/07/18	Prep Batch:	1104093
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/7/2018	Analytical Batch:	430852
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
o-Xylene	1.7	10	ND		
Styrene	1.6	10	ND		
Bromoform	1.7	10	ND		
Isopropyl Benzene	1.6	10	ND		
n-Propylbenzene	1.6	10	ND		
Bromobenzene	1.8	10	ND		
1,1,2,2-Tetrachloroethane	1.9	10	ND		
2-Chlorotoluene	1.8	10	ND		
1,3,5-Trimethylbenzene	1.6	10	ND		
1,2,3-Trichloropropane	1.9	10	ND		
4-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.6	10	ND		
1,2,4-Trimethylbenzene	1.4	10	ND		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	ND		
1,3-Dichlorobenzene	1.7	10	ND		
1,4-Dichlorobenzene	1.7	10	ND		
n-Butylbenzene	1.5	10	ND		
1,2-Dichlorobenzene	1.8	10	ND		
1,2-Dibromo-3-Chloropropane	1.8	10	ND		
Hexachlorobutadiene	1.4	10	1.7		
1,2,4-Trichlorobenzene	1.5	10	1.9		
Naphthalene	1.7	10	6.1		
1,2,3-Trichlorobenzene	1.7	10	2.3		
2-Butanone	1.7	10	4.9		
(S) Dibromofluoromethane			105		
(S) Toluene-d8			107		
(S) 4-Bromofluorobenzene			113		

Work Order:	1804048	Prep Method:	5030GRO	Prep Date:	04/09/18	Prep Batch:	1104094
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	4/9/2018	Analytical Batch:	430843
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH(Gasoline)	29	50	ND		
(S) 4-Bromofluorobenzene			69.8		



MB Summary Report

Work Order:	1804048	Prep Method:	3010B	Prep Date:	04/09/18	Prep Batch:	1104096
Matrix:	Water	Analytical Method:	SW6010B	Analyzed Date:	4/10/2018	Analytical Batch:	430875
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
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Antimony	0.0050	0.010	ND	
Arsenic	0.0040	0.010	0.010	
Barium	0.0010	0.0050	ND	
Beryllium	0.0010	0.0050	ND	
Cadmium	0.0020	0.0050	ND	
Chromium	0.0010	0.0050	ND	
Cobalt	0.0010	0.0050	ND	
Copper	0.0020	0.0050	0.0035	
Lead	0.0014	0.010	ND	
Molybdenum	0.0020	0.010	ND	
Nickel	0.0020	0.0050	0.0022	
Selenium	0.0070	0.010	ND	
Silver	0.0040	0.010	ND	
Thallium	0.0040	0.015	ND	
Vanadium	0.0010	0.0050	0.0016	
Zinc	0.0020	0.010	ND	

Work Order:	1804048	Prep Method:	7470AP	Prep Date:	04/09/18	Prep Batch:	1104098
Matrix:	Water	Analytical Method:	SW7470A	Analyzed Date:	4/10/2018	Analytical Batch:	430870
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
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Mercury	0.00013	0.00020	ND	
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Work Order:	1804048	Prep Method:	5035GRO	Prep Date:	04/07/18	Prep Batch:	1104105
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/7/2018	Analytical Batch:	430852
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
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TPH(Gasoline) (S) 4-Bromofluorobenzene	43	100	60 94.6	
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MB Summary Report

Work Order:	1804048	Prep Method:	5035	Prep Date:	04/09/18	Prep Batch:	1104109
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/9/2018	Analytical Batch:	430855
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	1.2	10	ND		
Chloromethane	1.8	10	ND		
Vinyl Chloride	2.0	10	ND		
Bromomethane	2.7	10	ND		
Chloroethane	3.0	10	ND		
Trichlorofluoromethane	2.1	10	ND		
1,1-Dichloroethene	2.0	10	ND		
Freon 113	1.9	10	ND		
Methylene Chloride	7.1	10	ND		
trans-1,2-Dichloroethene	2.1	10	ND		
MTBE	2.3	10	ND		
tert-Butanol	12	50	ND		
Diisopropyl ether (DIPE)	2.3	10	ND		
1,1-Dichloroethane	2.2	10	ND		
ETBE	2.3	10	ND		
cis-1,2-Dichloroethene	2.2	10	ND		
2,2-Dichloropropane	1.9	10	ND		
Bromochloromethane	2.3	10	ND		
Chloroform	2.4	10	ND		
Carbon Tetrachloride	2.1	10	ND		
1,1,1-Trichloroethane	2.1	10	ND		
1,1-Dichloropropene	2.0	10	ND		
Benzene	2.2	10	ND		
TAME	2.3	10	ND		
1,2-Dichloroethane	2.3	10	ND		
Trichloroethylene	1.8	10	ND		
Dibromomethane	1.8	10	ND		
1,2-Dichloropropane	1.9	10	ND		
Bromodichloromethane	2.0	10	ND		
cis-1,3-Dichloropropene	1.6	10	ND		
Toluene	1.8	10	ND		
Tetrachloroethylene	1.7	10	ND		
trans-1,3-Dichloropropene	1.6	10	ND		
1,1,2-Trichloroethane	1.8	10	ND		
Dibromochloromethane	1.9	10	ND		
1,3-Dichloropropane	1.8	10	ND		
1,2-Dibromoethane	1.8	10	ND		
Chlorobenzene	1.8	10	ND		
Ethyl Benzene	1.7	10	ND		
1,1,1,2-Tetrachloroethane	1.9	10	ND		
m,p-Xylene	3.2	10	ND		



MB Summary Report

Work Order:	1804048	Prep Method:	5035	Prep Date:	04/09/18	Prep Batch:	1104109
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/9/2018	Analytical Batch:	430855
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
o-Xylene	1.7	10	ND		
Styrene	1.6	10	ND		
Bromoform	1.7	10	ND		
Isopropyl Benzene	1.6	10	ND		
n-Propylbenzene	1.6	10	ND		
Bromobenzene	1.8	10	ND		
1,1,2,2-Tetrachloroethane	1.9	10	ND		
2-Chlorotoluene	1.8	10	ND		
1,3,5-Trimethylbenzene	1.6	10	ND		
1,2,3-Trichloropropane	1.9	10	ND		
4-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.6	10	ND		
1,2,4-Trimethylbenzene	1.4	10	ND		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	ND		
1,3-Dichlorobenzene	1.7	10	ND		
1,4-Dichlorobenzene	1.7	10	ND		
n-Butylbenzene	1.5	10	ND		
1,2-Dichlorobenzene	1.8	10	ND		
1,2-Dibromo-3-Chloropropane	1.8	10	ND		
Hexachlorobutadiene	1.4	10	ND		
1,2,4-Trichlorobenzene	1.5	10	ND		
Naphthalene	1.7	10	ND		
1,2,3-Trichlorobenzene	1.7	10	ND		
2-Butanone	1.7	10	ND		
(S) Dibromofluoromethane			107		
(S) Toluene-d8			106		
(S) 4-Bromofluorobenzene			110		



MB Summary Report

Work Order:	1804048	Prep Method:	5035	Prep Date:	04/09/18	Prep Batch:	1104109
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/9/2018	Analytical Batch:	430855
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	120	1000	ND		
Chloromethane	180	1000	ND		
Vinyl Chloride	200	1000	ND		
Bromomethane	270	1000	ND		
Chloroethane	300	1000	ND		
Trichlorofluoromethane	210	1000	ND		
1,1-Dichloroethene	200	1000	ND		
Freon 113	190	1000	ND		
Methylene Chloride	710	1000	ND		
trans-1,2-Dichloroethene	210	1000	ND		
MTBE	230	1000	ND		
tert-Butanol	1200	5000	ND		
Diisopropyl ether (DIPE)	230	1000	ND		
1,1-Dichloroethane	220	1000	ND		
ETBE	230	1000	ND		
cis-1,2-Dichloroethene	220	1000	ND		
2,2-Dichloropropane	190	1000	ND		
Bromochloromethane	230	1000	ND		
Chloroform	240	1000	ND		
Carbon Tetrachloride	210	1000	ND		
1,1,1-Trichloroethane	210	1000	ND		
1,1-Dichloropropene	200	1000	ND		
Benzene	220	1000	ND		
TAME	230	1000	ND		
1,2-Dichloroethane	230	1000	ND		
Trichloroethylene	180	1000	ND		
Dibromomethane	180	1000	ND		
1,2-Dichloropropane	190	1000	ND		
Bromodichloromethane	200	1000	ND		
cis-1,3-Dichloropropene	160	1000	ND		
Toluene	180	1000	ND		
Tetrachloroethylene	170	1000	ND		
trans-1,3-Dichloropropene	160	1000	ND		
1,1,2-Trichloroethane	180	1000	ND		
Dibromochloromethane	190	1000	ND		
1,3-Dichloropropane	180	1000	ND		
1,2-Dibromoethane	180	1000	ND		
Chlorobenzene	180	1000	ND		
Ethyl Benzene	170	1000	ND		
1,1,1,2-Tetrachloroethane	190	1000	ND		
m,p-Xylene	320	1000	ND		



MB Summary Report

Work Order:	1804048	Prep Method:	5035	Prep Date:	04/09/18	Prep Batch:	1104109
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/9/2018	Analytical Batch:	430855
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
o-Xylene	170	1000	ND		
Styrene	160	1000	ND		
Bromoform	170	1000	ND		
Isopropyl Benzene	160	1000	ND		
n-Propylbenzene	160	1000	ND		
Bromobenzene	180	1000	ND		
1,1,2,2-Tetrachloroethane	190	1000	ND		
2-Chlorotoluene	180	1000	ND		
1,3,5-Trimethylbenzene	160	1000	ND		
1,2,3-Trichloropropane	190	1000	ND		
4-Chlorotoluene	160	1000	ND		
tert-Butylbenzene	160	1000	ND		
1,2,4-Trimethylbenzene	140	1000	210		
sec-Butyl Benzene	160	1000	ND		
p-Isopropyltoluene	150	1000	ND		
1,3-Dichlorobenzene	170	1000	ND		
1,4-Dichlorobenzene	170	1000	ND		
n-Butylbenzene	150	1000	150		
1,2-Dichlorobenzene	180	1000	ND		
1,2-Dibromo-3-Chloropropane	180	1000	ND		
Hexachlorobutadiene	140	1000	ND		
1,2,4-Trichlorobenzene	150	1000	ND		
Naphthalene	170	1000	ND		
1,2,3-Trichlorobenzene	170	1000	ND		
2-Butanone	170	1000	ND		
(S) Dibromofluoromethane			100		
(S) Toluene-d8			105		
(S) 4-Bromofluorobenzene			106		

Work Order:	1804048	Prep Method:	5035GRO	Prep Date:	04/09/18	Prep Batch:	1104111
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/9/2018	Analytical Batch:	430855
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH(Gasoline)	43	100	ND		
(S) 4-Bromofluorobenzene			117		



MB Summary Report

Work Order:	1804048	Prep Method:	5035GRO	Prep Date:	04/09/18	Prep Batch:	1104111
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/9/2018	Analytical Batch:	430855
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH(Gasoline) (S) 4-Bromofluorobenzene	4300	10000	ND 111		



MB Summary Report

Work Order:	1804048	Prep Method:	5035	Prep Date:	04/08/18	Prep Batch:	1104119
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/8/2018	Analytical Batch:	430858
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	1.2	10	ND		
Chloromethane	1.8	10	ND		
Vinyl Chloride	2.0	10	ND		
Bromomethane	2.7	10	ND		
Chloroethane	3.0	10	ND		
Trichlorofluoromethane	2.1	10	ND		
1,1-Dichloroethene	2.0	10	ND		
Freon 113	1.9	10	ND		
Methylene Chloride	7.1	10	ND		
trans-1,2-Dichloroethene	2.1	10	ND		
MTBE	2.3	10	ND		
tert-Butanol	12	50	ND		
Diisopropyl ether (DIPE)	2.3	10	ND		
1,1-Dichloroethane	2.2	10	ND		
ETBE	2.3	10	5.5		
cis-1,2-Dichloroethene	2.2	10	ND		
2,2-Dichloropropane	1.9	10	ND		
Bromochloromethane	2.3	10	ND		
Chloroform	2.4	10	ND		
Carbon Tetrachloride	2.1	10	ND		
1,1,1-Trichloroethane	2.1	10	ND		
1,1-Dichloropropene	2.0	10	ND		
Benzene	2.2	10	ND		
TAME	2.3	10	5.7		
1,2-Dichloroethane	2.3	10	ND		
Trichloroethylene	1.8	10	ND		
Dibromomethane	1.8	10	ND		
1,2-Dichloropropane	1.9	10	ND		
Bromodichloromethane	2.0	10	ND		
cis-1,3-Dichloropropene	1.6	10	ND		
Toluene	1.8	10	ND		
Tetrachloroethylene	1.7	10	ND		
trans-1,3-Dichloropropene	1.6	10	ND		
1,1,2-Trichloroethane	1.8	10	ND		
Dibromochloromethane	1.9	10	ND		
1,3-Dichloropropane	1.8	10	ND		
1,2-Dibromoethane	1.8	10	ND		
Chlorobenzene	1.8	10	ND		
Ethyl Benzene	1.7	10	ND		
1,1,1,2-Tetrachloroethane	1.9	10	ND		
m,p-Xylene	3.2	10	ND		



MB Summary Report

Work Order:	1804048	Prep Method:	5035	Prep Date:	04/08/18	Prep Batch:	1104119
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/8/2018	Analytical Batch:	430858
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
o-Xylene	1.7	10	ND		
Styrene	1.6	10	ND		
Bromoform	1.7	10	ND		
Isopropyl Benzene	1.6	10	ND		
n-Propylbenzene	1.6	10	ND		
Bromobenzene	1.8	10	ND		
1,1,2,2-Tetrachloroethane	1.9	10	ND		
2-Chlorotoluene	1.8	10	ND		
1,3,5-Trimethylbenzene	1.6	10	ND		
1,2,3-Trichloropropane	1.9	10	ND		
4-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.6	10	ND		
1,2,4-Trimethylbenzene	1.4	10	ND		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	ND		
1,3-Dichlorobenzene	1.7	10	ND		
1,4-Dichlorobenzene	1.7	10	ND		
n-Butylbenzene	1.5	10	ND		
1,2-Dichlorobenzene	1.8	10	ND		
1,2-Dibromo-3-Chloropropane	1.8	10	ND		
Hexachlorobutadiene	1.4	10	1.6		
1,2,4-Trichlorobenzene	1.5	10	2.2		
Naphthalene	1.7	10	6.2		
1,2,3-Trichlorobenzene	1.7	10	2.3		
2-Butanone	1.7	10	4.9		
(S) Dibromofluoromethane			96.4		
(S) Toluene-d8			107		
(S) 4-Bromofluorobenzene			105		

Work Order:	1804048	Prep Method:	5035GRO	Prep Date:	04/08/18	Prep Batch:	1104121
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/8/2018	Analytical Batch:	430858
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH(Gasoline)	43	100	60		
(S) 4-Bromofluorobenzene			88.7		



MB Summary Report

Work Order:	1804048	Prep Method:	3510_TPH	Prep Date:	04/10/18	Prep Batch:	1104122
Matrix:	Water	Analytical Method:	SW8015B	Analyzed Date:	4/10/2018	Analytical Batch:	430878
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
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TPH as Diesel	0.037	0.10	ND	
TPH as Motor Oil	0.11	0.40	ND	
Pentacosane (S)			62.0	



MB Summary Report

Work Order:	1804048	Prep Method:	5035	Prep Date:	04/09/18	Prep Batch:	1104124
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/9/2018	Analytical Batch:	430865
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	1.2	10	ND		
Chloromethane	1.8	10	ND		
Vinyl Chloride	2.0	10	ND		
Bromomethane	2.7	10	ND		
Chloroethane	3.0	10	ND		
Trichlorofluoromethane	2.1	10	ND		
1,1-Dichloroethene	2.0	10	ND		
Freon 113	1.9	10	ND		
Methylene Chloride	7.1	10	ND		
trans-1,2-Dichloroethene	2.1	10	ND		
MTBE	2.3	10	ND		
tert-Butanol	12	50	ND		
Diisopropyl ether (DIPE)	2.3	10	ND		
1,1-Dichloroethane	2.2	10	ND		
ETBE	2.3	10	ND		
cis-1,2-Dichloroethene	2.2	10	ND		
2,2-Dichloropropane	1.9	10	ND		
Bromochloromethane	2.3	10	ND		
Chloroform	2.4	10	ND		
Carbon Tetrachloride	2.1	10	ND		
1,1,1-Trichloroethane	2.1	10	ND		
1,1-Dichloropropene	2.0	10	ND		
Benzene	2.2	10	ND		
TAME	2.3	10	ND		
1,2-Dichloroethane	2.3	10	ND		
Trichloroethylene	1.8	10	ND		
Dibromomethane	1.8	10	ND		
1,2-Dichloropropane	1.9	10	ND		
Bromodichloromethane	2.0	10	ND		
cis-1,3-Dichloropropene	1.6	10	ND		
Toluene	1.8	10	ND		
Tetrachloroethylene	1.7	10	ND		
trans-1,3-Dichloropropene	1.6	10	ND		
1,1,2-Trichloroethane	1.8	10	ND		
Dibromochloromethane	1.9	10	ND		
1,3-Dichloropropane	1.8	10	ND		
1,2-Dibromoethane	1.8	10	ND		
Chlorobenzene	1.8	10	ND		
Ethyl Benzene	1.7	10	ND		
1,1,1,2-Tetrachloroethane	1.9	10	ND		
m,p-Xylene	3.2	10	ND		



MB Summary Report

Work Order:	1804048	Prep Method:	5035	Prep Date:	04/09/18	Prep Batch:	1104124
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/9/2018	Analytical Batch:	430865
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
o-Xylene	1.7	10	ND		
Styrene	1.6	10	ND		
Bromoform	1.7	10	ND		
Isopropyl Benzene	1.6	10	ND		
n-Propylbenzene	1.6	10	ND		
Bromobenzene	1.8	10	ND		
1,1,2,2-Tetrachloroethane	1.9	10	ND		
2-Chlorotoluene	1.8	10	ND		
1,3,5-Trimethylbenzene	1.6	10	ND		
1,2,3-Trichloropropane	1.9	10	ND		
4-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.6	10	ND		
1,2,4-Trimethylbenzene	1.4	10	ND		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	ND		
1,3-Dichlorobenzene	1.7	10	ND		
1,4-Dichlorobenzene	1.7	10	ND		
n-Butylbenzene	1.5	10	ND		
1,2-Dichlorobenzene	1.8	10	ND		
1,2-Dibromo-3-Chloropropane	1.8	10	ND		
Hexachlorobutadiene	1.4	10	2.0		
1,2,4-Trichlorobenzene	1.5	10	2.2		
Naphthalene	1.7	10	6.1		
1,2,3-Trichlorobenzene	1.7	10	2.4		
2-Butanone	1.7	10	4.9		
(S) Dibromofluoromethane			104		
(S) Toluene-d8			98.0		
(S) 4-Bromofluorobenzene			101		

Work Order:	1804048	Prep Method:	5035GRO	Prep Date:	04/09/18	Prep Batch:	1104125
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/9/2018	Analytical Batch:	430865
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH(Gasoline)	43	100	46		
(S) 4-Bromofluorobenzene			84.9		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1804048	Prep Method:	3546_TPHSG	Prep Date:	04/06/18	Prep Batch:	1104057
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	4/7/2018	Analytical Batch:	430814
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	0.85	2.0	1.09	25.0	93.3	90.9	2.61	52 - 115	30	
TPH as Motor Oil (SG)			ND	200				59 - 129		

Work Order:	1804048	Prep Method:	5035	Prep Date:	04/08/18	Prep Batch:	1104088
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/8/2018	Analytical Batch:	430841
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	ND	50.0	92.6	89.2	3.74	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	106	104	1.53	66.5 - 135	30	
Trichloroethylene	1.8	10	ND	50.0	107	107	0.560	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	107	106	0.750	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	107	107	0.187	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	108	107		59.8 - 148		
(S) Toluene-d8				50.0	106	106		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	108	108		55.8 - 141		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1804048	Prep Method:	3050B	Prep Date:	04/09/18	Prep Batch:	1104089
Matrix:	Soil	Analytical Method:	SW6010B	Analyzed Date:	4/10/2018	Analytical Batch:	430874
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.050	5.00	ND	50	98.1	96.3	1.85	80 - 120	30	
Arsenic	0.15	1.30	0.28	50	98.5	95.6	2.89	80 - 120	30	
Barium	0.055	5.00	0.18	50	102	98.9	3.38	80 - 120	30	
Beryllium	0.055	5.00	ND	50	99.0	96.5	2.45	80 - 120	30	
Cadmium	0.10	5.00	ND	50	98.1	95.3	2.89	80 - 120	30	
Chromium	0.075	5.00	0.41	50	101	98.6	2.80	80 - 120	30	
Cobalt	0.070	5.00	0.095	50	101	98.4	2.61	80 - 120	30	
Copper	0.20	5.00	1.3	50	99.3	96.8	2.65	80 - 120	30	
Lead	0.10	3.00	ND	50	99.9	97.3	2.84	80 - 120	30	
Molybdenum	0.050	5.00	0.075	50	101	104	2.72	80 - 120	30	
Nickel	0.50	5.00	ND	50	101	98.5	3.00	80 - 120	30	
Selenium	0.22	5.00	ND	50	95.0	93.2	1.91	80 - 120	30	
Silver	0.15	5.00	ND	50	95.4	93.6	1.90	80 - 120	30	
Thallium	0.20	5.00	ND	50	95.3	93.2	2.33	80 - 120	30	
Vanadium	0.10	5.00	0.14	50	101	99.5	1.40	80 - 120	30	
Zinc	0.30	5.00	0.43	50	97.3	99.2	1.83	80 - 120	30	

Work Order:	1804048	Prep Method:	7471BP	Prep Date:	04/09/18	Prep Batch:	1104090
Matrix:	Soil	Analytical Method:	SW7471B	Analyzed Date:	4/10/2018	Analytical Batch:	430871
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.047	0.50	ND	1.25	92.9	101	8.26	80 - 120	30	

Work Order:	1804048	Prep Method:	5035GRO	Prep Date:	04/08/18	Prep Batch:	1104091
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/8/2018	Analytical Batch:	430841
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	43	100	74	1000	110	104	5.61	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	127	124		43.9 - 127		S



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1804048	Prep Method:	5030VOC	Prep Date:	04/09/18	Prep Batch:	1104092
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	4/9/2018	Analytical Batch:	430843
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	92.4	100	8.14	61.4 - 129	30	
Benzene	0.16	0.50	ND	17.9	92.8	105	11.9	66.9 - 140	30	
Trichloroethylene	0.15	0.50	ND	17.9	96.2	104	7.82	69.3 - 144	30	
Toluene	0.14	0.50	ND	17.9	100	102	1.66	76.6 - 123	30	
Chlorobenzene	0.16	0.50	ND	17.9	97.0	99.1	2.29	73.9 - 137	30	
(S) Dibromofluoromethane				17.9	99.8	112		61.2 - 131		
(S) Toluene-d8				17.9	98.2	100		75.1 - 127		
(S) 4-Bromofluorobenzene				17.9	92.4	98.3		64.1 - 120		

Work Order:	1804048	Prep Method:	5035	Prep Date:	04/07/18	Prep Batch:	1104093
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/7/2018	Analytical Batch:	430852
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	ND	50.0	105	105	0.381	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	116	113	2.44	66.5 - 135	30	
Trichloroethylene	1.8	10	ND	50.0	109	106	2.80	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	118	115	2.57	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	111	114	2.31	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	106	107		59.8 - 148		
(S) Toluene-d8				50.0	110	108		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	114	111		55.8 - 141		

Work Order:	1804048	Prep Method:	5030GRO	Prep Date:	04/09/18	Prep Batch:	1104094
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	4/9/2018	Analytical Batch:	430843
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	ND	238	110	96.7	13.4	52.4 - 127	30	
(S) 4-Bromofluorobenzene				11.9	94.0	83.1		41.5 - 125		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1804048	Prep Method:	3010B	Prep Date:	04/09/18	Prep Batch:	1104096
Matrix:	Water	Analytical Method:	SW6010B	Analyzed Date:	4/10/2018	Analytical Batch:	430875
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.0050	0.010	ND	1	103	107	3.81	80 - 120	20	
Arsenic	0.0040	0.010	0.010	1	104	106	1.90	80 - 120	20	
Barium	0.0010	0.0050	ND	1	105	107	1.89	80 - 120	20	
Beryllium	0.0010	0.0050	ND	1	106	108	1.87	80 - 120	20	
Cadmium	0.0020	0.0050	ND	1	105	107	1.89	80 - 120	20	
Chromium	0.0010	0.0050	ND	1	105	107	1.89	80 - 120	20	
Cobalt	0.0010	0.0050	ND	1	104	107	2.84	80 - 120	20	
Copper	0.0020	0.0050	0.0035	1	105	107	1.89	80 - 120	20	
Lead	0.0014	0.010	ND	1	104	107	2.84	80 - 120	20	
Molybdenum	0.0020	0.010	ND	1	105	112	6.45	80 - 120	20	
Nickel	0.0020	0.0050	0.0022	1	104	107	2.84	80 - 120	20	
Selenium	0.0070	0.010	ND	1	105	107	1.89	80 - 120	20	
Silver	0.0040	0.010	ND	1	103	105	1.92	80 - 120	20	
Thallium	0.0040	0.015	ND	1	105	107	1.89	80 - 120	20	
Vanadium	0.0020	0.0050	0.0016	1	107	108	0.930	80 - 120	20	
Zinc	0.0020	0.010	ND	1	104	106	1.90	80 - 120	20	

Work Order:	1804048	Prep Method:	7470AP	Prep Date:	04/09/18	Prep Batch:	1104098
Matrix:	Water	Analytical Method:	SW7470A	Analyzed Date:	4/10/2018	Analytical Batch:	430870
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.00013	0.00020	ND	0.015	105	106	1.27	80 - 120	20	

Work Order:	1804048	Prep Method:	5035GRO	Prep Date:	04/07/18	Prep Batch:	1104105
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/8/2018	Analytical Batch:	430852
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	43	100	60	1000	91.1	93.8	2.92	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	91.8	90.7		43.9 - 127		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1804048	Prep Method:	5035	Prep Date:	04/09/18	Prep Batch:	1104109
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/9/2018	Analytical Batch:	430855
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	ND	50.0	89.2	89.1	0.000	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	108	109	0.922	66.5 - 135	30	
Trichloroethylene	1.8	10	ND	50.0	105	105	0.382	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	108	109	0.739	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	108	110	1.83	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	111	112		59.8 - 148		
(S) Toluene-d8				50.0	108	108		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	109	110		55.8 - 141		

Work Order:	1804048	Prep Method:	5035GRO	Prep Date:	04/09/18	Prep Batch:	1104111
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/9/2018	Analytical Batch:	430855
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	43	100	ND	1000	107	104	2.84	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	121	124		43.9 - 127		

Work Order:	1804048	Prep Method:	5035	Prep Date:	04/08/18	Prep Batch:	1104119
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/8/2018	Analytical Batch:	430858
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	ND	50.0	102	96.0	6.45	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	116	114	1.39	66.5 - 135	30	
Trichloroethylene	1.8	10	ND	50.0	109	110	0.183	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	122	123	0.490	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	113	115	1.58	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	103	103		59.8 - 148		
(S) Toluene-d8				50.0	109	109		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	112	114		55.8 - 141		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1804048	Prep Method:	5035GRO	Prep Date:	04/08/18	Prep Batch:	1104121
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/8/2018	Analytical Batch:	430858
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	43	100	60	1000	97.9	90.2	8.19	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	87.3	87.6		43.9 - 127		

Work Order:	1804048	Prep Method:	3510_TPH	Prep Date:	04/10/18	Prep Batch:	1104122
Matrix:	Water	Analytical Method:	SW8015B	Analyzed Date:	4/10/2018	Analytical Batch:	430878
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel	0.037	0.10	ND	1.0	89.8	94.3	4.89	52 - 115	30	
Pentacosane (S)				200	75.5	80.8		59 - 129		

Work Order:	1804048	Prep Method:	5035	Prep Date:	04/09/18	Prep Batch:	1104124
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/9/2018	Analytical Batch:	430865
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	ND	50.0	87.0	92.4	6.02	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	104	114	8.62	66.5 - 135	30	
Trichloroethylene	1.8	10	ND	50.0	107	110	2.39	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	114	118	4.14	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	111	113	1.79	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	97.1	102		59.8 - 148		
(S) Toluene-d8				50.0	105	108		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	108	111		55.8 - 141		

Work Order:	1804048	Prep Method:	5035GRO	Prep Date:	04/09/18	Prep Batch:	1104125
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	4/9/2018	Analytical Batch:	430865
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	43	100	46	1000	94.2	90.2	4.34	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	91.8	87.6		43.9 - 127		



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1804048	Prep Method:	3546_TPHSG	Prep Date:	04/06/18	Prep Batch:	1104057
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	4/9/2018	Analytical Batch:	430860
Spiked Sample:	1804048-003A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	0.850	2.00	4.34	25.0	45.0	61.2	23.2	52 - 115	30	S
Pentacosane (S)				200	84.8	102		59 - 129		

Work Order:	1804048	Prep Method:	3050B	Prep Date:	04/09/18	Prep Batch:	1104089
Matrix:	Soil	Analytical Method:	SW6010B	Analyzed Date:	4/10/2018	Analytical Batch:	430874
Spiked Sample:	1804048-001A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.050	5.00	ND	50	68.3	77.8	12.2	30.7 - 130	30	
Arsenic	0.15	1.30	8.28	50	79.9	88.7	8.92	71.0 - 121	30	
Barium	0.055	5.00	131	50	106	124	4.77	70.2 - 130	30	
Beryllium	0.055	5.00	ND	50	86.1	94.0	8.56	73.3 - 115	30	
Cadmium	0.10	5.00	ND	50	87.0	95.5	9.21	80.0 - 110	30	
Chromium	0.075	5.00	41.8	50	89.6	105	8.72	76.0 - 116	30	
Cobalt	0.070	5.00	9.96	50	83.3	92.4	8.53	57.4 - 122	30	
Copper	0.20	5.00	28.1	50	90.6	98.9	5.56	74.8 - 119	30	
Lead	0.10	3.00	59.1	50	0.400	13.7	17.0	57.9 - 118	30	S
Molybdenum	0.050	5.00	ND	50	86.0	90.6	4.94	62.9 - 123	30	
Nickel	0.50	5.00	57.9	50	78.7	91.2	6.66	61.5 - 122	30	
Selenium	0.22	5.00	5.33	50	84.0	90.7	6.94	62.0 - 111	30	
Silver	0.15	5.00	ND	50	91.0	98.2	7.90	81.1 - 109	30	
Thallium	0.20	5.00	ND	50	68.0	73.1	6.90	39.2 - 125	30	
Vanadium	0.10	5.00	30.8	50	99.7	112	7.28	65.8 - 122	30	
Zinc	0.30	5.00	86.2	50	45.7	58.2	5.36	59.9 - 122	30	S

Work Order:	1804048	Prep Method:	7471BP	Prep Date:	04/09/18	Prep Batch:	1104090
Matrix:	Soil	Analytical Method:	SW7471B	Analyzed Date:	4/10/2018	Analytical Batch:	430871
Spiked Sample:	1804048-001A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.047	0.50	ND	1.25	104	101	2.96	75 - 125	30	



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1804048	Prep Method:	3010B	Prep Date:	04/09/18	Prep Batch:	1104096
Matrix:	Water	Analytical Method:	SW6010B	Analyzed Date:	4/10/2018	Analytical Batch:	430875
Spiked Sample:	1804048-014B						
Units:	mg/L						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.00500	0.0100	0.0231	1	2.60	2.82	4.38	75 - 125	20	S
Arsenic	0.00400	0.0100	0.342	1	44.6	72.3	30.4	75 - 125	20	S,R
Barium	0.00200	0.00500	11.6	1	0	0	1.65	75 - 125	20	NR
Beryllium	0.00100	0.00500	0.0463	1	78.0	75.8	2.82	75 - 125	20	
Cadmium	0.00200	0.00500	ND	1	90.2	88.3	2.16	75 - 125	20	
Chromium	0.00100	0.00500	4.12	1	0	0	0.419	75 - 125	20	NR
Cobalt	0.00100	0.00500	1.09	1	66.7	62.8	2.30	75 - 125	20	S
Copper	0.00200	0.00500	3.18	1	77.5	77.9	0.000	75 - 125	20	
Lead	0.00140	0.0100	0.113	1	70.9	69.6	1.59	75 - 125	20	S
Molybdenum	0.00200	0.0100	0.0135	1	23.4	30.6	25.0	75 - 125	20	S,R
Nickel	0.00200	0.00500	6.10	1	0	0	2.27	75 - 125	20	NR
Selenium	0.00700	0.0100	0.142	1	18.9	34.4	37.9	75 - 125	20	S,R
Silver	0.00400	0.0100	ND	1	101	97.2	3.80	75 - 125	20	
Thallium	0.00400	0.0150	ND	1	90.1	87.1	8.47	75 - 125	20	
Vanadium	0.00200	0.00500	2.66	1	59.6	73.0	3.91	75 - 125	20	S
Zinc	0.00200	0.0100	5.24	1	0	0	1.03	75 - 125	20	NR

Work Order:	1804048	Prep Method:	7470AP	Prep Date:	04/09/18	Prep Batch:	1104098
Matrix:	Water	Analytical Method:	SW7470A	Analyzed Date:	4/10/2018	Analytical Batch:	430870
Spiked Sample:	1804048-015B						
Units:	mg/L						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.000130	0.000200	0.00370	0.015	100	86.2	11.9	75 - 125	20	



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/RRLs/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 100cm ² 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 than 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.



Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Date and Time Received: 4/5/2018 5:20:00PM

Project Name: 580 Lorraine

Received By: Raj Kaur

Work Order No.: 1804048

Physically Logged By: Helena Ueng

Checklist Completed By: Helena Ueng

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present?	<u>Yes</u>
Chain of custody signed when relinquished and received?	<u>Yes</u>
Chain of custody agrees with sample labels?	<u>Yes</u>
Custody seals intact on sample bottles?	<u>Not Present</u>

Sample Receipt Information

Custody seals intact on shipping container/coolier?	<u>Not Present</u>
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?	<u>Yes</u>

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	<u>Yes</u>
Container/Temp Blank temperature in compliance?	<u>Yes</u>
Water-VOA vials have zero headspace?	<u>Yes</u>
Water-pH acceptable upon receipt?	
pH Checked by: Helena Ueng	pH Adjusted by: Helena Ueng

Comments:



Login Summary Report

Client ID: TL5123 **Engeo (San Ramon)** **QC Level:** II
Project Name: 580 Lorraine **TAT Requested:** 3 Day Std:3
Project # : 14121.001.000 **Date Received:** 4/5/2018
Report Due Date: 4/10/2018 **Time Received:** 5:20 pm

Comments:

Work Order # : **1804048**

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1804048-001A	S6@1'	04/05/18 8:12	Soil	10/02/18			Hg_S_7471B VOC_S_GRO VOC_S_8260B TPHDOSG_S_8015B Met_S_6010B CAM17	
1804048-002A	S6@5'	04/05/18 8:17	Soil	10/02/18			Hg_S_7471B VOC_S_GRO VOC_S_8260B TPHDOSG_S_8015B Met_S_6010B CAM17	
1804048-003A	S6@10'	04/05/18 8:22	Soil	10/02/18			Hg_S_7471B VOC_S_GRO VOC_S_8260B TPHDOSG_S_8015B Met_S_6010B CAM17	
1804048-004A	S5@1'	04/05/18 10:19	Soil	10/02/18			Hg_S_7471B VOC_S_GRO VOC_S_8260B TPHDOSG_S_8015B Met_S_6010B CAM17	
1804048-005A	S2@1'	04/05/18 10:38	Soil	10/02/18			Hg_S_7471B VOC_S_GRO VOC_S_8260B TPHDOSG_S_8015B Met_S_6010B CAM17	
1804048-006A	S2@5'	04/05/18 10:42	Soil	10/02/18			Hg_S_7471B VOC_S_GRO VOC_S_8260B TPHDOSG_S_8015B Met_S_6010B CAM17	



Login Summary Report

Client ID: TL5123 **Engeo (San Ramon)** **QC Level:** II
Project Name: 580 Lorraine **TAT Requested:** 3 Day Std:3
Project # : 14121.001.000 **Date Received:** 4/5/2018
Report Due Date: 4/10/2018 **Time Received:** 5:20 pm

Comments:

Work Order # : **1804048**

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1804048-007A	S2@10'	04/05/18 10:45	Soil	10/02/18			Hg_S_7471B VOC_S_GRO VOC_S_8260B TPHDOSG_S_8015B Met_S_6010B CAM17	
1804048-008A	S7@1'	04/05/18 12:44	Soil	10/02/18			Hg_S_7471B VOC_S_GRO VOC_S_8260B TPHDOSG_S_8015B Met_S_6010B CAM17	
1804048-009A	S7@5'	04/05/18 12:47	Soil	10/02/18			Hg_S_7471B VOC_S_GRO VOC_S_8260B TPHDOSG_S_8015B Met_S_6010B CAM17	
1804048-010A	S7@10'	04/05/18 12:50	Soil	10/02/18			Hg_S_7471B VOC_S_GRO VOC_S_8260B TPHDOSG_S_8015B Met_S_6010B CAM17	
1804048-011A	S1@1'	04/05/18 13:59	Soil	10/02/18			Hg_S_7471B VOC_S_GRO VOC_S_8260B TPHDOSG_S_8015B Met_S_6010B CAM17	
1804048-012A	S1@5'	04/05/18 14:02	Soil	10/02/18			Hg_S_7471B VOC_S_GRO VOC_S_8260B TPHDOSG_S_8015B Met_S_6010B CAM17	



Login Summary Report

Client ID: TL5123 **Engeo (San Ramon)** **QC Level:** II
Project Name: 580 Lorraine **TAT Requested:** 3 Day Std:3
Project # : 14121.001.000 **Date Received:** 4/5/2018
Report Due Date: 4/10/2018 **Time Received:** 5:20 pm

Comments:

Work Order # : **1804048**

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1804048-013A	S1@10'	04/05/18 14:05	Soil	10/02/18			Hg_S_7471B VOC_S_GRO VOC_S_8260B TPHDOSG_S_8015B Met_S_6010B CAM17	
1804048-014A	GW-6	04/05/18 9:22	Water	05/20/18			VOC_W_8260B VOC_W_GRO	
1804048-014B	GW-6	04/05/18 9:22	Water	05/20/18			Hg_W_7470A Met_W_CAM17_6010 B	
1804048-014C	GW-6	04/05/18 9:22	Water	05/20/18			TPHDO_W_8015B(M)	
1804048-015A	GW-2	04/05/18 12:15	Water	05/20/18			VOC_W_8260B VOC_W_GRO	
1804048-015B	GW-2	04/05/18 12:15	Water	05/20/18			Hg_W_7470A Met_W_CAM17_6010 B	
1804048-015C	GW-2	04/05/18 12:15	Water	05/20/18			TPHDO_W_8015B(M)	



TORRENT!

CHAIN OF CUSTODY

1804048

~~ENTHALPY ANALYTICAL~~

Formerly Curtis & Tompkins Labs

2323 Fifth Street
Berkeley, CA 94710

Project No: 14121.001.000

Phone (510) 486-0900
Fax (510) 486-0532

Sampler: J. Lohmann

Project Name: 580 Lowaine

Report To: D. Bhargava

Project P. O. No:

Company: ENTHALPY

EDD Format: Report Level II III IV

Telephone: 415-860-6776

Turnaround Time: RUSH

Standard

Email: dbhargava@engo.com

Lab No.	Sample ID.	SAMPLING		MATRIX	# of Containers	CHEMICAL PRESERVATIVE				
		Date Collected	Time Collected			HCl	H ₂ SO ₄	HNO ₃	NaOH	None
001A	S6@11'	4/5/18	8:12	X	1				X	
002A	S6@5'		8:17	X	1				X	
003A	S6@10'		8:22	X	1				X	
004A	S5@11'		10:17	X	1				X	
005A	S2@1'		10:38	X	1				X	
006A	S2@5'		10:42	X	1				X	
007A	S2@10'		10:45	X	1				X	
008A	S7@11'		12:44	X	1				X	
009A	S7@5'		12:47	X	1				X	
010A	S7@10'		12:50	X	1				X	
011A	S1@1'		13:59	X	1				X	
012A	S1@5'		14:02	X	1				X	
013A	S1@10'		14:05	X	1				X	

Notes:	SAMPLE RECEIPT	RELINQUISHED BY:			RECEIVED BY:		
		<input type="checkbox"/> Intact	<input type="checkbox"/> Cold	<input checked="" type="checkbox"/> On Ice	<input type="checkbox"/> Ambient	DATE: 4/5 TIME: 17:20	DATE: 4/5 TIME: 17:20
				DATE: _____	TIME: _____	DATE: _____	
				DATE: _____	TIME: _____	DATE: _____	
				DATE: _____	TIME: _____	DATE: _____	

DOPP

Temp = 2°C ± 2



TORRENT

CHAIN OF CUSTODY

(804048)

~~ea~~ ENTHALPY ANALYTICAL

Formerly Curtis & Tompkins Labs

~~2323 Fifth Street
Berkeley, CA 94710~~

Project No: 14121.001.000

Phone (510) 486-0900
Fax (510) 486-0532

Sampler: J. Lohmann

Project Name: Lorraine

Report To: D. Bhargava

Project P. O. No:

Company: ENGEOS

EDD Format: Report Level II III IV

Telephone: 415-860-0776

Turnaround Time: RUSH

 Standard

Email: dbhargava@engg.vt.edu

Notes:

SAMPLE

SAMPLE DECISION

RECEIVED

Intact

Cold

RELINQUISHED BY:

• 11 •

RECEIVED BY:

15