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Mr. Mark Detterman, P.G., C.E.G.  
Alameda County Health Care Services Agency  
Environmental Health Services  
Environmental Protection  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**RE: Data Gap Investigation Report**

**SITE: Sheaff's Garage**  
**5930 College Avenue, Oakland, California**  
**ACHCSA Fuel Leak Case No. RO0000377**  
**GGTR Project 9497**

Dear Mr. Detterman:

Upon my authorization, Golden Gate Tank Removal, Inc. has prepared the attached *Data Gap Investigation Report* presenting findings and conclusions of the additional investigation activities conducted during October/November 2015 at the above-referenced property. This report also includes results of the 4th Quarter 2015 groundwater monitoring and sampling event performed on November 11, 2015, and includes an updated Focused Site Conceptual Model, as presented in Appendix A. GGTR has uploaded an electronic copy of the document to the State Water Resources Control Board's GeoTracker Database System, as well as the Alameda County Health Care Services Agency FTP Site. Should you have any questions, please contact Mr. Brent Wheeler, Project Engineer of Golden Gate Environmental at (415) 512-1555 at your convenience.

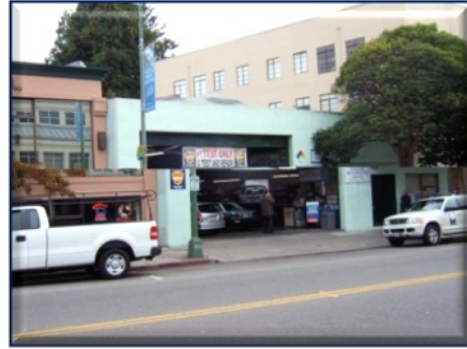
I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document are true and correct to the best of my knowledge.

Respectfully Submitted,



Dr. Brian R. Sheaff  
William G. Sheaff & Patricia Warren Restated Living Trust U/D/T 2/14/89

Distribution: (1) Addressee



**Former Sheaffs Service Garage  
5930 College Avenue, Oakland, California**

**DATA GAP INVESTIGATION REPORT  
Alameda County LOP Cleanup Case # RO0000377**

March 15, 2016

*Prepared For:*

**Dr. Brian Sheaff, William G. Sheaff & Patricia Warren Restated Living Trust**  
1945 Parkside Avenue, Concord, California 94519

*Prepared By:*



**Golden Gate Tank Removal, Inc.**

GGTR Project No. 9497



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# Data Gap Investigation Report

5930 College Avenue, Oakland, California

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### **Appendix A – Focused Conceptual Site Model**

#### **Appendix B – Laboratory Reports**

Laboratory Certificates Of Analysis  
Chain-of-Custody Records

#### **Appendix C – Field Data Sheets**

Fluid-Level Monitoring Data Sheet  
Well Purging/Sampling Data Sheets  
Soil Gas Sampling Data Sheets  
Soil Boring & Well Construction Logs

#### **Appendix D - Additional Documentation**

EPA On-Line Tools for Site Assessment Calculation Sheet  
Waste Disposal Documentation/Manifest  
GeoTracker Upload Confirmation Sheets



# Golden Gate Tank Removal, Inc.

GGTR Project No. 9497



## DATA GAP INVESTIGATION REPORT

### Former Sheaffs Service Garage

5930 College Avenue, Oakland, CA

ACHCSA Site No. RO0000377

## INTRODUCTION

Golden Gate Tank Removal, Inc. (GGTR) is pleased to submit this Data Gap Investigation Report for the additional investigation activities at the property located at 5930 College Avenue in Oakland, California (Site). The Alameda County Environmental Health (ACEH) refers to the fuel leak case at the Site by the historical business name “Sheaffs Service Garage” and as Case # RO0000377. Under the Regional Water Quality Control Board’s (RWQCB) Local Oversight Program, the ACEH is the lead regulatory agency for the case at the Site. The RWQCB manages the Site as LUST Cleanup Site Case # 01-2296 with GeoTracker Global Tracking Number T0600102112.

The investigation scope of work was presented in the Data Gap Investigation Work Plan dated January 26, 2015, which was prepared in response to the April 11, 2014 letter issued by ACEH requesting additional characterization of the Site. In general accordance with the technical comments presented in the aforementioned letter, the purpose of the additional investigation is to: 1) further define the length of the hydrocarbon-affected groundwater plume, 2) investigate for potential source areas of PCE contamination of groundwater, 3) further evaluate the direct contact and outdoor air volatilization issues, 4) resolve data gaps in subsurface sampling information, and 5) further evaluate the potential impact of vapor intrusion on the subject building and adjoining buildings. The scope of work was approved by the ACEH in their letter dated April 9, 2015, including the incorporation of technical comments requesting additional laboratory analysis.

This report also includes the results of groundwater monitoring and sampling performed on November 11, 2015. An updated Focused Conceptual Site Model, previously submitted in the work plan, is included in this report utilizing data and information acquired during the recent investigation. The Focused Conceptual Site Model is an integral part of the decision making process used in this report to evaluate the Site for low threat closure. The updated Focused Conceptual Site Model is presented in Appendix A.

GGTR performed additional investigation in coordination with the ACEH in order to address data gaps remaining from previous investigations. The new data was designed to address the criteria in the Low Threat Closure Policy that prevents the Site from attaining case closure. GGTR requests the ACEH review the results of the additional data gap investigation as presented in this report and comment on the suitability of the Site for case closure under the LTCP.

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## SITE LOCATION

The Site is a commercial property located at 5930 College Avenue along the east side of College Avenue between Harwood Street and Chabot Road in Oakland, California. The Site lies approximately 0.2 mile (1,000 feet) north of Highway 24 and about two miles east of Interstate 80 and the San Francisco Bay. The elevation of the Site is approximately 195 feet above Mean Sea Level. The property is flat lying with the local topographic relief directed toward the west-southwest in the general direction of the San Francisco Bay as shown on Figure 1, Site Location Map. The topographic map of Figure 1 depicts the area of the subject property as dense urban development. Figure 2, Site Vicinity Map, shows the mixed-use commercial-residential character of the surrounding neighborhood. Commercial-retail corridors are located along main thoroughfares such as College Avenue with residential neighborhoods situated between the corridors. The character of the Site's neighborhood has remained consistent since the 1950s. Figure 3 is a *Site Plan* showing the approximate location of the former underground storage tanks (UST), historical soil borings, and existing groundwater monitoring field points MW-1, MW-2, MW-3 and PW-1. Figure 3 also shows the location of additional new investigation borings with soil, soil gas and grab groundwater samples.

## SITE DESCRIPTION

The property is currently 100% occupied by Stauder Automotive Service for the maintenance and repair of automobiles. The building is a small single-story industrial-style building constructed in 1952. The Site is approximately 5,500 square feet in area with about 75% utilized by an industrial-style garage building and 25% used as an exterior paved storage yard/parking lot. Access to the property is by driveway and roll-up door from College Avenue. Sewage, storm water and solid waste disposal along with water supply provided by municipal utilities. Two underground storage tanks (UST) were formerly located beneath the sidewalk at the southwest corner of the Site and removed in 1996. No active USTs, fuel storage, or fuel distribution system currently exist onsite. Most of the building consists of open work / storage area. The photograph on the cover page shows the open space configuration of the building. The rear of the property contains a paved parking and storage yard with a storm drain connected to a subsurface oil-water separator. The property is completely paved with asphalt or concrete with the building constructed on a slab-on-grade foundation.

A four-story retail-residential building is adjacent to the Site on the south at 5916-20 College Avenue. This building contains a parking garage and a retail store (T-Mobile) on the ground floor with 12 apartments on upper floors. A narrow corridor-walkway runs along the southern wall of the subject building separating the multistory apartment building from the subject property. To the south and west of the Site is an older single-family residential neighborhood with two residence backyards adjoining the Site's rear paved parking area. The surface channel of Harwood Branch creek is located within residential backyards about one block east and up-gradient of the Site. Harwood Branch is contained within a large subsurface box conduit about 250 feet south of the Site. On the west, an Alameda County Flood Control District cutoff storm water conduit (90" diameter) associated with Harwood Branch creek is located within College Avenue. A retail shopping center (former Dryers Ice Cream facility) and a church are located across College Avenue. On the north, College Square retail center constructed in 1978 is currently occupied by a restaurant (Barclays Restaurant & Pub), office space and parking garage. This commercial development's ground floor retail space and parking garage lie approximately 3-4 feet below the grade of the subject property.

## GROUNDWATER MONITORING

The scope of work for the Fourth Quarter 2015 semi-annual groundwater monitoring and sampling event included the following tasks:

- Monitoring, purging and sampling of all monitoring field points MW-1, MW-2, MW-3 and PW-1
- Laboratory analysis of groundwater samples
- Waste management
- Electronic data upload to GeoTracker Database System
- Data compilation, interpretation and reporting

GGTR, in conjunction with Dysert Environmental, Inc. (DEI), monitored and sampled monitor wells MW-1, MW-2, MW-3 and piezometer PW-1 on November 11, 2015. Figure 3 titled Site Plan shows the location of the monitor wells and piezometer.

### Groundwater Monitoring and Sampling

Prior to purging and sampling, DEI removed the well cover and locking compression cap and allowed the water column at each field point to stabilize for a minimum of 20 minutes. DEI then measured and recorded the depth to product/groundwater using a Keck electronic oil/water interface meter. Fluid levels were measured relative to the north side of the top of casing to the nearest 0.01 foot. No floating petroleum product was detected in the wells and piezometer. An odor of petroleum fuel was noted in wells MW-1, MW-2 and MW-3. Depth to groundwater ranged from 11.89 feet in well MW-3 to 14.19 feet below grade in well MW-2.

DEI subsequently purged groundwater from the monitor wells using a peristaltic pump (average flow rate @ 100 to 200 milliliters per minute), and simultaneously monitored and recorded the pH, temperature, and specific conductivity of the purged well water. DEI terminated well purging after evacuation of approximately 1.2 to 3.0 liters of water from each well and three successive readings of each parameter varied by less than 0.1, 10%, and 3%, respectively. The well purge and equipment wash and rinse water generated during this event was transferred directly to a D.O.T.-approved, 55-gallon drum, appropriately labeled and sealed, and temporarily stored onsite in a secure area for use with future groundwater monitoring/investigation work.

After the groundwater in each well recharged sufficiently to allow sample collection (at least 80% of initial depth to water), DEI recovered a groundwater sample using a peristaltic pump with dedicated tubing lowered just below the last measured groundwater level. The groundwater sample was collected from the discharge end of the dedicated tubing into pre-cleaned, laboratory-provided sample containers. The sample containers were sealed with Teflon caps and all volatile organic analysis (VOA) vials were inverted and checked to insure that no entrapped air was present. The samples were properly labeled and stored in a cooler chilled to approximately 4°C. Appendix C contains a copy of the Fluid-Level Monitoring Data Sheet and Well Purging/Sampling Data Sheets for this event.

## Water Sample Analytical Methods

On November 12, 2015, DEI submitted four (4) groundwater samples under formal chain of custody command to Torrent Laboratory, Inc., a State-certified analytical laboratory (CA ELAP #1991) in Milpitas, California, for analysis of the required chemical constituents. Torrent submitted their certified analytical report on November 19, 2015. Torrent completed all volatile organic analyses within the 14-day required time limit for analysis. Torrent analyzed the water samples for the following chemical constituents:

- Total Petroleum Hydrocarbons - TPH as Gasoline by analysis method 8260TPH
- Total Petroleum Hydrocarbons - TPH as Diesel, TPH as Motor Oil by analysis method SW8015B(M)
- Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX), Naphthalene, Methyl Tertiary Butyl Ether (MTBE), Tertiary Butyl Alcohol (TBA), 1,2-Dibromoethane (EDB), 1,2-Dichloroethane (EDC) by analysis method SW8260B (field points MW-1, MW-2 and MW-3)
- Polycyclic Aromatic Hydrocarbons (PAHs) by analysis method SW8270C
- Volatile Organic Compounds (Long List) by analysis method SW8260B (field point PW-1 only)

Tables 1 and 2 attached present a summary of the analytical results for the sampling event as well as previous monitoring/sampling events at the Site. Appendix B includes a copy of the Laboratory Certificate of Analysis and associated Chain of Custody Record for this event. Torrent reported that no issues were encountered with the receiving, preparation, analysis or reporting of the results associated with the submitted samples. Torrent reported the following notes concerning specific sample analyses:

<i>Field Point</i>	<i>Analysis Method</i>	<i>Laboratory Note</i>
MW-1	TPH as Gasoline	Reported TPH value includes amount due to discrete peaks and heavy end hydrocarbons (possibly aged gasoline) within range of C5-C12 quantified as gasoline.
MW-1	TPH as Diesel	Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range lighter than diesel quantified as diesel.
MW-1	SW8270C	Reporting limits increased due to matrix interference (detector saturation from unknown organics). Surrogate recovery outside the laboratory control limit due to matrix interference.
MW-2	TPH as Gasoline	Does not match pattern of reference Gasoline standard. Reported TPH value includes significant amount of non-target hydrocarbons within range of C5-C12 quantified as gasoline.
MW-2	SW8270C	Reporting limits increased due to matrix interference (detector saturation from unknown organics).
MW-2	TPH as Diesel	Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range lighter than diesel quantified as diesel.
MW-3	TPH as Gasoline	Although TPH as Gasoline constituents are present, sample chromatogram does not resemble pattern of reference Gasoline standard.
MW-3	SW8270C	Reporting limits increased due to matrix interference (detector saturation from unknown organics).
MW-3	TPH as Diesel	Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range lighter than diesel quantified as diesel.
PW-1	TPH as Gasoline	Does not match pattern of reference Gasoline standard. Hydrocarbons in the range of C5-C12 quantified as Gasoline.



## Groundwater Monitoring Results

For the November 11, 2015 event, the groundwater elevations calculated relative to the top of well casing in wells MW-1, MW-3 and PW-1 ranged between 183.33 (MW-3) and 185.15 (PW-1) feet, as referenced to Mean Sea Level (MSL), a difference in range of 1.82 feet. The following table presents the results of groundwater measurements:

### Results of Groundwater Measurements

<i>Well Label</i>	<i>Total Well Depth</i>	<i>Depth to Water</i>	<i>Casing Elevation</i>	<i>Groundwater Elevation</i>	<i>Petroleum Product</i>
PW-1	19.78	14.02	197.17	185.15	None detected
MW-1	14.46	12.42	195.9	183.48	None detected
MW-2	19.58	14.19	197.28	183.09	None detected
MW-3	19.03	11.89	195.22	183.33	None detected

The groundwater elevations are the lowest measured at the Site since 1998 representing drought conditions. The groundwater elevation and coordinate data for each monitoring event was entered into the EPA On-Line Tools for Site Assessment Calculation, Hydraulic Gradient – Magnitude and Direction. This tool calculates gradient by a least-squares fitting of the data to a plane and used to calculate the approximate groundwater hydraulic gradient and flow direction across the Site. The attached Figure 4, titled Groundwater Data Diagram shows the groundwater data for the subject monitoring event. The EPA On-Line Tools for Site Assessment Calculation sheet is included in Appendix D.

During the November 11, 2015 monitoring event, the groundwater flow direction beneath the Site was estimated at North 99° West (261°) under a hydraulic gradient of approximately 0.015 ft/ft. The groundwater flow direction for this event shifted approximately 55° to the north, as compared to the May 13, 2015 event, and is consistent with historical data for the Site with the flow direction ranging from south to west. The large variation in groundwater flow direction is inconsistent with previous studies at nearby former gasoline stations that measured a consistent regional flow direction of westward. The relatively large variation in flow direction and groundwater elevation data appears related to the unique hydrogeology of the Site, which is located near the intersection of two major stream/stormwater box culverts.

### Results of Groundwater Sampling and Laboratory Analysis

The attached Tables 2A & 2B include the historical groundwater analysis results leading up to the November 11, 2015 event, and the associated laboratory report is included in Appendix B. The laboratory reported concentrations of TPH as gasoline ranging from 520 µg/L in piezometer PW-1 to 14,000 µg/L in well MW-1 in groundwater samples collected during the November 2015 event. Benzene concentrations ranged between 3.8 µg/L in piezometer PW-1 to 3900 µg/L in well MW-1.

The following table tabulages benzene concentrations measured in monitor field points:

### Benzene Concentrations ( $\mu\text{g/L}$ ) in Monitor Wells

Date	11/11/2015	5/13/2015	10/20/2014	4/14/2014	10/16/2013	10/7/2013
MW-1	3900	2700	5600	3000	2400	9200
MW-2	220	220	140	530	780	810
MW-3	660	110	180	400	990	140
PW-1	3.8	<0.5	2.4	<0.5	0.87	<0.5

Per the most recent ACEH Letters dated April 11, 2014 and April 9, 2015, samples collected from each monitoring well and piezometer PW-1 were additionally analyzed for Naphthalene, PAH, and TPH as diesel and motor oil. During the November 2015 event, the laboratory reported Naphthalene at 130  $\mu\text{g/L}$  in well MW-1, not detected in well MW-2, and 17  $\mu\text{g/L}$  in well MW-3. TPH as diesel was detected in MW-1 to MW-3 and PW-1 at concentrations of 4100, 2200, 760 and 140  $\mu\text{g/L}$ , respectively. The laboratory analytical report noted that for each TPH as diesel sample result, the chromatographic pattern does not resemble the typical diesel reference standard, and that unknown organics within the diesel range (lighter than diesel quantified as diesel) are present. TPH as motor oil was detected in well MW-1 at 2200  $\mu\text{g/L}$  and PW-1 at 400  $\mu\text{g/L}$ .

The results of the laboratory analysis of well groundwater samples are compared to RWQCB - ESL as shown in the following table. Values on this table are shown in  $\mu\text{g/L}$  and represent 2013 ESL values for groundwater that is not a potential source of drinking water.

### Comparison of Laboratory Analysis Results of Groundwater Samples to RWQCB ESL

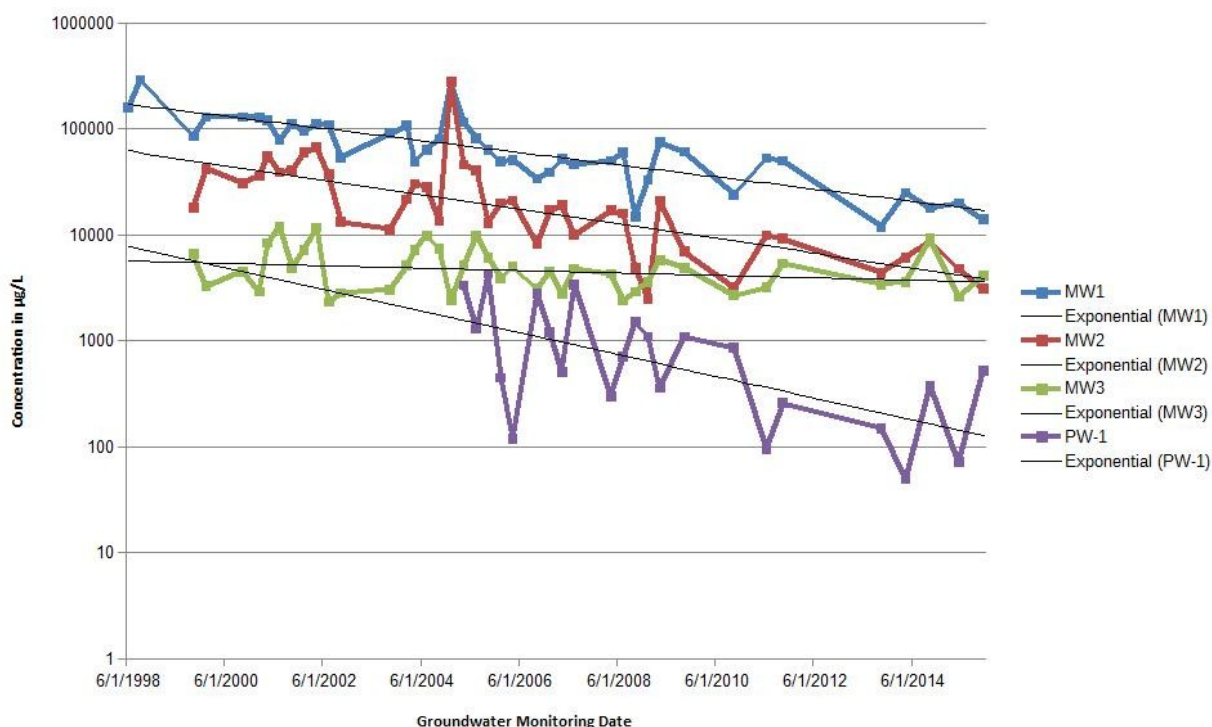
Chemical Constituent	RWQCB ESL for groundwater	Maximum results of laboratory analysis in $\mu\text{g/L}$	Results Exceeding ESL
TPH as Gasoline	500 $\mu\text{g/L}$ (aquatic habitat)	MW-1 at 14000, MW-2 at 3100, MW-3 at 4100, PW-1 at 520	4 samples exceed
TPH as Diesel / TPH as Motor Oil	640 $\mu\text{g/L}$ (ceiling value)	MW-1 at 4100/2100, MW-2 at 2100/ND, MW-3 at 760/ND	3 samples exceed
Naphthalene	24 $\mu\text{g/L}$ (aquatic habitat)	MW-1 at 130	1 sample exceeds
Benzene	27 $\mu\text{g/L}$ (vapor intrusion) 46 $\mu\text{g/L}$ (aquatic habitat)	MW-1 at 3900, MW-2 at 220, MW-3 at 660	3 samples exceed
Toluene	130 $\mu\text{g/L}$ (aquatic habitat)	MW-1 at 91	None exceed
Ethyl Benzene	43 $\mu\text{g/L}$ (aquatic habitat)	MW-1 at 750, MW-3 at 250	2 samples exceed
Total Xylenes	100 $\mu\text{g/L}$ (aquatic habitat)	MW-1 at 288	1 sample exceeds
MTBE	1800 $\mu\text{g/L}$	MW-1 at 49	None exceeds
Tetrachloroethene	63 $\mu\text{g/L}$	PW-1 at 39 $\mu\text{g/L}$	None exceeds
Cis-1,2-DCE	590 $\mu\text{g/L}$	PW-1 at 43 $\mu\text{g/L}$	None exceeds
Trichloroethene	130 $\mu\text{g/L}$	PW-1 at 11 $\mu\text{g/L}$	None exceeds

PCE was detected in the groundwater sample collected in well PW-1 at a concentration of 39 µg/L, decreasing from the 93 µg/L concentration measured during the May 2015 event. The recently measured PCE concentration of 39 µg/L is below its applicable San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) of 63 µg/L. Since April 2005, PCE concentrations in well PW-1 continue to seasonally fluctuate between 25 and 120 µg/L. The PCE breakdown products of TCE and Cis-1,2-DCE were measured in PW-1 at a concentration of 11 µg/L and 43 µg/L during this event. Table 2 includes a summary of the historical groundwater VOC analysis results and the complete VOC laboratory report is included in Appendix B.

The laboratory reported that all four (4) analysis results exceed 2013 ESL values for petroleum hydrocarbons as gasoline in monitor well groundwater samples (groundwater is not a current or potential drinking water source). Groundwater samples from three wells MW-1, MW-2 and MW-3 have TPH as Diesel/Motor Oil and benzene concentrations that exceed its applicable ESL value. Groundwater samples from two wells MW-1 and MW-3 have ethyl benzene concentrations that exceed its ESL value. The groundwater sample collected in well MW-1 contained naphthalene and total xylenes concentrations that exceed their ESL values.

The following chart plots TPH as Gasoline concentrations in monitor wells versus time - displaying an overall decreasing trend in contaminant concentrations following primary source removal in 1996. The recently measured concentrations appear consistent with the historical trend lines and typical seasonal variations.

**Chart of TPH as Gasoline Concentrations versus Time of Sampling Event**



## DATA GAP INVESTIGATION

GGTR performed additional site investigation in the form of soil, grab groundwater and soil gas sampling to address the data gaps identified in the FCSM. The sampling locations are shown on Figure 3, Site Plan. The following sections describe the scope of work and results of the additional investigation work.

### Summary of Investigation Activities

The following table presents a summary of the investigative and sampling activities:

<i>Label</i>	<i>Depth ft</i>	<i>Sampling Location &amp; Purpose</i>	<i>Sample Data Recovered</i>
B28 B28V	20 5	Rear courtyard at southern boundary to determine PCE and petroleum hydrocarbon impact to site and adjoining property	Soil samples at 1, 3, 5, 7, 9, 12 and 13.5 feet, grab groundwater sample at 18.1 feet bsg, soil gas sample at 4.5-5 feet in B28V
B29 B29V	20 5	Rear courtyard at northern boundary to determine PCE and petroleum hydrocarbon impact to site and adjoining property	Soil samples at 1, 3, 5, 7, 9, and 14 feet and grab groundwater sample at 18.9 feet bsg, soil gas sample at 4.5-5 feet in B29V
B30	20	Rear corner of subject building at former parts cleaner location to determine PCE and petroleum hydrocarbon impact	Soil samples at 0.5, 3, 5, 7, 9.5, and 18 feet and grab groundwater sample at 18.1 feet bsg
B31 B31V	16 6.5	In sidewalk frontage of adjoining apartment building to determine impact of potential vapor intrusion and petroleum hydrocarbons to adjoining building and further define extent of groundwater plume	Soil samples at 1, 3, 5, 9, 11.5 and 14.5 feet, soil gas sample at 6.5 feet (default foundation depth of 1½ feet) in B31V, borehole was dry with no water sample
B32	20	In parking lane of College Avenue to define extent of groundwater plume	Soil samples at 1, 3, 5, 7, 9 and 13 feet, grab groundwater sample at approximately 12.5 feet bsg
B33	20	In parking lane of College Avenue to define extent of groundwater plume	Soil samples at 1, 3, 5, 9, and 12 feet, borehole was dry with no water sample
B34	20	Soil and grab groundwater samples down-gradient from hydraulic hoist location	Soil samples at 1, 3, 5, 7, 9.5, 11 and 13.5 feet, grab groundwater sample at 18.75 feet bsg
B35	16	Soil samples for evaluation of direct contact and outdoor air volatilization exposure	Soil samples at 1, 3, 5, 7, 9 and 12 feet
SG-1, SG-2, SG-3	4 5 5	Re-sample existing soil gas sampling probes to assess vapor intrusion risk to overlying commercial building	Three (3) soil gas samples from existing soil gas probes
SSV-1	sub-slab	Install new sub-slab vapor sampling probe within business office to determine impact of vapor intrusion	Collect sub-slab vapor sample from directly below 6-inch concrete floor slab from new vapor pin sampling probe

## Laboratory Analysis of Soil Samples

GGTR submitted the soil samples under formal chain of custody command to Torrent Laboratory Inc., a State-certified analytical laboratory (CA ELAP #1991) in Milpitas, California for laboratory analysis of the following chemical constituents. The attached tables include a summary of the discrete soil sample analytical results for the November 2015 sampling, and the associated laboratory reports are included in Appendix B.

Four soil samples collected from each boring B28, B29 and B30 in the rear courtyard area were analyzed for:

- Total Petroleum Hydrocarbons (TPH) as Gasoline by EPA Method 8260TPH
- Total Petroleum Hydrocarbons (TPH) as Diesel by EPA Method SW8015B(M)
- Total Petroleum Hydrocarbons (TPH) Motor Oil by EPA Method SW8015B(M)
- Polynuclear Aromatic Hydrocarbons (PAH) and Naphthalene by EPA Method 8270C
- Volatile Organic Compounds (Full List) by EPA Method SW8260B

### Summary of Results for Soil Samples from Borings B28, B29 and B30

<i>Sample</i>	<i>Depth ft</i>	<i>Date</i>	<i>Parameter</i>	<i>Medium</i>	<i>Analysis</i>	<i>Result</i>	<i>Unit</i>
B28-3	3	11-8-15	TPH as Motor Oil	Soil	SW8015B(M)	14	mg/kg
B28-5	5	11-8-15	TPH as Motor Oil	Soil	SW8015B(M)	13	mg/kg
			TPH as Diesel		SW8015B(M)	5.9	mg/kg
B28-9	9	11-8-15	TPH as Motor Oil	Soil	SW8015B(M)	12	mg/kg
			TPH as Diesel		SW8015B(M)	6.1	mg/kg
B29-3	3	11-8-15	TPH as Diesel	Soil	SW8015B(M)	2.5	mg/kg
B29-5	5	11-8-15	TPH as Motor Oil	Soil	SW8015B(M)	11	mg/kg
			TPH as Diesel		SW8015B(M)	5.1	mg/kg
B29-9	9	11-8-15	TPH as Motor Oil	Soil	SW8015B(M)	12	mg/kg
			TPH as Diesel		SW8015B(M)	6	mg/kg
B29-14	14	11-8-15	TPH as Diesel	Soil	SW8015B(M)	4.2	mg/kg
B30-3	3	11-8-15	All compounds	Soil		ND	
B30-5	5	11-8-15	TPH as Motor Oil	Soil	SW8015B(M)	10	mg/kg
			TPH as Diesel		SW8015B(M)	4.6	mg/kg
B30-9.5	9.5	11-8-15	TPH as Motor Oil	Soil	SW8015B(M)	12	mg/kg
			TPH as Diesel		SW8015B(M)	6.5	mg/kg
B30-14	14	11-8-15	TPH as Gasoline	Soil	8260TPH	11	mg/kg
			TPH as Diesel		SW8015B(M)	8.5	mg/kg

Soil samples collected from each boring B31 (5 samples), B32 (4 samples) and B33 (3 samples) in the west and east sidewalks of College Avenue were analyzed for:

- TPH as Gasoline by EPA Method 8060TPH
- TPH as Diesel by EPA Method SW8015B(M)
- TPH as Motor Oil by EPA Method SW8015B(M)
- Polynuclear Aromatic Hydrocarbons (PAH) and Naphthalene by EPA Method SW8270C
- Volatile Organic Compounds (short list) by EPA Method SW8260B including Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX) and Naphthalene

### Summary of Results for Soil Samples from Borings B31, B32 and B33

Sample	Depth ft	Date	Parameter	Medium	Analysis	Result	Unit
B31-1	1	11-9-15	TPH as Motor Oil	Soil	SW8015B(M)	2.2	mg/kg
			TPH as Diesel		SW8015B(M)	3.6	mg/kg
B31-3	3	11-9-15	TPH as Motor Oil	Soil	SW8015B(M)	12	mg/kg
			TPH as Diesel		SW8015B(M)	2.3	mg/kg
B31-9	9	11-9-15	TPH as Diesel	Soil	SW8015B(M)	6.1	mg/kg
B31-11.5	11.5	11-9-15	TPH as Gasoline	Soil	8260TPH	3.1	mg/kg
			TPH as Diesel		SW8015B(M)	7.6	mg/kg
B31-14.5	14.5	11-9-15	TPH as Gasoline	Soil	8260TPH	0.53	mg/kg
			TPH as Diesel		SW8015B(M)	3.3	mg/kg
B32-1	1	11-8-15	TPH as Motor Oil	Soil	SW8015B(M)	20	mg/kg
			TPH as Diesel		SW8015B(M)	3.2	mg/kg
B32-3	3	11-8-15	All compounds	Soil		ND	
B32-9	9	11-8-15	TPH as Diesel	Soil	SW8015B(M)	2.1	mg/kg
B32-13	13	11-8-15	TPH as Diesel	Soil	SW8015B(M)	2.1	mg/kg
B33-3	3	11-9-15	TPH as Motor Oil	Soil	SW8015B(M)	59	mg/kg
			TPH as Diesel		SW8015B(M)	5.4	mg/kg
B33-7	7	11-9-15	TPH as Motor Oil	Soil	SW8015B(M)	17	mg/kg
			TPH as Diesel		SW8015B(M)	2.0	mg/kg
B33-12	12	11-9-15	TPH as Motor Oil	Soil	SW8015B(M)	10	mg/kg

Four soil samples collected from boring B34 in the hydraulic lift area were analyzed for:

- Polynuclear Aromatic Hydrocarbons (PAH) and Naphthalene by EPA Method 8270C
- Volatile Organic Compounds (Full List) by EPA Method SW8260B including Perchloroethene (PCE), Trichloroethene (TCE), 1,1-Dichloroethene (1,1-DCE), cis-1,2-Dichloroethene (cis-1,2-DCE), trans-1,2-Dichloroethene (trans-1,2-DCE) and Vinyl Chloride

**Summary of Results for Soil Samples from Boring B34**

<i>Sample</i>	<i>Depth ft</i>	<i>Date</i>	<i>Parameter</i>	<i>Medium</i>	<i>Analysis</i>	<i>Result</i>	<i>Unit</i>
B34-3	3	11-8-15	All compounds	Soil		ND	
B34-5	5	11-8-15	All compounds	Soil		ND	
B34-9.5	9.5	11-8-15	All compounds	Soil		ND	
B34-13.5	13.5	11-8-15	Ethylbenzene	Soil	SW8060B	8.9	mg/kg
			m,p-Xylene		SW8060B	31	mg/kg
			o-Xylene		SW8060B	12	mg/kg
			n-Propylbenzene		SW8060B	2.9	mg/kg
			1,3,5-Trimethylbenzene		SW8060B	5.1	mg/kg
			1,2,4-Trimethylbenzene		SW8060B	19	mg/kg
			n-Butylbenzene		SW8060B	1.1	mg/kg
			Naphthalene		SW8060B	3.9	mg/kg
			Naphthalene		SW8070C	0.89	mg/kg
			2-Methylnaphthalene		SW8070C	1.5	mg/kg
			1-Methylnaphthalene		SW8070C	0.71	mg/kg

Four soil samples collected from boring B35 in the east parking lane of College Avenue were analyzed for:

- Polynuclear Aromatic Hydrocarbons (PAH) and Naphthalene by EPA Method SW8270C
- Volatile Organic Compounds (short list) by EPA Method SW8260B including Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX) and Naphthalene

**Summary of Results for Soil Samples from Boring B35**

<i>Sample</i>	<i>Depth ft</i>	<i>Date</i>	<i>Parameter</i>	<i>Medium</i>	<i>Analysis</i>	<i>Result</i>	<i>Unit</i>
B35-3	3	11-9-15	All compounds	Soil		ND	
B35-5	5	11-9-15	All compounds	Soil		ND	
B35-9	9	11-9-15	Ethylbenzene	Soil	SW8060B	5.2	mg/kg
			m,p-Xylene		SW8060B	19	mg/kg
			o-Xylene		SW8060B	5.8	mg/kg
			Naphthalene		SW8060B	3.8	mg/kg
B35-12	12	11-9-15	Ethylbenzene	Soil	SW8060B	1.5	mg/kg
			m,p-Xylene		SW8060B	5.3	mg/kg
			o-Xylene		SW8060B	1.2	mg/kg
			Naphthalene		SW8060B	1.1	mg/kg
			Naphthalene		SW8070C	0.49	mg/kg
			2-Methylnaphthalene		SW8070C	0.59	mg/kg

The results of the laboratory analysis of soil samples is compared to environmental screening levels (ESL) published by the Regional Water Quality Control Board (RWQCB) as shown in the following table. Values on this table are shown in mg/kg and represent shallow soil ESL values for groundwater that is not a potential source of drinking water.

### Comparison of Laboratory Analysis Results for Soil Samples to RWQCB ESL

<i>Chemical Constituent results in mg/kg</i>	<i>RWQCB ESL coml / resid shallow soils</i>	<i>RWQCB ESL coml / resid deep soils</i>	<i>Maximum results of laboratory analysis shallow / deep soil</i>	<i>Results Exceeding ESL</i>
TPH as Motor Oil	2500 / 500	5000 / 5000	59 / 10 mg/kg	None exceed
TPH as Gasoline	420 / 100	420 / 420	none / 100 mg/kg	None exceed
TPH as Diesel	500 / 100	530 / 530	6.1 / 24 mg/kg	None exceed
Naphthalene	4.8 / 1.7	4.8 / 1.7	3.8 / 3.9 mg/kg	None exceed commercial ESL, samples B34-13.5 and B35-9 exceed residential ESL
Ethyl Benzene	4.7 / 2.9	4.7 / 2.9	5.2 / 8.9 mg/kg	Sample B35 at 9 feet exceeds shallow ESL / Sample B34 at 13.5 feet exceeds deep ESL
Xylenes	11 / 11	11 / 11	24.8 / 43 mg/kg	Sample B35 at 9 feet exceeds shallow ESL / Sample B34 at 13.5 feet exceeds deep ESL
n-Propylbenzene	Not listed	Not listed	none / 2.9 mg/kg	
n-Butylbenzene	Not listed	Not listed	none / 1.1 mg/kg	
2-Methylnaphthalene	Not listed	Not listed	none / 1.5 mg/kg	
1-Methylnaphthalene	Not listed	Not listed	none / 0.71 mg/kg	
1,3,5-Trimethylbenzene	Not listed	Not listed	none / 5.1 mg/kg	
1,2,4-Trimethylbenzene	Not listed	Not listed	none / 19 mg/kg	

The laboratory reported no analysis results that exceed ESL values for petroleum hydrocarbons as gasoline, motor oil and diesel in both shallow soil (<10 feet) and deep soil. One soil sample B35-9 exceeds the naphthalene residential ESL value for shallow soil (<10 feet). One soil sample B34-13.5 recovered at 13.5 feet below grade has a naphthalene value of 3.9 mg/kg exceeding the residential ESL value for naphthalene in deep soil. One soil sample B34-13.5 at 13.5 feet below grade exceeds the ESL deep soil value for both ethyl benzene and total xylenes. This soil sample is located in the saturated zone near to the existing hydraulic hoist location. One soil sample B35-9 at 9 feet below grade exceeds the ESL shallow soil value for both ethyl benzene and total xylenes.



### Comparison of Laboratory Analysis Results for Soil Samples to LTCP Table 1

<i>Chemical Constituent</i>	<i>Table 1 residential 0-5 feet mg/kg</i>	<i>Table 1 residential 5-10 feet mg/kg</i>	<i>Table 1 commercial 0-5 feet mg/kg</i>	<i>Table 1 commercial 5-10 feet mg/kg</i>	<i>Table 1 Utility Worker mg/kg</i>	<i>Results Exceeding LTCP Table 1</i>
Number new soil analyses	15	14	15	14	23	
<i>Benzene Criteria</i>	<i>1.9</i>	<i>2.8</i>	<i>8.2</i>	<i>12</i>	<i>14</i>	
Maximum analysis result in mg/kg	ND	ND	ND	ND	ND	none
<i>Ethylbenzene criteria</i>	<i>21</i>	<i>32</i>	<i>89</i>	<i>134</i>	<i>314</i>	
Maximum analysis result in mg/kg	ND	5.2	ND	5.2	5.2	none
<i>Naphthalene criteria</i>	<i>9.7</i>	<i>9.7</i>	<i>45</i>	<i>45</i>	<i>219</i>	
Maximum analysis result in mg/kg	ND	3.8	ND	3.8	3.8	none
<i>PAH criteria</i>	<i>0.063</i>	<i>NA</i>	<i>0.68</i>	<i>NA</i>	<i>4.5</i>	
Maximum analysis result in mg/kg	ND	ND	ND	ND	ND	none

The laboratory reported no analysis results that exceed LTCP Table 1 values for direct contact, volatilization and utility worker safety.

### Laboratory Analysis of Grab Groundwater Samples

GGTR submitted five (5) grab groundwater samples collected from borings B28, B29, B30, B32 and B34 under formal chain of custody command to Torrent Laboratory, Inc., a State-certified analytical laboratory (CA ELAP #1991) in Milpitas, California, for laboratory analysis. Boreholes B31 and B33 were dry and no grab groundwater sample could be recovered.

Grab groundwater samples collected from borings B28 and B29 in the rear courtyard area, and in B30 in the interior east corner of the building were analyzed for:

- Volatile Organic Compounds (Full List) by EAP Method SW8260B to include Perchloroethene (PCE), Trichloroethene (TCE), 1,1-Dichloroethene (1,1-DCE), cis-1,2-Dichloroethene (cis-1,2-DCE), trans-1,2-Dichloroethene (trans-1,2-DCE) and Vinyl Chloride

The following table presents a summary of results for laboratory analysis of grab groundwater samples from borings B28 and B29.

### Summary of Results for Grab Groundwater Samples from Borings B28, B29 and B30

<i>Sample</i>	<i>Depth ft</i>	<i>Date</i>	<i>Parameter</i>	<i>Medium</i>	<i>Analysis</i>	<i>Result</i>	<i>Unit</i>
B28-GW	18.1	11-13-15	Ethyl Benzene	Water	SW8060B	1200	µg/L
			m,p-Xylene		SW8060B	3400	µg/L
			o-Xylene		SW8060B	970	µg/L
			cis-1,2-Dichloroethene		SW8060B	9.3	µg/L
			Benzene		SW8060B	500	µg/L
			Toluene		SW8060B	410	µg/L
			Isopropyl Benzene		SW8060B	47	µg/L
			n-Propylbenzene		SW8060B	140	µg/L
			1,3,5-Trimethylbenzene		SW8060B	230	µg/L
			1,2,4-Trimethylbenzene		SW8060B	800	µg/L
			sec-Butyl Benzene		SW8060B	9.3	µg/L
			p-Isopropyltoluene		SW8060B	19	µg/L
			n-Butylbenzene		SW8060B	40	µg/L
			Naphthalene		SW8060B	91	µg/L
B29-GW	18.95	11-13-15	Ethyl Benzene	Water	SW8060B	1.6	µg/L
			m,p-Xylene		SW8060B	2.2	µg/L
			o-Xylene		SW8060B	2.4	µg/L
			cis-1,2-Dichloroethene		SW8060B	0.84	µg/L
			1,2,4-Trimethylbenzene		SW8060B	1.1	µg/L
			MTBE		SW8060B	1.1	µg/L
			Tetrachloroethylene		SW8060B	44	µg/L
			B30-GW		18.1	11-13-15	cis-1,2-Dichloroethene
Chloroform	SW8060B	2.3		µg/L			
Benzene	SW8060B	110		µg/L			
Ethyl Benzene	SW8060B	360		µg/L			
m,p-Xylene	SW8060B	510		µg/L			
o-Xylene	SW8060B	8.2		µg/L			
Isopropyl Benzene	SW8060B	24		µg/L			
n-Propylbenzene	SW8060B	80		µg/L			
1,3,5-Trimethylbenzene	SW8060B	100		µg/L			
1,2,3-Trimethylbenzene	SW8060B	5.5		µg/L			
1,2,4-Trimethylbenzene	SW8060B	370		µg/L			
sec-Butyl Benzene	SW8060B	7.5		µg/L			
p-Isopropyltoluene	SW8060B	11		µg/L			
n-Butylbenzene	SW8060B	26		µg/L			
Naphthalene	SW8060B	21		µg/L			

Grab groundwater sample collected from boring B32 in the east sidewalk of College Avenue was analyzed for:

- Total Petroleum Hydrocarbons (TPH) as Gasoline by EPA Method SW8260B
- TPH as Diesel, TPH as Motor Oil by EPA Method SW8015B(M)
- Volatile Organic Compounds (Full List) by EPA Method SW8260B to include Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX), and Naphthalene
- Poly-Aromatic Hydrocarbons (PAH) by EPA Method SW8270C

#### Summary of Results for Grab Groundwater Samples from Boring B32

Sample	Depth ft	Date	Parameter	Medium	Analysis	Result	Unit
B32-GW	12.5	11-13-15	1,1-Dichloropropene	Water	SW8060B	0.47	µg/L
			Ethyl Benzene		SW8060B	0.25	µg/L
			m,p-Xylene		SW8060B	0.66	µg/L
			o-Xylene		SW8060B	0.41	µg/L
			1,3,5-Trimethylbenzene		SW8060B	0.31	µg/L
			1,2,4-Trimethylbenzene		SW8060B	0.33	µg/L
			TPH as Gasoline		8260TPH	70	µg/L

Grab groundwater sample collected from boring B34 in the hydraulic lift area was analyzed for:

- TPH as Hydraulic Oil by EPA Method SW8015B(M)
- Volatile Organic Compounds (Full List) by EPA Method SW8260B, to include Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX), and Naphthalene
- Poly-Aromatic Hydrocarbons (PAH) by EPA Method SW8270C

#### Summary of Results for Grab Groundwater Samples from Boring B34

Sample	Depth ft	Date	Parameter	Medium	Analysis	Result	Unit
B34-GW	18.7	11-13-15	Ethyl Benzene	Water	SW8060B	960	µg/L
			m,p-Xylene		SW8060B	2400	µg/L
			o-Xylene		SW8060B	860	µg/L
			MTBE		SW8060B	11	µg/L
			Chloroform		SW8060B	10	µg/L
			Benzene		SW8060B	830	µg/L
			Toluene		SW8060B	170	µg/L
			Isopropyl Benzene		SW8060B	41	µg/L
			n-Propylbenzene		SW8060B	120	µg/L
			1,3,5-Trimethylbenzene		SW8060B	190	µg/L
			1,2,4-Trimethylbenzene		SW8060B	650	µg/L
			sec-Butyl Benzene		SW8060B	6.5	µg/L
			p-Isopropyltoluene		SW8060B	14	µg/L
			n-Butylbenzene		SW8060B	27	µg/L
			Naphthalene		SW8060B	88	µg/L
Naphthalene	SW8270C	13	µg/L				

The results of the laboratory analysis of grab groundwater samples are compared to environmental screening levels (ESL) published by the Regional Water Quality Control Board (RWQCB) as shown in the following table. Values on this table are shown in  $\mu\text{g/L}$  and represent ESL values for groundwater that is not a potential source of drinking water.

### Comparison of Laboratory Analysis Results for Grab Groundwater Samples to RWQCB ESL

<i>Chemical Constituent</i>	<i>RWQCB ESL not potential source</i>	<i>Maximum results of laboratory analysis</i>	<i>Results Exceeding ESL analysis</i>
TPH as Gasoline	500 $\mu\text{g/L}$ aquatic habitat	70 $\mu\text{g/L}$	None exceed
Naphthalene	24 $\mu\text{g/L}$ aquatic habitat	Boring B28 at 91 $\mu\text{g/L}$ , B34 at 88 $\mu\text{g/L}$	2 samples exceed
Benzene	27 $\mu\text{g/L}$ vapor intrusion 46 $\mu\text{g/L}$ aquatic habitat	Boring B28 at 500 $\mu\text{g/L}$ , B30 at 110 $\mu\text{g/L}$ , B34 at 830 $\mu\text{g/L}$	3 samples exceed
Toluene	130 $\mu\text{g/L}$ aquatic habitat	Boring B28 at 410 $\mu\text{g/L}$ , B34 at 170 $\mu\text{g/L}$	2 samples exceed
Ethylbenzene	43 $\mu\text{g/L}$ aquatic habitat	Boring B28 at 1200 $\mu\text{g/L}$ , B30 at 360 $\mu\text{g/L}$ , B34 at 960 $\mu\text{g/L}$	3 samples exceed
Total Xylenes	100 $\mu\text{g/L}$ aquatic habitat	Boring B28 at 4370 $\mu\text{g/L}$ , B30 at 518 $\mu\text{g/L}$ , B34 at 3260 $\mu\text{g/L}$	3 samples exceed
MTBE	1800 $\mu\text{g/L}$ ceiling value	Boring B34 at 11 $\mu\text{g/L}$	None exceed
Chloroform	170 $\mu\text{g/L}$ vapor intrusion	Boring B34 at 10 $\mu\text{g/L}$	None exceed
N-Propylbenzene	Not listed	Boring B28 at 140 $\mu\text{g/L}$	
n-Butylbenzene	not listed	Boring B28 at 40 $\mu\text{g/L}$	
1,3,5-Trimethylbenzene	Not listed	Boring B28 at 230 $\mu\text{g/L}$	
1,2,4-Trimethylbenzene	Not listed	Boring B28 at 800 $\mu\text{g/L}$	
Isopropyl Benzene	Not listed	Boring B28 at 47 $\mu\text{g/L}$	

The laboratory reported no analysis results that exceed ESL values for petroleum hydrocarbons as gasoline, motor oil and diesel in grab groundwater samples. Grab groundwater samples from two borings B28 and B34 have benzene, toluene, ethylbenzene, total xylenes and naphthalene concentrations that exceed their respective ESL values. The grab groundwater sample from boring B30 has benzene, ethylbenzene and total xylenes concentrations that exceed the respective ESL values.

## Laboratory Analysis of Soil Gas Samples

While updating tables in the report and attached Table 4 containing the results of soil gas analysis, GGTR noted incorrect results for sample SG-3-3 entered into the February 2014 *Additional Soil & Water Investigation Report* (Page 24). PQLs (in lieu of results) had been entered into the table for m,p-xylenes, 4-ET & TMB. The corrected data has been entered into Soil Gas Table (Table 4A) attached to this report.

GGTR submitted fourteen (14) gas samples under chain of custody command to Torrent Laboratory (Torrent) of Milpitas California (ELAP #1991) for chemical analysis. The gas samples were analyzed using the following California Department of Health Services approved methods:

Investigation soil gas samples recovered from soil gas wells B28V, B29V, and B31V analyzed for:

- Total Petroleum Hydrocarbons (TPH) as Gasoline by Modified EPA Method TO-3 M
- Volatile Organic Compounds (VOCs; Full List) by EPA Method TO-15
- Naphthalene by EPA Method TO-17 (Thermal Desorption) for field point B31V only

### Summary of Results for Soil Gas Samples from Soil Gas Probes B28V, B29V and B31V

Sample	Depth ft	Date	Parameter	Medium	Analysis	Result	Unit
B28V	5	11-19-15	Tetrachloroethene	Air	ETO15	81	µg/m <sup>3</sup>
			TPH as Gasoline		ETO15	320	µg/m <sup>3</sup>
B29V	5	11-19-15	Tetrachloroethene	Air	ETO15	4120	µg/m <sup>3</sup>
			TPH as Gasoline		ETO15	910	µg/m <sup>3</sup>
B31V	6.5	11-19-15	All compounds	Air	ETO15	None	Detected
		11-20-15	Naphthalene				

Soil gas samples recovered from existing soil gas wells SG-1, SG-2 and SG-3 and new sub-slab vapor probe SSV-1 were analyzed for:

- Total Petroleum Hydrocarbons (TPH) as Gasoline by Modified EPA Method TO-3 M
- Volatile Organic Compounds (VOCs; Full List) by EPA Method TO-15
- Naphthalene by EPA Method TO-17 (Thermal Desorption)
- Fixed Gases by ASTM Method D-1946 - Nitrogen, Hydrogen, Helium, Oxygen, Carbon Monoxide, Carbon Dioxide, Methane, Ethane, Ethene

### Summary of Results for Soil Gas Probes SG-1, SG-2 & SG-3 and Sub-Slab Probe SSV-1

Sample	Depth	Date	Parameter	Medium	Analysis	Result	Unit
SG-1 /Dup	4	11-19-15	2-Propanol (IPA)	Air	ETO15	68 / 74	µg/m <sup>3</sup>
			11-20-15		Acetone	ETO15	33 / 36
			Toluene		ETO15	6 / 7	µg/m <sup>3</sup>
			Ethylbenzene		ETO15	3 / 4	µg/m <sup>3</sup>
			m,p-Xylene		ETO15	28 / 29	µg/m <sup>3</sup>
			o-Xylene		ETO15	14 / 16	µg/m <sup>3</sup>
			4-Ethyl Toluene		ETO15	11 / 12	µg/m <sup>3</sup>

			1,2,4-Trimethylbenzene		ETO15	12 / 13	$\mu\text{g}/\text{m}^3$
			TPH as Gasoline		ETO15	560 / 650	$\mu\text{g}/\text{m}^3$
			Oxygen		D1946	18.4	%
			Nitrogen		D1946	79	%
			Carbon Dioxide		D1946	0.7	%
			Methane		D1946	0.2	%
SG-2	5	11-20-15	2-Propanol (IPA)	Air	ETO15	28	$\mu\text{g}/\text{m}^3$
			Acetone		ETO15	107	$\mu\text{g}/\text{m}^3$
			Hexane		ETO15	1	$\mu\text{g}/\text{m}^3$
			m,p-Xylene		ETO15	17	$\mu\text{g}/\text{m}^3$
			o-Xylene		ETO15	9	$\mu\text{g}/\text{m}^3$
			4-Ethyl Toluene		ETO15	5	$\mu\text{g}/\text{m}^3$
			1,2,4-Trimethylbenzene		ETO15	5	$\mu\text{g}/\text{m}^3$
			TPH as Gasoline		ETO15	430	$\mu\text{g}/\text{m}^3$
			Oxygen		D1946	13.5	%
			Nitrogen		D1946	62	%
			Carbon Dioxide		D1946	1.0	%
SG-3	5	11-19-15	Chloromethane	Air	ETO15	0.8	$\mu\text{g}/\text{m}^3$
		11-20-15	2-Propanol (IPA)		ETO15	22	$\mu\text{g}/\text{m}^3$
			Acetone		ETO15	80	$\mu\text{g}/\text{m}^3$
			tert-Butanol		ETO15	8	$\mu\text{g}/\text{m}^3$
			Toluene		ETO15	10	$\mu\text{g}/\text{m}^3$
			Tetrachloroethene		ETO15	385	$\mu\text{g}/\text{m}^3$
			Ethylbenzene		ETO15	7	$\mu\text{g}/\text{m}^3$
			m,p-Xylene		ETO15	59	$\mu\text{g}/\text{m}^3$
			o-Xylene		ETO15	30	$\mu\text{g}/\text{m}^3$
			4-Ethyl Toluene		ETO15	23	$\mu\text{g}/\text{m}^3$
			1,3,5-Trimethylbenzene		ETO15	2	$\mu\text{g}/\text{m}^3$
			1,2,4-Trimethylbenzene		ETO15	26	$\mu\text{g}/\text{m}^3$
			TPH as Gasoline		ETO15	1400	$\mu\text{g}/\text{m}^3$
			Oxygen		D1946	20.3	%
			Nitrogen		D1946	78	%
			Carbon Dioxide		D1946	5.9	%
SSV-1	Sub-Slab	11-19-15	Acetone	Air	ETO15	80	$\mu\text{g}/\text{m}^3$
		11-20-15	Oxygen		D1946	20.9	%
			Nitrogen		D1946	77	%
			Carbon Dioxide		D1946	0.3	%

Approximately 10% duplicate soil gas samples were submitted for chemical analysis under chain of custody command to Torrent Laboratory. The leak check canister sample (SG-2LC) was analyzed only for 2-Propanol (Isopropyl Alcohol – IPA) by EPA Method TO-15.

The results of the laboratory analysis of soil gas samples is compared to environmental screening levels (ESLs) published by the Regional Water Quality Control Board (RWQCB) as shown in the following table. Values on this table are shown in  $\mu\text{g}/\text{m}^3$ .

### Comparison of Laboratory Analysis Results of Soil Gas Samples to RWQCB ESL

<i>Chemical Constituent</i>	<i>RWQCB ESL - Soil Gas residential / commercial</i>	<i>Maximum results of laboratory analysis</i>	<i>Results Exceeding ESL</i>
TPH as Gasoline	300,000 / 2,500,000 µg/m <sup>3</sup>	Probe SG-3 at 1400 µg/m <sup>3</sup>	None exceed
Tetrachloroethene	210 / 2100 µg/m <sup>3</sup>	Boring B29V at 4120 µg/m <sup>3</sup> Probe SG-3 at 385 µg/m <sup>3</sup>	Two samples exceed
Acetone	16,000,000 / 140,000,000 µg/m <sup>3</sup>	Probe SG-2 at 107 µg/m <sup>3</sup>	None exceed
Toluene	160,000 / 1,300,000 µg/m <sup>3</sup>	Probe SG-3 at 10 µg/m <sup>3</sup>	None exceed
Ethylbenzene	490 / 4,900 µg/m <sup>3</sup>	Probe SG-3 at 8 µg/m <sup>3</sup>	None exceed
Total Xylenes	52,000 / 440,000 µg/m <sup>3</sup>	Probe SG-3 at 89 µg/m <sup>3</sup>	None exceed
4-Ethyl Toluene	Not listed	Probe SG-3 at 23 µg/m <sup>3</sup>	
Hexane	Not listed	Probe SG-1 at 1 µg/m <sup>3</sup>	
tert-Butanol	Not listed	Probe SG-3 at 8 µg/m <sup>3</sup>	
1,3,5-Trimethylbenzene	Not listed	Probe SG-3 at 2 µg/m <sup>3</sup>	
1,2,4-Trimethylbenzene	Not listed	Probe SG-3 at 26 µg/m <sup>3</sup>	
Chloromethane	Not listed	Probe SG-3 at 0.8 µg/m <sup>3</sup>	
2-Propanol (IPA)	Not listed	Probe SG-3 at 22 µg/m <sup>3</sup>	

The laboratory reported no analysis results for soil gas samples that exceed the ESL value for petroleum hydrocarbons as gasoline. Soil gas samples from boring B29V and Probe SG-3 have tetrachloroethene concentrations that exceed the residential ESL value. Both of these sampling locations are located along the northern boundary of the site representing an offsite source of PCE contamination of groundwater.

### Comparison of Laboratory Analysis Results of Soil Gas Samples to LTCP Scenario 4

#### Direct Measurement of Soil Gas Concentrations

#### Soil Gas Criteria (concentration in µg/m<sup>3</sup>) with No Bioattenuation Zone

<i>Constituent</i>	<i>Residential</i>	<i>Commercial</i>	<i>Maximum Result</i>	<i>Exceeding</i>
Benzene	< 85	< 280	Not Detected	None
Ethylbenzene	< 1,100	< 3,600	Probe SG-3 at 7 µg/m <sup>3</sup>	None
Naphthalene	< 93	< 310	Not Detected	None

#### Soil Gas Criteria (concentration in µg/m<sup>3</sup>) with 5 Foot Bioattenuation Zone

<i>Constituent</i>	<i>Residential</i>	<i>Commercial</i>	<i>Maximum Result</i>	<i>Exceeding</i>
Benzene	< 85,000	< 280,000	Not Detected	None
Ethylbenzene	< 1,100,000	< 3,600,000	Probe SG-3 at 7 µg/m <sup>3</sup>	None
Naphthalene	< 93,000	< 310,000	Not Detected	None

As shown above, no soil gas samples exceed the Soil Gas Criteria with No Bioattenuation Zone of LTCP Scenario 4.

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## FOCUSED CONCEPTUAL SITE MODEL

GGTR presents the updated Focused Conceptual Site Model (FCSM) in Appendix A. As requested by the ACEH, the FCSM is presented in tabular format. GGTR organized the FCSM by Low Threat Closure Policy (LTCP) criteria in order to facilitate the evaluation of remaining data gaps identified in the following sources: 1) the April 11, 2014 review letter issued by Alameda County Environmental Health (ACEH), 2) the LTCP Checklist as of 6/20/2014, 3) Path to Closure Plan as of 6/20/2014, and 4) the April 9, 2015 letter issued by ACEH requesting additional laboratory analysis in the proposed investigation work plan. GGTR representatives also met with the ACEH staff in technical review meetings on June 13 and October 30, 2014. Based on the outstanding data gaps summarized in the FCSM, GGTR proposed and performed the additional investigation scope of work described in this report during November 2015. GGTR updated the FCSM with the new investigation data as presented in this report. The FCSM presents evidence supporting the following conclusions:

1) **Length of Hydrocarbon-affected Groundwater Plume** – One goal of the recent investigation was to verify the length of the groundwater plume originating from the former gasoline underground storage tank (UST). Clay-silt lithology occurs at this site and a previous down-gradient boring HB-5 across College Avenue was dry. At the suggestion of ACEH, GGTR reviewed available documents on the GeoTracker website for the down-gradient fuel leak case at the former Dreyer Ice Cream facility located across College Avenue to the west. In June 1999, CET Environmental Services, Inc. recovered grab groundwater sample CB-1 in the parking lot east (up-gradient) of their former UST tank pit (see Figure 2, Site Vicinity Map). The results of laboratory analysis of sample CB-1 revealed no detectable TPH as gasoline, MTBE or BTEX. TPH as diesel (did not match diesel standard) was reported at 550 µg/L in water sample CB-1. Boring CB-1 was located 185 feet down-gradient of the subject UST location (as determined with Google Maps measurement tool) and presents a maximum constraint on the subject's plume length.

During November 2015, GGTR drilled three exploratory borings down-gradient and cross-gradient within College Avenue parking lanes and sidewalks. Borings B31 and B33 did not encounter water to a depth of 20 feet bsg in clay-silt lithology and the boreholes remained dry after several hours. The boring logs and laboratory analysis of soil samples recovered from borings B31 and B33 do not indicate petroleum contamination of soil to depths of 20 feet. A grab groundwater sample was collected from boring B32 at approximately 12.5 feet bsg and no significant contamination was revealed by laboratory analysis of soil and water. GGTR believes that the groundwater plume does not significantly extend beyond College Avenue and is less than 100 feet in total length.

2) **Source of PCE Contamination** - The FCSM summarizes historic soil sampling data for PCE indicating the former waste oil tank does not have residual PCE concentrations in soil above current ESL values. Monitor wells MW-1, MW-2 and MW-3 have not detected PCE in groundwater and the former waste oil tank does not appear to be a source of groundwater contamination. Soil sampling surrounding and beneath the former oil-water separator and parts cleaner do not indicate significant soil contamination by PCE. The grab groundwater sample from up-gradient boring B29, located at the northern boundary of the Site, detected PCE in groundwater at a concentration (44 µg/L) similar to the PCE concentration measured in monitor well PW-1 at 39 µg/L (both sampled in November 2015). Grab groundwater samples from down-gradient borings B28 and B30 did not detect PCE contamination of groundwater. PCE was detected in soil gas samples during November 2015 at probes SG-3, B28V and B29V. Only PCE concentrations in



probes SG-3 and B29V located along the northern boundary of the Site exceeded ESL values. GGTR believes that PCE contamination of groundwater is not associated with the fuel release that is the subject of this investigation nor the waste oil tank, clarifier or parts cleaner locations. The source of PCE contamination of groundwater appears to be offsite to the north.

3) **Direct Contact and Outdoor Air Volatilization** - In November 2015, GGTR drilled eight (8) new exploratory borings B28 through B35 and recovered soil samples at 3, 5 and 9 feet for comparison to the LTCP Table 1 values for direct contact, volatilization, and utility worker safety. A total of 23 new samples were analyzed for benzene, ethylbenzene, naphthalene and PAH. GGTR drilled boring B35 as shown on Figure 3, Site Plan, in close proximity to former boring B2 to perform repeat soil sampling. The Laboratory reported no detectable contaminants in soil samples from 3 and 5 feet in new boring B35. The soil sample from 9 feet contained no detectable benzene, toluene or MTBE, ethylbenzene at 5.2 mg/kg, xylenes at 24.8 mg/kg and naphthalene at 1.1 mg/kg. These concentrations are below the values on Table 1 of the LTCP for both 0 to 5 and 5 to 10 foot criteria. Degradation of petroleum is demonstrated by repeat soil sampling at boring B2 with repeat samples from new boring B35 being significantly lower in petroleum concentrations. The new data indicates significant degradation of petroleum hydrocarbons in a 10-foot thick bioattenuation zone and that the Site meets direct contact, volatilization and worker criteria on Table 1 of LTCP.

4) **Data Gaps in Subsurface Sampling Information** - Soil sampling from new boring B34 located directly down-gradient of the hydraulic hoist location did not detect soil contamination by oil. Existing soil sampling data indicates no significant soil contamination associated with the hydraulic hoist. The saturated zone soil sample and grab groundwater sample from boring B34 indicate gasoline constituents exceeding ESL values. However, TPH as motor oil was not detected. New boring B30 at the sink-parts cleaner location did not detect PCE contamination of soil or water. Down-gradient of the oil-water separator (OWS), GGTR sampled soil and water in two new borings B28 and B30 without detecting PCE in soil samples.

5) **Vapor Intrusion** - Additional investigation to assess the potential for vapor intrusion at the Site and adjoining properties reveals petroleum hydrocarbon vapor concentrations below ESL values. The sub-slab vapor sample from new probe SSV-1 revealed no significant petroleum hydrocarbon or PCE contamination beneath the subject office. Oxygen percentage measured in new sub-slab probe SSV-1 and three existing soil gas probes was above 4% at 21%, 18%, 13% and 20%. Sub-slab vapor sampling at the adjoining College Square retail center in 2014 by Conestoga-Rovers found oxygen at 20% and 21%. The data indicates that a 5-foot bioattenuation zone with elevated oxygen is present beneath the Site and adjoining properties. A ten-foot bioattenuation zone with petroleum hydrocarbons less than 100 ppm is also present. Vapor intrusion is not a potential risk to occupants of the onsite building or adjoining residential property to the south.

During November 2015, elevated concentrations of PCE vapor above the residential ESL was detected in soil gas probes SG-3 and B29V located along the northern boundary of the Site. No soil contamination by PCE was detected in vadose zone soil samples at SG-3 or B29V and the source of PCE vapor appears to be contaminated groundwater from an offsite source to the north. Conestoga-Rovers did not analyze sub-slab vapor samples for PCE at the adjoining College Square building in 2014. GGTR believes that PCE contamination of groundwater is not associated with the subject's UST fuel release or subject property. The PCE concentration of 385  $\mu\text{g}/\text{m}^3$  in probe SG-3 located adjacent to Barclays Restaurant & Pub is below the commercial ESL value of 2100  $\mu\text{g}/\text{m}^3$ . The PCE concentration of 4120  $\mu\text{g}/\text{m}^3$  in probe B29V is above the commercial ESL value, but this probe is located adjacent to the unoccupied College Square parking garage.

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## WASTE MANAGEMENT

GGTR transferred all hydrocarbon-impacted soil generated during the additional soil boring installation activities directly to a 55-gallon drum and temporarily stored the drum onsite in a secure area. Following receipt of the composite stockpile soil sample analysis, GGTR profiled the solid waste for offsite disposal at a State-licensed landfill or recycling facility. On December 9, 2015, Big Sky Enterprises transported the Non Hazardous Waste Solid under Manifest Document No. 120915002 to the Big Sky Enterprises facility in Benicia, California. A copy of the solid waste manifest is included in Appendix D.

All well purge water and equipment wash and rinse water generated during the 4th Quarter 2015 monitoring and data gap investigation activities was transferred to separate 55-gallon D.O.T.-approved steel drums and stored onsite in a secure area. All waste water containers were sealed and appropriately labeled and securely stored onsite pending future disposal at a State-licensed disposal or recycling facility.

## GEOTRACKER ELECTRONIC SUBMITTAL

GGTR directed Torrent Laboratory to submit all analytical data in electronic deliverable format (EDF) via the Internet. GGTR uploaded the EDF reports as well as the Fluid-Level Monitoring Data (GEO\_WELL) for the 4th Quarter 2015 monitoring event to the State Water Resources Control Board's GeoTracker Database System (GeoTracker). In addition, following completion of the data gap investigation activities, all soil, grab groundwater, and soil gas sample EDF reports were uploaded to the GeoTracker Database System. Also, a site plan, geologic boring logs, and construction log of each newly-installed boring/vapor well, as well as a copy of this report of findings was uploaded in Portable Data Format (PDF) to the State GeoTracker Database. Appendix D includes a copy of each associated GeoTracker Upload Confirmation Form.

## REPORT DISTRIBUTION

Following the completion of field work, GGTR compiled all field and analytical data and prepared this technical report discussing the activities and findings of the investigation. The report was placed on the ACEH's FTP Website for regulatory review and comment.

All reports that are prepared during the continuing work on this project are submitted to:

Alameda County Health Care Services Agency

Environmental Health Services, Environmental Protection (LOP)

1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577

Attention: Mr. Mark Detterman

Ms. Dylan Roe (1 Electronic Copy via ACHCSA FTP)

(1 Electronic Copy via GeoTracker)

William G Sheaff Trust c/o Dr. Brian R. Sheaff, D.D.S.

1945 Parkside Drive, Concord, California 94519

(1 Electronic Copy via Email)

(1 Bound Copy)

## LIMITATIONS

It should be understood that all environmental assessments are inherently limited in that conclusions are drawn and recommendations developed from information obtained from limited research and visual observations. Subsurface conditions change significantly with distance and time and therefore may differ from the conditions implied by subsurface investigation. It must be noted that no investigation can absolutely rule out the existence of any hazardous or petroleum substances at a given property. Existing contaminants can escape detection using these methods. The work performed in conjunction with this assessment and the data developed are intended as a description of available information at the dates and location given. GGTR professional services have been performed, with findings obtained and recommendations prepared in accordance with customary principles and practices in the field of leaking fuel tank investigation, at the time of the assessment.

This warranty is in lieu of all other warranties either expressed or implied. GGTR is not responsible for the accuracy of information reported by others or the independent conclusions, opinions or recommendations made by others based on the field exploration presented in this report. The findings contained in this report are based upon information contained in previous reports of corrective action activities performed at the subject property and based upon site conditions as they existed at the time of the investigation, and are subject to change. The scope of services conducted in execution of this phase of investigation may not be appropriate to satisfy the needs of other users and any use or reuse of this document and any of its information presented herein is at the sole risk of said user. The figures, drawings and plates presented in this document are only for the purposes of environmental assessment and no other use is recommended. No other third party may rely on this report, figures or plates for any other purpose.

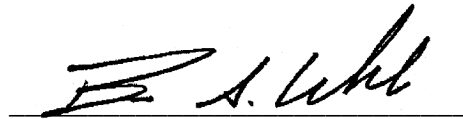
## CERTIFICATION

This document has been prepared in accordance with generally accepted environmental practices exercised by professional geologists, scientists, and engineers. No warranty, either expressed or implied, is made as to the professional advice presented herein. The findings conclusions, and recommendations contained in this document are based upon information contained in previous reports of corrective action activities performed at the subject property and based upon site conditions as they existed at the time of the investigation, and are subject to change in light of new information.

The conclusions presented in this document are professional opinions based solely upon visual observations of the subject property and vicinity, and interpretation of available information as described in this report. The scope of services conducted in execution of this investigation may not be appropriate to satisfy the needs of other users and any use or reuse of this document and any of its information presented herein is at sole risk of said user.

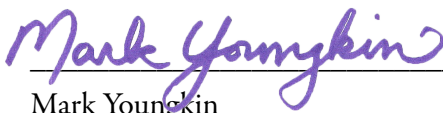
Golden Gate Tank Removal, Inc.

Authored By:



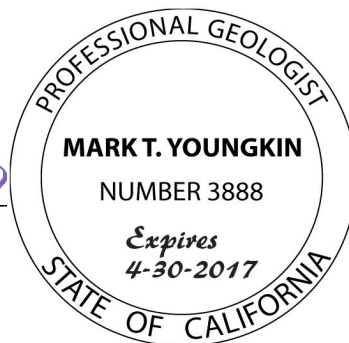
Brent A. Wheeler

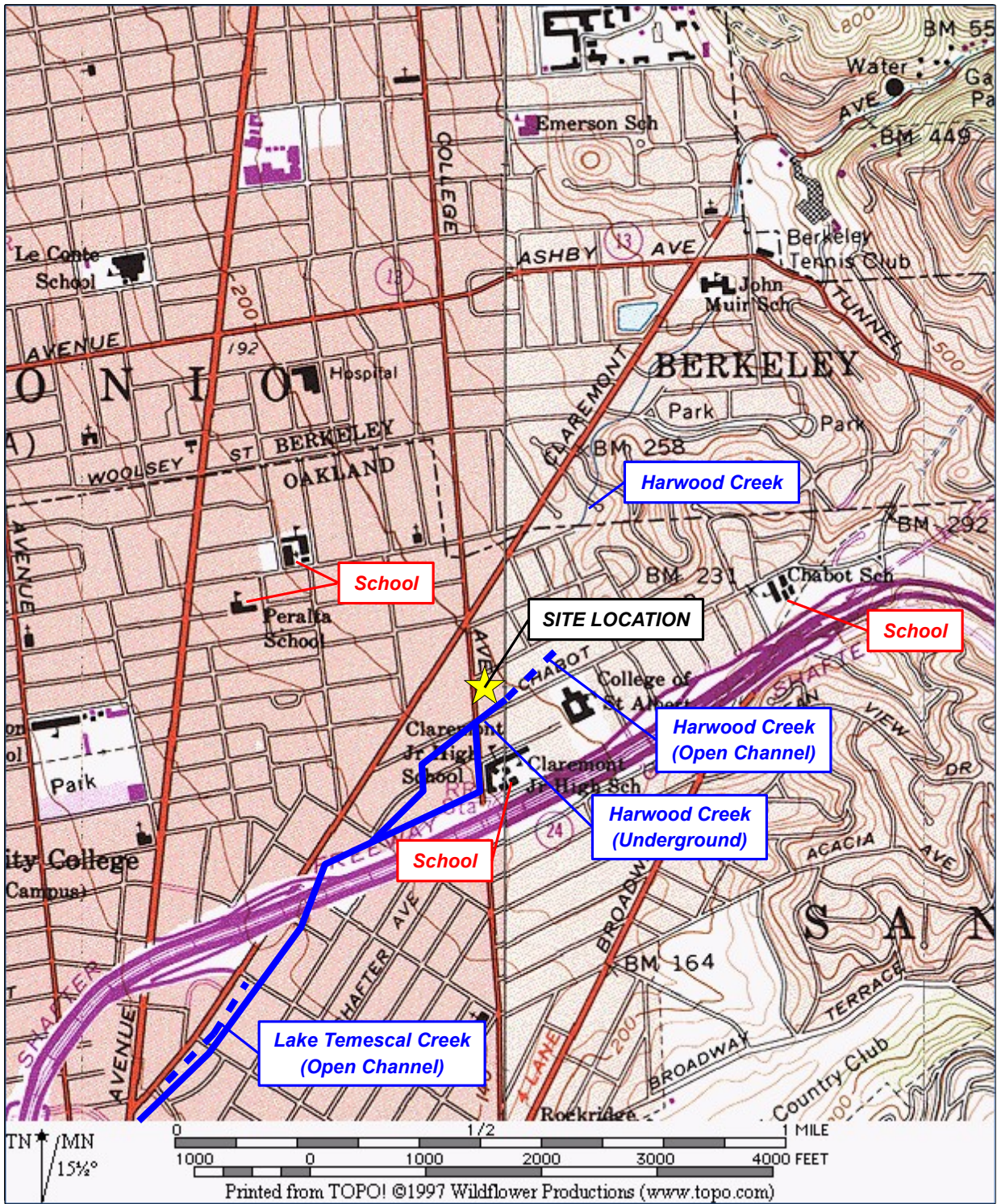
Managing Project Engineer



Mark Youngkin

Professional Geologist No.3888





**GOLDEN GATE TANK REMOVAL, INC.**  
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**SITE LOCATION MAP**  
 5930 College Avenue, Oakland, California

GGTR Project No. 9497

November 2015

**Figure 1**



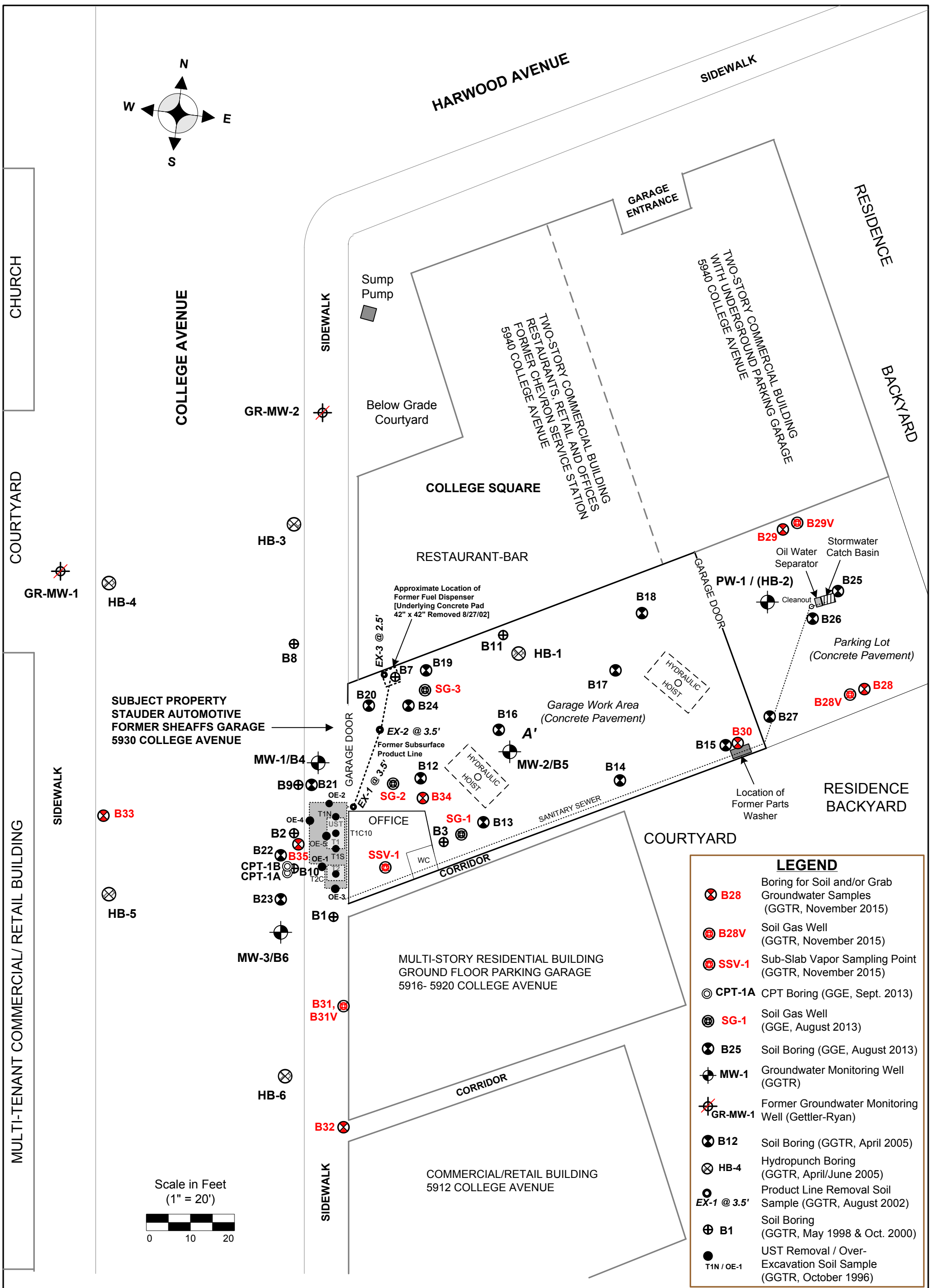
Base Map from Google Maps, 2008, at a scale of about 1"=100 feet with North to top of map.



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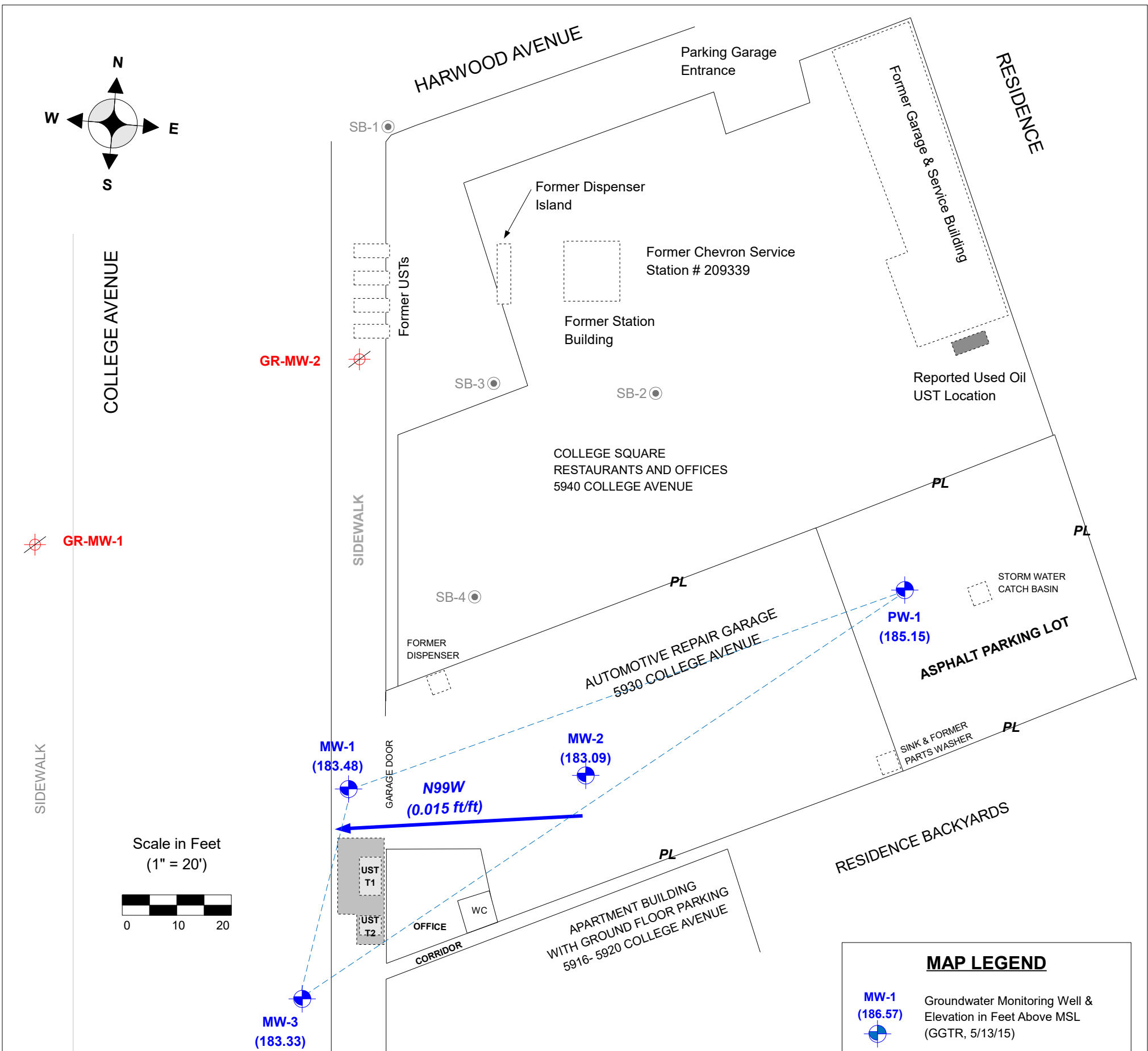
**SITE VICINITY MAP**  
 Sheaffs Garage  
 5930 College Avenue, Oakland, California



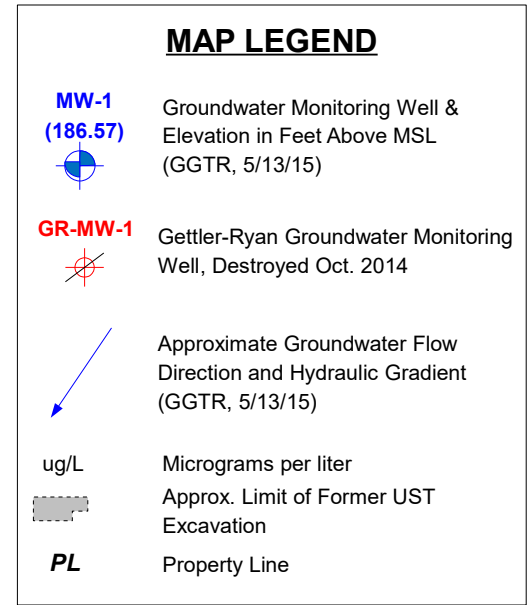
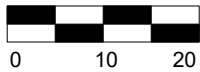
LEGEND	
	B28 Boring for Soil and/or Grab Groundwater Samples (GGTR, November 2015)
	B28V Soil Gas Well (GGTR, November 2015)
	SSV-1 Sub-Slab Vapor Sampling Point (GGTR, November 2015)
	CPT-1A CPT Boring (GGE, Sept. 2013)
	SG-1 Soil Gas Well (GGE, August 2013)
	B25 Soil Boring (GGE, August 2013)
	MW-1 Groundwater Monitoring Well (GGTR)
	GR-MW-1 Former Groundwater Monitoring Well (Gettler-Ryan)
	B12 Soil Boring (GGTR, April 2005)
	HB-4 Hydropunch Boring (GGTR, April/June 2005)
	EX-1 @ 3.5' Product Line Removal Soil Sample (GGTR, August 2002)
	B1 Soil Boring (GGTR, May 1998 & Oct. 2000)
	T1N / OE-1 UST Removal / Over-Excavation Soil Sample (GGTR, October 1996)

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**SITE PLAN**  
 Former Sheaff's Service Garage  
 5930 College Avenue, Oakland, CA 94618

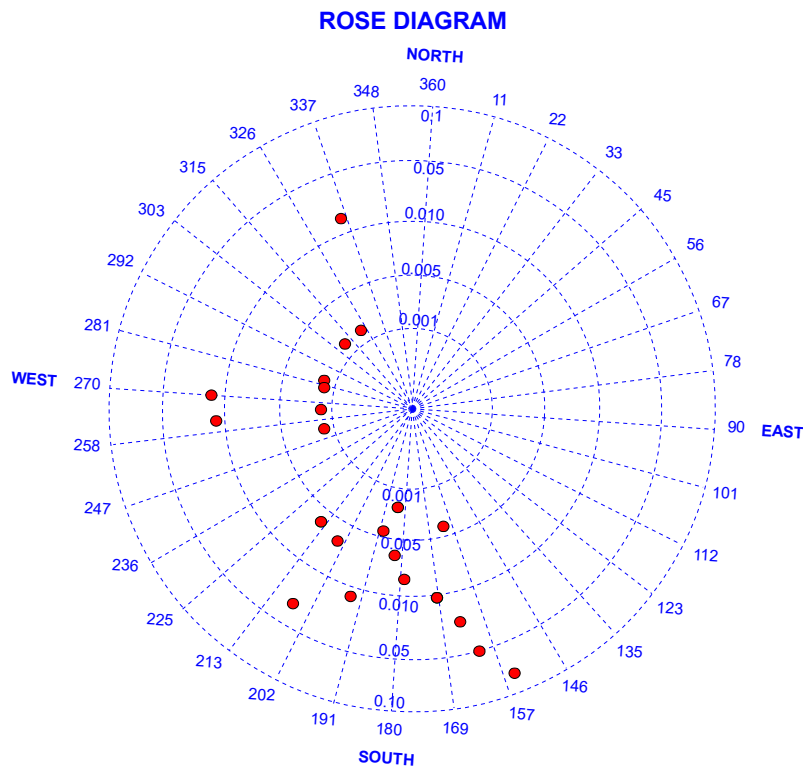


Scale in Feet  
(1" = 20')



**Wells MW-1, MW-3 & PW-1:**

Date	Groundwater Flow Direction @ Hydraulic Gradient (ft/ft)
4/14/05	161 @ 0.05
7/26/05	282 @ 0.002
10/14/05	309 @ 0.002
1/13/06	194 @ 0.016
04/14/06	208 @ 0.026
10/26/06	249 @ 0.002
01/30/07	325 @ 0.002
04/13/07	265 @ 0.002
07/24/07	281 @ 0.002
4/21/08	155 @ 0.072
7/22/08	270 @ 0.012
10/21/08	159 @ 0.004
1/19/09	184 @ 0.0017
10/27/09	179 @ 0.008
10/14/10	188 @ 0.004
6/9/11	184 @ 0.006
10/7/11	216 @ 0.006
10/16/2013	169 @ 0.012
4/14/2014	161 @ 0.025
10/20/2014	333 @ 0.014
5/13/2015	206 @ 0.007
11/11/2015	261 @ 0.015



Rose diagram showing historic flow direction & gradient. Circles show recent data from three wells MW-1, MW-3 & PW-1 since April 14, 2005. Note non-linear scale for gradient to accommodate large variation in data.



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**GROUNDWATER DATA DIAGRAM**

**November 11, 2015**  
Sheaffs Service Garage  
5930 College Avenue, Oakland, CA 94618



Photograph No. 1 – South view of subject building at 5930 College Avenue occupied by Stauder Automotive Service; former USTs located in sidewalk in vicinity of tree with former dispenser and associated dispenser piping trench area to left inside rollup door; Monitoring Well MW-1 located in sidewalk at driveway (GGE, Aug. 2013).



Photograph No. 2 - View northward of College Avenue and subject property to right behind tree. Adjacent property at 5920 College Ave. to south with first floor parking & retail, and multi-family above; USTs formerly located in sidewalk (in vicinity of tree), and Monitoring Well MW-3 located in street (GGE, Aug. 2013).

Photograph No. 3 – South interior view of Stauder Automotive, showing subcontractor (Vicker's Concrete) core drilling through concrete slab floor at location of boring B34, just north of shop office; Soil Gas Well SG-2 shown in foreground (GGTR, Nov. 2015).



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**PHOTOGRAPHS PAGE 1**  
Former Sheaff's Service Garage  
5930 College Avenue, Oakland, California

Project No. 9497

9497\_Photo Page 1.vsd

Figure By: baw/01-16

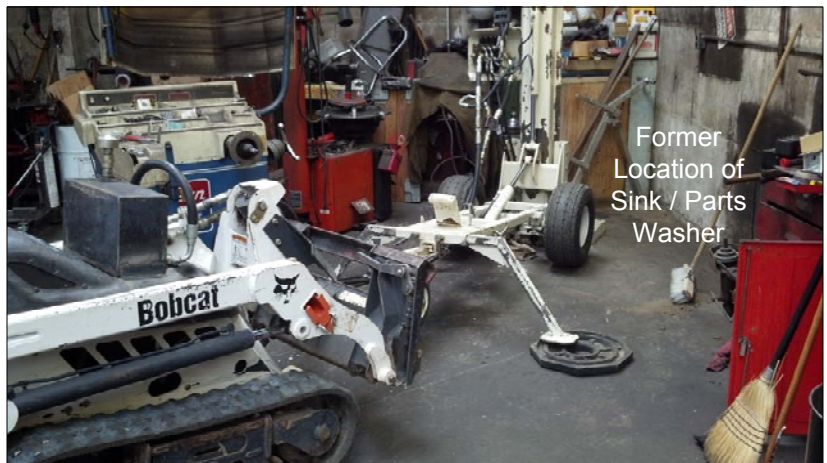
**Photographs**

Photograph No. 4 – Southeast view of rear concrete-paved storage yard, showing EnProbe representative during drilling/ soil sampling of Boring B28 in vicinity of rear yard of adjacent residential property (GGTR, Nov. 2015).



Photograph No. 5 – North view of rear concrete-paved storage yard, showing locations of Borings B29 & B29V following concrete coring (8"-Dia.) activities; B29V located approximately 3 feet northeast of B29 (GGTR, Nov. 2015).

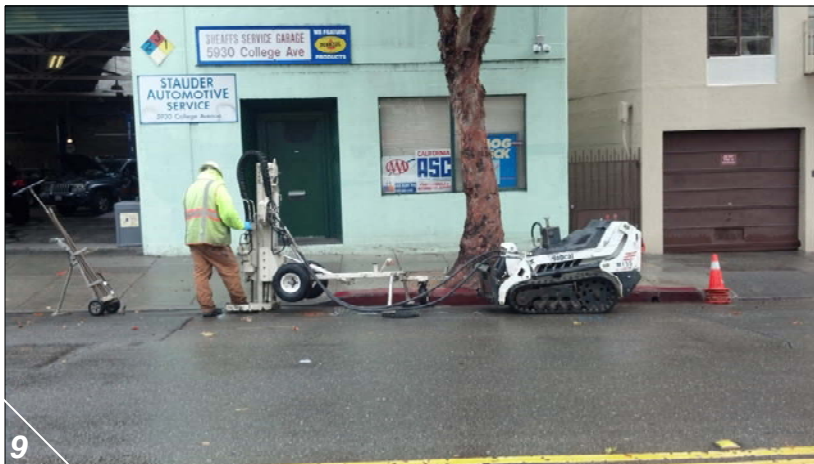
Photograph No. 6 - East view of southeast corner of interior service garage area at location of Boring B30, adjacent to former sink and parts washer (GGTR, Nov. 2015).



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**PHOTOGRAPHS PAGE 2**  
 Former Sheaff's Service Garage  
 5930 College Avenue, Oakland, California

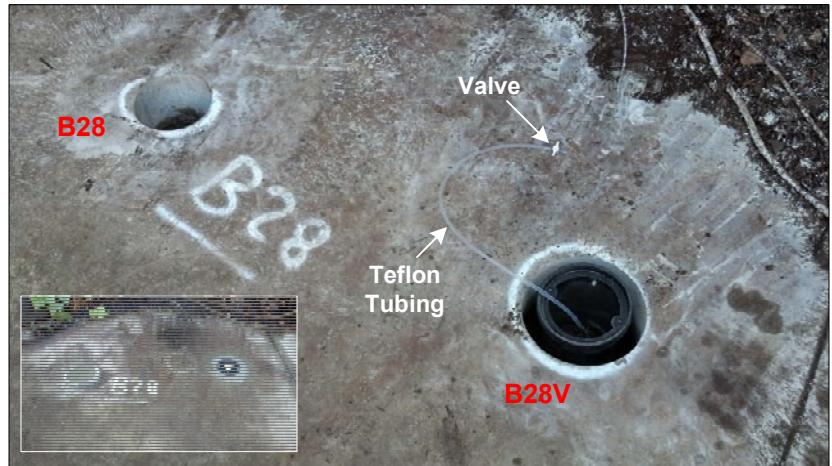
Photograph Nos. 7-9: – Various exterior views showing EnProbe representatives during drilling/soil sampling of Borings B32 (Photo#7), B33 (Photo#8), and B35 (Photo#9) along College Avenue Right of Way (GGTR, November 9, 2015).



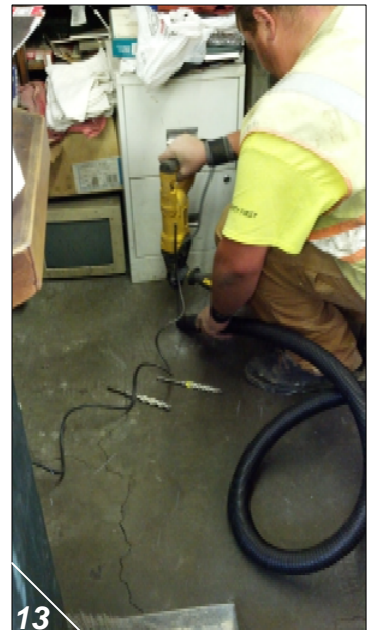
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**PHOTOGRAPHS PAGE 3**  
Former Sheaff's Service Garage  
5930 College Avenue, Oakland, California

Photograph No. 10 – Southeast view of rear storage yard, showing Soil Gas Well B28V during its final stages of construction; B28V completed to 5 feet below grade, with 0.25"-OD Teflon tubing (2' stickup w/ valve shown in photo) and 5"-Dia. traffic-rated well box (GGTR, Nov. 2015).



Photograph Nos. 11&12 – Northeast view of Soil Gas Well B31V (construction in progress) located in east sidewalk fronting 5916-5920 College Avenue property; B31V completed to 6.5 feet below grade (GGTR, Nov. 2015).



Photograph No. 13 – South interior view of Stauder Automotive office location, showing EnProbe representative during installation of Sub-Slab Vapor Probe SSV-1; SSV-1 completed to bottom of concrete slab floor (6" thickness) utilizing Cox-Colvin Vapor Pin™ assembly (GGTR, Nov. 2015).

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**PHOTOGRAPHS PAGE 4**  
Former Sheaff's Service Garage  
5930 College Avenue, Oakland, California

Photograph Nos. 14-19: Various exterior/interior views showing backfilling of various Boreholes with neat Portland Cement to approximately 0.5 feet below grade surface (Photo Nos. 14-18) and surface concrete (Photo No. 19) to grade surface (GGTR, Nov. 2015).



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**PHOTOGRAPHS PAGE 5**  
 Former Sheaff's Service Garage  
 5930 College Avenue, Oakland, California

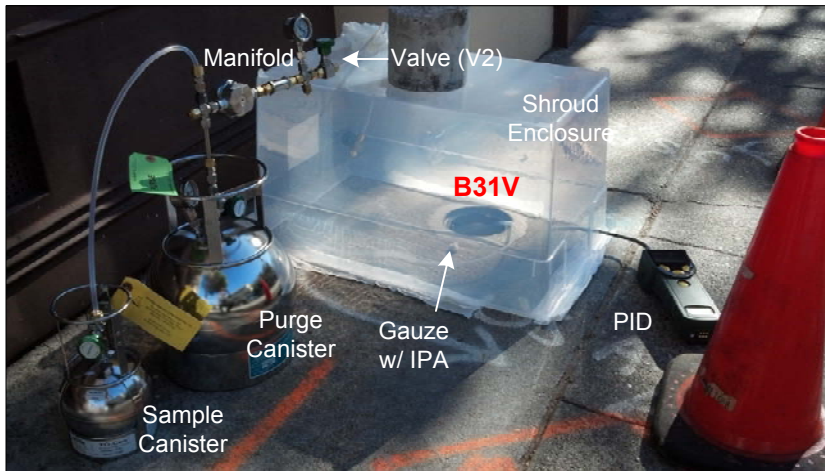
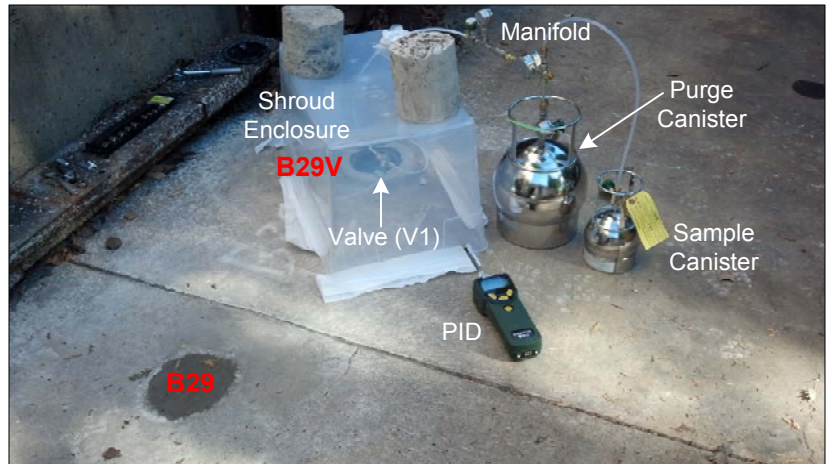
Project No. 9497

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Figure By: baw/01-16

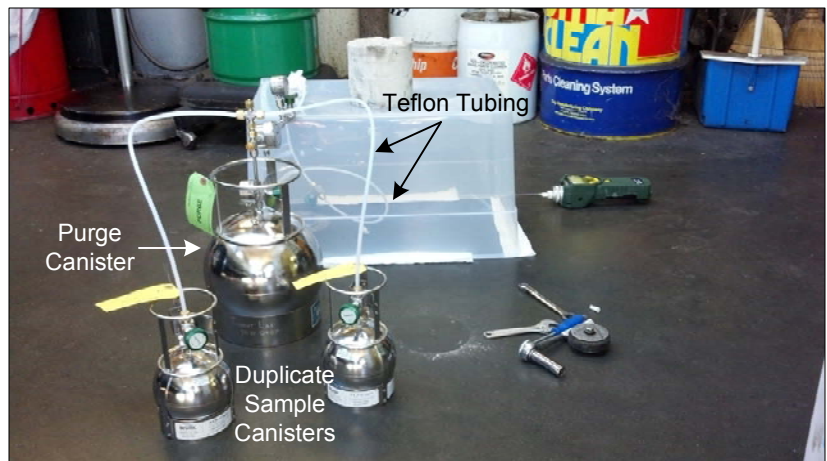
**Photographs**

Photograph No. 20 – North view of rear concrete-paved storage yard, showing sampling of newly-installed Soil Gas Well B29V (In Progress) using manifold assembly and shroud enclosure (GGTR, Nov. 2015).



Photograph No. 20 – South view of east College Avenue sidewalk, showing sampling of newly-installed Soil Gas Well B31V (In Progress) using manifold assembly and shroud enclosure (GGTR, Nov. 2015).

Photograph No. 21 - Southeast view of interior of Stauder Automotive, shown during duplicate sampling of existing Soil Gas Well SG-1 (In Progress) using manifold assembly and shroud enclosure (GGTR, Nov. 2015).



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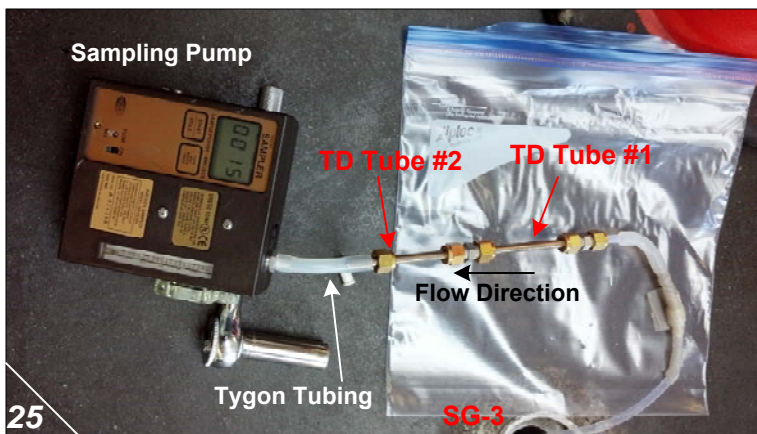
**PHOTOGRAPHS PAGE 6**  
 Former Sheaff's Service Garage  
 5930 College Avenue, Oakland, California

Photograph No. 22 – Thermal Desorption (TD) Tubes used for analysis of Naphthalene by EPA method TO-17; stainless tubes are pre-packed with sorbent and sealed at each end with threaded Swagelok caps, then wrapped in tin foil, and shipped from the laboratory on blue ice (GGTR, Nov. 2015).



Photograph Nos. 23 & 24 – Exterior/Interior views of Soil Gas Well B31V and Sub-Slab Vapor Point SSV-1 during collection of additional soil gas samples utilizing Thermal Desorption Tubes (2 in series) and active sampling pump (GGTR, Nov. 2015).

Photograph No. 25 – Interior view of Soil Gas Well SG-3 during collection of additional soil gas sample utilizing Thermal Desorption Tubes (2 in series) and active sampling pump (GGTR, Nov. 2015).



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**PHOTOGRAPHS PAGE 7**  
Former Sheaff's Service Garage  
5930 College Avenue, Oakland, California

**TABLE 1A**  
**Results of Soil Sample Analysis for Petroleum Hydrocarbon Constituents**  
**5930 College Avenue, Oakland, CA**

Sample Location	Sample ID	Sample Date	Sample Depth (ftg)	Field Sample VOCs (ppm)	TPH-G (mg/Kg)	TRPH (mg/Kg)	TPH-D+MO (mg/Kg)	TEPH (mg/kg)	MTBE (mg/Kg)	B/T/E/X (mg/Kg)
<b>UST Removal Activities - 1996</b>										
UST 1 Excavation, North End	7189-T1-N	8/6/1996	8	NM	6000.00	--	--	--	--	19/240/76/470
UST 1 Excavation, South End	7189-T1-S		8	NM	8100.00	--	--	--	--	16/240/72/530
UST 1 Excavation, Center	7189-T1-C-10		10	NM	1200.00	--	--	--	--	9.1/68/10/79
UST 2 Excavation, Center	7189-T2-C		8	NM	560.00	16000.00	ND	--	--	2.7/16/3.3/33
UST 1 Overburden Soil Stockpile	7189-SP1		--	NM	ND	--	ND	--	--	ND/ND/ND/ND
UST 2 Overburden Soil Stockpile	7189-SP2		--	NM	1.30	14000.00	ND	--	--	ND/ND/ND/0.020
UST 1 & UST 2 Over-Ex Stockpile	7189-OE-1	10/2/1996	10.5	NM	14001.00	1700.00	ND	--	--	9.8/81/14/110 <sup>1</sup>
UST 1 & UST 2 Over-Ex Stockpile	7189-OE-2		10.5	NM	8401.00	320.00	ND	--	--	3.3/51/12/91 <sup>1</sup>
UST 1 & UST 2 Over-Ex Stockpile	7189-OE-3		10.5	NM	ND	21.00	ND	--	--	ND/0.01/ND/0.027
UST 1 & UST 2 Over-Ex Stockpile	7189-OE-4		10.5	NM	4301.00	240.00	ND	--	--	0.93/18/4.6/41 <sup>1</sup>
UST 1 & UST 2 Over-Ex Stockpile	7189-OE-5		10.5	NM	14001.00	1100.00	ND	--	--	2.2/40/14/120 <sup>1</sup>
<b>Preliminary Site Assessment - May 1998 &amp; October 1999</b>										
B1	7335-B1-5	5/6/1998	5	NM	ND	--	--	ND	ND<0.005	ND/ND/ND/ND
	7335-B1-9		9		75.00	--	--	53.00	0.06	0.07/0.04/0.53/1
B2	7335-B2-5		5	NM	0.60	--	--	60.00	0.03	ND/ND/ND/ND
	7335-B2-9		9		<b>2800.00</b>	--	--	ND	ND<0.005	13/78/38/160
B3	7335-B3-6		6	NM	ND	--	--	ND	ND<0.005	ND/ND/ND/ND
	7335-B3-10		10		48.00	--	--	ND	ND<0.005	0.5/0.6/0.5/2
B4 (MW1)	7335-B4-5	5	NM	ND	--	--	ND	ND<0.005	ND/ND/ND/0.02	
	7335-B4-9	9		<b>280.00</b>	--	--	ND	1.00	4/8/6/27	
B5 (MW2)	7335-B5-3.0	10/1/99	3	NM	ND	--	--	ND	ND<0.005	ND/ND/ND/ND
	7335-B5-5.0		5		ND	--	--	ND	ND<0.005	ND/ND/ND/ND
	7335-B5-9.0		9		ND	--	--	ND	ND<0.005	ND/ND/ND/ND
	7335-B5-15.5		15.5		2.80	--	--	ND	ND<0.005	0.69/0.092/0.066/0.22
	7335-B5-20.0		20		ND	--	--	ND	ND<0.005	0.028/0.021/0.007/0.029
B6 (MW3)	7335-B6-5.0	5	NM	ND	--	--	200.00	ND<0.005	ND/ND/ND/ND	
	7335-B6-10.0	10		1.50	--	--	ND	ND<0.005	ND/ND/0.005/0.013	
	7335-B6-15.0	15		ND	--	--	ND	0.03	ND/ND/ND/ND	
	7335-B6-19.0	19		ND	--	--	ND	0.04	ND/ND/ND/ND	
<b>Soil &amp; Groundwater Investigation - October 2002</b>										
B7	7335-B7-8	10/30/2002	8	13	1.71	--	--	--	ND<0.005	0.005/ND<0.005/ND<0.005/ND<0.01
	7335-B7-13		13	22	20.10	--	--	--	ND<0.005	0.720/0.162/0.803/2.5
	7335-B7-16		16	55	61.80	--	--	--	ND<0.02	0.762/2.37/1.4/6.34
	7335-B7-20		20	19	1.97	--	--	--	ND<0.005	0.020/0.034/0.032/0.140
B8	7335-B8-12		12	0	0.61	--	--	--	ND<0.005	ND<0.005/ND<0.005/ND<0.005/ND<0.005
	7335-B8-16		16	33	14.00	--	--	--	ND<0.005	0.184/0.019/0.495/0.628
B9	7335-B8-20		20	15	5.66	--	--	--	ND<0.005	0.037/0.136/0.105/0.461
	7335-B9-12		12	NM	27.40	--	--	--	ND<0.005	0.097/0.027/0.171/0.161
B10	7335-B9-15		15	33	47.50	--	--	--	ND<0.005	1.12/1.96/2.09/9.46
	7335-B9-20		20	15	0.86	--	--	--	ND<0.005	ND<0.005/0.007/0.010/0.049
	7335-B10-11 <sup>2,3</sup>		11	206	81.80	--	--	ND	0.18	0.444/2.26/1.65/8.84
B11	7335-B10-15	15	208	<b>479.00</b>	--	--	ND	ND<0.250	4.16/15.9/9.21	
	7335-B10-17	17	59	7.44	--	--	ND	ND<0.005	0.036/0.075/0.079/0.442	
	7335-B11-8	8	0	ND	--	--	--	ND<0.005	ND<0.005/ND<0.005/ND<0.005/0.014	
SF Bay RWQCB December 2013 ESL - Residential Land Use										
					100/500	NC	100/110	NC	8.4	0.74/9.3/4.7/11
SF Bay RWQCB December 2013 ESL - Commercial Land Use										
					500/1000	NC	110	NC	8.4	1.2/9.3/4.7/11

Table & Notes Following



**TABLE 1A (Cont'd)**  
**Results of Soil Sample Analysis for Petroleum Hydrocarbon Constituents**  
**5930 College Avenue, Oakland, CA**

Sample Location	Sample ID	Sample Date	Sample Depth (ftg)	Field Sample VOCs (ppm)	TPH-G (mg/Kg)	TRPH (mg/Kg)	TPH-D/MO (mg/Kg)	TEPH (mg/Kg)	MTBE (mg/Kg)	B/T/E/X (mg/Kg)	
<i>Site Characterization - April &amp; June 2005</i>											
B12	B12-7	4/30/2005	7	NM	ND<0.5	--	--	--	ND<0.005	<0.005/0.006/<0.005/0.021	
	B12-10		10		0.62	ND<10	--	ND<50	ND<0.005	<0.005/<0.005/<0.005/0.011	
	B12-15		15		79.50	ND<10	--	ND<50	0.03	0.537/0.394/0.826/2.740	
	B12-20		20		2.73	--	--	--	0.12	0.016/0.035/0.045/0.280	
B16	B16-7.5	4/30/2005	7.5	NM	1.90	--	--	--	ND<0.005	<0.005/0.013/0.027/0.113	
	B16-9.5		9.5		ND<0.5	--	--	--	ND<0.005	<0.005/<0.005/0.009/0.037	
	B16-15		15		5.27	--	--	--	ND<0.005	0.061/0.014/0.061/0.190	
B19	B16-25	4/30/2005	25	NM	ND<0.5	--	--	--	0.06	<0.005/0.007/0.010/0.042	
	B19-7		7		ND<0.5	--	--	--	ND<0.005	<0.005/<0.005/<0.005/<0.010	
	B19-10		10		0.99	--	--	--	0.02	<0.005/<0.005/<0.005/<0.010	
	B19-15		15		139.00	--	--	--	ND<0.020	0.841/0.995/4.290/12.00	
B20	B19-20	4/30/2005	20	NM	10.00	--	--	--	ND<0.005	0.039/0.163/0.091/0.341	
	B19-24		24		8.15	--	--	--	ND<0.005	0.094/0.163/0.091/0.341	
	B20-7		7		0	0.52	--	--	--	ND<0.005	0.022/<0.005/0.014/0.023
	B20-15		15		0	63.60	--	--	--	ND<0.020	0.395/0.491/0.961/2.750
B21	B20-20	6/22/2005	20	NM	0	3.97	--	--	0.09	0.013/0.019/0.069/0.271	
	B21-6.5		6.5		0	ND<0.05	--	--	--	ND<0.005	<0.005/<0.005/<0.005/<0.010
	B21-8.5		9.5		0	14.00	--	ND<25 (TPH-MO)	--	ND<0.250	<0.250/<0.250/<0.250/<0.500
	B21-11.5		11.5		0	170.00	--	--	--	ND<5	<5/<5/<5/13
B22	B21-14.5	6/22/2005	14.5	NM	0	970.00	--	--	ND<25	<25/28/<25/100	
	B21-19.5		19.5		0	6.90	--	--	ND<0.250	<0.250/<0.250/<0.250/<0.500	
	B21-24.5		24.5		0	73.00	--	--	--	ND<0.250	0.280/1.301/3.07/7.0
	B22-6.5		6.5		0	0.10	--	--	--	ND<0.005	<0.005/0.052/<0.005/0.011
B23	B22-10	6/22/2005	10	NM	0	100.00	--	ND<25 (TPH-MO)	--	ND<0.50	<0.5/<0.680/<0.5/3.0
	B22-14.5		14.5		0	0.25	--	--	--	ND<0.005	<0.005/<0.005/<0.005/<0.010
	B22-19.5		19.5		0	0.06	--	--	--	0.07	<0.005/<0.005/<0.005/<0.010
	B22-24.5		24.5		0	0.07	--	--	--	0.09	<0.005/<0.005/<0.005/<0.010
B24	B23-6	6/22/2005	6	NM	0	ND<0.05	--	--	ND<0.005	<0.005/<0.005/<0.005/<0.010	
	B23-10		10		0	300.00	--	230 (TPH-MO)	--	ND<2.50	<2.5/<2.5/1/29
	B23-11.5		11.5		0	420.00	--	--	--	ND<5	<5.0/16.0/9.2/53
	B23-15		15		0	870.00	--	--	--	ND<2.50	<2.5/<2.5/19/76
B24	B23-17	6/22/2005	17	NM	0	910.00	--	--	ND<5	<5.0/28/20/110	
	B23-19.5		19.5		0	0.06	--	--	--	ND<0.005	<0.005/<0.005/<0.005/<0.010
	B23-24.5		24.5		NM	0.06	--	--	--	0.05	<0.005/<0.005/<0.005/<0.010
	B24-7		7		0	3.75	--	--	--	ND<0.005	0.006/0.009/0.048/0.203
PW-1	B24-10	4/30/2005	10	NM	0	1.29	--	--	0.07	0.006/<0.005/0.015/0.066	
	B24-15		15		0	31.10	--	--	ND<0.020	0.341/0.112/0.490/0.789	
	B24-22		22		0	27.30	--	--	--	0.08	0.260/0.272/0.747/2.140
	PW1-4.5		4.5		0	ND<0.5	--	--	--	ND<0.005	<0.005/<0.005/<0.005/<0.010
PW-1	PW1-6	4/5/2005	6	NM	0	ND<0.5	--	--	ND<0.005	<0.005/<0.005/<0.005/<0.010	
	PW1-9		9		0	ND<0.5	--	--	--	ND<0.005	<0.005/<0.005/<0.005/<0.010
	PW1-11.5		11.5		0	ND<0.5	--	--	--	ND<0.005	<0.005/<0.005/<0.005/<0.010
	PW1-20		20		0	0.80	--	--	--	ND<0.005	<0.005/<0.005/<0.005/<0.010
<i>Soil &amp; Groundwater Investigation - August/October 2013</i>											
SG-1	SG-1-4 <sup>5</sup>	8/8/2013	4	0	ND<0.1	--	--	--	--	--	
SG-2	SG-2-5		5	0	ND<0.1	--	--	--	--	--	
SG-3	SG-3-5 <sup>5</sup>		5	0	ND<0.1	--	--	--	--	--	
<i>Data Gap Investigation - November 2015</i>											
B28	B28-3	11/8/2015	3	0	ND<0.10	--	ND<2.0 / 14	--	ND<0.010	<0.010/<0.010/<0.010/<0.010	
	B28-5 <sup>6</sup>		5	0.3	ND<0.10	--	5.9 / 13	--	ND<0.010	<0.010/<0.010/<0.010/<0.010	
	B28-9 <sup>6</sup>		9	0.4	ND<0.10	--	6.1 / 12	--	ND<0.010	<0.010/<0.010/<0.010/<0.010	
	B28-13.5 <sup>7</sup>		13.5	3113	100.00	--	24 / ND<10	--	ND<1.00	<1.00/<1.00/1.8/4.5	
B29	B29-3 <sup>6</sup>	11/8/2015	3	3.2	ND<0.10	--	2.5 / ND<10	--	ND<0.010	<0.010/<0.010/<0.010/<0.010	
	B29-5 <sup>6</sup>		5	0.4	ND<0.10	--	5.1 / 11	--	ND<0.010	<0.010/<0.010/<0.010/<0.010	
	B29-9 <sup>6</sup>		9	0.9	ND<0.10	--	6.0 / 12	--	ND<0.010	<0.010/<0.010/<0.010/<0.010	
	B29-14 <sup>6</sup>		14	3.4	ND<0.10	--	4.2 / ND<10	--	ND<0.010	<0.010/<0.010/<0.010/<0.010	
B30	B30-3	11/8/2015	3	3.5	ND<0.10	--	ND<2.0 / ND<10	--	ND<0.010	<0.010/<0.010/<0.010/<0.010	
	B30-5 <sup>6</sup>		5	2.7	ND<0.10	--	4.6 / 10	--	ND<0.010	<0.010/<0.010/<0.010/<0.010	
	B30-9.5 <sup>6</sup>		9.5	1.2	ND<0.10	--	6.5 / 12	--	ND<0.010	<0.010/<0.010/<0.010/<0.010	
	B30-14 <sup>7,8</sup>		14	281	11.00	--	8.5 / ND<10	--	ND<1.00	<1.00/<1.00/<1.00/<1.00	
B31	B31-1 <sup>6,9</sup>	11/9/2015	1	36.3	ND<0.10	--	3.6 / 2.2	--	ND<0.010	<0.010/<0.010/<0.010/<0.010	
	B31-3 <sup>6,9</sup>		3	18.5	ND<0.10	--	2.3 / 12	--	ND<0.010	<0.010/<0.010/<0.010/<0.010	
	B31-9 <sup>6,9</sup>		9	2	ND<0.10	--	6.1 / ND<10	--	ND<0.010	<0.010/<0.010/<0.010/<0.010	
	B31-11.5 <sup>6,7,9,10</sup>		11.5	10.2	3.10	--	7.6 / ND<10	--	ND<0.05	<0.05/<0.05/<0.05/<0.05	
	B31-14.5 <sup>6,7,9</sup>	11/9/2015	14.5	3.4	0.53	--	3.3 / ND<10	--	ND<0.010	<0.010/<0.010/<0.010/<0.010	
SF Bay RWQCB December 2013 ESL - Residential Land Use					500	NC	110	NC	8.4	0.74/9.3/4.7/11	
SF Bay RWQCB December 2013 ESL - Commercial Land Use					1000	NC	110	NC	8.4	1.2/9.3/4.7/11	

Table & Notes Following

**TABLE 1A (Cont'd)**  
**Results of Soil Sample Analysis for Petroleum Hydrocarbon Constituents**  
**5930 College Avenue, Oakland, CA**

Sample Location	Sample ID	Sample Date	Sample Depth (fbg)	Field Sample VOCs (ppm)	TPH-G (mg/Kg)	TRPH (mg/Kg)	TPH-D/-MO (mg/Kg)	TEPH (mg/Kg)	MTBE (mg/Kg)	B/T/E/X (mg/Kg)
<i>Data Gap Investigation - November 2015</i>										
B32	B32-1 <sup>6,9</sup>	11/8/2015	1	8.8	ND<0.10	--	3.2 / 20	--	ND<0.010	<0.010/<0.010/<0.010/<0.010
	B32-3 <sup>9</sup>		3	5.1	ND<0.10	--	ND<2.0 / ND<10	--	ND<0.010	<0.010/<0.010/<0.010/<0.010
	B32-9 <sup>6,9</sup>		9	0.4	ND<0.10	--	2.1 / ND<10	--	ND<0.010	<0.010/<0.010/<0.010/<0.010
	B32-13		13	0.2	ND<0.10	--	2.1 / ND<10	--	ND<0.010	<0.010/<0.010/<0.010/<0.010
B33	B33-3 <sup>6,9,11</sup>	11/9/2015	3	1.7	ND<0.10	--	5.4 / 59	--	ND<0.010	<0.010/<0.010/<0.010/<0.010
	B33-7 <sup>6,9,11</sup>		7	2.9	ND<0.10	--	2.0 / 17	--	ND<0.010	<0.010/<0.010/<0.010/<0.010
	B33-12 <sup>9</sup>		12	1.5	ND<0.10	--	ND<2.0 / 10	--	ND<0.010	<0.010/<0.010/<0.010/<0.010
B34	B34-3 <sup>9</sup>	11/8/2015	3	2.6	--	--	ND<10 <sup>12</sup>	--	ND<0.010	<0.010/<0.010/<0.010/<0.010
	B34-5 <sup>9</sup>		5	0.9	--	--	ND<10 <sup>12</sup>	--	ND<0.010	<0.010/<0.010/<0.010/<0.010
	B34-9.5 <sup>9</sup>		9.5	16.2	--	--	ND<10 <sup>12</sup>	--	ND<0.010	<0.010/<0.010/<0.010/<0.010
	B34-13.5 <sup>9,13,14</sup>		13.5	824	--	--	ND<10 <sup>12</sup>	--	ND<1.00	<1.00/<1.00/ <b>8.9/43</b>
B35	B35-3 <sup>9</sup>	11/9/2015	3	0	--	--	--	--	ND<0.010	<0.010/<0.010/<0.010/<0.010
	B35-5 <sup>9</sup>		5	0	--	--	--	--	ND<0.010	<0.010/<0.010/<0.010/<0.010
	B35-9 <sup>9,14</sup>		9	157	--	--	--	--	ND<1.00	<1.00/<1.00/ <b>5.2/24.8</b>
	B35-12 <sup>15</sup>		12	1700	--	--	--	--	ND<1.00	<1.00/<1.00/1.5/6.5
SF Bay RWQCB December 2013 ESL - Residential Land Use					500	NC	110	NC	8.4	0.74/9.3/4.7/11
SF Bay RWQCB December 2013 ESL - Commercial Land Use					1000	NC	110	NC	8.4	1.2/9.3/4.7/11

**TABLE NOTES:**

TPH-G = total petroleum hydrocarbons (TPH) as gasoline (EPA Method 8015M)

TEPH = total extractable petroleum hydrocarbons [SM 5520 E&F + EPA 1664 (Silica Gel Treated Hexane; B10 only)]

B/T/E/X = benzene, toluene, ethylbenzene, total xylenes (EPA Method 8020)

MTBE = methyl tertiary-butyl ether (EPA Method 8020)

Total Lead by EPA Method 7420/AA Spectroscopy

fbg = feet below grade

mg/kg = milligrams per kilogram (parts per million)

-- = not analyzed

<sup>1</sup> = confirmed by EPA Method 8260

<sup>2</sup> = sample also analyzed (EPA 6010B ICAP) for cadmium (ND<2.0 mg/kg), chromium (38.2 mg/kg), nickel (51.5 mg/kg), and zinc (47.7 mg/kg);

<sup>3</sup> = sample also analyzed for VOCs (EPA 8260) in mg/kg: MTBE (0.599), benzene (0.397), toluene (1.81), ethylbenzene (1.05), total xylenes (5.37), isopropylbenzene (0.100), n-propylbenzene (0.453), 1,3,5-trimethylbenzene (2.63), 1,2,4-trimethylbenzene (0.832), n-butylbenzene (0.313),

<sup>4</sup> = sample also analyzed for HVOCs (EPA 8010): All concentrations ND

<sup>5</sup> = sample also analyzed by Cooper Testing Labs for Grain Size Analysis, % Moisture & % Organic Matter (See CTL Lab Report Dated 8/15/13)

<sup>6</sup> = Diesel result due to unknown discrete peak(s) within quantified range

<sup>7</sup> = Although TPH as gasoline constituents are present, sample chromatogram does not match reference gasoline pattern; reported TPH value includes amount due to heavy end hydrocarbons (possibly aged gasoline) within range of C5-C12. Diesel result due to unknown organics within quantified range

<sup>8</sup> = the reporting limits were raised due to high concentration of non-target heavy end compounds

<sup>9</sup> = sample also analyzed for Polycyclic Aromatic Hydrocarbons (PAHs; EPA 8270C): All concentrations ND

<sup>10</sup> = For VOCs only, the reporting limits were raised due to high level of non-target light end hydrocarbons

<sup>11</sup> = Diesel result due to over-lapping of oil range organics within diesel quantified range

<sup>12</sup> = TPH as Hydraulic Oil

<sup>13</sup> = sample also analyzed for Polycyclic Aromatic Hydrocarbons (PAHs; EPA 8270C): Naphthalene (0.89 mg/kg), 1-Methylnaphthalene (0.71 mg/kg), 2-Methylnaphthalene (1.5 mg/kg)

<sup>14</sup> = the reporting limits increased due to matrix interference (detector saturation from Unknown organics)

<sup>15</sup> = sample also analyzed for Polycyclic Aromatic Hydrocarbons (PAHs; EPA 8270C): Naphthalene (0.49 mg/kg), 2-Methylnaphthalene (0.59 mg/kg)

SF Bay RWQCB/ESL = San Francisco Bay Regional Water Quality Control Board's Interim Final - December 2013, Tier 1 Environmental Screening Level for shallow soil (<10') / deep soil (>10') at a residential or commercial land use permitted site with groundwater that **Is Not** a potential source of drinking water

**TABLE 1B**  
**Results of Soil Sample Analysis for Volatile Organic Compounds**  
**5930 College Avenue, Oakland, CA**

Sample Location	Sample ID	Sample Date	Sample Depth (ftg)	Field Sample VOCs (ppm)	IPB (mg/Kg)	n-PB (mg/Kg)	1,3,5-TMB (mg/Kg)	1,2,4-TMB (mg/Kg)	Sec-BB (mg/Kg)	n-BB (mg/Kg)	Naphthalene (mg/Kg)	MIBK (mg/Kg)	TCE (mg/Kg)	MC (mg/Kg)	cis-1,2-DCE (mg/Kg)	PCE (mg/Kg)	
<i>UST Removal Activities - 1996</i>																	
UST 2 Excavation, Center	7189-T2-C	10/2/1996	8	NM	0.14	1.1	2.8	7.5	0.2	NA	ND<0.005	0.36	ND<0.005	ND<0.005	ND<0.005	0.024	
UST 2 Overburden Soil Stockpile	7189-SP2		NA	NM	ND<5	0.017	0.92	0.037	ND<5	NA	ND<0.005	0.042	ND<0.005	ND<0.005	ND<0.005	0.031	
<i>Preliminary Site Assessment - May 1998 &amp; October 1999</i>																	
B10	7335-B10-11 <sup>2,3</sup>	10/30/2002	11	206	0.1	0.453	2.63	0.832	ND<0.020	0.313	715	ND<0.20	ND<0.020	ND<1.0	ND<0.020	ND<0.020	
<i>Soil &amp; Groundwater Investigation - October 2002</i>																	
B12	B12-10	4/30/2005	10	NM	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<10	ND<50	ND<5	ND<50	ND<5	ND<5	
	B12-15		15	NM	134	416	788	617	78	331	819	ND<50	ND<5	ND<50	ND<5	ND<5	
<i>Site Characterization - April &amp; June 2005</i>																	
B21	B21-8.5	6/22/2005	8.5	0	ND<250	ND<250	1100	870	ND<250	ND<250	ND<250	ND<2000	ND<250	ND<1200	ND<250	ND<250	
B22	B22-10		10	0	ND<500	830	5100	4000	ND<500	720	640	ND<4000	ND<500	ND<4000	ND<500	ND<500	
<i>Soil &amp; Groundwater Investigation - August/October 2013</i>																	
B25	B25-4	8/8/2013	4	0	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.050	ND<0.010	ND<0.010	
B26	B26-2		2	0	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.050	ND<0.010	0.016
	B26-4		4	0	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.050	ND<0.010	ND<0.010
B27	B27-4		4	0	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.050	ND<0.010	ND<0.010
<i>Data Gap Investigation - November 2015</i>																	
B28	B28-3	11/8/2015	3	0	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	NA	ND<0.010	ND<0.050	ND<0.010	ND<0.010	
	B28-5		5	0.3	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	NA	ND<0.010	ND<0.050	ND<0.010	ND<0.010	
	B28-9		9	0.4	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	NA	ND<0.010	ND<0.050	ND<0.010	ND<0.010	
	B28-13.5		13.5	3113	ND<1.000	ND<1.000	1.1	4.5	ND<1.000	ND<1.000	ND<1.000	1.1	NA	ND<1.000	ND<5.000	ND<1.000	ND<1.000
B29	B29-3	11/8/2015	3	3.2	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	NA	ND<0.010	ND<0.050	ND<0.010	ND<0.010	
	B29-5		5	0.4	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	NA	ND<0.010	ND<0.050	ND<0.010	ND<0.010	
	B29-9		9	0.9	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	NA	ND<0.010	ND<0.050	ND<0.010	ND<0.010	
	B29-14		14	3.4	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	NA	ND<0.010	ND<0.050	ND<0.010	ND<0.010	
B30	B30-3	11/8/2015	3	3.5	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	NA	ND<0.010	ND<0.050	ND<0.010	ND<0.010	
	B30-5		5	2.7	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	NA	ND<0.010	ND<0.050	ND<0.010	ND<0.010	
	B30-9.5		9.5	1.2	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	NA	ND<0.010	ND<0.050	ND<0.010	ND<0.010	
	B30-14 <sup>1</sup>		14	281	ND<1.000	ND<1.000	ND<1.000	ND<1.000	ND<1.000	ND<1.000	ND<1.000	NA	ND<1.000	ND<5.000	ND<1.000	ND<1.000	
B31 <sup>2</sup>	B31-1	11/9/2015	1	36.3	NA	NA	NA	NA	NA	NA	ND<0.010	NA	NA	NA	NA	NA	
	B31-3		3	18.5	NA	NA	NA	NA	NA	NA	ND<0.010	NA	NA	NA	NA	NA	
	B31-9		9	2	NA	NA	NA	NA	NA	NA	ND<0.010	NA	NA	NA	NA	NA	
	B31-11.5		11.5	10.2	NA	NA	NA	NA	NA	NA	ND<0.050	NA	NA	NA	NA	NA	
	B31-14.5		14.5	3.4	NA	NA	NA	NA	NA	NA	ND<0.010	NA	NA	NA	NA	NA	
B32 <sup>2</sup>	B32-1	11/8/2015	1	8.8	NA	NA	NA	NA	NA	NA	ND<0.010	NA	NA	NA	NA	NA	
	B32-3		3	5.1	NA	NA	NA	NA	NA	NA	ND<0.010	NA	NA	NA	NA	NA	
	B32-9		9	0.4	NA	NA	NA	NA	NA	NA	ND<0.010	NA	NA	NA	NA	NA	
	B32-13		13	0.2	NA	NA	NA	NA	NA	NA	ND<0.010	NA	NA	NA	NA	NA	
	B33 <sup>2</sup>		B33-3	11/9/2015	3	1.7	NA	NA	NA	NA	NA	ND<0.010	NA	NA	NA	NA	NA
B33-7	7	2.9	NA		NA	NA	NA	NA	NA	ND<0.010	NA	NA	NA	NA	NA		
B33-12	12	1.5	NA		NA	NA	NA	NA	NA	ND<0.010	NA	NA	NA	NA	NA		
SF Bay RWQCB December 2013 ESL - Residential Land Use					NC	NC	NC	NC	NC	NC	3.1	3.9	1.7	9.9	18	0.55	
SF Bay RWQCB December 2013 ESL - Commercial Land Use					NC	NC	NC	NC	NC	NC	4.8	3.9	8.3	34	18	2.6	

TABLE NOTES ON FOLLOWING PAGE

**TABLE 1B (CONT'D)**  
**Results of Soil Sample Analysis for Volatile Organic Compounds**  
**5930 College Avenue, Oakland, CA**

Sample Location	Sample ID	Sample Date	Sample Depth (fbg)	Field Sample VOCs (ppm)	IPB (mg/Kg)	n-PB (mg/Kg)	1,3,5-TMB (mg/Kg)	1,2,4-TMB (mg/Kg)	Sec-BB (mg/Kg)	n-BB (mg/Kg)	Naphthalene (mg/Kg)	MIBK (mg/Kg)	TCE (mg/Kg)	MC (mg/Kg)	cis-1,2-DCE (mg/Kg)	PCE (mg/Kg)	
<i>Data Gap Investigation - November 2015</i>																	
B34 <sup>3</sup>	B34-3	11/8/2015	3	2.6	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	NA	ND<0.010	ND<0.050	ND<0.010	ND<0.010	
	B34-5		5	0.9	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	NA	ND<0.010	ND<0.050	ND<0.010	ND<0.010	
	B34-9.5		9.5	16.2	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	NA	ND<0.010	ND<0.050	ND<0.010	ND<0.010	
	B34-13.5		13.5	824	ND<1.000	2.9	5.1	19	ND<1.000	1.1	3.9	NA	ND<1.000	ND<5.000	ND<1.000	ND<1.000	
B35 <sup>2</sup>	B35-3	11/9/2015	3	0	NA	NA	NA	NA	NA	NA	ND<0.010	NA	NA	NA	NA	NA	
	B35-5		5	0	NA	NA	NA	NA	NA	NA	ND<0.010	NA	NA	NA	NA	NA	
	B35-9 <sup>4</sup>		9	157	NA	NA	NA	NA	NA	NA	NA	3.8	NA	NA	NA	NA	NA
	B35-12 <sup>5</sup>		12	1700	NA	NA	NA	NA	NA	NA	NA	1.1	NA	NA	NA	NA	NA
SF Bay RWQCB December 2013 ESL - Residential Land Use					NC	NC	NC	NC	NC	NC	3.1	3.9	1.7	9.9	18	0.55	
SF Bay RWQCB December 2013 ESL - Commercial Land Use					NC	NC	NC	NC	NC	NC	4.8	3.9	8.3	34	18	2.6	

**TABLE NOTES:**

fbg = feet below grade surface  
mg/kg = milligrams per kilogram  
ND = Non detectable or measured below applicable laboratory reporting limit  
NA = not analyzed for this constituent  
NM = Parameter not measured  
NC = no criteria established for this chemical constituent  
VOCs = Volatile Organic Compounds (Total) as measured with Photo Ionization Detector  
ppm = parts per million  
IPB = Isopropylbenzene  
n-PB = n-Propylbenzene  
1,3,5-TMB = 135 Trimethylbenzene  
1,2,4-TMB = 1,2,4- Trimethylbenzene  
Sec-BB = Sec-Butylbenzene  
n-BB = n-Butylbenzene  
MIBK = Methyl Isobutyl Ketone  
TCE = Trichloroethene  
MC = Methylene Chloride  
cis-1,2-DCE = cis-1,2-Dichloroethene  
Tri-CFM = Trichlorofluoromethane  
PCE = Perchloroethene or Tetrachloroethene

<sup>1</sup> = Reporting limits were raised due to high concentration of non-target heavy end compounds (See Table 1A)

<sup>2</sup> = Associated samples also analyzed for MTBE, BTEX (EPA 8260B) and Polycyclic Aromatic Hydrocarbons (EPA 8270C): All concentrations ND

<sup>3</sup> = Associated samples also analyzed for Polycyclic Aromatic Hydrocarbons (EPA 8270C): All concentrations ND (Reporting limits increased due to matrix interference)

<sup>4</sup> = Sample also analyzed for: MTBE (ND<1.000 mg/kg), Benzene (ND<1.000 mg/kg), Toluene (ND<1.000 mg/kg), Ethylbenzene (5.2 mg/kg), Total Xylenes (24.8 mg/kg) by EPA 8260B; Sample also analyzed for Polycyclic Aromatic Hydrocarbons (EPA 8270C); All concentrations ND (Reporting limits increased due to matrix interference)

<sup>5</sup> = Sample also analyzed for: MTBE (ND<1.000 mg/kg), Benzene (ND<1.000 mg/kg), Toluene (ND<1.000 mg/kg), Ethylbenzene (1.5 mg/kg), Total Xylenes (6.5 mg/kg) by EPA 8260B; Sample also analyzed for Polycyclic Aromatic Hydrocarbons (EPA 8270C); 0.49 mg/kg Naphthalene and 0.59 mg/kg 2-Methylnaphthalene; All other concentrations ND

SF Bay RWQCB/ESL = San Francisco Bay Regional Water Quality Control Board's Interim Final - December 2013, Tier 1 Environmental Screening Level for shallow soil (<10') and deep soil (>10') at a residential or commercial land use permitted site with groundwater that **Is Not** a potential source of drinking water

**TABLE 1C**  
**Results of Soil Sample Analysis for LUFT 5 Metals**  
**5930 College Avenue, Oakland, CA**

Sample Location	Sample ID	Sample Depth (fbg)	Sample Date	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
<b><i>UST Removal Activities - 1996</i></b>								
Center of T2 Excavation	7189-T2-C	8		ND<2.0	49	48	68	210
T2 Soil Stockpile	7189-SP2	NA		ND<2.0	34	79	32	130
<b><i>Soil &amp; Groundwater Investigation - October 2002</i></b>								
B10	7335-B10-15	15	10/30/2002	ND<2.0	38.2	19.6	51.5	47.7
<b><i>Site Characterization - April &amp; June 2005</i></b>								
B21	B21-8.5	8.5	6/22/2005	ND<1.0	74	4.6	78	36
B22	B22-10	10		ND<1.0	43	5.3	53	41
B23	B23-10	10		ND<1.0	47	7.2	63	50
SF Bay RWQCB December 2013 ESL - Residential Land Use				12 / 78.0	1000 / 2500	80 / 80	150 / 1500	600 / 2500
SF Bay RWQCB December 2013 ESL - Commercial Land Use				12 / 1000	2500 / 5000	320 / 320	150 / 5000	600 / 5000

**TABLE NOTES:**

Cadmium, Chromium (Total), Lead, Nickel, and Zinc analyzed by EPA Method 6010B  
mg/Kg = milligrams per Kilogram  
NC = no criteria established for this chemical constituent  
fbg = feet below grade surface

SF Bay RWQCB/ESL = San Francisco Bay Regional Water Quality Control Board's Interim Final - December 2013,  
Tier 1 Environmental Screening Level for shallow soil (< 10 fbg) / deep soil (>10 fbg) at a residential or commercial land  
use permitted site with groundwater that is **Not** a potential source of drinking water (protection of urban ecological receptor)

**TABLE 2A**

**Historical Results of Grab Groundwater Sample Hydrocarbon Analysis  
5930 College Avenue, Oakland, CA**

Sample Location	Sample ID	Sample Depth (fbg)	Sample Date	TPH-G (ug/L)	TEPH (ug/L)	TPH-D (ug/L)	TPH-MO (ug/L)	MTBE (ug/L)	B/T/E/X (ug/L)
<b><i>Preliminary Site Assessment - May 1998 &amp; October 1999</i></b>									
B1	B1-GW	8.5	5/6/1998	<b>31000</b>	6000	--	--	ND<5	<b>2600 / 390 / 1600 / 4200</b>
B2	B2-GW	6.5		<b>200000</b>	ND<5000	--	--	<b>2500</b>	<b>30000 / 49000 / 45000 / 21000</b>
B3	B3-GW	6.5		<b>1x10<sup>6</sup></b>	7000	--	--	<b>18000</b>	<b>17000 / 24000 / 20000 / 80000</b>
<b><i>Soil &amp; Groundwater Investigation - October/November 2002</i></b>									
B7	B7-W	16.4	10/30/2002	<b>296000</b>	--	--	--	1360	<b>18400 / 21900 / 8310 / 33800</b>
B8	B8-W	11.5	11/1/2002	<b>1480</b>	--	--	--	35	<b>386 / 9 / 74 / 81</b>
B9	B9-W	16.95		<b>16100</b>	--	--	--	879	<b>1250 / 1380 / 820 / 3480</b>
B10	B10-W	13.85		<b>49400</b>	--	--	ND<5000	<b>2040</b>	<b>6600 / 9940 / 1610 / 7600</b>
<b><i>Site Characterization - April-July 2005</i></b>									
B12	B12-W	NM	5/2/2005	<b>934000</b>	--	--	<b>92000*</b>	ND<5000	<b>13900 / 22300 / 20800 / 86800</b>
B14	B14-W	NM	5/19/2005	ND<50	--	--	--	2.2	ND<0.5 / 1.2 / 0.6 / 3.5
B15	B15-W	NM		53	--	--	--	ND<0.5	8.4 / ND<0.5 / ND<0.5 / ND<1.0
B16	B16-W	NM	5/2/2005	<b>154000</b>	--	--	--	ND<500	<b>2510 / 3020 / 4300 / 20400</b>
B17	B17-W		5/19/2005	ND<50	--	--	--	--	ND<0.5 / ND<0.5 / ND<0.5 / ND<1.0
B18	B18-W	6.4	4/14/2005	51	--	--	--	ND<0.5	ND<0.5 / ND<0.5 / ND<0.5 / 1.8
B19	B19-W	NM	5/2/2005	<b>4600000</b>	--	--	--	ND<250	<b>31100 / 70500 / 75600 / 228000</b>
B20	B20-W		5/19/2005	<b>60700</b>	--	--	--	--	<b>6800 / 2600 / 1550 / 6520</b>
B21	B21-W	15	6/22/2005	<b>130000</b>	--	--	<b>5800000</b>	--	<b>21000 / 24000 / 4500 / 23000</b>
B23	B23-W	6.9	7/11/2005	<b>21000</b>	1800	--	<b>9200</b>	880	<b>2200 / 2600 / 450 / 3000</b>
B24	B24-W	NM	5/2/2005	<b>3830000</b>	--	--	--	ND<50	<b>33200 / 46300 / 65500 / 175000</b>
HB-1	HB-1-W	7.52	4/14/2005	173	--	--	--	0.9	0.8 / ND<0.5 / 0.9 / 3.9
HB-3	HB-3-W	8.05	7/11/2005	<b>13000</b>	--	--	--	ND<20	<b>690 / 21 / 1200 / 190</b>
HB-4	HB-4-W	8.43		<b>14000</b>	--	--	--	ND<20	13 / ND<10 / 10 / ND<10
HB-6	HB-6-W	6.45		45	--	--	--	ND<1	ND<0.5
<b><i>Soil &amp; Groundwater Investigation - August/October 2013</i></b>									
CPT-1	CPT-1B-GW	6.5	9/27/2013	16000	--	--	--	ND<4.2	<b>360 / 910 / 550 / 2810</b>
SF Bay RWQCB December 2013 ESL				500	NC	640	640	1800	27 / 130 / 43 / 100

**Table Notes Following**

**TABLE 2A (Cont'd)**  
**Historical Results of Grab Groundwater Sample Hydrocarbon Analysis**  
**5930 College Avenue, Oakland, CA**

Sample Location	Sample ID	Sample Depth (fbg)	Sample Date	TPH-G (ug/L)	TEPH (ug/L)	TPH-D (ug/L)	TPH-MO (ug/L)	MTBE (ug/L)	B/T/E/X (ug/L)
<i>Data Gap Investigation - November 2015</i>									
B28	B28-GW	18.1	11/13/2015	--	--	--	--	ND<4.2	<b>500 / 410 / 1200 / 4370</b>
B29 <sup>1</sup>	B29-GW	18.95	11/13/2015	--	--	--	--	1.1	ND<0.54 / ND<0.61 / 1.6 / 4.6
B30	B30-GW	18.1	11/13/2015	--	--	--	--	ND<2.1	<b>110 / ND&lt;2.1 / 360 / 518.2</b>
B32 <sup>2,4</sup>	B32-GW	12.5	11/13/2015	70 <sup>3</sup>	--	ND<0.14	ND<0.57	ND<0.23	ND<0.17 / ND<0.19 / 0.25 / 1.07
B34 <sup>2,5</sup>	B34-GW	18.7	11/13/2015	--	--	--	ND<2.0 <sup>6</sup>	11	<b>830 / 170 / 960 / 3260</b>
SF Bay RWQCB December 2013 ESL				500	NC	640	640	1800	27 / 130 / 43 / 100

**TABLE NOTES:**

TPH-G = total petroleum hydrocarbons (TPH) as gasoline (EPA Method 8015M or 8260B)

TPH-D = total petroleum hydrocarbons (TPH) as diesel fuel (EPA Method 8015M)

TPH-MO = total petroleum hydrocarbons (TPH) as motor oil (EPA Method 8015M); Oil & Grease

TEPH = total extractable petroleum hydrocarbons [SM 5520 E&F + EPA 1664 (Silica Gel Treated Hexane; B10 only)]

B/T/E/X = benzene, toluene, ethylbenzene, total xylenes (EPA Method 8020 or 8260B)

MTBE = methyl tertiary-butyl ether (EPA Method 8020 or 8260B)

fbg = feet below grade

ug/L = micrograms per liter

NM = not measured

-- = not analyzed for this constituent; ND = concentration below associated laboratory reporting limit

<sup>1</sup> = the reporting limits increased due to insufficient amount of sample supplied (1 Voa only with sediment)

<sup>2</sup> = the reporting limits increased due to nature of sample matrix (sediment in Voa) and/or limited sample volume

<sup>3</sup> = Does not match pattern of reference gasoline standard; Hydrocarbons in the range of C5-C12 quantified as gasoline

<sup>4</sup> = sample also analyzed for Polycyclic Aromatic Hydrocarbons (PAHs; EPA 8270C): All concentrations ND below Method Detection Limit (MDL)

<sup>5</sup> = sample also analyzed for Polycyclic Aromatic Hydrocarbons (PAHs; EPA 8270C): All concentrations ND below MDL, except for Naphthalene (13 ug/L)

<sup>6</sup> = TPH as Hydraulic Oil

Results shown in **BOLD** Type represent concentrations exceeding applicable ESL

SF Bay RWQCB/ESL = San Francisco Bay Regional Water Quality Control Board's Interim Final - December 2013, Environmental Screening Level at a residential or commercial land use permitted site with groundwater that is **Not** a potential source of drinking water.

**TABLE 2B**  
**Historical Results of Grab Groundwater Volatile Organic Compound Analysis**  
**5930 College Avenue, Oakland, CA**

Sample Location	Sample ID	Sample Depth (fbg)	Sample Date	IPB (ug/L)	n-PB (ug/L)	1,3,5-TMB (ug/L)	1,2,4-TMB (ug/L)	Sec-BB (ug/L)	n-BB (ug/L)	Naphthalene (ug/L)	MIBK (ug/L)	TCE (ug/L)	MC (ug/L)	cis-1,2-DCE (ug/L)	PCE (ug/L)
<i>Soil &amp; Groundwater Investigation - October 2002</i>															
B10	B10-W	13.85	11/1/2002	74	230	1610	441	ND<50	ND<50	765	ND<500	ND<100	ND<5000	ND<50	ND<50
<i>Site Characterization - April-July 2005</i>															
B12	B12-W	NM	5/2/2005	61200	236000	430000	1270000	28600	ND<10000	305000	ND<10000	ND<5000	ND<250000	ND<10000	ND<5000
B21	B21-W	15	6/22/2005	ND<1000	ND<5000	ND<5000	ND<5000	ND<5000	ND<5000	ND<5000	ND<20000	ND<500	ND<5000	ND<500	ND<500
B23	B23-W	6.9	7/11/2005	ND<50	ND<250	ND<250	320	ND<250	ND<250	ND<250	ND<1000	ND<25	ND<250	ND<25	ND<25
<i>Soil &amp; Groundwater Investigation - August/October 2013</i>															
CPT-1	CPT-1B-GW <sup>1</sup>	6.5	9/27/2013	--	--	--	--	--	--	810	--	--	--	--	--
<i>Data Gap Investigation - November 2015</i>															
B28	B28-GW	18.1	11/13/2015	47	140	ND<4.2	800	9.3	40	91	--	ND<4.2	ND<42	9.3	ND<4.2
B29 <sup>2</sup>	B29-GW	18.95	11/13/2015	ND<0.41	ND<0.33	ND<0.31	1.1	ND<0.39	ND<0.34	ND<0.57	--	ND<0.54	ND<0.97	0.84	44
B30	B30-GW	18.1	11/13/2015	24	80	100	370	7.5	26	21	--	ND<2.1	ND<2.1	34	ND<2.1
B32 <sup>3,4</sup>	B32-GW	12.5	11/13/2015	ND<0.13	ND<0.10	0.31	0.33	ND<0.12	ND<0.11	ND<0.18	--	ND<0.17	ND<0.30	ND<0.25	ND<0.19
B34 <sup>5</sup>	B34-GW	18.7	11/13/2015	41	120	190	650	6.5	27	88	--	ND<4.2	ND<42	ND<4.2	ND<4.2
SF Bay RWQCB December 2013 ESL				NC	NC	NC	NC	NC	NC	24	170	130	2,200	590	63

**TABLE NOTES:**

ug/L = micrograms per liter

NC = no criteria established for this constituent

-- not analyzed for this constituent

fbg = feet below grade surface

NM = not measured

IPB = Isopropylbenzene

n-PB = n-Propylbenzene

1,3,5-TMB = 1,3,5-Trimethylbenzene

1,2,4-TMB = 1,2,4-Trimethylbenzene

Sec-BB = Sec-Butylbenzene

n-BB = n-Butylbenzene

MIBK = Methyl Isobutyl Ketone

TCE = Trichloroethene

MC = Methylene Chloride

cis-1,2-DCE = cis-1,2-Dichloroethene

PCE = Perchloroethene or Tetrachloroethene

<sup>1</sup> = Sample additionally analyzed for Tert-Butanol (ND<42), 1,2-Dichloroethane (ND<4.2), 1,2-Dibromothane (ND<4.2); See Table 2A for BTEX & MTBE Results

<sup>2</sup> = the reporting limits increased due to insufficient amount of sample supplied (1 Voa only with sediment)

<sup>3</sup> = the reporting limits increased due to nature of sample matrix (sediment in Voa) and/or limited sample volume

<sup>4</sup> = sample also analyzed for Polycyclic Aromatic Hydrocarbons (PAHs; EPA 8270C): All concentrations ND below Method Detection Limit (MDL)

<sup>5</sup> = sample also analyzed for Polycyclic Aromatic Hydrocarbons (PAHs; EPA 8270C): All concentrations ND below MDL, except for Naphthalene (13 ug/L)

SF Bay RWQCB/ESL = San Francisco Bay Regional Water Quality Control Board's Interim Final - December 2013, Environmental Screening Level at a residential or commercial land use permitted site with groundwater that is **Not** a potential source of drinking water.



**TABLE 2C**  
**Results of Grab Groundwater Sample Analysis for LUFT 5 Metals**  
**5930 College Avenue, Oakland, CA**

Sample Location	Sample ID	Sample Depth (fbg)	Sample Date	Cadmium (ug/L)	Chromium (ug/L)	Lead (ug/L)	Nickel (ug/L)	Zinc (ug/L)
<i>Soil &amp; Groundwater Investigation - October 2002</i>								
B10	B10-W	13.85	11/1/2002	ND<0.5	0.28	0.26	0.33	0.41
<i>Site Characterization - April-July 2005</i>								
B12	B12-W	NM	5/2/2005	17.4	9.51	106	30.7	100
B21	B21-W	15	6/22/2005	38	1400	75	1500	1900
B23	B23-W	6.9	7/11/2005	ND<2	ND<5	10	13	32
B23**	B23-W	6.9	7/11/2005	ND<2	ND<5	ND<5	11	30
SF Bay RWQCB December 2013 ESL				0.25	180	2.5	8.2	81

**TABLE NOTES:**

Cadmium, Chromium (Total), Lead, Nickel, and Zinc analyzed by EPA Method 6010B

ug/L - micrograms per liter

fbg - feet below grade

NM = not measured

\*\* Results from filtered field sample

SF Bay RWQCB/ESL = San Francisco Bay Regional Water Quality Control Board's Interim Final - December 2013, Environmental Screening Level at a residential or commercial land use permitted site with groundwater that is **Not** a potential source of drinking water.

**TABLE 3A**  
**Historical Groundwater Levels & Hydrocarbon Analytical Results**  
**5930 College Avenue, Oakland, CA**

Well ID	Sample Date	Casing Elevation (ft, MSL)	Depth to GW (ft, TOC)	Water Elevation (ft, MSL)	Product Odor/ Sheen	TPH-G (ug/L)	TPH-D (ug/L)	MTBE (ug/L)	BTEX (ug/L)	Naphthalene (ug/L)	
MW-1	6/1/98	50.00 *	4.81	45.19	slight sheen	160000	NA	1900	28000 / 21000 / 3800 / 21000	NA	
	9/10/98	50.00 *	7.5	42.5	Odor	290000	NA	440	<50 / 25000 / 7100 / 32000	NA	
	10/7/99	50.00 *	10.04	39.96	Odor	85000	NA	1100	20000 / 13000 / 3800 / 17000	NA	
	1/26/00	50.00 *	8.26	41.74	slight sheen	130000	NA	470	25000 / 18000 / 4500 / 22000	NA	
	10/25/00	50.00 *	10.1	39.9	Odor	130000	NA	1300	23000 / 12000 / 3900 / 18000	NA	
	2/2/01	50.00 *	9.61	40.39	Odor	128000	NA	780	19000 / 11000 / 3800 / 18000	NA	
	4/25/01	195.9	7.39	188.51	Odor	120000	NA	900	21000 / 13000 / 390 / 18000	NA	
	7/10/01		9.72	186.18	Odor	79000	NA	660	15000 / 7800 / 3000 / 15000	NA	
	10/8/01		10.88	185.02	Odor/sheen	112000	NA	374	25300 / 11800 / 4280 / 20600	NA	
	1/7/02		4.34	191.56	Odor	96100	NA	596	21100 / 13500 / 4160 / 21900	NA	
	4/8/02		6.84	189.06	slight odor	111000	NA	679	21200 / 13400 / 4230 / 21000	NA	
	7/9/02		9.4	186.5	slight odor	110000	NA	570	20300 / 13300 / 4060 / 19800	NA	
	10/23/02		11.04	184.86	None	54100	NA	1010 (1080)**	10800 / 3870 / 2320 / 9440	NA	
	10/15/03		10.8	185.1	None	90700	NA	724	17800 / 4740 / 3150 / 13900	NA	
	2/2/04		7.35	188.55	None	108000	NA	194	14200 / 7420 / 3450 / 19800	NA	
	4/23/04		6.83	189.07	slight odor	49200	NA	114	7910 / 1480 / 1810 / 10100	NA	
	7/19/04		8.95	186.95	Odor	63900	NA	303	7260 / 2270 / 2510 / 10100	NA	
	10/22/04		10.15	185.75	None	80700	NA	493 (296)**	13900 / 1670 / 3550 / 15200	NA	
	1/21/05		5.45	190.45	Odor	278000	NA	271 (174)**	14700 / 25300 / 10800 / 73500	NA	
	4/14/05		5.3	190.6	Odor /sheen	116000	NA	366 (410)**	15100 / 7080 / 4220 / 20700	NA	
	7/26/05		7.6	188.3	Odor	82000	NA	ND<250	12000 / 4500 / 3300 / 14000	NA	
	10/14/05		9.58	186.32	Odor/sheen	64000	NA	ND<250	13000 / 5700 / 3400 / 16000	NA	
	1/13/06		4.6	191.3	Odor/sheen	49000	NA	ND<250	12000 / 5300 / 3500 / 17000	NA	
	4/14/06		3.08	192.82	Odor	51000	NA	270	14000 / 5300 / 3500 / 17000	NA	
	10/26/06		9.22	186.68	Odor	34000	NA	ND<250	12000 / 1600 / 3100 / 8600	NA	
	1/30/07		9.6	186.3	Odor	39000	NA	ND<200	10000 / 2200 / 2900 / 10000	NA	
	4/13/07		9.24	186.66	NM	52000	NA	150	9100 / 2600 / 3100 / 11000	NA	
	7/24/07		10.67	185.23	None	46000	NA	240	10000 / 1200 / 3500 / 6200	NA	
	4/21/08		7.24	188.66	None	50000	NA	ND<100	7800 / 1500 / 3000 / 12000	NA	
	7/22/08		9.71	186.19	Odor	60000	NA	470 <sup>1</sup>	8100 / 1500 / 2700 / 9800	NA	
	10/21/08		11.63	184.27	Odor	15000	NA	110	4900 / 430 / 1900 / 2260	NA	
	1/19/09		10.91	184.99	Odor/Sheen	33000	NA	143	8830/837/2160/3880	NA	
	4/27/09		7.7	188.2	Odor	75000	NA	53	8500/2100/2300/11000	NA	
	10/27/09		9.34	186.56	Odor	61000	NA	75	8300/1500/2600/7900	NA	
	10/14/10		10.3	185.6	Clear/Odor	24000 <sup>2</sup>	NA	220	8100/820/2200/4400	NA	
	6/9/11		6.38	189.5	Clear/Odor	53000	NA	NA	14000/3000/3800/16900	NA	
	10/7/11		9.08	186.82	None	50000 <sup>2</sup>	NA	89	9200/1500/4200/13500	NA	
	10/16/13		10.83	185.07	Clear	12000 <sup>2</sup>	NA	ND<21	2400/330/1500/2780	NA	
	4/4/14		10.92	184.98	Clear	25000 <sup>6</sup>	3000 <sup>7,8</sup>	ND<21	3000/480/2100/6700	500 <sup>9</sup>	
	10/20/14		11.2	184.7	Clear/Odor	18000 <sup>2</sup>	2000 <sup>7,8</sup>	63	5600/300/2000/910	300 <sup>9</sup>	
5/13/15	9.33		186.57	Clear/Odor	20000	2600 <sup>7,8</sup>	57	2700/340/1600/2760	360 <sup>9</sup>		
11/11/15	12.42		183.48	Clear/Odor	14000 <sup>5</sup>	4100 <sup>7,8</sup>	49	3900/91/750/288.5	130 <sup>9</sup>		
SF Bay RWQCB December 2013 ESL						500	640	1800	27 / 130 / 43 / 100	24	

Table & Notes Following

**TABLE 3A (Cont.)**  
**Historical Groundwater Levels & Hydrocarbon Analytical Results**  
**5930 College Avenue, Oakland, CA**

Well ID	Sample Date	Casing Elevation (ft, MSL)	Depth to GW (ft, TOC)	Water Elevation (ft, MSL)	Product Odor/ Sheen	TPH-G (ug/L)	TPH-D (ug/L)	MTBE (ug/L)	BTEX (ug/L)	Naphthalene (ug/L)	
MW-2	10/7/99	51.42*	11.49	39.93	slight/odor	18000	NA	490	3000 / 1700 / 1000 / 3900	NA	
	1/26/00	51.42*	7.85	43.57	None	42000	NA	560	9300 / 2200 / 2300 / 7700	NA	
	10/25/00	51.42*	11.57	39.85	slight/odor	31000	NA	500	5500 / 370 / 1700 / 2600	NA	
	2/2/01	51.42*	10.77	40.65	Odor	36000	NA	400	4300 / 530 / 1800 / 4500	NA	
	4/25/01	197.28	8.52	188.76	Odor	56000	NA	460	6700 / 1700 / 2600 / 8200	NA	
	7/10/01		11.05	186.23	Odor	39000	NA	180	6200 / 730 / 2300 / 6100	NA	
	10/8/01		12.79	184.49	Odor/sheen	40700	NA	6460	6310 / 399 / 2100 / 5320	NA	
	1/7/02		4.92	192.36	Odor	59600	NA	366**	10300 / 3250 / 4180 / 14400	NA	
	4/8/02		8.4	188.88	slight odor	66700	NA	583**	10200 / 2670 / 3840 / 13200	NA	
	7/9/02		10.55	186.73	slight odor	37100	NA	303 (298)**	5340 / 890 / 2110 / 6920	NA	
	10/23/02		13.85	183.43	None	13300	NA	322 (360)**	2420 / 216 / 922 / 1470	NA	
	10/15/03		12.38	184.9	None	11300	NA	264 (322)**	2660 / 51 / 1180 / 1220	NA	
	2/2/04		8.8	188.48	None	21700	NA	168 (200)**	2130 / 51 / 1030 / 2060	NA	
	4/23/04		8.4	188.88	Slight odor	30400	NA	112 (203)**	3570 / 322 / 1620 / 4140	NA	
	7/19/04		10.3	186.98	Odor	28300	NA	283 (373)**	2540 / 239 / 1320 / 2300	NA	
	10/22/04		10.25	187.03	Mod odor	13500	NA	273 (229)**	1790 / 54 / 892 / 915	NA	
	1/21/05		6.65	190.63	Mod odor	278000	NA	161 (163)**	5980 / 1030 / 2890 / 9070	NA	
	4/14/05		8.7	188.58	None	46100	NA	155 (150)**	5170 / 787 / 2530 / 6010	NA	
	7/26/05		8.95	188.33	Mod odor	41000	NA	ND (ND)**	5600 / 550 / 2600 / 4600	NA	
	10/14/05		10.92	186.36	Odor/sheen	13000	NA	130	2900 / 100 / 1300 / 1200	NA	
	1/13/06		5.48	191.8	Odor	20000	NA	ND<100	4900 / 490 / 2400 / 4200	NA	
	4/14/06		3.61	193.67	Odor	21000	NA	ND<100	4000 / 740 / 2300 / 5100	NA	
	10/26/06		10.58	186.7	Odor	8200	NA	68	1400 / 51 / 840 / 500	NA	
	1/30/07		10.98	186.3	Odor	17000	NA	62	3200 / 150 / 2200 / 1800	NA	
	4/13/07		10.54	186.74	NM	19000	NA	57	2000 / 85 / 1300 / 1100	NA	
	7/24/07		12.04	185.24	None	10000	NA	84	1300 / 41 / 710 / 270	NA	
	4/21/08		8.01	189.27	None	17000	NA	48	1800 / 100 / 1400 / 1300	NA	
	7/22/08		11.12	186.16	None	16000	NA	100 <sup>1</sup>	1900 / 98 / 1600 / 741	NA	
	10/21/08		13.11	184.17	Odor/sheen	4900	NA	65	700 / 20 / 370 / 52	NA	
	1/19/09		12.31	184.97	Odor	2500	NA	90	167/8.49/114/50.3	NA	
	4/27/09		9.01	188.27	Odor/sheen	21000	NA	ND<0.5	1700/130/1100/1800	NA	
	10/27/09		10.52	186.76	Odor	7000	NA	ND<0.5***	510/19/330/160	NA	
	10/14/2010		11.56	185.72	None	3200 <sup>2</sup>	NA	35	460/16/230/110	NA	
	6/9/2011		7.67	189.61	Clear/Odor	9900	NA	NA	1900/75/1100/1013	NA	
	10/7/2011		10.42	186.86	Clear/Odor	9200 <sup>4</sup>	NA	ND<22	810/34/610/100	NA	
	10/16/2013		12.18	185.1	Clear/Odor	4400 <sup>2,5</sup>	NA	ND<4.2	780/33/200/39.8	NA	
	4/14/2014		12.34	C55-D88	Clear/Odor	6100 <sup>2</sup>	2500 <sup>7,8</sup>	ND<2.1	530/270/19/47.6	86 <sup>9</sup>	
	10/20/2014		12.54	184.74	Clear/Odor	8600 <sup>2</sup>	3700 <sup>7,8</sup>	15	140/5.6/73/20.9	24 <sup>9</sup>	
	5/13/2015		10.48	186.8	Clear/Odor	4800 <sup>2</sup>	2300 <sup>7,8</sup>	7.7	220/10/96/38	30 <sup>9</sup>	
	11/11/15		11.11	183.09	Clear/Odor	3100 <sup>2</sup>	2100 <sup>7,8</sup>	7.2	220/7.1/38/15	ND<11 <sup>9</sup>	
SF Bay RWQCB December 2013 ESL						500	640	1800	27 / 130 / 43 / 100	24	

Table & Notes Following

**TABLE 3A (Cont.)**  
**Historical Groundwater Levels & Hydrocarbon Analytical Results**  
**5930 College Avenue, Oakland, CA**

Well ID	Sample Date	Casing Elevation (ft, MSL)	Depth to GW (ft, TOC)	Water Elevation (ft, MSL)	Product Odor/ Sheen	TPH-G (ug/L)	TPH-D (ug/L)	MTBE (ug/L)	BTEX (ug/L)	Naphthalene (ug/L)
MW-3	10/7/99	49.39*	9.67	39.72	None	6600	NA	390	310 / 110 / 430 / 1000	NA
	1/26/00	49.39*	5.4	43.99	None	3300	NA	40	110 / 8 / 100 / 32	NA
	10/25/00	49.39*	9.24	40.15	Slight odor	4500	NA	ND	100 / 2 / 120 / 130	NA
	2/2/01	49.39*	8.73	40.66	Slight odor	2900	NA	35	35 / 3 / 160 / 298	NA
	4/25/01	195.22	6.61	188.61	Slight odor	8400	NA	56	260 / 33 / 290 / 510	NA
	7/10/01		8.85	186.37	Slight odor	12000	NA	35	39 / 10 / 690 / 1600	NA
	10/8/01		9.75	185.47	Odor/sheen	4913	NA	52	108 / 4 / 99 / 133	NA
	1/7/02		4.25	190.97	Odor/sheen	7260	NA	81.7**	723 / 138 / 492 / 887	NA
	4/8/02		6.33	188.89	Odor	11700	NA	ND**	540 / 108 / 706 / 1710	NA
	7/9/02		8.56	186.66	Odor	2320	NA	28.3 (20)**	37.1 / 4.7 / 98.5 / 187	NA
	10/23/02		10.02	185.2	Odor/sheen	2830	NA	ND (ND)**	46.8 / 4.7 / 43.6 / 65.5	NA
	10/15/03		9.8	185.42	Odor/sheen	3040	NA	ND (ND)**	91.3 / 8.4 / 69.9 / 148	NA
	2/2/04		6.85	188.37	Odor/sheen	5140	NA	ND (ND)**	126 / 8.7 / 134 / 238	NA
	4/23/04		6.17	189.05	None	7210	NA	ND (ND)**	227 / 39.5 / 448 / 879	NA
	7/19/04		8.25	186.97	Slight odor	9860	NA	ND (ND)**	20.4 / 3.2 / 30.6 / 117	NA
	10/22/04		9.25	185.97	None	7420	NA	96 (21)**	152 / 12.8 / 267 / 480	NA
	1/21/05		5.22	190	Slight odor	2420	NA	ND (ND)**	111 / 11.4 / 139 / 265	NA
	4/14/05		6.64	188.58	Odor/sheen	5130	NA	54 (41.4)**	357 / 19.4 / 287 / 510	NA
	7/26/05		6.9	188.32	None	9800	NA	ND (21)**	200 / 23 / 220 / 360	NA
	10/14/05		8.83	186.39	Odor/sheen	6100	NA	ND	76 / 19 / 170 / 350	NA
	1/13/06		4.61	190.61	Odor	3900	NA	24	380 / 17 / 230 / 300	NA
	4/14/06		3.41	191.81	Odor	5000	NA	69	760 / 44 / 230 / 190	NA
	10/26/06		8.57	186.65	Odor	3100	NA	17	120 / 9.8 / 55 / 54	NA
	1/30/07		8.83	186.39	Odor	4500	NA	ND<10	90 / 7.6 / 75 / 44	NA
	4/13/07		8.57	186.65	NM	2800	NA	ND<5	55 / 4.9 / 19 / 6.1	NA
	7/24/07		9.98	185.24	None	4800	NA	ND<5	140 / 8.3 / 66 / 22	NA
	4/21/08		9.3	185.92	None	4300	NA	ND<5	200 / 11 / 30 / 14	NA
	7/22/08		9.05	186.17	None	2400	NA	53 <sup>1</sup>	140 / 13 / 26 / 18.5	NA
	10/21/08		11.12	184.1	Slight Odor	2900	NA	2.2	170 / 9.2 / 99 / 25.8	NA
	1/19/09		10.29	184.93	Odor	3600	NA	ND<0.5	148/6.73/24.5/22.1	NA
	4/27/09		7.15	188.07	Odor/sheen	5800	NA	8.8	370/12/82/84	NA
	10/27/09		8.96	186.26	Odor	4900 <sup>2</sup>	NA	ND<0.5***	130/8.5/89/130	NA
	10/14/2010		9.76	185.46	None	2700 <sup>2</sup>	NA	ND<4.4	270/11/290/399.2	NA
6/9/2011	5.92		189.3	Clear/Odor	3200 <sup>2</sup>	NA	NA	220/ND<4.4/37/20	NA	
10/7/2011	8.6		186.62	None	5400 <sup>2</sup>	NA	ND<4.4	140/7.0/160/67	NA	
10/16/2013	10.56		184.66	Lt. Gray/Odor	3400 <sup>2</sup>	NA	ND<4.2	990/58/75/71	NA	
4/14/2014	11.07		184.15	Clear	3600 <sup>2</sup>	700 <sup>7,8</sup>	ND<1.1	400/22/24/13.3	4.0 <sup>9</sup>	
10/20/2014	10.09	185.13	Clear/Odor	9200 <sup>2</sup>	25000 <sup>7,8</sup>	9.2	180/8.4/21/11	ND<2.1 <sup>9</sup>		
5/13/2015	8.89	186.33	Clear	2600 <sup>2</sup>	630 <sup>7,8</sup>	6.1	110/6.1/7.4/ND<8.4	ND<8.4 <sup>9</sup>		
11/11/15	11.89	183.33	Clear/Odor	4100 <sup>2</sup>	760 <sup>7,8</sup>	9.5	660/21/250/52	ND<8.4 <sup>9</sup>		
SF Bay RWQCB December 2013 ESL						500	640	1800	27 / 130 / 43 / 100	24

Table & Notes Following

**TABLE 3A (Cont.)**  
**Historical Groundwater Levels & Hydrocarbon Analytical Results**  
**5930 College Avenue, Oakland, CA**

Well ID	Sample Date	Casing Elevation (ft, MSL)	Depth to GW (ft, TOC)	Water Elevation (ft, MSL)	Product Odor/ Sheen	TPH-G (ug/L)	TPH-D (ug/L)	MTBE (ug/L)	BTEX (ug/L)	Naphthalene (ug/L)
PW-1	4/14/05	197.17	6.4	190.77	None	3360	NA	ND (ND**)	62.8 / 6.7 / 79.5 / 317	NA
	7/26/05		8.63	188.54	None	1300	NA	ND (ND**)	22 / ND / 48 / 110	NA
	10/14/05		10.71	186.46	None	4300	NA	ND	93 / 1.2 / 100 / 140	NA
	1/13/06		4.87	192.3	None	450	NA	ND<2.0	10 / ND / 37 / 72	NA
	4/14/06		2.27	194.9	Odor	120	NA	ND<2.0	2.3 / ND<1.0 / 3.5 / 9.3	NA
	10/26/06		10.3	186.87	Odor	2800	NA	ND<10	61 / ND<5.0 / 130 / 34	NA
	1/30/07		10.8	186.37	Odor	1200	NA	ND<2	22 / ND<1.0 / 100 / 200	NA
	4/13/07		10.31	186.86	NM	510	NA	ND<1	6 / ND<0.5 / 30 / 56	NA
	7/24/07		11.81	185.36	None	3400	NA	ND<5	63 / ND<2.5 / 180 / 5.6	NA
	4/21/08		9.08	188.09	None	300	NA	ND<1	3 / ND<0.5 / 16 / 26	NA
	7/22/08		9.83	187.34	None	710	NA	3.1 <sup>1</sup>	9.3 / 1.2 <sup>1</sup> / 49 / 67.86	NA
	10/21/08		12.9	184.27	None	1500 <sup>2</sup>	NA	1	20 / ND<0.5 / 57 / 20	NA
	1/19/09		12.11	185.06	Odor/sheen	1100 <sup>2</sup>	NA	ND<0.5	12.3/ND<0.5/30.8/9.20	NA
	4/27/2009		8.69	188.48	None	360 <sup>3</sup>	NA	ND<0.5	2.7/ND<0.5/12/18	NA
	10/27/2009		10.32	186.85	None	1100 <sup>2</sup>	NA	ND<0.5	12/ND<0.5/36/34	NA
	10/14/2010		11.38	185.79	None	860 <sup>3</sup>	NA	ND<0.5	8.8/.55/44/44	NA
	6/9/2011		7.43	189.74	None	96 <sup>3</sup>	NA	ND<0.5	ND<0.5/ND<0.5/3.1/2.5	NA
	10/7/2011		9.79	187.38	None	260 <sup>5</sup>	NA	ND<0.5	ND<0.5/ND<0.5/5.9/4.5	NA
	10/16/2013		11.91	185.26	Clear	150 <sup>2,5</sup>	NA	ND<0.5	0.87/ND<0.5/ND<0.5/ND≤1.0	NA
	4/14/2014		12.14	185.03	Clear	ND<50	ND<0.1 <sup>8</sup>	ND<0.5	ND<0.5/ND<0.5/ND<0.5/ND≤1.0	ND<0.5 <sup>9</sup>
10/20/2014	12.28	184.89	Clear	380 <sup>2</sup>	140 <sup>7,8</sup>	ND<0.5	2.4/ND<0.5/11/4.0	2.3 <sup>9</sup>		
5/13/2015	10.06	187.11	Clear	72 <sup>2</sup>	ND<0.1 <sup>7,8</sup>	ND<0.5	ND<0.5/ND<0.5/ND<0.5/ND≤1.0	ND<1.0 <sup>9</sup>		
11/11/15	14.02	183.15	Clear	520 <sup>2</sup>	140 <sup>7,8</sup>	ND<0.5	3.8/ND<0.5/0.55/ND≤1.0	ND<1.0 <sup>9</sup>		
SF Bay RWQCB December 2013 ESL						500	640	1800	27 / 130 / 43 / 100	24

**Table Notes:**

ft, MSL = feet Above Mean Sea Level

TOC = Top of Well Casing

GW = Depth to Groundwater in feet Below TOC

TPH-G = Total Petroleum Hydrocarbons as Gasoline

MTBE = Methyl Tertiary Butyl Ether

BTEX = Benzene / Toluene / Ethylbenzene / Total Xylenes

ug/L = micrograms per liter

ND = Not detected above laboratory reporting limit

<sup>1</sup> = Presence confirmed, but Relative Percentage Difference (RPD) between columns exceeds 40%

<sup>2</sup> = Sample exhibit chromatographic pattern that does not resemble standard; See laboratory report for additional information

<sup>3</sup> = Although TPH-gas compounds are present, value is elevated due to discrete peak (PCE) within C5-C12 range quantified as gasoline

<sup>4</sup> = Reported value is elevated due to contribution from heavy end hydrocarbons within C5-C12 range quantified as gasoline

<sup>5</sup> = Result is elevated due to contribution from heavy end hydrocarbons and discrete peak of non-fuel compound within C5-C12 range quantified as gasoline

<sup>6</sup> = Reported TPH value includes amount due to discrete peak (See 8260B results - elevated aromatic compounds)

<sup>7</sup> = Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range lighter than diesel quantified as diesel.

<sup>8</sup> = Sample also analyzed for TPH as Motor Oil (EPA Method SW8015B); See Lab Report for Sample Results

<sup>9</sup> = Sample also analyzed for Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method SW8270C; See Lab Report for Sample Results

\* = Arbitrary datum point with assumed elevation of 50 ft used prior to MSL survey on 4/ 25/01

\*\* = Concentration confirmed by EPA Method 8260

\*\* = Sample also analyzed for other Fuel oxygenates (EPA Method 8260); All results ND (See Lab Report)

SF Bay RWQCB/ESL = San Francisco Bay Regional Water Quality Control Board's Interim Final - December 2013, Environmental Screening Level at a residential or commercial/industrial use permitted sites with groundwater that Is Not a potential source of drinking water.

**Well Construction Data:**

Well #	Total Depth (ft, TOC)	Screen Interval (ft)	Installation Date
MW-1	14.5	5 to TD	5/20/1998
MW-2	19.6	5 to TD	10/2/1999
MW-3	19	5 to TD	10/2/1999
PW-1	19.8	5 to TD	4/5/2005

**TABLE 3B**  
**Historical Groundwater VOC Analytical Results in PW-1**  
**5930 College Avenue, Oakland, CA**

Well ID	Sample Date	Casing Elevation (ft, MSL)	Depth to GW (ft, TOC)	Water Elevation (ft, MSL)	IPB (ug/L)	n-PB (ug/L)	1,3,5-TMB (ug/L)	1,2,4-TMB (ug/L)	Sec-BB (ug/L)	n-BB (ug/L)	Naphthalene (ug/L)	TCE (ug/L)	MC (ug/L)	cis-1,2-DCE (ug/L)	Vinyl Chloride (ug/L)	PCE (ug/L)	
PW-1	4/14/05	197.17	6.4	190.77	11	22	110	100	ND,10	ND<10	43	3.3	ND<25	12	ND<0.5	84.9	
	7/26/05		8.63	188.54	7.3	17	37	100	ND<10	ND<10	43	ND<1	ND<10	7	ND<1	48	
	10/14/05		10.71	186.46	28	72	67	120	12	17	43	4.1	ND<40	29	ND<1	25	
	1/13/06		4.87	192.3	ND<20	ND<10	ND<10	37	ND<10	ND<10	ND<10	1.4	ND<40	5	ND<1	95	
	4/14/06		2.27	194.9	ND<2	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	1.1	ND<40	2.8	ND<1	68	
	10/26/06		10.3	186.87	ND<10	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	6.2	ND<200	32	ND<5.0	26
	1/30/07		10.8	186.37	ND<2	23	31	120	ND<10	ND<10	18	ND<1	ND<40	11	ND<1	29	
	4/13/07		10.31	186.86	2.4	6.1	7	30	ND<5	ND<5	6.8	0.84	ND<20	4.7	ND<0.5	64	
	7/24/07		11.81	185.36	ND<5.0	60	ND<25	ND<25	ND<25	ND<25	ND<25	ND<2.5	ND<100	58	ND<2.5	50	
	4/21/08		9.08	188.09	1.1	ND<5	ND<5	15	ND<5	ND<5	ND<5	0.88	ND<20	3.7	ND<0.5	91	
	7/22/08		9.83	187.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/21/08		12.9	184.27	17	14	5	15	9.4	14	5.1	6.2	ND<10	56	0.6	44	
	4/27/09		8.69	188.48	1.2	3.3	3.4	16	ND<0.5	ND<0.5	ND<1.0	1.4	ND<5.0	4	ND<0.5	120	
	10/27/09		10.32	186.85	6	4.8	ND<0.5	15	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<5.0	35	ND<0.5	78	
	10/14/10		11.38	185.79	9.8	15	12	44	4.4	ND<0.5	4	5	ND<5.0	61	ND<0.5	35	
	6/9/11		7.43	189.74	0.55	1.7	0.98	3.7	ND<0.5	ND<0.5	ND<1.0	0.85	ND<5.0	1.4	ND<0.5	86	
	10/7/11		9.79	187.38	0.79	1.8	0.99	3.8	ND<0.5	0.68	1.2	0.63	ND<5.0	2	ND<0.5	76	
	10/16/13		11.91	185.26	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	2.7	ND<5.0	12	ND<0.5	45	
	4/14/14		12.14	185.03	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	1.4	ND<5.0	3.3	ND<0.5	110	
	10/20/14		12.28	184.89	1.8	2.9	1	2.3	1.6	ND<0.5	2.3	6.4	ND<5.0	33	ND<0.5	36	
5/13/15	10.06	187.11	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	2.6	ND<5.0	2.6	ND<0.5	93			
11/11/15	14.02	183.15	0.92	ND<0.5	ND<0.5	ND<0.5	2.1	ND<0.5	ND<1.0	11	ND<5.0	43	ND<0.5	39			
<b>SF Bay RWQCB December 2013 ESL</b>					<b>NC</b>	<b>NC</b>	<b>NC</b>	<b>NC</b>	<b>NC</b>	<b>NC</b>	<b>24</b>	<b>130</b>	<b>2200</b>	<b>590</b>	<b>1.8</b>	<b>63</b>	

**Table Notes:**

ft, MSL = feet Above Mean Sea Level  
 TOC = Top of Well Casing  
 GW = Depth to Groundwater in feet Below TOC  
 VOC = Volatile Organic Compounds  
 IPB = Isopropylbenzene  
 n-PB = n-Propylbenzene  
 1,3,5-TMB = 1,3,5-Trimethylbenzene  
 1,2,4-TMB = 1,2,4-Trimethylbenzene  
 sec-BB = sec-Butylbenzene  
 n-BB = n-Butylbenzene  
 TCE = Trichloroethene  
 MC = Methylene Chloride  
 cis-1,2-DCE = cis-1,2-Dichloroethene  
 PCE = Perchloroethene or Tetrachloroethene  
 ug/l = micrograms per liter  
 ND = Not detected above laboratory reporting limit  
 NC = No Criteria Listed  
 NA = Not Analyzed  
 SF Bay RWQCB/ESL =

San Francisco Bay Regional Water Quality Control Board's Interim Final - December 2013, Environmental Screening Level at a residential or commercial/industrial use permitted sites with groundwater that Is Not a potential source of drinking water.

**Well Construction Data:**

Well #	Total Well Depth (ft, TOC)	Screen Interval (ft)	Installation Date
PW-1	19.8	5 to TD	4/5/2005

**TABLE 4A**  
**Historical Results of Soil Gas Sample Analysis - TPH-Gas & VOCs**  
**5930 College Avenue, Oakland, CA**

Sample Location	Sample ID	Sample Purge Volume (ml)	Sample Depth (fbg)	Sample Date	TPH-Gas (ug/m3)	Toluene (ug/m3)	Ethylbenzene (ug/m3)	Total Xylenes (ug/m3)	4-ET (ug/m3)	1,3,5-TMB (ug/m3)	1,2,4-TMB (ug/m3)	Acetone (ug/m3)	IPA (ug/m3)	TBA (ug/m3)	Naphthalene (ug/m3)	PCE (ug/m3)
<b>Soil Gas Investigation - August/October 2013</b>																
SG-1	SG-1-3V	970	4	8/26/2013	ND<1000	ND<200	ND<100	ND<200	--	--	--	--	--	--	--	ND<100
SG-2	SG-2-1V	270	5	8/26/2013	ND<1000	ND<200	ND<100	ND<200	--	--	--	--	--	--	--	ND<100
	SG-2-3V	810	5	8/26/2013	ND<1000	ND<200	ND<100	ND<200	--	--	--	--	--	--	--	ND<100
SG-3	SG-2-10V	2,700	5	8/26/2013	ND<1000	ND<200	ND<100	ND<200	--	--	--	--	--	--	--	ND<100
	SG-3-3V	810	5	8/26/2013	ND<1000	ND<200	ND<100	ND<200	--	--	--	--	--	--	--	<b>580</b>
	SG-3-3V DUP	810	5	8/26/2013	ND<1000	ND<200	ND<100	ND<200	--	--	--	--	--	--	--	<b>590</b>
	SG-3-3	800	5	10/16/2013	300	4.75	ND<2.2	4.43	25.8	5.93	24.5	ND<19	ND<20	ND<8.4	ND<5.2	191
<b>Data Gap Investigation - November 2015</b>																
B28V	B28V	1,157	5	11/19/2015	320 <sup>1</sup>	ND<2.9	ND<3.2	ND<6.5	ND<3.2	ND<3.7	ND<3.7	ND<29	ND<3.8	ND<13	ND<7.8	81.9
B29V	B29V	1,157	5	11/19/2015	910 <sup>2</sup>	ND<38	ND<43	ND<86	ND<49	ND<49	ND<49	ND<380	ND<50	ND<170	ND<100	<b>4,120</b>
B31	B31V	1,480	6.5	11/19/2015	ND<1,800	ND<9.5	ND<9.9	ND<16	ND<8.2	ND<7.6	ND<6.9	ND<8.8	ND<9.7	ND<9.1	ND<15 <sup>3</sup>	ND<9.1
SG-1	SG-1	818	4	11/19/2015	650 <sup>1</sup>	6.27	4.39	43.7	12.5	ND<2.5	13.8	36.3	74.3	ND<8.4	ND<5.2 <sup>3</sup>	ND<3.4
	SG-1 DUP	818	4	11/19/2015	560 <sup>1</sup>	7.07	3.96	44.6	11.3	ND<2.5	12.9	33.5	68	ND<8.4	ND<5.2	ND<3.4
SG-2	SG-2 <sup>4</sup>	827	5	11/20/2015	430 <sup>1</sup>	ND<3.8	ND<2.0	26.92	5.1	ND<1.5	5	107	28.4	16.7	ND<2.9 <sup>3</sup>	ND<6.8
	SG-2LC	NA	NA	11/20/2015	--	--	--	--	--	--	--	--	94,300	--	--	--
SG-3	SG-3 <sup>5</sup>	835	5	11/19/2015	1,400 <sup>1</sup>	10.6	7.91	90	23.4	2.45	26.8	80.3	22.4	8.15	ND<2.9 <sup>3</sup>	<b>385</b>
SSV-1	SSV-1	243	0.5	11/19/2015	ND<180	ND<1.9	ND<2.2	ND<4.3	ND<2.5	ND<2.5	ND<2.5	80	ND<20	ND<8.4	ND<5.2 <sup>3</sup>	ND<3.4
SF Bay RWQCB December 2013 ESL					50,000	1.60E+05	490	50,000	NC	NC	NC	1.50E+07	NC	NC	36	210

**TABLE NOTES:**

ug/m<sup>3</sup> = micrograms per cubic meter (in air)

ml = milliliters

fbg = feet below grade surface

ND = not detected above laboratory reporting limit; NA = Not Applicable

-- not analyzed for this constituent

NC = no criteria established for this constituent

TPH-Gas - Total Petroleum Hydrocarbons as gasoline (EPA Method TO-15)

4-ET = 4 Ethyl Toluene (EPA Method TO-15)

1,3,5-TMB = 1,3,5-Trimethylbenzene (EPA Method TO-15)

1,2,4-TMB = 1,2,4- Trimethylbenzene (EPA Method TO-15)

IPA = Iso Propyl Alcohol or 2-Propanol (EPA Method TO-15) - Leak Check Compound

TBA = tert Butanol

MIBK = Methyl Isobutyl Ketone

PCE = Perchloroethene or Tetrachloroethene

B28V, B29V, B31V, SG-1 thru SG-3 = Soil Gas Sample Locations

SSV-1 = Sub-Slab Vapor Sample Location

SG-2LC= Leak Check canister sample collected within shroud (analyzed for IPA only)

Results shown in **BOLD** Type represent concentrations exceeding applicable ESL

<sup>1</sup> = Does not match pattern of reference gasoline standard; Hydrocarbons in the range of C5-C12 quantified as gasoline

<sup>2</sup> = the reporting limits increased due to high concentration of non-target discrete peak (PCE) within gasoline range

<sup>3</sup> = Sample additionally analyzed for Naphthalene by TO-17: Result = ND<20.0 ug/m<sup>3</sup>

<sup>4</sup> = Sample also contained 1.12 ug/m<sup>3</sup> Hexane; the reporting limits for Hexane and TBA were raised due to suppression of internal standards used for peak quantitation during analysis of undiluted run

<sup>5</sup> = Sample also contained 0.840 ug/m<sup>3</sup> Chloromethane; the reporting limits for Chloromethane, TBA and 1,3,5-TMB were raised due to suppression of internal standards used for peak quantitation during analysis of undiluted run

SF Bay RWQCB/ESL =

San Francisco Bay Regional Water Quality Control Board's Interim Final - December 2013, Environmental Screening

Level at a residential or commercial land use permitted site with groundwater that is **Not** a potential source of drinking water.

**TABLE 4B**  
**Historical Results of Soil Gas Sample Analysis - Fixed Gases**  
**5930 College Avenue, Oakland, CA**

Sample Location	Sample ID	Sample Purge Volume (ml)	Sample Depth (fbg)	Sample Date	Carbon Dioxide (%)	Ethene (%)	Ethane (%)	Hydrogen (%)	Oxygen (%)	Nitrogen (%)	Methane (%)	Carbon Monoxide (%)
<i>Soil Gas Investigation - August/October 2013</i>												
SG-1	SG-1-3V	970	4	8/26/2013	ND<1.0	--	--	--	15	--	ND<1,000 <sup>1</sup>	--
SG-2	SG-2-1V	270	5	8/26/2013	--	--	--	--	--	--	--	--
	SG-2-3V	810	5	8/26/2013	5.5	--	--	--	12	--	ND<1,000 <sup>1</sup>	--
	SG-2-10V	2,700	5	8/26/2013	--	--	--	--	--	--	--	--
SG-3	SG-3-3V	810	5	8/26/2013	12	--	--	--	9.7	--	ND<1,000 <sup>1</sup>	--
	SG-3-3V DUP	810	5	8/26/2013	--	--	--	--	--	--	--	--
	SG-3-3	800	5	10/16/2013	--	--	--	--	--	--	--	--
<i>Data Gap Investigation - November 2015</i>												
B28V	B28V	1,157	5	11/19/2015	--	--	--	--	--	--	--	--
B29V	B29V	1,157	5	11/19/2015	--	--	--	--	--	--	--	--
B31	B31V	1,480	6.5	11/19/2015	--	--	--	--	--	--	--	--
SG-1	SG-1	818	4	11/19/2015	0.716	ND<0.0375	ND<0.0375	--	18.4	79.1	0.2	0.732
	SG-1 DUP	818	4	11/19/2015	--	--	--	--	--	--	--	--
SG-2	SG-2	827	5	11/20/2015	1.06	ND<0.05	ND<0.05	--	13.5	62.2	ND<0.1	ND<0.1
	SG-2LC	NA	NA	11/20/2015	--	--	--	--	--	--	--	--
SG-3	SG-3	835	5	11/19/2015	5.94	ND<0.05	ND<0.05	--	20.3	78.1	ND<0.1	ND<0.1
SSV-1	SSV-1	243	0.5	11/19/2015	ND<0.338	ND<0.0375	ND<0.0375	--	20.9	77	ND<0.8	ND<0.75
SF Bay RWQCB December 2013 ESL					NC	NC	NC	NC	NC	NC	NC	NC

**TABLE NOTES:**

- % = percent by volume
- ml = milliliters
- fbg = feet below grade surface
- ND = not detected above laboratory reporting limit; NA = Not Applicable
- not analyzed for this constituent
- NC = no criteria established for this constituent
  
- B28V, B29V, B31V, SG-1 thru SG-3 = Soil Gas Sample Locations
- SSV-1 = Sub-Slab Vapor Sample Location
- SG-2LC= Leak Check canister sample collected within shroud (analyzed for IPA only)
- <sup>1</sup> = result in parts per million by volume (ppmV)

SF Bay RWQCB/ESL =

San Francisco Bay Regional Water Quality Control Board's Interim Final - December 2013, Environmental Screening Level at a residential or commercial land use permitted site with groundwater that is **Not** a potential source of drinking water.



# **DATA GAP INVESTIGATION REPORT**

**Sheaff's Garage  
5930 College Avenue  
Oakland, California 94618**

**ACHCSA Fuel Leak Case No. RO0000377**

## ***APPENDIX A***

### **FOCUSED CONCEPTUAL SITE MODEL**

**APPENDIX A - FOCUSED CONCEPTUAL SITE MODEL**

Site: Sheaffs Garage, 5930 College Avenue, Oakland, CA - Alameda County LOP Cleanup Case # RO0000377, 5930 College Avenue, Oakland, California

Date: March 15, 2016

	<i>Description of Low Threat Closure Policy Criteria and Explanation of Data Gap</i>	<i>Actions by GGTR to Address Data Gap</i>
A.	<b>The unauthorized release is located within the service area of a public water system.</b>	Water supplied by East Bay Municipal Utility District - no action needed.
B.	<p><b>The unauthorized release consists only of petroleum:</b> Both Alameda County Environmental Health (ACEH) and Water Board Fund staff indicate that chlorinated solvents in groundwater is an impediment to case closure. Historic groundwater monitoring has not shown tetrachloroethene (PCE) contamination of groundwater in monitor wells MW-1, MW-2 and MW-3 in the vicinity of the former USTs and PCE laboratory analysis was discontinued. Only piezometer PW-1 located in the rear parking lot shows fluctuating concentrations of PCE that straddle the 2013 ESL value for groundwater that is not a potential water supply. Soil sampling for PCE around the oil-water separator and former parts cleaner location have not detected significant PCE contamination of soil. PCE occurs in soil gas along the northern boundary of the Site at soil gas probe SG-3. GGTR proposed three additional exploratory borings B28, B29 and B30 at rear of subject property to verify that PCE does or does not originate from Site. See Figure 3, Site Plan, for location of monitor wells, soil gas probes and exploratory borings.</p>	<p>GGTR performed additional soil sampling in November 2015 that shows no significant PCE contamination of soil in new exploratory borings. No action needed for PCE in soil at oil-water separator (OWS), parts cleaner or sanitary sewer line because PCE concentrations in soil are below ESL values. The grab groundwater sample from up-gradient boring B29 (along the northern boundary of property) detected dissolved PCE at a concentration of 44 µg/L that is similar to that of piezometer PW-1 at 39 µg/L in November 2015. The grab groundwater samples from down-gradient borings B28 and B30 did not detect PCE in groundwater. PCE was found in soil gas in the down-gradient probe B28V at 81 µg/m<sup>3</sup> and in soil gas at the up-gradient probe B29V at 4120 µg/m<sup>3</sup> (along with TPH as gasoline at 910 µg/m<sup>3</sup>). PCE contaminated groundwater may be impacting the Site from offsite source to the north – possibly associated with historic gasoline station now occupied by parking garage.</p>
	<p>In their April 11, 2014 letter, ACEH identifies three areas at the Site with potential PCE in soil that may require additional characterization:</p> <p>1) <b>Waste Oil Storage Tank</b> - A waste oil underground storage tank (UST) was present beneath the College Avenue sidewalk at the southwest corner of the site and removed in October 1996. The confirmation soil sample recovered from beneath the center of the waste oil tank T-2 contained 0.024 mg/kg PCE in soil at a depth of 8 feet below grade surface (bgs) with non-detectable (&lt;5 µg/kg) TCE and cis-1,2-DCE. The laboratory analysis of soil samples from the following exploratory borings in the vicinity of the former UST: B10 at 11 feet bsg, B-12 at 10 and 15 feet bsg, B21 at 9.5 feet bsg, and B22 at 10 feet bsg, were all non-detectable for PCE, TCE and cis-1,2-DCE. Grab groundwater sampling and historic groundwater monitoring of wells MW-1, MW-2 and MW-3 have not detected PCE contamination in groundwater and laboratory analysis for PCE was discontinued in the monitoring program for these wells.</p> <p>2a) <b>Oil-Water Separator</b> - GGTR previously investigated the oil-water separator (OWS) in three exploratory soil borings with soil samples at 2 and 4 feet bsg. The laboratory reported only PCE at 0.016 mg/kg in the two foot sample from boring B26 (below the 2013 ESL values for PCE in soil of 0.55 mg/kg). Boring B27 was located along sanitary sewer alignment and no detectable soil contamination reported by laboratory analysis for PCE, benzene, ethylbenzene, toluene, xylenes or other VOCs. At piezometer PW-1 located near the OWS, PCE concentrations are below the ESL value during low groundwater elevations and slightly above ESL value during periods of high groundwater elevation. The ACEH suggests another source area may be present at the oil-water separator and the investigation is incomplete at the OWS location.</p>	<p>GGTR concludes that no data gap exists and historic soil sampling indicates PCE contamination in soil associated with former waste oil UST location is not significant. The 2013 ESL for PCE in shallow soil is 0.055 mg/kg (groundwater not a source of drinking water) and 1996 confirmation soil sample was below this value. No action needed for residual PCE contamination of soil at former waste oil tank location because VOC concentrations are below current ESL values. New soil sampling conducted in November 2015 did not detect PCE in laboratory analysis of soil samples. Historic groundwater sampling at monitor wells MW-1, MW-2 and MW-3 (directly down-gradient of waste oil UST) have not detected PCE in groundwater.</p> <p>In November 2015, GGTR drilled three borings B28, B29 and B30 and performed soil sampling that shows no PCE contamination of soil. No action needed for PCE in soil at oil-water separator (OWS), parts cleaner or sanitary sewer line because PCE concentrations in soil are below ESL value. PCE was not detected in down-gradient grab groundwater samples from borings B28 and B30. PCE was detected in groundwater in up-gradient boring B29 at northern boundary of property at 44 µg/L. PCE was found in soil gas in the down-gradient probe B28V at 81 µg/m<sup>3</sup>. PCE was found in soil gas in the up-gradient probe B29V at 4120 µg/m<sup>3</sup> along with TPH as gasoline at 910 µg/m<sup>3</sup>. PCE contaminated groundwater may be impacting the Site from offsite source to the north.</p>

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	<i>Description of Low Threat Closure Policy Criteria and Explanation of Data Gap</i>	<i>Actions by GGTR to Address Data Gap</i>
	<p><b>2b) Rear Parking Lot</b> - The Site's rear parking lot has a long history of vehicle storage and oil is commonly sprayed on the ground surface prior to asphalt installation. The sink-former parts cleaner located at the rear of subject building is connected to sanitary sewer. Laboratory analysis of investigation soil samples reveal residual concentrations of TPH as motor oil, TPH as diesel and TPH as gasoline constituents in the rear parking lot at OWS and rear sink-parts cleaner that are below 2013 ESL values. Residual petroleum constituents are found in groundwater samples from piezometer PW-1 during semi-annual groundwater sampling.</p> <p><b>2c) PCE Contamination of Groundwater</b> - Since April 2005, the depth to water at piezometer PW-1 has ranged from 2.27 to 14.02 feet bgs. PCE concentrations in PW-1 were last measured at 39 µg/L in November 2015, below the 2013 ESL value of 63 µg/L (not a potential drinking water supply). Piezometer PW-1 exhibits seasonal variations in PCE concentration from 25 to 120 µg/L apparently associated with ground water elevations. A former Chevron gasoline station and waste oil tank was located adjoining the rear parking lot on the north now occupied by a parking garage. Source of residual PCE contamination of groundwater may originate from offsite property to the north. ACEH requested additional investigation to determine source of PCE contamination of groundwater.</p> <p><b>3) PCE at Sink-Parts Cleaner</b> - A sink-former parts washer and possibly a floor drain were located in the southeastern corner of the building. The sink (and floor drain) is connected to the sanitary sewer line inside building. Boring B27 was installed near this former structure and detected no PCE contamination in soil. However, ACEH is concerned that the sampling location B27 is up-gradient of the former parts washer. In their April 11, 20014 letter, ACEH indicates that potential PCE source area at former parts cleaner location is not completely investigated.</p>	<p>During November 2015, soil sample data from borings B28, B29 and B30 reveal that 0 to 5 foot and 5 to 10 foot petroleum concentrations do not exceed ESL values or direct contact, volatilization and utility worker criteria of the LTCP Table 1. The laboratory reported that grab groundwater samples from boring B28 (down-gradient of OWS) and B30 (at sink-parts cleaner) exceed ESL values for naphthalene, benzene, toluene, ethylbenzene, and xylenes. However, laboratory analysis of the soil gas sample from down-gradient probe B28V reveals soil gas contaminant concentrations below ESL values and vapor intrusion is not indicated as a potential risk.</p> <p>In November 2015, GGTR measured groundwater at 14 feet bsg in piezometer PW-1. GGTR drilled exploratory boring B29 at northern boundary of rear parking lot with grab groundwater sample (19 feet bsg) to detect offsite PCE contamination. No PCE detected in soil samples from 3, 5, 9 and 14 feet in boring B29. PCE detected in up-gradient grab groundwater sample B29 at 44 µg/L. Down-gradient grab sample at borings B28 at 18 feet bsg and B30 at 18 feet bsg did not detect PCE in groundwater. Semi-annual groundwater monitoring in November 2015 detected PCE in piezometer PW-1 at 39 µg/L. Groundwater sampling data indicates that PCE contamination may originate from offsite source to north and PCE in groundwater is not related to subject Site's petroleum issues.</p> <p>During November 2015, soil sample data from boring B30 (adjacent to sink and inactive parts cleaner) reveal that 0 to 5 foot and 5 to 10 foot petroleum concentrations do not exceed ESL values or direct contact, volatilization and utility worker criteria of the LTCP Table 1. No PCE detected in soil samples (3, 5, 9.5 &amp; 14 feet) or grab groundwater sample from 18 feet bsg. The laboratory reported that grab groundwater sample from boring B30 exceeds ESL aquatic habitat protection values for ethylbenzene and total xylenes. Sampling data does not indicate that sink-former parts cleaner location is a source area of PCE contamination.</p>
C.	<b>The unauthorized (“primary”) release from the UST system has been stopped</b>	Two USTs, product piping and dispenser have been removed - no data gap and no action needed.
D.	<p><b>Free product has been removed to the maximum extent practicable</b></p> <p>In their April 11, 2014 review letter, ACEH believes residual LNAPL may be present in smear zone. ACEH indicates that concentrations of gasoline and benzene are high enough in well MW-1 to present indirect evidence indicating mobile free product is present. Sheen was occasionally observed in monitor wells during periods of exceptionally high water level. However, no sheen has been observed since April 2009. Historical groundwater monitoring has not detected migrating or mobile free product at the subject property.</p>	Groundwater monitoring confirms that mobile or migrating free product or sheen has not been present at this Site for at least 5 years. GGTR believes the LTCP criteria for free product has been satisfied at this site. It is not likely that hydrogeologic conditions would change significantly in the future which may allow mobile LNAPL to migrate. As of 6/13/2014, ACEH in Path to Closure Plan indicates that General Criteria D is no longer an impediment to case closure.

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	<i>Description of Low Threat Closure Policy Criteria and Explanation of Data Gap</i>	<i>Actions by GGTR to Address Data Gap</i>
E.	<p><b>A conceptual site model that assesses the nature, extent, and mobility of the release has been developed</b></p> <p>In their April 2014 letter, ACEH states that insufficient data collection and analysis has been presented to assess the nature, extent, and mobility of the release and to support compliance with General Criteria B and D. In their April 11, 2014 review letter, ACEH believes that Conceptual Site Model is incomplete.</p>	<p>GGTR has submitted this updated Focused Conceptual Site Model (FCSM) to address this comment. This FCSM presents additional investigation activities to address data gaps as requested by ACEH. As of 6/13/2014, ACEH in Path to Closure Plan indicates that General Criteria E is no longer an impediment to case closure.</p>
F.	<p><b>Secondary Source has been removed to the extent practicable</b></p> <p>1) <b>LNAPL</b> - GGTR believes a smear zone of residual petroleum is present at the Site caused by the large seasonal fluctuations in groundwater elevation. This Site has a unique hydrogeology being at the intersection of two major subsurface storm water box culverts. Trend line analysis of historic groundwater sampling data indicate the plume is stable and declining in overall petroleum concentration. In their April 2014 letter, ACEH considers the high concentrations of residual petroleum hydrocarbons in the smear zone to be indirect evidence of residual LNAPL remaining at the Site that constitutes a potential threat to human health to vapor intrusion to indoor air and the residual secondary source is contributing to groundwater plume instability.</p> <p>2) <b>Hydraulic Lift</b> - ACEH indicates that historic detections of naphthalene and poly-aromatic hydrocarbons (PAH) in grab groundwater sample B12-W, located immediately down-gradient of a hydraulic hoist in May 2005, indicate the hydraulic hoist may be an unevaluated potential source. The soil sample from 10 feet in boring B12 contained non-detectable (&lt;50 mg/Kg) Total Extractable Petroleum Hydrocarbons (TEPH) and non-detectable (&lt;10 mg/Kg) Total Recoverable Petroleum Hydrocarbons (TRPH). Soil borings B5, B12 and B16 surround the active hydraulic lift location and soil samples recovered from these borings did not exhibit evidence of significant petroleum contamination. In their April 11, 2014 letter, ACEH believed that the area of boring B12 and hydraulic hoist is under investigated.</p> <p>3) <b>Natural Degradation</b> - In their April 9, 2015 letter, ACEH requested collection of additional soil samples in close proximity to former borings B2 and B22 in order to determine the extent of natural petroleum degradation of the secondary source since the original collection of soil samples in 1998 and 2005, respectively. Soil sample B2-9 from 9 feet had benzene at 13 mg/kg, toluene at 78 mg/kg, ethylbenzene at 38 mg/kg and xylenes at 160 mg/kg. Soil sample B22-10 from 10 feet had 100 mg/kg of TPH as gasoline. ACEH requested to add BTEX and MTBE to the analytical suite for the new repeat soil samples.</p>	<p>In November 2015, GGTR drilled boring B35 adjacent to former location of historic boring B2 to evaluate the natural degradation of petroleum hydrocarbons within the smear zone. Current drought conditions have resulted in the lowest groundwater elevations measured since 1998. Laboratory analysis of repeat soil samples from boring B35 indicate significant decreases in petroleum concentrations (secondary source) due to natural degradation. As of 6/13/2014, ACEH in Path to Closure Plan indicates that General Criteria F is no longer an impediment to case closure.</p> <p>In November 2015, GGTR drilled new boring B34 down-gradient of hydraulic hoist location with soil samples recovered from 3, 5, 9.5 and 13.5 feet. A grab groundwater sample was recovered from a depth of 18 feet bsg in boring B34 (water at 14 feet in nearby well MW-2). Laboratory reports no significant contaminants in the 3, 5 and 9.5 foot samples. TPH as hydraulic oil-motor oil was not detected in soil samples or grab groundwater sample. Saturated zone soil sample from 13.5 feet contains residual fuel and gasoline constituents: ethylbenzene, xylenes and naphthalene exceeding 2013 ESL values. Naphthalene and BTEX concentrations in groundwater sample exceed ESL values. However, the residual fuel constituents in groundwater do not appear related to the hydraulic lift.</p> <p>In November 2015, GGTR drilled boring B35 as shown on Figure 3, Site Plan, in close proximity to former boring B2 and near to boring B22. The Laboratory reported no detectable contaminants in soil samples from 3 and 5 feet. The soil sample from 9 feet contained no detectable benzene or MTBE, no detectable toluene, ethylbenzene at 5.2 mg/kg, xylenes at 20.2 mg/kg and naphthalene at 1.1 mg/kg. Repeat testing of soil confirms that petroleum constituents in secondary source (smear zone) have naturally degraded since 1998 and current residual concentrations are significantly lower.</p>

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G.	<b>Soil or groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15</b>	No data gap – MTBE was not detected above ESL value in recent grab groundwater and semi-annual groundwater monitoring. No action needed.
H.	<p><b>A nuisance exists, as defined by Water Code section 13050</b></p> <p><b>Vapor Intrusion</b> - In their April 11, 2014 letter, ACEH indicated that soil vapor intrusion into the adjacent apartment building has the potential to be a nuisance and that vapor intrusion has not been completely evaluated. ACEH believed that soil gas data is insufficient to evaluate risk to site and adjoining property from potential vapor intrusion.</p> <p><b>Vapor Intrusion</b> - PCE in soil gas above ESL values was detected in existing soil gas probe SG-3 located along the northern boundary of Site and adjacent to the College Square retail facility. The nearest onsite feature to this soil gas probe is the former fuel dispenser and no source of PCE vapor has been identified in this area.</p>	<p>In November 2015, GGTR installed new sub-slab vapor probe SSV-1 and new soil gas probes B28V, B29V and B31V as shown on Figure 3. Laboratory analysis of vapor samples reported no detectable contaminants in sub-slab probe SSV-1 located within the onsite office. New probe B31V located in the sidewalk adjacent to the adjoining apartment building contained no detectable contaminants in soil gas from 6.5 feet bsg. New soil gas probe B28V located along Site boundary at rear back yard of adjoining apartment building contained TPH as gasoline at 320 µg/m<sup>3</sup> and PCE at 81 µg/m<sup>3</sup>, both below ESL values. Existing soil gas probe SG-1 (located along property boundary with apartment building) contained gasoline vapors that do not exceed ESL values. Oxygen measured in 3 soil gas probes and one sub-slab probe exceed the 4% minimum value for LTCP bioattenuation zone criteria.</p> <p>PCE was found in soil gas in the up-gradient probe B29V at 4120 µg/m<sup>3</sup> along with TPH as gasoline at 910 µg/m<sup>3</sup>. Existing soil gas probe SG-3 located along the northern margin of the building contained 385 µg/m<sup>3</sup> PCE and 1400 µg/m<sup>3</sup> TPH as gasoline during the November 2015 sampling. Residual TPH as gasoline in sub-slab vapor was previously reported in the College Square facility investigation by Conestoga-Rovers in 2014 at 340 µg/m<sup>3</sup> above the background ambient air concentration measured at 110-260µg/m<sup>3</sup>. PCE was not analyzed in sub-slab vapor samples during the 2014 Conestoga-Rovers investigation. The data suggests that residual groundwater-soil gas contamination is impacting the Site from an offsite source to the north. Previous sub-slab vapor sampling beneath the adjoining College Square facility did not detect a vapor intrusion concern from petroleum vapor.</p>
1. a.	<p><b>Media Specific Criteria: Groundwater</b></p> <p><b>Groundwater Plume Length</b> – Site hydrogeology is dominated by clay-silt lithology and historical exploratory boring HB-5 along northern side of College Avenue was dry. GGTR believes clay-silt lithology is not conducive to extensive plume length while compacted back fill soils and concrete encasement of major box conduit in College Avenue creates a hydraulic barrier to groundwater flow across College Avenue. ACEH recommended that GGTR review historical data for the down-gradient Dreyers Ice Cream site for information on restraints to the subject plume length.</p>	GGTR reviewed documents on the GeoTracker website for the down-gradient fuel leak case at the former Dreyer Ice Cream facility located across College Avenue to the west. In June 1999, CET Environmental Services, Inc. recovered grab groundwater sample CB-1 in the parking lot east (up-gradient) of the former UST tank pit on the Dreyers Ice Cream property (see Figure 2, Site Vicinity Map). The results of laboratory analysis of sample CB-1 revealed no detectable TPH as gasoline, MTBE or BTEX. TPH as diesel (did not match diesel standard) was reported at 550 µg/L in grab water sample from boring CB-1. Boring CB-1 was located 185 feet down-gradient of the subject UST location (as determined with Google Maps measurement tool) and presents a maximum outside limit to the subject Site's plume length.

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	<p><b>Groundwater Plume Length</b> – In their April 11, 2014 review letter, ACEH indicated that plume length is not adequately defined.</p>	<p>In November 2015, GGTR performed additional groundwater investigation with three new soil borings B31, B32 and B33 located down-gradient or cross-gradient to former UST locations. Soil samples from these borings found only minor petroleum contamination in the groundwater interface zone. Borings B31 and B33 drilled to 20 feet did not produce water and no water sample could be recovered. A grab groundwater sample was recovered from boring B32 from approximately 12.5 feet deep. Groundwater measured at the same time in nearby well MW-3 was 12 feet bsg. The laboratory reported minor concentrations of gasoline constituents in this grab groundwater sample (below 2013 ESL values). Historic grab groundwater sampling at down-gradient location HB-6 had very low hydrocarbon concentrations. No indication in soil samples at groundwater interface or the grab groundwater sample from boring B32 that the ground water plume extends significantly offsite. GGTR believes that LTCP Groundwater-Specific Criteria 1 applies to this site with a plume length less than 100 feet.</p>
<p>b.</p>	<p><b>Groundwater Plume is Not Stable</b> - In their April 11, 2014 letter, ACEH indicated that seasonal variation in petroleum concentrations is evidence that groundwater plume is not stable. ACEH cites October 2013 result for benzene in well MW-3 where 990 µg/L was the highest historical concentration. In well MW-3, benzene concentrations were 110 µg/L in May 2015 and 660 µg/L in November 2015, illustrating the seasonal nature of fluctuating groundwater concentrations. GGTR believes that residual non-mobile petroleum is present in smear zone and petroleum concentrations fluctuate seasonally with water elevation. Trend line analysis indicates that plume is decreasing in overall petroleum concentration indicating the natural degradation of petroleum is occurring. Historic grab groundwater sampling at down-gradient location HB-6 had very low hydrocarbon concentrations. In their April 11, 2014 review letter, ACEH believed that seasonal fluctuations in concentration may indicate unstable plume conditions and contamination is not completely identified in groundwater sampling.</p>	<p>Groundwater concentration trend lines indicate decreasing concentrations with time. GGTR performed additional investigation with three new soil borings B31, B32 and B33 located down-gradient or cross-gradient of former UST location. Soil samples from these borings found only minor petroleum contamination in the saturated interface zone. Borings B31 and B33 drilled to 20 feet did not produce water and no water sample could be recovered reflecting the clay-dominated lithology at this site. A grab groundwater sample was recovered from boring B32 from approximately 12 feet bsg. The laboratory reported minor concentrations of gasoline constituents in the grab groundwater sample below 2013 ESL values. No indication in soil samples or the grab groundwater sample from boring B32 that the ground water plume extends significantly offsite. Primary source of petroleum has been removed and secondary source is naturally degrading with decreasing concentrations with time. GGTR believes that the groundwater plume is stable.</p>
<p>c.</p>	<p><b>Nearest Water Supply Well</b> - ACEH requested additional research at the Alameda County Public Works Agency (ACPWA) to verify that no domestic or irrigation water supply wells are potentially impacted by the subject groundwater plume. ACPWA provided a database printout that indicates there are no wells within the area of the site and that lie within the projected plume lengths for benzene, MTBE and gasoline. In their April 11, 2015 review letter, the ACEH request additional research into water supply wells.</p>	<p>GGTR performed additional water supply well research (submitted in previous document) with no indication of a nearby water supply well.</p>
<p>d.</p>	<p><b>Property Owner Willing to Accept a Land Use Restriction</b> - Residual petroleum constituents exceed residential land use screening levels. ACEH may be willing to accept residual contamination levels if owner is willing to accept a land use control on title of property restricting future land use to commercial-industrial.</p>	<p>Owner and operator of existing auto repair shop indicate that existing commercial use of the property will continue into the foreseeable future. Owner has not indicated if land use control is acceptable. GGTR recommends owner discuss land use control limited to commercial land use with ACEH, if needed.</p>

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e.	<p><b>Sensitive Receptor Survey</b> - ACEH requested research into the presence of sumps, basements or other structures located south and west of the site. GGE performed a field survey with a visual search for the presence of such features. GGE observed a basement in the church-school facility down-gradient (south) across College Avenue. This facility was directly down-gradient of Gettler-Ryan well MW-1 that ACEH approved case closure and well destruction. The adjoining apartment building has an older elevator that typically utilized electric traction systems operated from the building rooftop - owner of adjoining building refused to provide information or allow access to recover grab groundwater sample from adjoining property. In their April 11, 2014 review letter, ACEH requests additional research into sensitive receptors.</p>	<p>GGTR performed additional sensitive receptor research (submitted in previous document) with no indication of sensitive receptors besides the adjoining apartment building. GGTR installed new sub-slab probe SSV-1, soil gas probes B28V, B31V; and performed soil gas sampling during November 2015. Laboratory reported no detectable contaminants in sub-slab probe SSV-1 located beneath the onsite office and adjacent to adjoining apartment building. New probe B31V located in the sidewalk adjacent to the adjoining apartment building contained no detectable contaminants in soil gas. New probe B28V contained detectable TPH as gasoline and PCE that did not exceed the 2013 ESL values. Existing soil gas probe SG-1, closest to apartment building, contained residual gasoline vapors that do not exceed ESL values.</p>
f.	<p><b>Naphthalene and PAH Contamination</b> - In their April 11, 2014 review letter, ACEH believed that contamination is not completed identified in groundwater sampling. ACEH requested analysis of groundwater for naphthalene and poly-aromatic hydrocarbons (PAH).</p> <p><b>TPH as Diesel Contamination</b> - In their April 11, 2014 review letter, ACEH believed that contamination is not completed identified in groundwater sampling. ACEH requested the addition of TPH as diesel to the groundwater sampling for at least one monitoring event.</p>	<p>Naphthalene and PAH added to groundwater monitoring in April 2014. Naphthalene and PAH also added to laboratory analysis of samples from the November 2015 investigation discussed in this FCSM. Naphthalene in groundwater from well MW-1 at 130 µg/L exceeds 2013 ESL value for aquatic habitat protection at 24 µg/L. Naphthalene was not detected in well MW-2 and was 17 µg/L in well MW-3. Naphthalene reported in grab groundwater samples from new borings B28, B30 and B34 at 91, 21 and 88 µg/L, respectively.</p> <p>TPH as diesel added to groundwater monitoring in April 2014. TPH as diesel values exceed 2013 ESL value in November 2015 groundwater monitoring event for monitor wells MW-1, MW-2 and MW-3. Laboratory reports that TPH as diesel chromatogram does not resemble the diesel standard.</p>
g.	<p><b>Potential TPH as Motor Oil Contamination</b> - In their April 11, 2014 review letter, ACEH believed that contamination is not completed identified in groundwater sampling. ACEH requested analysis of groundwater for TPH as motor oil.</p> <p><b>Additional Monitor Wells</b> – ACEH previously approved proposed down-gradient wells MW-4 and MW-5. GGTR did not install these new wells because LTCP was issued and site was proposed for evaluation of case closure. Hydrogeology is dominated by clay-silt lithology and historic boring HB-5 along northern side of College Avenue was dry. Historic CPT sounding in September 2013 did not encounter significant water bearing zones to a depth of 60 feet beneath the Site in the clay-silt lithology. GGTR believes the clay-rich soils and compacted soils / concrete encasement of major box conduit in College Avenue are not conducive to extensive groundwater plume length across College Avenue. GGTR requested to not install wells MW-4 and MW-5 and perform additional grab groundwater sampling instead to verify plume length.</p>	<p>TPH as motor oil added to groundwater monitoring in April 2014. In November 2015, TPH as motor oil was detected in well MW-1 at 2200 µg/L and PW-1 at 400 µg/L above 2013 ESL ceiling value of 640 µg/L (groundwater not a potential source of drinking water).</p> <p>In November 2015, GGTR drilled three soil borings B31, B32 and B33 down-gradient of former USTs. Soil sampling found only minor petroleum contamination in the deeper groundwater interface samples. Borings B31 and B33 drilled to 20 feet were dry and no water sample could be recovered. A grab groundwater sample was recovered from boring B32 from 12.5 feet bsg (water in nearby well MW-3 was about 12 feet). The laboratory reported minor concentrations of gasoline constituents in the grab groundwater sample below 2013 ESL values. No indication in interface soil samples or the grab ground water sample from boring B32 that the ground water plume extends greater than 100 feet offsite and LTCP Groundwater-Specific Criteria 1 applies to the Site.</p>

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2.	<p><b>Media Specific Criteria for Vapor Intrusion to Indoor Air</b></p> <p>a. <b>Vapor Intrusion Risk to Onsite Office</b> – ACEH believed the vapor risk to the administrative office, typically more enclosed than a shop floor, has not been assessed (but was previously proposed and approved in the June 10, 2011 ACEH letter). Vapor analysis for naphthalene and PAH has not been conducted to enable an evaluation under the LTCP vapor criterion. ACEH believed this appropriate at a site with a former waste oil UST and hydraulic hoists as soil, at a depth of 10 feet bgs, contains elevated concentrations of naphthalene. Drilling and recovery of soil gas sample from office was not feasible due to access and disruption to business operations.</p> <p>b. <b>Offsite Risk of Vapor Intrusion</b> - ACEH considered elevated benzene concentrations in groundwater to present a potential risk to offsite receptors at the adjacent apartment building. In their April 11, 2014 review letter, ACEH requested additional soil gas sampling at adjoining property. GGTR was denied access to adjoining property by adjoining property owner. GGTR proposed to install new soil gas sampling probes as close to adjoining property as feasible. Office of subject building is located adjacent to adjoining apartment building.</p> <p><b>Thickness of Bioattenuation Zone based on Soil Sampling Only</b> - In their April 9, 2015 letter, ACEH requested additional soil sampling in boreholes B31, B32 and B33 in order to determine the thickness of the bioattenuation zone available within the vapor intrusion criteria under the LTCP, especially for offsite residential receptors. ACEH requested GGTR collect and analyze soil for petroleum hydrocarbons from the 0 to 5 and 5 to 10 foot depth intervals and at signs of contamination in these depth intervals. The new sampling data would be compared to the &lt;100 mg/kg petroleum concentration threshold for a petroleum bioattenuation zone.</p> <p><b>Bioattenuation Zone with Oxygen Above 4%</b> - ACEH staff indicated that LTCP Appendix 3 Scenario 3 – Dissolved Phase Benzene Concentrations in Groundwater – Bioattenuation Zone with Oxygen &gt; 4% may apply to the onsite building. Beneath the onsite building, groundwater sampling results from monitor well MW-2 reveal benzene concentrations below 1000 µg/L. Soil sampling indicates a 10 foot zone with TPH concentrations less than 100 mg/kg exists beneath the building. One-time soil gas sampling of existing probes SG-1, SG-2 and SG-3 revealed oxygen concentrations of 15, 12 and 9, respectively. ACEH requested additional sampling of soil gas probes for oxygen to verify oxygen concentrations in the subsurface beneath the onsite building.</p>	<p>GGTR installed new sub-slab probe SSV-1 within the onsite office and performed sub-slab vapor sampling during November 2015. Laboratory reported no detectable contaminants in the vapor sample from sub-slab probe SSV-1. Existing soil gas probe SG-1, closest to office, contained residual gasoline vapors that do not exceed 2013 ESL values. Sampling data indicates that an oxygen-rich bioattenuation zone (&gt;4% oxygen) is present and degradation of petroleum hydrocarbon vapors is occurring as shown by lack of petroleum hydrocarbons in sub-slab vapor sample. No indication in sub-slab and soil gas samples that vapor intrusion is a significant risk at onsite office.</p> <p>GGTR installed new sub-slab probe SSV-1 (within office) and new soil gas probes B28V and B31V during November 2015. Laboratory analysis of vapor samples revealed no detectable contaminants in sub-slab probe SSV-1 and new soil gas probe B31V (located in the sidewalk adjacent to the adjoining apartment building). Residual gasoline and PCE concentrations in new soil gas probe B28V were below ESL values. Existing soil gas probe SG-1, closest to apartment building, contained residual gasoline vapors that do not exceed 2013 ESL values. No indication in sub-slab or soil gas samples that vapor intrusion is a significant risk at adjoining apartment building.</p> <p>During November 2015, GGTR performed additional investigation with new soil borings B28, B29, B30, B31, B32, B33, B34 and B35 located across the Site. Soil samples from these borings found only minor petroleum contamination at depths of 0 to 5 and 5 to 10 feet – analyzed TPH concentrations are below 100 mg/kg and no indication from BTEX analysis or boring logs that TPH exceeds 100 mg/kg above 10 feet. Bioattenuation zone is 10 foot thick and LTCP Appendix 3 - Scenario 3 bio-attenuation zone without oxygen data applies to Site and offsite properties when groundwater elevation is deeper than 10 feet bsg (current condition).</p> <p>GGTR sampled monitor well MW-2 and soil gas probes in November 2015. Benzene concentration in groundwater beneath the building is 220 µg/L in well MW-2. The laboratory reported oxygen concentrations in air samples from probes SG-1, SG-2, SG-3 and SSV-1 at 18.4%, 13.5%, 20.3% and 20.9%, respectively. In 2014, Conestoga-Rovers recovered two sub-slab vapor samples from beneath the floor of the adjoining College Square facility with oxygen reported at 21% and 20%. Laboratory analysis results for new sub-slab probe SSV-1 reveal no detectable petroleum hydrocarbons indicating that bioattenuation zone is effective in degrading petroleum vapors from groundwater. A 5-foot bioattenuation zone with oxygen &gt; 4% exists beneath the onsite building and at adjoining properties.</p>



**APPENDIX A - FOCUSED CONCEPTUAL SITE MODEL**

Site: Sheaffs Garage, 5930 College Avenue, Oakland, CA - Alameda County LOP Cleanup Case # RO0000377, 5930 College Avenue, Oakland, California

Date: March 15, 2016

	<i>Description of Low Threat Closure Policy Criteria and Explanation of Data Gap</i>	<i>Actions by GGTR to Address Data Gap</i>
c.	<p><b>Depth of Existing Vapor Points</b> - ACEH considered the lack of foundation data to compromise the validity of existing soil gas samples collected at five feet below the building floor. The onsite single-story building has a concrete slab-on-grade foundation with no basement. Boring logs confirm that the concrete slab is 6 inches in thickness beneath the entire building. GGTR believes that the recovery of soil gas samples from 5 feet is consistent with a slab-on-grade foundation scenario.</p> <p><b>Soil Gas Probe with PCE Vapor</b> - In meetings, ACEH staff expressed concern over the PCE detection in soil gas at the former dispenser location in vapor probe SG-3. Soil gas sampling with a mobile laboratory on August 26, 2013 indicated PCE concentrations of 580 µg/m<sup>3</sup> (duplicate was 590 µg/m<sup>3</sup>). Two other soil gas probes SG-1 and SG-2 did not have detectable PCE concentrations. Soil gas probe SG-3 was re-sampled on October 26, 2013 using a Summa canister and stationary laboratory analysis. The laboratory reported a PCE concentration of 191 µg/m<sup>3</sup> in the soil gas sample, which is below the conservative ESL value of 210 µg/m<sup>3</sup> for residential land use. In their April 11, 2014 review letter, ACEH requested re-sampling of existing vapor probes to verify soil gas conditions beneath building.</p>	<p>GGTR installed existing soil gas probes SG-2 and SG-3 at 4.5-5 feet bsg within 6 inches of the 5-foot depth of foundation criteria in the LTCP. Probe SG-1 encountered refusal at 4 feet and the probe was installed from 3.5-4 feet bsg. Based on the favorable results of sub-slab sampling at SSV-1 and the presence of a bioattenuation zone as discussed above, GGTR believes the existing soil gas probe data is representative. GGTR assumed a perimeter footing foundation depth of 1.5 feet for the adjoining four-story apartment building and new soil gas probe B31V installed along the outside of the adjoining building was installed at 6-6.5 feet bsg.</p> <p>GGTR re-sampled existing soil gas probes SG-1, SG-2 and SG-3 in November 2015 and the laboratory reported residual gasoline constituent vapors that do not exceed ESL values. However, PCE in up-gradient probe SG-3 at 385 µg/m<sup>3</sup> slightly exceeds the residential soil gas ESL value of 210 µg/m<sup>3</sup> (but below the commercial ESL value of 2100 µg/m<sup>3</sup>). PCE was again not detected in soil gas probes SG-1 and SG-2 or in new sub-slab probe SSV-1. PCE was found in soil gas in the down-gradient soil gas probe B28V at 81 µg/m<sup>3</sup> below the 2013 ESL value. PCE was found in soil gas in the up-gradient soil gas probe B29V at 4120 µg/m<sup>3</sup> (above ESL) indicating an offsite source of PCE contaminated groundwater. Sub-slab vapor sampling at the adjoining College Square retail center in 2014 by Conestoga-Rovers did not analyze vapor samples for PCE.</p>
3.	<p><b>LTCP Media Specific Criteria for Direct Contact and Outdoor Air Criteria</b></p> <p><b>Direct Contact and Outdoor Air</b> - In their April 11, 2014 review letter, ACEH requested clarification of historical sampling data and evaluation of LTCP criteria with a strategy to resolve data gaps in soil sampling at the petroleum source area. ACEH believed that the Site may fail to meet worker criterion due to the presence of residual benzene, ethylbenzene, and naphthalene at 9-10 feet bgs at offsite bore locations B2 and B22 drilled in 1998 and 2005, respectively. ACEH believed that naphthalene and PAH have not been sufficiently analyzed in the source area to characterize the Site under the Direct Contact and Outdoor Air criteria. Laboratory analysis for PAH - seven carcinogenic poly-aromatic hydrocarbons (PAH) as benzon(a)pyrene toxicity equivalent [BaPe] - was not required at time of previous investigations.</p>	<p>Historic samples 0 to 5 feet: No historic soil samples from 0 to 5 foot (8 samples) exceed the values on LTCP Table 1 (Concentrations of Petroleum Constituent in Soil That Will Have No Significant Risk of Adversely Affecting Human Health).</p> <p>Historic sample 5 to 10 feet: Two soil samples from borings B2 and B4 exceed values in LTCP Table 1 for benzene and ethylbenzene (out of total of 26 soil samples from 5 to 10 feet bgs). In historic boring B2, the soil sample from 9 feet bgs had a benzene concentration of 13 mg/kg and ethylbenzene concentration of 38 mg/kg. The benzene concentration slightly exceeded the commercial/industrial volatilization to outdoor air (5 to 10 feet bgs) value of 12 mg/kg. Both values exceeded residential values for volatilization to outdoor air. In boring B4, the historic soil sample from 9 feet had a benzene concentration of 4 mg/kg and ethylbenzene concentration of 6 mg/kg. The benzene and ethylbenzene concentrations were below the commercial/industrial volatilization to outdoor air (5 to 10 feet bgs) values. Benzene exceeded residential values for volatilization to outdoor air at 5 to 10 feet bgs.</p>

**APPENDIX A - FOCUSED CONCEPTUAL SITE MODEL**

Site: Sheaffs Garage, 5930 College Avenue, Oakland, CA - Alameda County LOP Cleanup Case # RO0000377, 5930 College Avenue, Oakland, California

Date: March 15, 2016

	<i>Description of Low Threat Closure Policy Criteria and Explanation of Data Gap</i>	<i>Actions by GGTR to Address Data Gap</i>
	<p><b>Direct Contact and Outdoor Air</b> - In their April 9, 2015 letter, ACEH requested collection of discrete soil samples from 0-5 feet and 5-10 feet prescribed by the LTCP criteria. An additional boring near former waste oil tank is needed for analysis of new soil samples at 5 and 10 feet for analysis of PAH.</p>	<p>In November 2015, GGTR drilled new exploratory borings B28 through B35 and recovered soil samples at approximately 3, 5 and 9 feet to compare to the LTCP Table 1 values for direct contact, volatilization, and utility worker safety. A total of 23 new samples were analyzed for benzene, ethylbenzene, naphthalene and PAH. GGTR drilled boring B35 as shown on Figure 3, Site Plan, in close proximity to former boring B2 to perform repeat sampling. The Laboratory reported no detectable contaminants in soil samples from 3 and 5 feet in new boring B35. The soil sample from 9 feet contained no detectable benzene, toluene or MTBE, ethylbenzene at 5.2 mg/kg, xylenes at 24.8 mg/kg and naphthalene at 1.1 mg/kg. These concentrations are below the values on Table 1 of the LTCP for both 0 to 5 and 5 to 10 foot criteria. Degradation of petroleum is demonstrated by repeat soil sampling at boring B2 with repeat samples from new boring B35 being significantly lower in petroleum concentrations. New data indicates significant degradation of petroleum hydrocarbons in bioattenuation zone. GGTR believes that the Site meets direct contact, volatilization and worker criteria of Table 1 of LTCP.</p>
	<p><b>Correction to Data Table</b></p>	<p>Table 1B of prior investigation reports has an error in reporting units at the top of the table. The naphthalene concentration in Boring B22 at 10 feet should be 640 µg/kg (instead of mg/kg). Data tables in this report will be corrected to show the correct units.</p>

Reference: CET Environmental Services, Inc., November 17, 1999, Second Quarter 1999 Groundwater Monitoring, Geoprobe Investigation Results and Work Plan for Bioindicator Sampling, Dryer’s Ice Cream, 5929 College Avenue, Oakland, California

Conestoga-Rovers & Associates, April 14, 2014, Data Gap Report, Former Chevron Service Station 209339, 5940 College Avenue, Oakland, California.

# **DATA GAP INVESTIGATION REPORT**

**Sheaff's Garage  
5930 College Avenue  
Oakland, California 94618**

**ACHCSA Fuel Leak Case No. RO0000377**

## ***APPENDIX B***

LABORATORY REPORTS  
LABORATORY CERTIFICATES OF ANALYSIS  
CHAIN OF CUSTODY RECORDS



Golden Gate Tank Removal  
1480 Carroll Ave  
San Francisco, California 94124  
Tel: 415-512-1555  
Email: b.wheeler@ggtr.com  
RE: 5930 College Avenue, Oakland

Work Order No.: 1511123

Dear Brent Wheeler:

Torrent Laboratory, Inc. received 4 sample(s) on November 12, 2015 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.

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Patti Sandrock  
QA Officer

November 19, 2015

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Date



**Date:** 11/19/2015

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**Client:** Golden Gate Tank Removal

**Project:** 5930 College Avenue, Oakland

**Work Order:** 1511123

### **CASE NARRATIVE**

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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.

Analytical Comment for \_W\_8270PAH, Note: The % recoveries for the Acenaphthene in the LCSD is outside of laboratory control limits but within % RPD limits. Normal corrective action procedures require the re-extraction and re-analysis of all samples associated with the preparation batch. However, due to insufficient sample provided for re-extraction, no re-preparation and re-analysis was possible.



## Sample Result Summary

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15

**Date Reported:** 11/19/15

**MW-1**

1511123-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Benzene	SW8260B	42	3.7	21	3900	ug/L
TPH as Gasoline	8260TPH	42	1300	2100	14000	ug/L
MTBE	SW8260B	8.4	1.4	4.2	49	ug/L
Toluene	SW8260B	8.4	0.50	4.2	91	ug/L
Ethyl Benzene	SW8260B	8.4	0.62	4.2	750	ug/L
m,p-Xylene	SW8260B	8.4	1.1	8.4	280	ug/L
o-Xylene	SW8260B	8.4	0.64	4.2	8.5	ug/L
Naphthalene	SW8260B	8.4	1.1	8.4	130	ug/L
Naphthalene	SW8270C	10	9.4	36	46	ug/L
2-Methylnaphthalene	SW8270C	10	8.3	36	62	ug/L
1-Methylnaphthalene	SW8270C	10	8.3	36	37	ug/L
TPH as Diesel	SW8015B(M)	3	0.120	0.30	4.1	mg/L
TPH as Motor Oil	SW8015B(M)	3	0.270	1.2	2.2	mg/L

**MW-2**

1511123-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
MTBE	SW8260B	10.5	1.8	5.3	7.2	ug/L
Benzene	SW8260B	10.5	0.91	5.3	220	ug/L
Toluene	SW8260B	10.5	0.62	5.3	7.1	ug/L
Ethyl Benzene	SW8260B	10.5	0.78	5.3	38	ug/L
m,p-Xylene	SW8260B	10.5	1.4	11	15	ug/L
TPH as Gasoline	8260TPH	10.5	330	530	3100	ug/L
2-Methylnaphthalene	SW8270C	10	8.3	36	76	ug/L
1-Methylnaphthalene	SW8270C	10	8.3	36	51	ug/L
TPH as Diesel	SW8015B(M)	2	0.0800	0.20	2.1	mg/L



## Sample Result Summary

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15

**Date Reported:** 11/19/15

**MW-3**

1511123-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
MTBE	SW8260B	8.4	1.4	4.2	9.5	ug/L
Benzene	SW8260B	8.4	0.73	4.2	660	ug/L
Toluene	SW8260B	8.4	0.50	4.2	21	ug/L
Ethyl Benzene	SW8260B	8.4	0.62	4.2	250	ug/L
m,p-Xylene	SW8260B	8.4	1.1	8.4	52	ug/L
TPH as Gasoline	8260TPH	8.4	260	420	4100	ug/L
Naphthalene	SW8270C	10	9.4	36	17	ug/L
2-Methylnaphthalene	SW8270C	10	8.3	36	11	ug/L
1-Methylnaphthalene	SW8270C	10	8.3	36	19	ug/L
TPH as Diesel	SW8015B(M)	1	0.0400	0.10	0.76	mg/L

**PW-1**

1511123-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
1,1-Dichloroethane	SW8260B	1	0.13	0.50	0.92	ug/L
cis-1,2-Dichloroethene	SW8260B	1	0.19	0.50	43	ug/L
Chloroform	SW8260B	1	0.13	0.50	6.7	ug/L
Benzene	SW8260B	1	0.13	0.50	3.8	ug/L
Trichloroethylene	SW8260B	1	0.13	0.50	11	ug/L
Bromodichloromethane	SW8260B	1	0.13	0.50	0.58	ug/L
Tetrachloroethylene	SW8260B	1	0.14	0.50	39	ug/L
Ethyl Benzene	SW8260B	1	0.15	0.50	0.55	ug/L
Isopropyl Benzene	SW8260B	1	0.097	0.50	0.92	ug/L
sec-Butyl Benzene	SW8260B	1	0.092	0.50	2.1	ug/L
TPH as Gasoline	8260TPH	1	31	50	520	ug/L
TPH as Diesel	SW8015B(M)	1	0.0400	0.10	0.14	mg/L
TPH as Motor Oil	SW8015B(M)	1	0.0900	0.40	0.40	mg/L



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	MW-1	<b>Lab Sample ID:</b>	1511123-001A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/11/15 / 11:24		
<b>Tag Number:</b>	5930 College Avenue		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzene	SW8260B	NA	11/16/15	42	3.7	21	3900		ug/L	427772	NA
(S) Dibromofluoromethane	SW8260B	NA	11/16/15	42	61.2	131	101		%	427772	NA
(S) Toluene-d8	SW8260B	NA	11/16/15	42	75.1	127	96.1		%	427772	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/16/15	42	64.1	120	93.5		%	427772	NA
MTBE	SW8260B	NA	11/16/15	8.4	1.4	4.2	49		ug/L	427772	NA
tert-Butanol	SW8260B	NA	11/16/15	8.4	13	42	ND		ug/L	427772	NA
1,2-Dichloroethane	SW8260B	NA	11/16/15	8.4	0.95	4.2	ND		ug/L	427772	NA
Toluene	SW8260B	NA	11/16/15	8.4	0.50	4.2	91		ug/L	427772	NA
1,2-Dibromoethane	SW8260B	NA	11/16/15	8.4	0.57	4.2	ND		ug/L	427772	NA
Ethyl Benzene	SW8260B	NA	11/16/15	8.4	0.62	4.2	750		ug/L	427772	NA
m,p-Xylene	SW8260B	NA	11/16/15	8.4	1.1	8.4	280		ug/L	427772	NA
o-Xylene	SW8260B	NA	11/16/15	8.4	0.64	4.2	8.5		ug/L	427772	NA
Naphthalene	SW8260B	NA	11/16/15	8.4	1.1	8.4	130		ug/L	427772	NA
(S) Dibromofluoromethane	SW8260B	NA	11/16/15	8.4	61.2	131	95.9		%	427772	NA
(S) Toluene-d8	SW8260B	NA	11/16/15	8.4	75.1	127	94.9		%	427772	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/16/15	8.4	64.1	120	89.2		%	427772	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/16/15	11/16/15	42	1300	2100	14000	x	ug/L	427772	15781
(S) 4-Bromofluorobenzene	8260TPH	11/16/15	11/16/15	42	41.5	125	113		%	427772	15781

**NOTE:** x- Reported TPH value includes amount due to discrete peaks and heavy end hydrocarbons (possibly aged gasoline) within range of C5-C12 quantified as gasoline.





## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	MW-1	<b>Lab Sample ID:</b>	1511123-001B
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/11/15 / 11:24		
<b>Tag Number:</b>	5930 College Avenue		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	SW8270C	11/18/15	11/18/15	10	9.4	36	46		ug/L	427796	15778
2-Methylnaphthalene	SW8270C	11/18/15	11/18/15	10	8.3	36	62		ug/L	427796	15778
1-Methylnaphthalene	SW8270C	11/18/15	11/18/15	10	8.3	36	37		ug/L	427796	15778
Acenaphthylene	SW8270C	11/18/15	11/18/15	10	5.5	36	ND		ug/L	427796	15778
Acenaphthene	SW8270C	11/18/15	11/18/15	10	5.5	36	ND		ug/L	427796	15778
Fluorene	SW8270C	11/18/15	11/18/15	10	5.4	36	ND		ug/L	427796	15778
Phenanthrene	SW8270C	11/18/15	11/18/15	10	4.0	36	ND		ug/L	427796	15778
Anthracene	SW8270C	11/18/15	11/18/15	10	4.5	36	ND		ug/L	427796	15778
Fluoranthene	SW8270C	11/18/15	11/18/15	10	3.9	36	ND		ug/L	427796	15778
Pyrene	SW8270C	11/18/15	11/18/15	10	4.1	36	ND		ug/L	427796	15778
Benz[a]anthracene	SW8270C	11/18/15	11/18/15	10	4.0	36	ND		ug/L	427796	15778
Chrysene	SW8270C	11/18/15	11/18/15	10	5.8	36	ND		ug/L	427796	15778
Benzo[b]fluoranthene	SW8270C	11/18/15	11/18/15	10	11	36	ND		ug/L	427796	15778
Benzo[k]fluoranthene	SW8270C	11/18/15	11/18/15	10	19	36	ND		ug/L	427796	15778
Benzo[a]pyrene	SW8270C	11/18/15	11/18/15	10	2.5	36	ND		ug/L	427796	15778
Indeno[1,2,3-cd]pyrene	SW8270C	11/18/15	11/18/15	10	5.0	36	ND		ug/L	427796	15778
Dibenz[a,h]anthracene	SW8270C	11/18/15	11/18/15	10	12	36	ND		ug/L	427796	15778
Benzo[g,h,i]perylene	SW8270C	11/18/15	11/18/15	10	4.5	36	ND		ug/L	427796	15778
2-Fluorobiphenyl (S)	SW8270C	11/18/15	11/18/15	10	41.4	120	37.5	S	%	427796	15778
p-Terphenyl-d14 (S)	SW8270C	11/18/15	11/18/15	10	35.3	135	73.1		%	427796	15778

**NOTE:** Reporting limits increased due to matrix interference (detector saturation from unknown organics)  
Surrogate recovery outside the laboratory control limit due to matrix interference

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/17/15	11/17/15	3	0.120	0.30	4.1	x	mg/L	427776	15771
TPH as Motor Oil	SW8015B(M)	11/17/15	11/17/15	3	0.270	1.2	2.2		mg/L	427776	15771
Pentacosane (S)	SW8015B(M)	11/17/15	11/17/15	3	64.2	123	75.1		%	427776	15771

**NOTE:** x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range lighter than diesel quantified as diesel.



## SAMPLE RESULTS

Report prepared for: Brent Wheeler  
Golden Gate Tank Removal

Date Received: 11/12/15  
Date Reported: 11/19/15

Client Sample ID:	MW-2	Lab Sample ID:	1511123-002A
Project Name/Location:	5930 College Avenue, Oakland	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	11/11/15 / 10:24		
Tag Number:	5930 College Avenue		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	11/16/15	10.5	1.8	5.3	7.2		ug/L	427772	NA
tert-Butanol	SW8260B	NA	11/16/15	10.5	16	53	ND		ug/L	427772	NA
Benzene	SW8260B	NA	11/16/15	10.5	0.91	5.3	220		ug/L	427772	NA
1,2-Dichloroethane	SW8260B	NA	11/16/15	10.5	1.2	5.3	ND		ug/L	427772	NA
Toluene	SW8260B	NA	11/16/15	10.5	0.62	5.3	7.1		ug/L	427772	NA
1,2-Dibromoethane	SW8260B	NA	11/16/15	10.5	0.71	5.3	ND		ug/L	427772	NA
Ethyl Benzene	SW8260B	NA	11/16/15	10.5	0.78	5.3	38		ug/L	427772	NA
m,p-Xylene	SW8260B	NA	11/16/15	10.5	1.4	11	15		ug/L	427772	NA
o-Xylene	SW8260B	NA	11/16/15	10.5	0.79	5.3	ND		ug/L	427772	NA
Naphthalene	SW8260B	NA	11/16/15	10.5	1.4	11	ND		ug/L	427772	NA
(S) Dibromofluoromethane	SW8260B	NA	11/16/15	10.5	61.2	131	99.5		%	427772	NA
(S) Toluene-d8	SW8260B	NA	11/16/15	10.5	75.1	127	97.9		%	427772	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/16/15	10.5	64.1	120	95.0		%	427772	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/16/15	11/16/15	10.5	330	530	3100	x	ug/L	427772	15781
(S) 4-Bromofluorobenzene	8260TPH	11/16/15	11/16/15	10.5	41.5	125	111		%	427772	15781

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



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	MW-2	<b>Lab Sample ID:</b>	1511123-002B
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/11/15 / 10:24		
<b>Tag Number:</b>	5930 College Avenue		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	SW8270C	11/18/15	11/18/15	10	9.4	36	ND		ug/L	427796	15778
2-Methylnaphthalene	SW8270C	11/18/15	11/18/15	10	8.3	36	76		ug/L	427796	15778
1-Methylnaphthalene	SW8270C	11/18/15	11/18/15	10	8.3	36	51		ug/L	427796	15778
Acenaphthylene	SW8270C	11/18/15	11/18/15	10	5.5	36	ND		ug/L	427796	15778
Acenaphthene	SW8270C	11/18/15	11/18/15	10	5.5	36	ND		ug/L	427796	15778
Fluorene	SW8270C	11/18/15	11/18/15	10	5.4	36	ND		ug/L	427796	15778
Phenanthrene	SW8270C	11/18/15	11/18/15	10	4.0	36	ND		ug/L	427796	15778
Anthracene	SW8270C	11/18/15	11/18/15	10	4.5	36	ND		ug/L	427796	15778
Fluoranthene	SW8270C	11/18/15	11/18/15	10	3.9	36	ND		ug/L	427796	15778
Pyrene	SW8270C	11/18/15	11/18/15	10	4.1	36	ND		ug/L	427796	15778
Benz[a]anthracene	SW8270C	11/18/15	11/18/15	10	4.0	36	ND		ug/L	427796	15778
Chrysene	SW8270C	11/18/15	11/18/15	10	5.8	36	ND		ug/L	427796	15778
Benzo[b]fluoranthene	SW8270C	11/18/15	11/18/15	10	11	36	ND		ug/L	427796	15778
Benzo[k]fluoranthene	SW8270C	11/18/15	11/18/15	10	19	36	ND		ug/L	427796	15778
Benzo[a]pyrene	SW8270C	11/18/15	11/18/15	10	2.5	36	ND		ug/L	427796	15778
Indeno[1,2,3-cd]pyrene	SW8270C	11/18/15	11/18/15	10	5.0	36	ND		ug/L	427796	15778
Dibenz[a,h]anthracene	SW8270C	11/18/15	11/18/15	10	12	36	ND		ug/L	427796	15778
Benzo[g,h,i]perylene	SW8270C	11/18/15	11/18/15	10	4.5	36	ND		ug/L	427796	15778
2-Fluorobiphenyl (S)	SW8270C	11/18/15	11/18/15	10	41.4	120	59.4		%	427796	15778
p-Terphenyl-d14 (S)	SW8270C	11/18/15	11/18/15	10	35.3	135	71.7		%	427796	15778

**NOTE:** Reporting limits increased due to matrix interference (detector saturation from unknown organics)

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/17/15	11/17/15	2	0.0800	0.20	2.1	x	mg/L	427776	15771
TPH as Motor Oil	SW8015B(M)	11/17/15	11/17/15	2	0.180	0.80	ND		mg/L	427776	15771
Pentacosane (S)	SW8015B(M)	11/17/15	11/17/15	2	64.2	123	75.7		%	427776	15771

**NOTE:** x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range lighter than diesel quantified as diesel.



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	MW-3	<b>Lab Sample ID:</b>	1511123-003A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/11/15 / 10:54		
<b>Tag Number:</b>	5930 College Avenue		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	11/16/15	8.4	1.4	4.2	9.5		ug/L	427772	NA
tert-Butanol	SW8260B	NA	11/16/15	8.4	13	42	ND		ug/L	427772	NA
Benzene	SW8260B	NA	11/16/15	8.4	0.73	4.2	660		ug/L	427772	NA
1,2-Dichloroethane	SW8260B	NA	11/16/15	8.4	0.95	4.2	ND		ug/L	427772	NA
Toluene	SW8260B	NA	11/16/15	8.4	0.50	4.2	21		ug/L	427772	NA
1,2-Dibromoethane	SW8260B	NA	11/16/15	8.4	0.57	4.2	ND		ug/L	427772	NA
Ethyl Benzene	SW8260B	NA	11/16/15	8.4	0.62	4.2	250		ug/L	427772	NA
m,p-Xylene	SW8260B	NA	11/16/15	8.4	1.1	8.4	52		ug/L	427772	NA
o-Xylene	SW8260B	NA	11/16/15	8.4	0.64	4.2	ND		ug/L	427772	NA
Naphthalene	SW8260B	NA	11/16/15	8.4	1.1	8.4	ND		ug/L	427772	NA
(S) Dibromofluoromethane	SW8260B	NA	11/16/15	8.4	61.2	131	102		%	427772	NA
(S) Toluene-d8	SW8260B	NA	11/16/15	8.4	75.1	127	97.8		%	427772	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/16/15	8.4	64.1	120	93.5		%	427772	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/16/15	11/16/15	8.4	260	420	4100	x	ug/L	427772	15781
(S) 4-Bromofluorobenzene	8260TPH	11/16/15	11/16/15	8.4	41.5	125	113		%	427772	15781

**NOTE:** x - Although TPH as Gasoline constituents are present, sample chromatogram does not resemble pattern of reference Gasoline standard.



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	MW-3	<b>Lab Sample ID:</b>	1511123-003B
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/11/15 / 10:54		
<b>Tag Number:</b>	5930 College Avenue		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	SW8270C	11/18/15	11/18/15	10	9.4	36	17	J	ug/L	427796	15778
2-Methylnaphthalene	SW8270C	11/18/15	11/18/15	10	8.3	36	11	J	ug/L	427796	15778
1-Methylnaphthalene	SW8270C	11/18/15	11/18/15	10	8.3	36	19	J	ug/L	427796	15778
Acenaphthylene	SW8270C	11/18/15	11/18/15	10	5.5	36	ND		ug/L	427796	15778
Acenaphthene	SW8270C	11/18/15	11/18/15	10	5.5	36	ND		ug/L	427796	15778
Fluorene	SW8270C	11/18/15	11/18/15	10	5.4	36	ND		ug/L	427796	15778
Phenanthrene	SW8270C	11/18/15	11/18/15	10	4.0	36	ND		ug/L	427796	15778
Anthracene	SW8270C	11/18/15	11/18/15	10	4.5	36	ND		ug/L	427796	15778
Fluoranthene	SW8270C	11/18/15	11/18/15	10	3.9	36	ND		ug/L	427796	15778
Pyrene	SW8270C	11/18/15	11/18/15	10	4.1	36	ND		ug/L	427796	15778
Benz[a]anthracene	SW8270C	11/18/15	11/18/15	10	4.0	36	ND		ug/L	427796	15778
Chrysene	SW8270C	11/18/15	11/18/15	10	5.8	36	ND		ug/L	427796	15778
Benzo[b]fluoranthene	SW8270C	11/18/15	11/18/15	10	11	36	ND		ug/L	427796	15778
Benzo[k]fluoranthene	SW8270C	11/18/15	11/18/15	10	19	36	ND		ug/L	427796	15778
Benzo[a]pyrene	SW8270C	11/18/15	11/18/15	10	2.5	36	ND		ug/L	427796	15778
Indeno[1,2,3-cd]pyrene	SW8270C	11/18/15	11/18/15	10	5.0	36	ND		ug/L	427796	15778
Dibenz[a,h]anthracene	SW8270C	11/18/15	11/18/15	10	12	36	ND		ug/L	427796	15778
Benzo[g,h,i]perylene	SW8270C	11/18/15	11/18/15	10	4.5	36	ND		ug/L	427796	15778
2-Fluorobiphenyl (S)	SW8270C	11/18/15	11/18/15	10	41.4	120	61.6		%	427796	15778
p-Terphenyl-d14 (S)	SW8270C	11/18/15	11/18/15	10	35.3	135	72.1		%	427796	15778

**NOTE:** Reporting limits increased due to matrix interference (detector saturation from unknown organics)

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/17/15	11/17/15	1	0.0400	0.10	0.76	x	mg/L	427776	15771
TPH as Motor Oil	SW8015B(M)	11/17/15	11/17/15	1	0.0900	0.40	ND		mg/L	427776	15771
Pentacosane (S)	SW8015B(M)	11/17/15	11/17/15	1	64.2	123	62.4	S	%	427776	15771

**NOTE:** x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range lighter than diesel quantified as diesel.



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	PW-1	<b>Lab Sample ID:</b>	1511123-004A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/11/15 / 9:52		
<b>Tag Number:</b>	5930 College Avenue		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	11/16/15	1	0.18	0.50	ND		ug/L	427772	NA
Chloromethane	SW8260B	NA	11/16/15	1	0.16	0.50	ND		ug/L	427772	NA
Vinyl Chloride	SW8260B	NA	11/16/15	1	0.16	0.50	ND		ug/L	427772	NA
Bromomethane	SW8260B	NA	11/16/15	1	0.18	0.50	ND		ug/L	427772	NA
Trichlorofluoromethane	SW8260B	NA	11/16/15	1	0.18	0.50	ND		ug/L	427772	NA
1,1-Dichloroethene	SW8260B	NA	11/16/15	1	0.15	0.50	ND		ug/L	427772	NA
Freon 113	SW8260B	NA	11/16/15	1	0.19	0.50	ND		ug/L	427772	NA
Methylene Chloride	SW8260B	NA	11/16/15	1	0.23	5.0	ND		ug/L	427772	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/16/15	1	0.19	0.50	ND		ug/L	427772	NA
MTBE	SW8260B	NA	11/16/15	1	0.17	0.50	ND		ug/L	427772	NA
tert-Butanol	SW8260B	NA	11/16/15	1	1.5	5.0	ND		ug/L	427772	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/16/15	1	0.13	0.50	ND		ug/L	427772	NA
1,1-Dichloroethane	SW8260B	NA	11/16/15	1	0.13	0.50	0.92		ug/L	427772	NA
ETBE	SW8260B	NA	11/16/15	1	0.17	0.50	ND		ug/L	427772	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/16/15	1	0.19	0.50	43		ug/L	427772	NA
2,2-Dichloropropane	SW8260B	NA	11/16/15	1	0.15	0.50	ND		ug/L	427772	NA
Bromochloromethane	SW8260B	NA	11/16/15	1	0.20	0.50	ND		ug/L	427772	NA
Chloroform	SW8260B	NA	11/16/15	1	0.13	0.50	6.7		ug/L	427772	NA
Carbon Tetrachloride	SW8260B	NA	11/16/15	1	0.15	0.50	ND		ug/L	427772	NA
1,1,1-Trichloroethane	SW8260B	NA	11/16/15	1	0.097	0.50	ND		ug/L	427772	NA
1,1-Dichloropropene	SW8260B	NA	11/16/15	1	0.15	0.50	ND		ug/L	427772	NA
Benzene	SW8260B	NA	11/16/15	1	0.13	0.50	3.8		ug/L	427772	NA
TAME	SW8260B	NA	11/16/15	1	0.17	0.50	ND		ug/L	427772	NA
1,2-Dichloroethane	SW8260B	NA	11/16/15	1	0.14	0.50	ND		ug/L	427772	NA
Trichloroethylene	SW8260B	NA	11/16/15	1	0.13	0.50	11		ug/L	427772	NA
Dibromomethane	SW8260B	NA	11/16/15	1	0.15	0.50	ND		ug/L	427772	NA
1,2-Dichloropropane	SW8260B	NA	11/16/15	1	0.17	0.50	ND		ug/L	427772	NA
Bromodichloromethane	SW8260B	NA	11/16/15	1	0.13	0.50	0.58		ug/L	427772	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/16/15	1	0.096	0.50	ND		ug/L	427772	NA
Toluene	SW8260B	NA	11/16/15	1	0.14	0.50	ND		ug/L	427772	NA
Tetrachloroethylene	SW8260B	NA	11/16/15	1	0.14	0.50	39		ug/L	427772	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/16/15	1	0.23	0.50	ND		ug/L	427772	NA
1,1,2-Trichloroethane	SW8260B	NA	11/16/15	1	0.14	0.50	ND		ug/L	427772	NA
Dibromochloromethane	SW8260B	NA	11/16/15	1	0.096	0.50	ND		ug/L	427772	NA
1,3-Dichloropropane	SW8260B	NA	11/16/15	1	0.10	0.50	ND		ug/L	427772	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	PW-1	<b>Lab Sample ID:</b>	1511123-004A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/11/15 / 9:52		
<b>Tag Number:</b>	5930 College Avenue		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,2-Dibromoethane	SW8260B	NA	11/16/15	1	0.19	0.50	ND		ug/L	427772	NA
Chlorobenzene	SW8260B	NA	11/16/15	1	0.14	0.50	ND		ug/L	427772	NA
Ethyl Benzene	SW8260B	NA	11/16/15	1	0.15	0.50	0.55		ug/L	427772	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/16/15	1	0.096	0.50	ND		ug/L	427772	NA
m,p-Xylene	SW8260B	NA	11/16/15	1	0.13	1.0	ND		ug/L	427772	NA
o-Xylene	SW8260B	NA	11/16/15	1	0.15	0.50	ND		ug/L	427772	NA
Styrene	SW8260B	NA	11/16/15	1	0.21	0.50	ND		ug/L	427772	NA
Bromoform	SW8260B	NA	11/16/15	1	0.21	1.0	ND		ug/L	427772	NA
Isopropyl Benzene	SW8260B	NA	11/16/15	1	0.097	0.50	0.92		ug/L	427772	NA
Bromobenzene	SW8260B	NA	11/16/15	1	0.15	0.50	ND		ug/L	427772	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/16/15	1	0.11	0.50	ND		ug/L	427772	NA
n-Propylbenzene	SW8260B	NA	11/16/15	1	0.078	0.50	ND		ug/L	427772	NA
2-Chlorotoluene	SW8260B	NA	11/16/15	1	0.076	0.50	ND		ug/L	427772	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/16/15	1	0.074	0.50	ND		ug/L	427772	NA
4-Chlorotoluene	SW8260B	NA	11/16/15	1	0.088	0.50	ND		ug/L	427772	NA
tert-Butylbenzene	SW8260B	NA	11/16/15	1	0.081	0.50	ND		ug/L	427772	NA
1,2,3-Trichloropropane	SW8260B	NA	11/16/15	1	0.14	0.50	ND		ug/L	427772	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/16/15	1	0.083	0.50	ND		ug/L	427772	NA
sec-Butyl Benzene	SW8260B	NA	11/16/15	1	0.092	0.50	2.1		ug/L	427772	NA
p-Isopropyltoluene	SW8260B	NA	11/16/15	1	0.093	0.50	ND		ug/L	427772	NA
1,3-Dichlorobenzene	SW8260B	NA	11/16/15	1	0.10	0.50	ND		ug/L	427772	NA
1,4-Dichlorobenzene	SW8260B	NA	11/16/15	1	0.069	0.50	ND		ug/L	427772	NA
n-Butylbenzene	SW8260B	NA	11/16/15	1	0.081	0.50	ND		ug/L	427772	NA
1,2-Dichlorobenzene	SW8260B	NA	11/16/15	1	0.057	0.50	ND		ug/L	427772	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/16/15	1	0.15	0.50	ND		ug/L	427772	NA
Hexachlorobutadiene	SW8260B	NA	11/16/15	1	0.19	0.50	ND		ug/L	427772	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/16/15	1	0.12	0.50	ND		ug/L	427772	NA
Naphthalene	SW8260B	NA	11/16/15	1	0.14	1.0	ND		ug/L	427772	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/16/15	1	0.23	0.50	ND		ug/L	427772	NA
(S) Dibromofluoromethane	SW8260B	NA	11/16/15	1	61.2	131	93.1		%	427772	NA
(S) Toluene-d8	SW8260B	NA	11/16/15	1	75.1	127	95.9		%	427772	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/16/15	1	64.1	120	88.0		%	427772	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	PW-1	<b>Lab Sample ID:</b>	1511123-004A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/11/15 / 9:52		
<b>Tag Number:</b>	5930 College Avenue		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/16/15	11/16/15	1	31	50	520	x	ug/L	427772	15781
(S) 4-Bromofluorobenzene	8260TPH	11/16/15	11/16/15	1	41.5	125	80.9		%	427772	15781

**NOTE:** x - Does not match pattern of reference Gasoline standard. Hydrocarbons in the range of C5-C12 quantified as Gasoline.





## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	PW-1	<b>Lab Sample ID:</b>	1511123-004B
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/11/15 / 9:52		
<b>Tag Number:</b>	5930 College Avenue		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8270C	11/18/15	11/18/15	1	0.94	3.6	ND		ug/L	427796	15778
2-Methylnaphthalene	SW8270C	11/18/15	11/18/15	1	0.83	3.6	ND		ug/L	427796	15778
1-Methylnaphthalene	SW8270C	11/18/15	11/18/15	1	0.83	3.6	ND		ug/L	427796	15778
Acenaphthylene	SW8270C	11/18/15	11/18/15	1	0.55	3.6	ND		ug/L	427796	15778
Acenaphthene	SW8270C	11/18/15	11/18/15	1	0.55	3.6	ND		ug/L	427796	15778
Fluorene	SW8270C	11/18/15	11/18/15	1	0.54	3.6	ND		ug/L	427796	15778
Phenanthrene	SW8270C	11/18/15	11/18/15	1	0.40	3.6	ND		ug/L	427796	15778
Anthracene	SW8270C	11/18/15	11/18/15	1	0.45	3.6	ND		ug/L	427796	15778
Fluoranthene	SW8270C	11/18/15	11/18/15	1	0.39	3.6	ND		ug/L	427796	15778
Pyrene	SW8270C	11/18/15	11/18/15	1	0.41	3.6	ND		ug/L	427796	15778
Benz[a]anthracene	SW8270C	11/18/15	11/18/15	1	0.40	3.6	ND		ug/L	427796	15778
Chrysene	SW8270C	11/18/15	11/18/15	1	0.58	3.6	ND		ug/L	427796	15778
Benzo[b]fluoranthene	SW8270C	11/18/15	11/18/15	1	1.1	3.6	ND		ug/L	427796	15778
Benzo[k]fluoranthene	SW8270C	11/18/15	11/18/15	1	1.9	3.6	ND		ug/L	427796	15778
Benzo[a]pyrene	SW8270C	11/18/15	11/18/15	1	0.25	3.6	ND		ug/L	427796	15778
Indeno[1,2,3-cd]pyrene	SW8270C	11/18/15	11/18/15	1	0.50	3.6	ND		ug/L	427796	15778
Dibenz[a,h]anthracene	SW8270C	11/18/15	11/18/15	1	1.2	3.6	ND		ug/L	427796	15778
Benzo[g,h,i]perylene	SW8270C	11/18/15	11/18/15	1	0.45	3.6	ND		ug/L	427796	15778
2-Fluorobiphenyl (S)	SW8270C	11/18/15	11/18/15	1	41.4	120	59.4		%	427796	15778
p-Terphenyl-d14 (S)	SW8270C	11/18/15	11/18/15	1	35.3	135	69.3		%	427796	15778

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/17/15	11/17/15	1	0.0400	0.10	0.14	x	mg/L	427776	15771
TPH as Motor Oil	SW8015B(M)	11/17/15	11/17/15	1	0.0900	0.40	0.40		mg/L	427776	15771
Pentacosane (S)	SW8015B(M)	11/17/15	11/17/15	1	64.2	123	76.0		%	427776	15771

**NOTE:** x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range lighter than diesel quantified as diesel.



## MB Summary Report

<b>Work Order:</b>	1511123	<b>Prep Method:</b>	3510_TPH	<b>Prep Date:</b>	11/17/15	<b>Prep Batch:</b>	15771
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	11/17/15	<b>Analytical Batch:</b>	427776
<b>Units:</b>	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH as Diesel	0.0440	0.10	ND		
TPH as Motor Oil	0.0920	0.40	0.095		
Pentacosane (S)			82.9		

<b>Work Order:</b>	1511123	<b>Prep Method:</b>	3510_BNA	<b>Prep Date:</b>	11/18/15	<b>Prep Batch:</b>	15778
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427796
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Pyridine	1.8	3.6	ND		
N-Nitrosodimethylamine	0.68	3.6	ND		
Aniline	1.1	3.6	ND		
Phenol	0.87	3.6	ND		
Bis(2-chloroethyl) ether	0.97	3.6	ND		
2-Chlorophenol	1.2	3.6	ND		
1,3-Dichlorobenzene	0.89	3.6	ND		
1,4-Dichlorobenzene	1.1	3.6	ND		
Benzyl Alcohol	1.2	7.2	ND		
1,2-Dichlorobenzene	1.0	3.6	ND		
2-Methylphenol (o-Cresol)	1.3	3.6	ND		
Bis(2-chloroisopropyl)ether	1.3	3.6	ND		
3-/4-Methylphenol (p-/m-Cresol)	1.2	3.6	ND		
N-nitroso-di-n-propylamine	1.3	3.6	ND		
Hexachloroethane	1.2	3.6	ND		
Nitrobenzene	0.98	3.6	ND		
Isophorone	1.2	3.6	ND		
2-Nitrophenol	0.82	18	ND		
2,4-Dimethylphenol	0.082	3.6	ND		
Benzoic Acid	6.3	18	ND		
Bis(2-Chloroethoxy)methane	1.0	3.6	ND		
2,4-Dichlorophenol	0.94	3.6	ND		
1,2,4-Trichlorobenzene	0.85	3.6	ND		
2,6-Dichlorophenol	0.94	3.6	ND		
Naphthalene	0.94	3.6	ND		
4-Chloroaniline	0.84	7.2	ND		
Hexachloro-1,3-butadiene	0.79	3.6	ND		
4-Chloro-3-methylphenol	0.71	3.6	ND		
2-Methylnaphthalene	0.83	3.6	ND		



## MB Summary Report

<b>Work Order:</b>	1511123	<b>Prep Method:</b>	3510_BNA	<b>Prep Date:</b>	11/18/15	<b>Prep Batch:</b>	15778
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427796
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
1-Methylnaphthalene	0.83	3.6	ND		
Hexachlorocyclopentadiene	0.32	18	ND		
2,4,6-Trichlorophenol	0.77	3.6	ND		
2,4,5-Trichlorophenol	0.76	3.6	ND		
2-Chloronaphthalene	0.93	3.6	ND		
2-Nitroaniline	0.39	18	ND		
1,4-Dinitrobenzene	0.45	3.6	ND		
Dimethyl phthalate	0.39	3.6	ND		
1,3-Dinitrobenzene	0.083	3.6	ND		
Acenaphthylene	0.55	3.6	ND		
2,6-Dinitrotoluene	0.40	3.6	ND		
1,2-Dinitrobenzene	0.45	3.6	ND		
3-Nitroaniline	0.75	18	ND		
Acenaphthene	0.55	3.6	ND		
2,4-Dinitrophenol	0.051	9.0	ND		
4-Nitrophenol	1.3	3.6	ND		
Dibenzofuran	0.67	3.6	ND		
2,4-Dinitrotoluene	0.44	3.6	ND		
2,3,5,6-Tetrachlorophenol	0.27	3.6	ND		
2,3,4,6-Tetrachlorophenol	0.22	3.6	ND		
Diethylphthalate	0.67	3.6	ND		
Fluorene	0.54	3.6	ND		
4-Chlorophenyl phenyl ether	0.57	3.6	ND		
4-Nitroaniline	0.19	18	ND		
4,6-Dinitro-2-methylphenol	0.70	18	ND		
Diphenylamine	0.56	3.6	ND		
Azobenzene	0.56	3.6	ND		
4-Bromophenyl phenyl ether	0.83	3.6	ND		
Hexachlorobenzene	0.58	3.6	ND		
Pentachlorophenol	0.23	3.6	ND		
Phenanthrene	0.40	3.6	ND		
Anthracene	0.45	3.6	ND		
Carbazole	0.45	3.6	ND		
Di-n-butylphthalate	0.38	3.6	ND		
Fluoranthene	0.39	3.6	ND		
Benzidine	0.10	18	ND		
Pyrene	0.41	3.6	ND		
Benzyl butyl phthalate	0.37	3.6	ND		
Benz[a]anthracene	0.40	3.6	ND		
3,3'-Dichlorobenzidine	0.27	7.2	ND		
Chrysene	0.58	3.6	ND		



### MB Summary Report

<b>Work Order:</b>	1511123	<b>Prep Method:</b>	3510_BNA	<b>Prep Date:</b>	11/18/15	<b>Prep Batch:</b>	15778
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427796
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Bis(2-Ethylhexyl)phthalate	0.31	3.6	ND	
Di-n-octyl phthalate	0.37	3.6	ND	
Benzo[b]fluoranthene	1.1	3.6	ND	
Benzo[k]fluoranthene	1.9	3.6	ND	
Benzo[a]pyrene	0.25	3.6	ND	
Indeno[1,2,3-cd]pyrene	0.50	3.6	ND	
Dibenz[a,h]anthracene	1.2	3.6	ND	
Benzo[g,h,i]perylene	0.45	3.6	ND	
Phenol-d6 (S)			24.2	
2-Fluorophenol (S)			36.1	
2,4,6-Tribromophenol (S)			42.6	
Nitrobenzene-d5 (S)			60.3	
2-Fluorobiphenyl (S)			47.3	
p-Terphenyl-d14 (S)			87.7	

<b>Work Order:</b>	1511123	<b>Prep Method:</b>	5030	<b>Prep Date:</b>	11/16/15	<b>Prep Batch:</b>	15781
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	8260TPH	<b>Analyzed Date:</b>	11/16/15	<b>Analytical Batch:</b>	427772
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Gasoline	31	50	48	
(S) 4-Bromofluorobenzene			112	



## MB Summary Report

<b>Work Order:</b>	1511123	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/16/15	<b>Analytical Batch:</b>	427772
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.18	0.50	ND		
Chloromethane	0.16	0.50	ND		
Vinyl Chloride	0.16	0.50	ND		
Bromomethane	0.18	0.50	ND		
Trichlorofluoromethane	0.18	0.50	ND		
1,1-Dichloroethene	0.15	0.50	ND		
Freon 113	0.19	0.50	ND		
Methylene Chloride	0.23	5.0	ND		
trans-1,2-Dichloroethene	0.19	0.50	ND		
MTBE	0.17	0.50	ND		
tert-Butanol	1.5	5.0	2.9		
Diisopropyl ether (DIPE)	0.13	0.50	ND		
1,1-Dichloroethane	0.13	0.50	ND		
ETBE	0.17	0.50	ND		
cis-1,2-Dichloroethene	0.19	0.50	ND		
2,2-Dichloropropane	0.15	0.50	ND		
Bromochloromethane	0.20	0.50	ND		
Chloroform	0.13	0.50	ND		
Carbon Tetrachloride	0.15	0.50	ND		
1,1,1-Trichloroethane	0.097	0.50	ND		
1,1-Dichloropropene	0.15	0.50	ND		
Benzene	0.13	0.50	ND		
TAME	0.17	0.50	ND		
1,2-Dichloroethane	0.14	0.50	ND		
Trichloroethylene	0.13	0.50	ND		
Dibromomethane	0.15	0.50	ND		
1,2-Dichloropropane	0.17	0.50	ND		
Bromodichloromethane	0.13	0.50	ND		
cis-1,3-Dichloropropene	0.096	0.50	ND		
Toluene	0.14	0.50	ND		
Tetrachloroethylene	0.14	0.50	ND		
trans-1,3-Dichloropropene	0.23	0.50	ND		
1,1,2-Trichloroethane	0.14	0.50	ND		
Dibromochloromethane	0.096	0.50	ND		
1,3-Dichloropropane	0.10	0.50	ND		
1,2-Dibromoethane	0.19	0.50	ND		
Chlorobenzene	0.14	0.50	ND		
Ethyl Benzene	0.15	0.50	ND		
1,1,1,2-Tetrachloroethane	0.096	0.50	ND		
m,p-Xylene	0.13	1.0	ND		
o-Xylene	0.15	0.50	ND		



## MB Summary Report

<b>Work Order:</b>	1511123	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/16/15	<b>Analytical Batch:</b>	427772
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Styrene	0.21	0.50	ND		
Bromoform	0.21	1.0	ND		
Isopropyl Benzene	0.097	0.50	ND		
Bromobenzene	0.15	0.50	ND		
1,1,2,2-Tetrachloroethane	0.11	0.50	ND		
n-Propylbenzene	0.078	0.50	ND		
2-Chlorotoluene	0.076	0.50	ND		
1,3,5,-Trimethylbenzene	0.074	0.50	ND		
4-Chlorotoluene	0.088	0.50	ND		
tert-Butylbenzene	0.081	0.50	ND		
1,2,3-Trichloropropane	0.14	0.50	ND		
1,2,4-Trimethylbenzene	0.083	0.50	ND		
sec-Butyl Benzene	0.092	0.50	ND		
p-Isopropyltoluene	0.093	0.50	ND		
1,3-Dichlorobenzene	0.10	0.50	ND		
1,4-Dichlorobenzene	0.069	0.50	ND		
n-Butylbenzene	0.081	0.50	ND		
1,2-Dichlorobenzene	0.057	0.50	ND		
1,2-Dibromo-3-Chloropropane	0.15	0.50	ND		
Hexachlorobutadiene	0.19	0.50	ND		
1,2,4-Trichlorobenzene	0.12	0.50	0.22		
Naphthalene	0.14	1.0	ND		
1,2,3-Trichlorobenzene	0.23	0.50	ND		
(S) Dibromofluoromethane			104		
(S) Toluene-d8			96.0		
(S) 4-Bromofluorobenzene			90.8		
Ethanol	0.21	0.50	ND	TIC	



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1511123	<b>Prep Method:</b>	3510_TPH	<b>Prep Date:</b>	11/17/15	<b>Prep Batch:</b>	15771
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	11/17/15	<b>Analytical Batch:</b>	427776
<b>Units:</b>	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel	0.0440	0.10	ND	1	89.2	67.7	27.4	50.3 - 125	30	
Pentacosane (S)			0.095	200	96.6	82.2		57.9 - 125		

<b>Work Order:</b>	1511123	<b>Prep Method:</b>	3510_BNA	<b>Prep Date:</b>	11/18/15	<b>Prep Batch:</b>	15778
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427796
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Acenaphthene	0.55	3.6	ND	20	38.7	50.6	26.5	52.5 - 116	30	S
Pyrene	0.41	3.6	ND	20	116	119	2.88	45.9 - 127	30	
Nitrobenzene-d5 (S)			ND	20	52.9	69.8		31.0 - 116		
2-Fluorobiphenyl (S)			ND	20	34.3	44.6		21.3 - 123		
p-Terphenyl-d14 (S)			ND	20	82.7	79.1		10 - 123		

<b>Work Order:</b>	1511123	<b>Prep Method:</b>	5030	<b>Prep Date:</b>	11/16/15	<b>Prep Batch:</b>	15781
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	8260TPH	<b>Analyzed Date:</b>	11/16/15	<b>Analytical Batch:</b>	427772
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	31	50	48	238.1	112	107	4.91	52.4 - 127	30	
(S) 4-Bromofluorobenzene			112	11.9	114	114		41.5 - 125		



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1511123	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/16/15	<b>Analytical Batch:</b>	427772
<b>Units:</b>	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	17.86	94.2	98.8	4.88	61.4 - 129	30	
Benzene	0.087	0.50	ND	17.86	101	104	3.06	66.9 - 140	30	
Trichloroethylene	0.057	0.50	ND	17.86	100	102	1.55	69.3 - 144	30	
Toluene	0.059	0.50	ND	17.86	98.6	100	1.63	76.6 - 123	30	
Chlorobenzene	0.068	0.50	ND	17.86	103	102	1.42	73.9 - 137	30	
(S) Dibromofluoromethane			ND	17.86	87.4	90.4		61.2 - 131		
(S) Toluene-d8			ND	17.86	85.1	87.2		75.1 - 127		
(S) 4-Bromofluorobenzene			ND	17.86	77.0	80.1		64.1 - 120		





## Laboratory Qualifiers and Definitions

### DEFINITIONS:

<b>Accuracy/Bias (% Recovery)</b> - The closeness of agreement between an observed value and an accepted reference value.
<b>Blank (Method/Preparation Blank)</b> -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.
<b>Duplicate</b> - 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)
<b>Laboratory Control Sample (LCS ad LCSD)</b> - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
<b>Matrix</b> - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
<b>Matrix Spike (MS/MSD)</b> - 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.
<b>Method Detection Limit (MDL)</b> - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
<b>Practical Quantitation Limit (PQL)</b> - 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 reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
<b>Precision (%RPD)</b> - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
<b>Surrogate (S) or (Surr)</b> - 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
<b>Tentatively Identified Compound (TIC)</b> - 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.
<b>Units:</b> the unit of measure used to express the reported result - <b>mg/L</b> and <b>mg/Kg</b> (equivalent to PPM - parts per million in <b>liquid</b> and <b>solid</b> ), <b>ug/L</b> and <b>ug/Kg</b> (equivalent to PPB - parts per billion in <b>liquid</b> and <b>solid</b> ), <b>ug/m<sup>3</sup></b> , <b>mg.m<sup>3</sup></b> , <b>ppbv</b> and <b>ppmv</b> (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), <b>ug/Wipe</b> ( concentration found on the surface of a single Wipe usually taken over a 100cm <sup>2</sup> surface)

### LABORATORY QUALIFIERS:

<p><b>B</b> - Indicates when the analyte is found in the associated method or preparation blank</p> <p><b>D</b> - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p><b>E</b> - 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.</p> <p><b>H</b>- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p><b>J</b>- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p><b>NA</b> - Not Analyzed</p> <p><b>N/A</b> - Not Applicable</p> <p><b>NR</b> - 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</p> <p><b>R</b>- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p><b>S</b>- 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</p> <p><b>X</b> -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.</p>
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## Sample Receipt Checklist

Client Name: Golden Gate Tank Removal

Date and Time Received: 11/12/2015 14:30

Project Name: 5930 College Avenue, Oakland

Received By: NG

Work Order No.: 1511123

Physically Logged By: LDI

Checklist Completed By: LDI

Carrier Name: FedEx

### 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? Not Present

### 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: 2 °C  
Water-VOA vials have zero headspace? No  
Water-pH acceptable upon receipt? N/A

pH Checked by: \_\_\_\_\_      pH Adjusted by: \_\_\_\_\_



## Login Summary Report

**Client ID:** TL5128      Golden Gate Tank Removal  
**Project Name:** 5930 College Avenue, Oakland  
**Project # :**  
**Report Due Date:** 11/19/2015

**QC Level:**  
**TAT Requested:** 5+ day:0  
**Date Received:** 11/12/2015  
**Time Received:** 14:30

**Comments:**

**Work Order # :** 1511123

<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>
1511123-001A	MW-1	11/11/15 11:24	Water	12/27/15			EDF W_GCMS-GRO W_8260PetE	
<b>Sample Note:</b>	TPHg,BTEX,Napthalene,MTBA,TBA,EDB,EDC							
1511123-001B	MW-1	11/11/15 11:24	Water	12/27/15			W_TPHDO W_8270CPAH	
1511123-002A	MW-2	11/11/15 10:24	Water	12/27/15			W_GCMS-GRO W_8260PetE	
1511123-002B	MW-2	11/11/15 10:24	Water	12/27/15			W_TPHDO W_8270CPAH	
1511123-003A	MW-3	11/11/15 10:54	Water	12/27/15			W_GCMS-GRO W_8260PetE	
1511123-003B	MW-3	11/11/15 10:54	Water	12/27/15			W_TPHDO W_8270CPAH	
1511123-004A	PW-1	11/11/15 9:52	Water	12/27/15			W_GCMS-GRO W_8260Full	
1511123-004B	PW-1	11/11/15 9:52	Water	12/27/15			W_TPHDO W_8270CPAH	



483 Sinclair Frontage Road  
 Milpitas, CA 95035  
 Phone: 408.263.5258  
 FAX: 408.263.8293  
 www.torrentlab.com

### CHAIN OF CUSTODY

LAB WORK ORDER NO  
 151123

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

Company Name: <b>Golden Gate Tank Removal, Inc.</b>			Location of Sampling: 5930 College Avenue, Oakland		
Address: 1480 Carroll Avenue			Purpose: 4th Quarter 2015 Groundwater Monitoring/Sampling		
City: San Francisco	State: CA	Zip Code: 94124	Special Instructions / Comments: Global ID: T0600102112. Field Point ID=Sample ID		
Telephone: 415-512-1555	FAX: 415-512-0964		DEI # 10541		
REPORT TO: Brent Wheeler	SAMPLER: DEI	P.O. #: GGTR 9497	EMAIL: b.wheeler@ggtr.com		

TURNAROUND TIME:		SAMPLE TYPE:		REPORT FORMAT:		 <b>ANALYSIS REQUESTED</b>
<input type="checkbox"/> 10 Work Days	<input type="checkbox"/> 3 Work Days	<input type="checkbox"/> Noon - Nxt Day	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Air	<input type="checkbox"/> QC Level IV	
<input type="checkbox"/> 7 Work Days	<input type="checkbox"/> 2 Work Days	<input type="checkbox"/> 2 - 8 Hours	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> EDF	
<input checked="" type="checkbox"/> 5 Work Days	<input type="checkbox"/> 1 Work Day	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Ground Water		<input type="checkbox"/> Excel / EDD	

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	TPH-G (8260)	BTEX (8260)	Naphthalene (8260)	MTBE/TBA (8260)	EDB/EDC (8260)	VOCs (Full List)	TPH-D/MO	PAHs (8270)	REMARKS
-001A	MW-1	11-11-15/ 1124	GW	5	Misc.	✓	✓	✓	✓	✓		✓	✓	
-002A	MW-2	11-11-15/ 1024	GW	7	Misc.	✓	✓	✓	✓	✓		✓	✓	
-003A	MW-3	11-11-15/ 1054	GW	7	Misc.	✓	✓	✓	✓	✓		✓	✓	
004A	PW-1	11-11-15/ 0952	GW	7	Misc.	✓					✓	✓	✓	
														Temp - 2°C

1 Relinquished By: <u>Richard Vasquez</u> Print: <u>Richard Vasquez</u> Date: <u>11-11-15</u> Time: <u>1430</u>	Received By: <u>FR#02</u> Print: <u>FR#02</u> Date: <u>11-11-15</u> Time: <u>1430</u>
2 Relinquished By: <u>Richard Vasquez</u> Print: <u>Richard Vasquez</u> Date: <u>11-12-15</u> Time: <u>0800</u>	Received By: <u>Jeremiah Goldberg</u> Print: <u>Jeremiah Goldberg</u> Date: <u>11-12-15</u> Time: <u>9:25 am</u>

Were Samples Received in Good Condition?  Yes  NO Samples on Ice?  Yes  NO Method of Shipment FedEx City Sample seals intact?  Yes  NO  N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Page 1 of 1

Log In By: [Signature] Date: 11/12/15 Log In Reviewed By: [Signature] Date: 11/12/15

1:25 PM 1:25 PM



Golden Gate Tank Removal  
1480 Carroll Ave  
San Francisco, California 94124  
Tel: 415-512-1555  
Email: b.wheeler@ggtr.com  
RE: 5930 College Avenue, Oakland

Work Order No.: 1511128

Dear Brent Wheeler:

Torrent Laboratory, Inc. received 20 sample(s) on November 12, 2015 for the analyses presented in the following Report.

Per Chain of Custody instructions, seven samples were placed on hold.

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, appearing to read "Patti Sandrock", is written over a horizontal line.

\_\_\_\_\_  
Patti Sandrock  
QA Officer

November 19, 2015

\_\_\_\_\_  
Date



**Date:** 11/19/2015

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**Client:** Golden Gate Tank Removal

**Project:** 5930 College Avenue, Oakland

**Work Order:** 1511128

### **CASE NARRATIVE**

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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: Brent Wheeler  
Golden Gate Tank Removal

Date Received: 11/12/15

Date Reported: 11/19/15

B28-3

1511128-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Motor Oil	SW8015B(M)	1	1.00	10	14	mg/Kg

B28-5

1511128-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B(M)	1	0.500	2.0	5.9	mg/Kg
TPH as Motor Oil	SW8015B(M)	1	1.00	10	13	mg/Kg

B28-9

1511128-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B(M)	1	0.500	2.0	6.1	mg/Kg
TPH as Motor Oil	SW8015B(M)	1	1.00	10	12	mg/Kg

B28-13.5

1511128-007

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Ethyl Benzene	SW8260B	100	86	1000	1800	ug/Kg
m,p-Xylene	SW8260B	100	190	1000	4500	ug/Kg
1,3,5-Trimethylbenzene	SW8260B	100	110	1000	1100	ug/Kg
1,2,4-Trimethylbenzene	SW8260B	100	110	1000	4500	ug/Kg
TPH as Gasoline	8260TPH	100	3000	10000	100000	ug/Kg
TPH as Diesel	SW8015B(M)	1	0.500	2.0	24	mg/Kg



### Sample Result Summary

Report prepared for: Brent Wheeler  
Golden Gate Tank Removal

Date Received: 11/12/15

Date Reported: 11/19/15

B29-3

1511128-009

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B(M)	1	0.500	2.0	2.5	mg/Kg

B29-5

1511128-010

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B(M)	1	0.500	2.0	5.1	mg/Kg
TPH as Motor Oil	SW8015B(M)	1	1.00	10	11	mg/Kg

B29-9

1511128-012

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B(M)	1	0.500	2.0	6.0	mg/Kg
TPH as Motor Oil	SW8015B(M)	1	1.00	10	12	mg/Kg

B29-14

1511128-013

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B(M)	1	0.500	2.0	4.2	mg/Kg

B30-3

1511128-015

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.





### Sample Result Summary

Report prepared for: Brent Wheeler  
Golden Gate Tank Removal

Date Received: 11/12/15

Date Reported: 11/19/15

**B30-5**

1511128-016

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B(M)	1	0.500	2.0	4.6	mg/Kg
TPH as Motor Oil	SW8015B(M)	1	1.00	10	10	mg/Kg

**B30-9.5**

1511128-018

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B(M)	1	0.500	2.0	6.5	mg/Kg
TPH as Motor Oil	SW8015B(M)	1	1.00	10	12	mg/Kg

**B30-14**

1511128-019

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Gasoline	8260TPH	100	3000	10000	11000	ug/Kg
TPH as Diesel	SW8015B(M)	1	0.500	2.0	8.5	mg/Kg

**B31-1**

1511128-020

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B(M)	1	0.500	2.0	3.6	mg/Kg
TPH as Motor Oil	SW8015B(M)	1	1.00	10	22	mg/Kg



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B28-3	<b>Lab Sample ID:</b>	1511128-002A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 12:25		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	11/18/15	1	4.4	10	ND		ug/Kg	427783	NA
Isopropyl Alcohol	SW8260B	NA	11/18/15	1	4.6	10	ND		ug/Kg	427783	NA
Vinyl Chloride	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
Bromomethane	SW8260B	NA	11/18/15	1	4.7	10	ND		ug/Kg	427783	NA
Trichlorofluoromethane	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
1,1-Dichloroethene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
Freon 113	SW8260B	NA	11/18/15	1	3.7	10	ND		ug/Kg	427783	NA
Methylene Chloride	SW8260B	NA	11/18/15	1	2.0	50	ND		ug/Kg	427783	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
tert-Butanol	SW8260B	NA	11/18/15	1	21	50	ND		ug/Kg	427783	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,1-Dichloroethane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
ETBE	SW8260B	NA	11/18/15	1	2.4	10	ND		ug/Kg	427783	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
2,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Bromochloromethane	SW8260B	NA	11/18/15	1	2.3	10	ND		ug/Kg	427783	NA
Chloroform	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Carbon Tetrachloride	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
1,1,1-Trichloroethane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
TAME	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
1,2-Dichloroethane	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Trichloroethylene	SW8260B	NA	11/18/15	1	3.9	10	ND		ug/Kg	427783	NA
Dibromomethane	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
Bromodichloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427783	NA
Tetrachloroethylene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2-Trichloroethane	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
Dibromochloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,3-Dichloropropane	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B28-3	<b>Lab Sample ID:</b>	1511128-002A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 12:25		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8260B	NA	11/18/15	1	1.7	10	ND		ug/Kg	427783	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
Chlorobenzene	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427783	NA
Styrene	SW8260B	NA	11/18/15	1	0.77	10	ND		ug/Kg	427783	NA
Bromoform	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Isopropyl Benzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
n-Propylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Bromobenzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	3.0	10	ND		ug/Kg	427783	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,2,3-Trichloropropane	SW8260B	NA	11/18/15	1	3.3	10	ND		ug/Kg	427783	NA
4-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
2-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
tert-Butylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
sec-Butyl Benzene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
p-Isopropyltoluene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
1,3-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
1,4-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
n-Butylbenzene	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
Hexachlorobutadiene	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427783	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	86.1		%	427783	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	77.7		%	427783	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	82.4		%	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B28-3	<b>Lab Sample ID:</b>	1511128-002A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 12:25		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	ND		ug/Kg	427783	15790
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	113		%	427783	15790

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/12/15	11/16/15	1	0.500	2.0	ND		mg/Kg	427725	15745
TPH as Motor Oil	SW8015B(M)	11/12/15	11/16/15	1	1.00	10	14		mg/Kg	427725	15745
Pentacosane (S)	SW8015B(M)	11/12/15	11/16/15	1	57.9	129	91.3		%	427725	15745



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B28-5	<b>Lab Sample ID:</b>	1511128-003A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 13:00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	11/18/15	1	4.4	10	ND		ug/Kg	427783	NA
Isopropyl Alcohol	SW8260B	NA	11/18/15	1	4.6	10	ND		ug/Kg	427783	NA
Vinyl Chloride	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
Bromomethane	SW8260B	NA	11/18/15	1	4.7	10	ND		ug/Kg	427783	NA
Trichlorofluoromethane	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
1,1-Dichloroethene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
Freon 113	SW8260B	NA	11/18/15	1	3.7	10	ND		ug/Kg	427783	NA
Methylene Chloride	SW8260B	NA	11/18/15	1	2.0	50	ND		ug/Kg	427783	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
tert-Butanol	SW8260B	NA	11/18/15	1	21	50	ND		ug/Kg	427783	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,1-Dichloroethane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
ETBE	SW8260B	NA	11/18/15	1	2.4	10	ND		ug/Kg	427783	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
2,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Bromochloromethane	SW8260B	NA	11/18/15	1	2.3	10	ND		ug/Kg	427783	NA
Chloroform	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Carbon Tetrachloride	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
1,1,1-Trichloroethane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
TAME	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
1,2-Dichloroethane	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Trichloroethylene	SW8260B	NA	11/18/15	1	3.9	10	ND		ug/Kg	427783	NA
Dibromomethane	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
Bromodichloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427783	NA
Tetrachloroethylene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2-Trichloroethane	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
Dibromochloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,3-Dichloropropane	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B28-5	<b>Lab Sample ID:</b>	1511128-003A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 13:00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8260B	NA	11/18/15	1	1.7	10	ND		ug/Kg	427783	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
Chlorobenzene	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427783	NA
Styrene	SW8260B	NA	11/18/15	1	0.77	10	ND		ug/Kg	427783	NA
Bromoform	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Isopropyl Benzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
n-Propylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Bromobenzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	3.0	10	ND		ug/Kg	427783	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,2,3-Trichloropropane	SW8260B	NA	11/18/15	1	3.3	10	ND		ug/Kg	427783	NA
4-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
2-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
tert-Butylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
sec-Butyl Benzene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
p-Isopropyltoluene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
1,3-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
1,4-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
n-Butylbenzene	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
Hexachlorobutadiene	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427783	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	86.2		%	427783	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	76.4		%	427783	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	81.3		%	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B28-5	<b>Lab Sample ID:</b>	1511128-003A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 13:00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	ND		ug/Kg	427783	15790
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	118		%	427783	15790

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/12/15	11/16/15	1	0.500	2.0	5.9	x	mg/Kg	427725	15745
TPH as Motor Oil	SW8015B(M)	11/12/15	11/16/15	1	1.00	10	13		mg/Kg	427725	15745
Pentacosane (S)	SW8015B(M)	11/12/15	11/16/15	1	57.9	129	116		%	427725	15745

**NOTE:** x- Diesel result due to unknown discrete peak(s) within quantified range



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B28-9	<b>Lab Sample ID:</b>	1511128-005A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 13:25		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	11/18/15	1	4.4	10	ND		ug/Kg	427783	NA
Isopropyl Alcohol	SW8260B	NA	11/18/15	1	4.6	10	ND		ug/Kg	427783	NA
Vinyl Chloride	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
Bromomethane	SW8260B	NA	11/18/15	1	4.7	10	ND		ug/Kg	427783	NA
Trichlorofluoromethane	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
1,1-Dichloroethene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
Freon 113	SW8260B	NA	11/18/15	1	3.7	10	ND		ug/Kg	427783	NA
Methylene Chloride	SW8260B	NA	11/18/15	1	2.0	50	ND		ug/Kg	427783	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
tert-Butanol	SW8260B	NA	11/18/15	1	21	50	ND		ug/Kg	427783	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,1-Dichloroethane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
ETBE	SW8260B	NA	11/18/15	1	2.4	10	ND		ug/Kg	427783	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
2,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Bromochloromethane	SW8260B	NA	11/18/15	1	2.3	10	ND		ug/Kg	427783	NA
Chloroform	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Carbon Tetrachloride	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
1,1,1-Trichloroethane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
TAME	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
1,2-Dichloroethane	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Trichloroethylene	SW8260B	NA	11/18/15	1	3.9	10	ND		ug/Kg	427783	NA
Dibromomethane	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
Bromodichloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427783	NA
Tetrachloroethylene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2-Trichloroethane	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
Dibromochloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,3-Dichloropropane	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA





## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B28-9	<b>Lab Sample ID:</b>	1511128-005A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 13:25		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8260B	NA	11/18/15	1	1.7	10	ND		ug/Kg	427783	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
Chlorobenzene	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427783	NA
Styrene	SW8260B	NA	11/18/15	1	0.77	10	ND		ug/Kg	427783	NA
Bromoform	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Isopropyl Benzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
n-Propylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Bromobenzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	3.0	10	ND		ug/Kg	427783	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,2,3-Trichloropropane	SW8260B	NA	11/18/15	1	3.3	10	ND		ug/Kg	427783	NA
4-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
2-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
tert-Butylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
sec-Butyl Benzene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
p-Isopropyltoluene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
1,3-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
1,4-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
n-Butylbenzene	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
Hexachlorobutadiene	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427783	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	91.2		%	427783	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	74.7		%	427783	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	81.9		%	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B28-9	<b>Lab Sample ID:</b>	1511128-005A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 13:25		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	ND		ug/Kg	427783	15790
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	74.0		%	427783	15790

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/12/15	11/16/15	1	0.500	2.0	6.1	x	mg/Kg	427725	15745
TPH as Motor Oil	SW8015B(M)	11/12/15	11/16/15	1	1.00	10	12		mg/Kg	427725	15745
Pentacosane (S)	SW8015B(M)	11/12/15	11/16/15	1	57.9	129	101		%	427725	15745

**NOTE:** x- Diesel result due to unknown discrete peak(s) within quantified range



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B28-13.5	<b>Lab Sample ID:</b>	1511128-007A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 13:30		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	11/18/15	100	440	1000	ND		ug/Kg	427783	NA
Isopropyl Alcohol	SW8260B	NA	11/18/15	100	460	1000	ND		ug/Kg	427783	NA
Vinyl Chloride	SW8260B	NA	11/18/15	100	260	1000	ND		ug/Kg	427783	NA
Bromomethane	SW8260B	NA	11/18/15	100	470	1000	ND		ug/Kg	427783	NA
Trichlorofluoromethane	SW8260B	NA	11/18/15	100	290	1000	ND		ug/Kg	427783	NA
1,1-Dichloroethene	SW8260B	NA	11/18/15	100	150	1000	ND		ug/Kg	427783	NA
Freon 113	SW8260B	NA	11/18/15	100	370	1000	ND		ug/Kg	427783	NA
Methylene Chloride	SW8260B	NA	11/18/15	100	200	5000	ND		ug/Kg	427783	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/18/15	100	110	1000	ND		ug/Kg	427783	NA
MTBE	SW8260B	NA	11/18/15	100	260	1000	ND		ug/Kg	427783	NA
tert-Butanol	SW8260B	NA	11/18/15	100	2100	5000	ND		ug/Kg	427783	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/18/15	100	220	1000	ND		ug/Kg	427783	NA
1,1-Dichloroethane	SW8260B	NA	11/18/15	100	130	1000	ND		ug/Kg	427783	NA
ETBE	SW8260B	NA	11/18/15	100	240	1000	ND		ug/Kg	427783	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/18/15	100	180	1000	ND		ug/Kg	427783	NA
2,2-Dichloropropane	SW8260B	NA	11/18/15	100	120	1000	ND		ug/Kg	427783	NA
Bromochloromethane	SW8260B	NA	11/18/15	100	230	1000	ND		ug/Kg	427783	NA
Chloroform	SW8260B	NA	11/18/15	100	120	1000	ND		ug/Kg	427783	NA
Carbon Tetrachloride	SW8260B	NA	11/18/15	100	160	1000	ND		ug/Kg	427783	NA
1,1,1-Trichloroethane	SW8260B	NA	11/18/15	100	120	1000	ND		ug/Kg	427783	NA
1,1-Dichloropropene	SW8260B	NA	11/18/15	100	140	1000	ND		ug/Kg	427783	NA
Benzene	SW8260B	NA	11/18/15	100	150	1000	ND		ug/Kg	427783	NA
TAME	SW8260B	NA	11/18/15	100	210	1000	ND		ug/Kg	427783	NA
1,2-Dichloroethane	SW8260B	NA	11/18/15	100	190	1000	ND		ug/Kg	427783	NA
Trichloroethylene	SW8260B	NA	11/18/15	100	390	1000	ND		ug/Kg	427783	NA
Dibromomethane	SW8260B	NA	11/18/15	100	220	1000	ND		ug/Kg	427783	NA
1,2-Dichloropropane	SW8260B	NA	11/18/15	100	130	1000	ND		ug/Kg	427783	NA
Bromodichloromethane	SW8260B	NA	11/18/15	100	110	1000	ND		ug/Kg	427783	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/18/15	100	140	1000	ND		ug/Kg	427783	NA
Toluene	SW8260B	NA	11/18/15	100	98	1000	ND		ug/Kg	427783	NA
Tetrachloroethylene	SW8260B	NA	11/18/15	100	180	1000	ND		ug/Kg	427783	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/18/15	100	120	1000	ND		ug/Kg	427783	NA
1,1,2-Trichloroethane	SW8260B	NA	11/18/15	100	180	1000	ND		ug/Kg	427783	NA
Dibromochloromethane	SW8260B	NA	11/18/15	100	110	1000	ND		ug/Kg	427783	NA
1,3-Dichloropropane	SW8260B	NA	11/18/15	100	210	1000	ND		ug/Kg	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B28-13.5	<b>Lab Sample ID:</b>	1511128-007A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 13:30		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8260B	NA	11/18/15	100	170	1000	ND		ug/Kg	427783	NA
Ethyl Benzene	SW8260B	NA	11/18/15	100	86	1000	1800		ug/Kg	427783	NA
Chlorobenzene	SW8260B	NA	11/18/15	100	420	1000	ND		ug/Kg	427783	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/18/15	100	86	1000	ND		ug/Kg	427783	NA
m,p-Xylene	SW8260B	NA	11/18/15	100	190	1000	4500		ug/Kg	427783	NA
o-Xylene	SW8260B	NA	11/18/15	100	66	500	ND		ug/Kg	427783	NA
Styrene	SW8260B	NA	11/18/15	100	77	1000	ND		ug/Kg	427783	NA
Bromoform	SW8260B	NA	11/18/15	100	190	1000	ND		ug/Kg	427783	NA
Isopropyl Benzene	SW8260B	NA	11/18/15	100	120	1000	ND		ug/Kg	427783	NA
n-Propylbenzene	SW8260B	NA	11/18/15	100	140	1000	ND		ug/Kg	427783	NA
Bromobenzene	SW8260B	NA	11/18/15	100	120	1000	ND		ug/Kg	427783	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/18/15	100	300	1000	ND		ug/Kg	427783	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/18/15	100	110	1000	1100		ug/Kg	427783	NA
1,2,3-Trichloropropane	SW8260B	NA	11/18/15	100	330	1000	ND		ug/Kg	427783	NA
4-Chlorotoluene	SW8260B	NA	11/18/15	100	160	1000	ND		ug/Kg	427783	NA
2-Chlorotoluene	SW8260B	NA	11/18/15	100	160	1000	ND		ug/Kg	427783	NA
tert-Butylbenzene	SW8260B	NA	11/18/15	100	140	1000	ND		ug/Kg	427783	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/18/15	100	110	1000	4500		ug/Kg	427783	NA
sec-Butyl Benzene	SW8260B	NA	11/18/15	100	160	1000	ND		ug/Kg	427783	NA
p-Isopropyltoluene	SW8260B	NA	11/18/15	100	150	1000	ND		ug/Kg	427783	NA
1,3-Dichlorobenzene	SW8260B	NA	11/18/15	100	180	1000	ND		ug/Kg	427783	NA
1,4-Dichlorobenzene	SW8260B	NA	11/18/15	100	150	1000	ND		ug/Kg	427783	NA
n-Butylbenzene	SW8260B	NA	11/18/15	100	220	1000	ND		ug/Kg	427783	NA
1,2-Dichlorobenzene	SW8260B	NA	11/18/15	100	130	1000	ND		ug/Kg	427783	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/18/15	100	420	1000	ND		ug/Kg	427783	NA
Hexachlorobutadiene	SW8260B	NA	11/18/15	100	260	1000	ND		ug/Kg	427783	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/18/15	100	210	1000	ND		ug/Kg	427783	NA
Naphthalene	SW8260B	NA	11/18/15	100	280	1000	ND		ug/Kg	427783	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/18/15	100	290	1000	ND		ug/Kg	427783	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	100	59.8	148	84.9		%	427783	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	100	55.2	133	85.3		%	427783	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	100	55.8	141	81.1		%	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B28-13.5	<b>Lab Sample ID:</b>	1511128-007A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 13:30		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	100	3000	10000	100000	x	ug/Kg	427783	15790
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	100	43.9	127	98.4		%	427783	15790

**NOTE:** x- Although TPH as Gasoline constituents are present, sample chromatogram does not match pattern of reference Gasoline standard. Reported TPH value includes amount due heavy end hydrocarbons (possibly aged gasoline) within range of C5-C12 quantified as

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/12/15	11/16/15	1	0.500	2.0	24	x	mg/Kg	427725	15745
TPH as Motor Oil	SW8015B(M)	11/12/15	11/16/15	1	1.00	10	ND		mg/Kg	427725	15745
Pentacosane (S)	SW8015B(M)	11/12/15	11/16/15	1	57.9	129	96.0		%	427725	15745

**NOTE:** x- Diesel result due to unknown organics within quantified range



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B29-3	<b>Lab Sample ID:</b>	1511128-009A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 11:10		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	11/18/15	1	4.4	10	ND		ug/Kg	427783	NA
Isopropyl Alcohol	SW8260B	NA	11/18/15	1	4.6	10	ND		ug/Kg	427783	NA
Vinyl Chloride	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
Bromomethane	SW8260B	NA	11/18/15	1	4.7	10	ND		ug/Kg	427783	NA
Trichlorofluoromethane	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
1,1-Dichloroethene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
Freon 113	SW8260B	NA	11/18/15	1	3.7	10	ND		ug/Kg	427783	NA
Methylene Chloride	SW8260B	NA	11/18/15	1	2.0	50	ND		ug/Kg	427783	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
tert-Butanol	SW8260B	NA	11/18/15	1	21	50	ND		ug/Kg	427783	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,1-Dichloroethane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
ETBE	SW8260B	NA	11/18/15	1	2.4	10	ND		ug/Kg	427783	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
2,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Bromochloromethane	SW8260B	NA	11/18/15	1	2.3	10	ND		ug/Kg	427783	NA
Chloroform	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Carbon Tetrachloride	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
1,1,1-Trichloroethane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
TAME	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
1,2-Dichloroethane	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Trichloroethylene	SW8260B	NA	11/18/15	1	3.9	10	ND		ug/Kg	427783	NA
Dibromomethane	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
Bromodichloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427783	NA
Tetrachloroethylene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2-Trichloroethane	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
Dibromochloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,3-Dichloropropane	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B29-3	<b>Lab Sample ID:</b>	1511128-009A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 11:10		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8260B	NA	11/18/15	1	1.7	10	ND		ug/Kg	427783	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
Chlorobenzene	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427783	NA
Styrene	SW8260B	NA	11/18/15	1	0.77	10	ND		ug/Kg	427783	NA
Bromoform	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Isopropyl Benzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
n-Propylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Bromobenzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	3.0	10	ND		ug/Kg	427783	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,2,3-Trichloropropane	SW8260B	NA	11/18/15	1	3.3	10	ND		ug/Kg	427783	NA
4-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
2-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
tert-Butylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
sec-Butyl Benzene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
p-Isopropyltoluene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
1,3-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
1,4-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
n-Butylbenzene	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
Hexachlorobutadiene	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427783	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	87.7		%	427783	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	80.5		%	427783	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	83.4		%	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B29-3	<b>Lab Sample ID:</b>	1511128-009A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 11:10		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	ND		ug/Kg	427783	15790
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	62.3		%	427783	15790

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/12/15	11/16/15	1	0.500	2.0	2.5	x	mg/Kg	427725	15745
TPH as Motor Oil	SW8015B(M)	11/12/15	11/16/15	1	1.00	10	ND		mg/Kg	427725	15745
Pentacosane (S)	SW8015B(M)	11/12/15	11/16/15	1	57.9	129	110		%	427725	15745

**NOTE:** x- Diesel result due to unknown organics within quantified range





## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B29-5	<b>Lab Sample ID:</b>	1511128-010A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 12:00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	11/18/15	1	4.4	10	ND		ug/Kg	427783	NA
Isopropyl Alcohol	SW8260B	NA	11/18/15	1	4.6	10	ND		ug/Kg	427783	NA
Vinyl Chloride	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
Bromomethane	SW8260B	NA	11/18/15	1	4.7	10	ND		ug/Kg	427783	NA
Trichlorofluoromethane	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
1,1-Dichloroethene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
Freon 113	SW8260B	NA	11/18/15	1	3.7	10	ND		ug/Kg	427783	NA
Methylene Chloride	SW8260B	NA	11/18/15	1	2.0	50	ND		ug/Kg	427783	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
tert-Butanol	SW8260B	NA	11/18/15	1	21	50	ND		ug/Kg	427783	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,1-Dichloroethane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
ETBE	SW8260B	NA	11/18/15	1	2.4	10	ND		ug/Kg	427783	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
2,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Bromochloromethane	SW8260B	NA	11/18/15	1	2.3	10	ND		ug/Kg	427783	NA
Chloroform	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Carbon Tetrachloride	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
1,1,1-Trichloroethane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
TAME	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
1,2-Dichloroethane	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Trichloroethylene	SW8260B	NA	11/18/15	1	3.9	10	ND		ug/Kg	427783	NA
Dibromomethane	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
Bromodichloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427783	NA
Tetrachloroethylene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2-Trichloroethane	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
Dibromochloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,3-Dichloropropane	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B29-5	<b>Lab Sample ID:</b>	1511128-010A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 12:00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8260B	NA	11/18/15	1	1.7	10	ND		ug/Kg	427783	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
Chlorobenzene	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427783	NA
Styrene	SW8260B	NA	11/18/15	1	0.77	10	ND		ug/Kg	427783	NA
Bromoform	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Isopropyl Benzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
n-Propylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Bromobenzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	3.0	10	ND		ug/Kg	427783	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,2,3-Trichloropropane	SW8260B	NA	11/18/15	1	3.3	10	ND		ug/Kg	427783	NA
4-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
2-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
tert-Butylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
sec-Butyl Benzene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
p-Isopropyltoluene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
1,3-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
1,4-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
n-Butylbenzene	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
Hexachlorobutadiene	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427783	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	93.6		%	427783	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	79.9		%	427783	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	88.0		%	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B29-5	<b>Lab Sample ID:</b>	1511128-010A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 12:00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	ND		ug/Kg	427783	15790
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	68.5		%	427783	15790

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/12/15	11/16/15	1	0.500	2.0	5.1	x	mg/Kg	427725	15745
TPH as Motor Oil	SW8015B(M)	11/12/15	11/16/15	1	1.00	10	11		mg/Kg	427725	15745
Pentacosane (S)	SW8015B(M)	11/12/15	11/16/15	1	57.9	129	86.0		%	427725	15745

**NOTE:** x- Diesel result due to unknown discrete peak(s) within quantified range



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B29-9	<b>Lab Sample ID:</b>	1511128-012A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 12:10		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	11/18/15	1	4.4	10	ND		ug/Kg	427783	NA
Isopropyl Alcohol	SW8260B	NA	11/18/15	1	4.6	10	ND		ug/Kg	427783	NA
Vinyl Chloride	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
Bromomethane	SW8260B	NA	11/18/15	1	4.7	10	ND		ug/Kg	427783	NA
Trichlorofluoromethane	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
1,1-Dichloroethene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
Freon 113	SW8260B	NA	11/18/15	1	3.7	10	ND		ug/Kg	427783	NA
Methylene Chloride	SW8260B	NA	11/18/15	1	2.0	50	ND		ug/Kg	427783	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
tert-Butanol	SW8260B	NA	11/18/15	1	21	50	ND		ug/Kg	427783	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,1-Dichloroethane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
ETBE	SW8260B	NA	11/18/15	1	2.4	10	ND		ug/Kg	427783	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
2,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Bromochloromethane	SW8260B	NA	11/18/15	1	2.3	10	ND		ug/Kg	427783	NA
Chloroform	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Carbon Tetrachloride	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
1,1,1-Trichloroethane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
TAME	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
1,2-Dichloroethane	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Trichloroethylene	SW8260B	NA	11/18/15	1	3.9	10	ND		ug/Kg	427783	NA
Dibromomethane	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
Bromodichloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427783	NA
Tetrachloroethylene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2-Trichloroethane	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
Dibromochloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,3-Dichloropropane	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B29-9	<b>Lab Sample ID:</b>	1511128-012A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 12:10		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8260B	NA	11/18/15	1	1.7	10	ND		ug/Kg	427783	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
Chlorobenzene	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427783	NA
Styrene	SW8260B	NA	11/18/15	1	0.77	10	ND		ug/Kg	427783	NA
Bromoform	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Isopropyl Benzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
n-Propylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Bromobenzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	3.0	10	ND		ug/Kg	427783	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,2,3-Trichloropropane	SW8260B	NA	11/18/15	1	3.3	10	ND		ug/Kg	427783	NA
4-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
2-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
tert-Butylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
sec-Butyl Benzene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
p-Isopropyltoluene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
1,3-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
1,4-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
n-Butylbenzene	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
Hexachlorobutadiene	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427783	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	92.3		%	427783	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	78.9		%	427783	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	84.5		%	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B29-9	<b>Lab Sample ID:</b>	1511128-012A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 12:10		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	ND		ug/Kg	427783	15790
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	66.4		%	427783	15790

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/12/15	11/16/15	1	0.500	2.0	6.0	x	mg/Kg	427725	15745
TPH as Motor Oil	SW8015B(M)	11/12/15	11/16/15	1	1.00	10	12		mg/Kg	427725	15745
Pentacosane (S)	SW8015B(M)	11/12/15	11/16/15	1	57.9	129	79.7		%	427725	15745

**NOTE:** x- Diesel result due to unknown discrete peak(s) within quantified range



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B29-14	<b>Lab Sample ID:</b>	1511128-013A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 12:15		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	11/18/15	1	4.4	10	ND		ug/Kg	427783	NA
Isopropyl Alcohol	SW8260B	NA	11/18/15	1	4.6	10	ND		ug/Kg	427783	NA
Vinyl Chloride	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
Bromomethane	SW8260B	NA	11/18/15	1	4.7	10	ND		ug/Kg	427783	NA
Trichlorofluoromethane	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
1,1-Dichloroethene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
Freon 113	SW8260B	NA	11/18/15	1	3.7	10	ND		ug/Kg	427783	NA
Methylene Chloride	SW8260B	NA	11/18/15	1	2.0	50	ND		ug/Kg	427783	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
tert-Butanol	SW8260B	NA	11/18/15	1	21	50	ND		ug/Kg	427783	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,1-Dichloroethane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
ETBE	SW8260B	NA	11/18/15	1	2.4	10	ND		ug/Kg	427783	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
2,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Bromochloromethane	SW8260B	NA	11/18/15	1	2.3	10	ND		ug/Kg	427783	NA
Chloroform	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Carbon Tetrachloride	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
1,1,1-Trichloroethane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
TAME	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
1,2-Dichloroethane	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Trichloroethylene	SW8260B	NA	11/18/15	1	3.9	10	ND		ug/Kg	427783	NA
Dibromomethane	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
Bromodichloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427783	NA
Tetrachloroethylene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2-Trichloroethane	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
Dibromochloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,3-Dichloropropane	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B29-14	<b>Lab Sample ID:</b>	1511128-013A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 12:15		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8260B	NA	11/18/15	1	1.7	10	ND		ug/Kg	427783	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
Chlorobenzene	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427783	NA
Styrene	SW8260B	NA	11/18/15	1	0.77	10	ND		ug/Kg	427783	NA
Bromoform	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Isopropyl Benzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
n-Propylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Bromobenzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	3.0	10	ND		ug/Kg	427783	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,2,3-Trichloropropane	SW8260B	NA	11/18/15	1	3.3	10	ND		ug/Kg	427783	NA
4-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
2-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
tert-Butylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
sec-Butyl Benzene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
p-Isopropyltoluene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
1,3-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
1,4-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
n-Butylbenzene	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
Hexachlorobutadiene	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427783	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	92.3		%	427783	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	76.7		%	427783	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	84.4		%	427783	NA





## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B29-14	<b>Lab Sample ID:</b>	1511128-013A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 12:15		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	ND		ug/Kg	427783	15790
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	62.2		%	427783	15790

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/13/15	11/16/15	1	0.500	2.0	4.2	x	mg/Kg	427725	15748
TPH as Motor Oil	SW8015B(M)	11/13/15	11/16/15	1	1.00	10	ND		mg/Kg	427725	15748
Pentacosane (S)	SW8015B(M)	11/13/15	11/16/15	1	57.9	129	87.0		%	427725	15748

**NOTE:** x- Diesel result due to unknown discrete peak(s) within quantified range



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B30-3	<b>Lab Sample ID:</b>	1511128-015A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 10:15		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	11/18/15	1	4.4	10	ND		ug/Kg	427783	NA
Isopropyl Alcohol	SW8260B	NA	11/18/15	1	4.6	10	ND		ug/Kg	427783	NA
Vinyl Chloride	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
Bromomethane	SW8260B	NA	11/18/15	1	4.7	10	ND		ug/Kg	427783	NA
Trichlorofluoromethane	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
1,1-Dichloroethene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
Freon 113	SW8260B	NA	11/18/15	1	3.7	10	ND		ug/Kg	427783	NA
Methylene Chloride	SW8260B	NA	11/18/15	1	2.0	50	ND		ug/Kg	427783	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
tert-Butanol	SW8260B	NA	11/18/15	1	21	50	ND		ug/Kg	427783	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,1-Dichloroethane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
ETBE	SW8260B	NA	11/18/15	1	2.4	10	ND		ug/Kg	427783	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
2,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Bromochloromethane	SW8260B	NA	11/18/15	1	2.3	10	ND		ug/Kg	427783	NA
Chloroform	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Carbon Tetrachloride	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
1,1,1-Trichloroethane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
TAME	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
1,2-Dichloroethane	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Trichloroethylene	SW8260B	NA	11/18/15	1	3.9	10	ND		ug/Kg	427783	NA
Dibromomethane	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
Bromodichloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427783	NA
Tetrachloroethylene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2-Trichloroethane	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
Dibromochloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,3-Dichloropropane	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B30-3	<b>Lab Sample ID:</b>	1511128-015A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 10:15		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8260B	NA	11/18/15	1	1.7	10	ND		ug/Kg	427783	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
Chlorobenzene	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427783	NA
Styrene	SW8260B	NA	11/18/15	1	0.77	10	ND		ug/Kg	427783	NA
Bromoform	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Isopropyl Benzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
n-Propylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Bromobenzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	3.0	10	ND		ug/Kg	427783	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,2,3-Trichloropropane	SW8260B	NA	11/18/15	1	3.3	10	ND		ug/Kg	427783	NA
4-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
2-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
tert-Butylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
sec-Butyl Benzene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
p-Isopropyltoluene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
1,3-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
1,4-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
n-Butylbenzene	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
Hexachlorobutadiene	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427783	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	95.5		%	427783	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	79.2		%	427783	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	85.9		%	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B30-3	<b>Lab Sample ID:</b>	1511128-015A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 10:15		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	ND		ug/Kg	427783	15790
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	56.8		%	427783	15790

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/13/15	11/16/15	1	0.500	2.0	ND		mg/Kg	427725	15748
TPH as Motor Oil	SW8015B(M)	11/13/15	11/16/15	1	1.00	10	ND		mg/Kg	427725	15748
Pentacosane (S)	SW8015B(M)	11/13/15	11/16/15	1	57.9	129	81.9		%	427725	15748



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B30-5	<b>Lab Sample ID:</b>	1511128-016A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 10:20		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	11/18/15	1	4.4	10	ND		ug/Kg	427783	NA
Isopropyl Alcohol	SW8260B	NA	11/18/15	1	4.6	10	ND		ug/Kg	427783	NA
Vinyl Chloride	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
Bromomethane	SW8260B	NA	11/18/15	1	4.7	10	ND		ug/Kg	427783	NA
Trichlorofluoromethane	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
1,1-Dichloroethene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
Freon 113	SW8260B	NA	11/18/15	1	3.7	10	ND		ug/Kg	427783	NA
Methylene Chloride	SW8260B	NA	11/18/15	1	2.0	50	ND		ug/Kg	427783	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
tert-Butanol	SW8260B	NA	11/18/15	1	21	50	ND		ug/Kg	427783	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,1-Dichloroethane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
ETBE	SW8260B	NA	11/18/15	1	2.4	10	ND		ug/Kg	427783	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
2,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Bromochloromethane	SW8260B	NA	11/18/15	1	2.3	10	ND		ug/Kg	427783	NA
Chloroform	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Carbon Tetrachloride	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
1,1,1-Trichloroethane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
TAME	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
1,2-Dichloroethane	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Trichloroethylene	SW8260B	NA	11/18/15	1	3.9	10	ND		ug/Kg	427783	NA
Dibromomethane	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
Bromodichloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427783	NA
Tetrachloroethylene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2-Trichloroethane	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
Dibromochloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,3-Dichloropropane	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B30-5	<b>Lab Sample ID:</b>	1511128-016A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 10:20		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8260B	NA	11/18/15	1	1.7	10	ND		ug/Kg	427783	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
Chlorobenzene	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427783	NA
Styrene	SW8260B	NA	11/18/15	1	0.77	10	ND		ug/Kg	427783	NA
Bromoform	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Isopropyl Benzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
n-Propylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Bromobenzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	3.0	10	ND		ug/Kg	427783	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,2,3-Trichloropropane	SW8260B	NA	11/18/15	1	3.3	10	ND		ug/Kg	427783	NA
4-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
2-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
tert-Butylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
sec-Butyl Benzene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
p-Isopropyltoluene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
1,3-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
1,4-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
n-Butylbenzene	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
Hexachlorobutadiene	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427783	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	95.9		%	427783	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	77.9		%	427783	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	84.5		%	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B30-5	<b>Lab Sample ID:</b>	1511128-016A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 10:20		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	ND		ug/Kg	427783	15790
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	61.3		%	427783	15790

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/13/15	11/16/15	1	0.500	2.0	4.6	x	mg/Kg	427725	15748
TPH as Motor Oil	SW8015B(M)	11/13/15	11/16/15	1	1.00	10	10		mg/Kg	427725	15748
Pentacosane (S)	SW8015B(M)	11/13/15	11/16/15	1	57.9	129	95.8		%	427725	15748

**NOTE:** x- Diesel result due to unknown discrete peak(s) within quantified range



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B30-9.5	<b>Lab Sample ID:</b>	1511128-018A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 10:25		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	11/18/15	1	4.4	10	ND		ug/Kg	427783	NA
Isopropyl Alcohol	SW8260B	NA	11/18/15	1	4.6	10	ND		ug/Kg	427783	NA
Vinyl Chloride	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
Bromomethane	SW8260B	NA	11/18/15	1	4.7	10	ND		ug/Kg	427783	NA
Trichlorofluoromethane	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
1,1-Dichloroethene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
Freon 113	SW8260B	NA	11/18/15	1	3.7	10	ND		ug/Kg	427783	NA
Methylene Chloride	SW8260B	NA	11/18/15	1	2.0	50	ND		ug/Kg	427783	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
tert-Butanol	SW8260B	NA	11/18/15	1	21	50	ND		ug/Kg	427783	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,1-Dichloroethane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
ETBE	SW8260B	NA	11/18/15	1	2.4	10	ND		ug/Kg	427783	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
2,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Bromochloromethane	SW8260B	NA	11/18/15	1	2.3	10	ND		ug/Kg	427783	NA
Chloroform	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Carbon Tetrachloride	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
1,1,1-Trichloroethane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
TAME	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
1,2-Dichloroethane	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Trichloroethylene	SW8260B	NA	11/18/15	1	3.9	10	ND		ug/Kg	427783	NA
Dibromomethane	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
Bromodichloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427783	NA
Tetrachloroethylene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2-Trichloroethane	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
Dibromochloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,3-Dichloropropane	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA





## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B30-9.5	<b>Lab Sample ID:</b>	1511128-018A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 10:25		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8260B	NA	11/18/15	1	1.7	10	ND		ug/Kg	427783	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
Chlorobenzene	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427783	NA
Styrene	SW8260B	NA	11/18/15	1	0.77	10	ND		ug/Kg	427783	NA
Bromoform	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Isopropyl Benzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
n-Propylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Bromobenzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	3.0	10	ND		ug/Kg	427783	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,2,3-Trichloropropane	SW8260B	NA	11/18/15	1	3.3	10	ND		ug/Kg	427783	NA
4-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
2-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
tert-Butylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
sec-Butyl Benzene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
p-Isopropyltoluene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
1,3-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
1,4-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
n-Butylbenzene	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
Hexachlorobutadiene	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427783	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	91.9		%	427783	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	73.3		%	427783	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	85.2		%	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B30-9.5	<b>Lab Sample ID:</b>	1511128-018A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 10:25		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	ND		ug/Kg	427783	15790
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	60.7		%	427783	15790

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/13/15	11/16/15	1	0.500	2.0	6.5	x	mg/Kg	427725	15748
TPH as Motor Oil	SW8015B(M)	11/13/15	11/16/15	1	1.00	10	12		mg/Kg	427725	15748
Pentacosane (S)	SW8015B(M)	11/13/15	11/16/15	1	57.9	129	96.5		%	427725	15748

**NOTE:** x- Diesel result due to unknown discrete peak(s) within quantified range



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B30-14	<b>Lab Sample ID:</b>	1511128-019A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 10:45		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Dichlorodifluoromethane	SW8260B	NA	11/18/15	100	440	1000	ND		ug/Kg	427801	NA
Isopropyl Alcohol	SW8260B	NA	11/18/15	100	460	1000	ND		ug/Kg	427801	NA
Vinyl Chloride	SW8260B	NA	11/18/15	100	260	1000	ND		ug/Kg	427801	NA
Bromomethane	SW8260B	NA	11/18/15	100	470	1000	ND		ug/Kg	427801	NA
Trichlorofluoromethane	SW8260B	NA	11/18/15	100	290	1000	ND		ug/Kg	427801	NA
1,1-Dichloroethene	SW8260B	NA	11/18/15	100	150	1000	ND		ug/Kg	427801	NA
Freon 113	SW8260B	NA	11/18/15	100	370	1000	ND		ug/Kg	427801	NA
Methylene Chloride	SW8260B	NA	11/18/15	100	200	5000	ND		ug/Kg	427801	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/18/15	100	110	1000	ND		ug/Kg	427801	NA
MTBE	SW8260B	NA	11/18/15	100	260	1000	ND		ug/Kg	427801	NA
tert-Butanol	SW8260B	NA	11/18/15	100	2100	5000	ND		ug/Kg	427801	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/18/15	100	220	1000	ND		ug/Kg	427801	NA
1,1-Dichloroethane	SW8260B	NA	11/18/15	100	130	1000	ND		ug/Kg	427801	NA
ETBE	SW8260B	NA	11/18/15	100	240	1000	ND		ug/Kg	427801	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/18/15	100	180	1000	ND		ug/Kg	427801	NA
2,2-Dichloropropane	SW8260B	NA	11/18/15	100	120	1000	ND		ug/Kg	427801	NA
Bromochloromethane	SW8260B	NA	11/18/15	100	230	1000	ND		ug/Kg	427801	NA
Chloroform	SW8260B	NA	11/18/15	100	120	1000	ND		ug/Kg	427801	NA
Carbon Tetrachloride	SW8260B	NA	11/18/15	100	160	1000	ND		ug/Kg	427801	NA
1,1,1-Trichloroethane	SW8260B	NA	11/18/15	100	120	1000	ND		ug/Kg	427801	NA
1,1-Dichloropropene	SW8260B	NA	11/18/15	100	140	1000	ND		ug/Kg	427801	NA
Benzene	SW8260B	NA	11/18/15	100	150	1000	ND		ug/Kg	427801	NA
TAME	SW8260B	NA	11/18/15	100	210	1000	ND		ug/Kg	427801	NA
1,2-Dichloroethane	SW8260B	NA	11/18/15	100	190	1000	ND		ug/Kg	427801	NA
Trichloroethylene	SW8260B	NA	11/18/15	100	390	1000	ND		ug/Kg	427801	NA
Dibromomethane	SW8260B	NA	11/18/15	100	220	1000	ND		ug/Kg	427801	NA
1,2-Dichloropropane	SW8260B	NA	11/18/15	100	130	1000	ND		ug/Kg	427801	NA
Bromodichloromethane	SW8260B	NA	11/18/15	100	110	1000	ND		ug/Kg	427801	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/18/15	100	140	1000	ND		ug/Kg	427801	NA
Toluene	SW8260B	NA	11/18/15	100	98	1000	ND		ug/Kg	427801	NA
Tetrachloroethylene	SW8260B	NA	11/18/15	100	180	1000	ND		ug/Kg	427801	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/18/15	100	120	1000	ND		ug/Kg	427801	NA
1,1,2-Trichloroethane	SW8260B	NA	11/18/15	100	180	1000	ND		ug/Kg	427801	NA
Dibromochloromethane	SW8260B	NA	11/18/15	100	110	1000	ND		ug/Kg	427801	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B30-14	<b>Lab Sample ID:</b>	1511128-019A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 10:45		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

1,3-Dichloropropane	SW8260B	NA	11/18/15	100	210	1000	ND		ug/Kg	427801	NA
Naphthalene	SW8260B	NA	11/18/15	100	170	1000	ND		ug/Kg	427801	NA
Ethyl Benzene	SW8260B	NA	11/18/15	100	86	1000	ND		ug/Kg	427801	NA
Chlorobenzene	SW8260B	NA	11/18/15	100	420	1000	ND		ug/Kg	427801	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/18/15	100	86	1000	ND		ug/Kg	427801	NA
m,p-Xylene	SW8260B	NA	11/18/15	100	190	1000	ND		ug/Kg	427801	NA
o-Xylene	SW8260B	NA	11/18/15	100	66	500	ND		ug/Kg	427801	NA
Styrene	SW8260B	NA	11/18/15	100	77	1000	ND		ug/Kg	427801	NA
Bromoform	SW8260B	NA	11/18/15	100	190	1000	ND		ug/Kg	427801	NA
Isopropyl Benzene	SW8260B	NA	11/18/15	100	120	1000	ND		ug/Kg	427801	NA
n-Propylbenzene	SW8260B	NA	11/18/15	100	140	1000	ND		ug/Kg	427801	NA
Bromobenzene	SW8260B	NA	11/18/15	100	120	1000	ND		ug/Kg	427801	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/18/15	100	300	1000	ND		ug/Kg	427801	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/18/15	100	110	1000	ND		ug/Kg	427801	NA
1,2,3-Trichloropropane	SW8260B	NA	11/18/15	100	330	1000	ND		ug/Kg	427801	NA
4-Chlorotoluene	SW8260B	NA	11/18/15	100	160	1000	ND		ug/Kg	427801	NA
2-Chlorotoluene	SW8260B	NA	11/18/15	100	160	1000	ND		ug/Kg	427801	NA
tert-Butylbenzene	SW8260B	NA	11/18/15	100	140	1000	ND		ug/Kg	427801	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/18/15	100	110	1000	ND		ug/Kg	427801	NA
sec-Butyl Benzene	SW8260B	NA	11/18/15	100	160	1000	ND		ug/Kg	427801	NA
p-Isopropyltoluene	SW8260B	NA	11/18/15	100	150	1000	ND		ug/Kg	427801	NA
1,3-Dichlorobenzene	SW8260B	NA	11/18/15	100	180	1000	ND		ug/Kg	427801	NA
1,4-Dichlorobenzene	SW8260B	NA	11/18/15	100	150	1000	ND		ug/Kg	427801	NA
n-Butylbenzene	SW8260B	NA	11/18/15	100	220	1000	ND		ug/Kg	427801	NA
1,2-Dichlorobenzene	SW8260B	NA	11/18/15	100	130	1000	ND		ug/Kg	427801	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/18/15	100	420	1000	ND		ug/Kg	427801	NA
Hexachlorobutadiene	SW8260B	NA	11/18/15	100	260	1000	ND		ug/Kg	427801	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/18/15	100	210	1000	ND		ug/Kg	427801	NA
Naphthalene	SW8260B	NA	11/18/15	100	280	1000	ND		ug/Kg	427801	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/18/15	100	290	1000	ND		ug/Kg	427801	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	100	59.8	148	75.7		%	427801	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	100	55.2	133	84.0		%	427801	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	100	55.8	141	81.5		%	427801	NA

**NOTE:** The reporting limits were raised due to high concentration of non-target heavy end compounds.



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B30-14	<b>Lab Sample ID:</b>	1511128-019A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 10:45		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	100	3000	10000	11000	x	ug/Kg	427801	15792
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	100	43.9	127	94.1		%	427801	15792

**NOTE:** Raised reporting limit - see comment for 8260B analysis.  
x - Does not match pattern of reference Gasoline standard. Reported value due to contribution from non-target heavy hydrocarbons into range of C5-C12 quantified as gasoline.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/13/15	11/16/15	1	0.500	2.0	8.5	x	mg/Kg	427725	15748
TPH as Motor Oil	SW8015B(M)	11/13/15	11/16/15	1	1.00	10	ND		mg/Kg	427725	15748
Pentacosane (S)	SW8015B(M)	11/13/15	11/16/15	1	57.9	129	100		%	427725	15748

**NOTE:** x- Diesel result due to unknown organics within quantified range



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B31-1	<b>Lab Sample ID:</b>	1511128-020A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 13:40		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427801	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427801	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427801	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427801	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427801	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427801	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427801	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	85.6		%	427801	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	80.7		%	427801	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	84.1		%	427801	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8270C	11/13/15	11/17/15	1	0.1685	0.356	ND		mg/Kg	427751	15744
2-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
1-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
Acenaphthylene	SW8270C	11/13/15	11/17/15	1	0.1073	0.356	ND		mg/Kg	427751	15744
Acenaphthene	SW8270C	11/13/15	11/17/15	1	0.1181	0.356	ND		mg/Kg	427751	15744
Fluorene	SW8270C	11/13/15	11/17/15	1	0.06048	0.356	ND		mg/Kg	427751	15744
Phenanthrene	SW8270C	11/13/15	11/17/15	1	0.1469	0.356	ND		mg/Kg	427751	15744
Anthracene	SW8270C	11/13/15	11/17/15	1	0.1872	0.356	ND		mg/Kg	427751	15744
Fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1771	0.356	ND		mg/Kg	427751	15744
Pyrene	SW8270C	11/13/15	11/17/15	1	0.1375	0.356	ND		mg/Kg	427751	15744
Benz[a]anthracene	SW8270C	11/13/15	11/17/15	1	0.2153	0.356	ND		mg/Kg	427751	15744
Chrysene	SW8270C	11/13/15	11/17/15	1	0.1274	0.716	ND		mg/Kg	427751	15744
Benzo[b]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1462	0.356	ND		mg/Kg	427751	15744
Benzo[k]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.09432	0.356	ND		mg/Kg	427751	15744
Benzo[a]pyrene	SW8270C	11/13/15	11/17/15	1	0.1620	0.356	ND		mg/Kg	427751	15744
Indeno[1,2,3-cd]pyrene	SW8270C	11/13/15	11/17/15	1	0.09072	0.356	ND		mg/Kg	427751	15744
Dibenz[a,h]anthracene	SW8270C	11/13/15	11/17/15	1	0.04896	0.356	ND		mg/Kg	427751	15744
Benzo[g,h,i]perylene	SW8270C	11/13/15	11/17/15	1	0.05400	0.356	ND		mg/Kg	427751	15744
2-Fluorobiphenyl (S)	SW8270C	11/13/15	11/17/15	1	30	115	78.1		%	427751	15744
p-Terphenyl-d14 (S)	SW8270C	11/13/15	11/17/15	1	37.9	127	82.7		%	427751	15744



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B31-1	<b>Lab Sample ID:</b>	1511128-020A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 13:40		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	ND		ug/Kg	427801	15792
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	74.6		%	427801	15792

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/13/15	11/16/15	1	0.500	2.0	3.6	x	mg/Kg	427725	15748
TPH as Motor Oil	SW8015B(M)	11/13/15	11/16/15	1	1.00	10	22		mg/Kg	427725	15748
Pentacosane (S)	SW8015B(M)	11/13/15	11/16/15	1	57.9	129	81.4		%	427725	15748

**NOTE:** x- Diesel result due to unknown organics within quantified range



### MB Summary Report

<b>Work Order:</b>	1511128	<b>Prep Method:</b>	3545_PAH	<b>Prep Date:</b>	11/13/15	<b>Prep Batch:</b>	15744
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	11/17/15	<b>Analytical Batch:</b>	427751
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Naphthalene	0.1685	0.356	ND	
2-Methylnaphthalene	0.1145	0.356	ND	
1-Methylnaphthalene	0.1145	0.356	ND	
Acenaphthylene	0.1073	0.356	ND	
Acenaphthene	0.1181	0.356	ND	
Fluorene	0.06048	0.356	ND	
Phenanthrene	0.1469	0.356	ND	
Anthracene	0.1872	0.356	ND	
Fluoranthene	0.1771	0.356	ND	
Pyrene	0.1375	0.356	ND	
Benz[a]anthracene	0.2153	0.356	ND	
Chrysene	0.1274	0.716	ND	
Benzo[b]fluoranthene	0.1462	0.356	ND	
Benzo[k]fluoranthene	0.09432	0.356	ND	
Benzo[a]pyrene	0.1620	0.356	ND	
Indeno[1,2,3-cd]pyrene	0.09072	0.356	ND	
Dibenz[a,h]anthracene	0.04896	0.356	ND	
Benzo[g,h,i]perylene	0.05400	0.356	ND	
2-Fluorobiphenyl (S)			82.7	
p-Terphenyl-d14 (S)			83.0	

<b>Work Order:</b>	1511128	<b>Prep Method:</b>	3546_TPHSG	<b>Prep Date:</b>	11/12/15	<b>Prep Batch:</b>	15745
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	11/12/15	<b>Analytical Batch:</b>	427722
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel (SG)	0.66	2.0	ND	
TPH as Motor Oil (SG)	1.0	10	ND	
Pentacosane (S)			94.8	





### MB Summary Report

<b>Work Order:</b>	1511128	<b>Prep Method:</b>	3546_TPHSG	<b>Prep Date:</b>	11/13/15	<b>Prep Batch:</b>	15748
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	11/13/15	<b>Analytical Batch:</b>	427723
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel (SG)	0.66	2.0	ND	
TPH as Motor Oil (SG)	1.0	10	ND	
Pentacosane (S)			98.5	

<b>Work Order:</b>	1511128	<b>Prep Method:</b>	5035	<b>Prep Date:</b>	11/18/15	<b>Prep Batch:</b>	15790
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	8260TPH	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427783
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Gasoline	30	100	67	
(S) 4-Bromofluorobenzene			94.0	

<b>Work Order:</b>	1511128	<b>Prep Method:</b>	5035	<b>Prep Date:</b>	11/18/15	<b>Prep Batch:</b>	15792
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	8260TPH	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427801
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Gasoline	30	100	70	
(S) 4-Bromofluorobenzene			98.4	



## MB Summary Report

<b>Work Order:</b>	1511128	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427783
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	4.4	10	ND		
Isopropyl Alcohol	4.6	10	ND		
Vinyl Chloride	2.6	10	ND		
Bromomethane	4.7	10	ND		
Trichlorofluoromethane	2.9	10	ND		
1,1-Dichloroethene	1.5	10	ND		
Freon 113	3.7	10	ND		
Methylene Chloride	2.0	50	ND		
trans-1,2-Dichloroethene	1.1	10	ND		
MTBE	2.6	10	ND		
tert-Butanol	21	50	ND		
Diisopropyl ether (DIPE)	2.2	10	ND		
1,1-Dichloroethane	1.3	10	ND		
ETBE	2.4	10	ND		
cis-1,2-Dichloroethene	1.8	10	ND		
2,2-Dichloropropane	1.2	10	ND		
Bromochloromethane	2.3	10	ND		
Chloroform	1.2	10	ND		
Carbon Tetrachloride	1.6	10	ND		
1,1,1-Trichloroethane	1.2	10	ND		
1,1-Dichloropropene	1.4	10	ND		
Benzene	1.5	10	ND		
TAME	2.1	10	ND		
1,2-Dichloroethane	1.9	10	ND		
Trichloroethylene	3.9	10	ND		
Dibromomethane	2.2	10	ND		
1,2-Dichloropropane	1.3	10	ND		
Bromodichloromethane	1.1	10	ND		
cis-1,3-Dichloropropene	1.4	10	ND		
Toluene	0.98	10	ND		
Tetrachloroethylene	1.8	10	ND		
trans-1,3-Dichloropropene	1.2	10	ND		
1,1,2-Trichloroethane	1.8	10	ND		
Dibromochloromethane	1.1	10	ND		
1,3-Dichloropropane	2.1	10	ND		
Naphthalene	1.7	10	ND		
Ethyl Benzene	0.86	10	ND		
Chlorobenzene	4.2	10	ND		
1,1,1,2-Tetrachloroethane	0.86	10	ND		
m,p-Xylene	1.9	10	ND		
o-Xylene	0.66	5.0	ND		



## MB Summary Report

<b>Work Order:</b>	1511128	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427783
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Styrene	0.77	10	ND		
Bromoform	1.9	10	ND		
Isopropyl Benzene	1.2	10	ND		
n-Propylbenzene	1.4	10	ND		
Bromobenzene	1.2	10	ND		
1,1,2,2-Tetrachloroethane	3.0	10	ND		
1,3,5-Trimethylbenzene	1.1	10	ND		
1,2,3-Trichloropropane	3.3	10	ND		
4-Chlorotoluene	1.6	10	ND		
2-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.4	10	ND		
1,2,4-Trimethylbenzene	1.1	10	ND		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	ND		
1,3-Dichlorobenzene	1.8	10	ND		
1,4-Dichlorobenzene	1.5	10	ND		
n-Butylbenzene	2.2	10	ND		
1,2-Dichlorobenzene	1.3	10	ND		
1,2-Dibromo-3-Chloropropane	4.2	10	ND		
Hexachlorobutadiene	2.6	10	ND		
1,2,4-Trichlorobenzene	2.1	10	ND		
Naphthalene	2.8	10	ND		
1,2,3-Trichlorobenzene	2.9	10	ND		
Ethanol	5.0	20	ND	TIC	
(S) Dibromofluoromethane			84.5		
(S) Toluene-d8			75.1		
(S) 4-Bromofluorobenzene			81.1		



## MB Summary Report

<b>Work Order:</b>	1511128	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427801
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	4.4	10	ND		
Isopropyl Alcohol	4.6	10	ND		
Vinyl Chloride	2.6	10	ND		
Bromomethane	4.7	10	ND		
Trichlorofluoromethane	2.9	10	ND		
1,1-Dichloroethene	1.5	10	ND		
Freon 113	3.7	10	ND		
Methylene Chloride	2.0	50	ND		
trans-1,2-Dichloroethene	1.1	10	ND		
MTBE	2.6	10	ND		
tert-Butanol	21	50	ND		
Diisopropyl ether (DIPE)	2.2	10	ND		
1,1-Dichloroethane	1.3	10	ND		
ETBE	2.4	10	ND		
cis-1,2-Dichloroethene	1.8	10	ND		
2,2-Dichloropropane	1.2	10	ND		
Bromochloromethane	2.3	10	ND		
Chloroform	1.2	10	ND		
Carbon Tetrachloride	1.6	10	ND		
1,1,1-Trichloroethane	1.2	10	ND		
1,1-Dichloropropene	1.4	10	ND		
Benzene	1.5	10	ND		
TAME	2.1	10	ND		
1,2-Dichloroethane	1.9	10	ND		
Trichloroethylene	3.9	10	ND		
Dibromomethane	2.2	10	ND		
1,2-Dichloropropane	1.3	10	ND		
Bromodichloromethane	1.1	10	ND		
cis-1,3-Dichloropropene	1.4	10	ND		
Toluene	0.98	10	ND		
Tetrachloroethylene	1.8	10	ND		
trans-1,3-Dichloropropene	1.2	10	ND		
1,1,2-Trichloroethane	1.8	10	ND		
Dibromochloromethane	1.1	10	ND		
1,3-Dichloropropane	2.1	10	ND		
Naphthalene	1.7	10	ND		
Ethyl Benzene	0.86	10	ND		
Chlorobenzene	4.2	10	ND		
1,1,1,2-Tetrachloroethane	0.86	10	ND		
m,p-Xylene	1.9	10	ND		
o-Xylene	0.66	5.0	ND		



## MB Summary Report

<b>Work Order:</b>	1511128	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427801
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Styrene	0.77	10	ND		
Bromoform	1.9	10	ND		
Isopropyl Benzene	1.2	10	ND		
n-Propylbenzene	1.4	10	ND		
Bromobenzene	1.2	10	ND		
1,1,2,2-Tetrachloroethane	3.0	10	ND		
1,3,5-Trimethylbenzene	1.1	10	ND		
1,2,3-Trichloropropane	3.3	10	ND		
4-Chlorotoluene	1.6	10	ND		
2-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.4	10	ND		
1,2,4-Trimethylbenzene	1.1	10	ND		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	ND		
1,3-Dichlorobenzene	1.8	10	ND		
1,4-Dichlorobenzene	1.5	10	ND		
n-Butylbenzene	2.2	10	ND		
1,2-Dichlorobenzene	1.3	10	ND		
1,2-Dibromo-3-Chloropropane	4.2	10	ND		
Hexachlorobutadiene	2.6	10	ND		
1,2,4-Trichlorobenzene	2.1	10	ND		
Naphthalene	2.8	10	ND		
1,2,3-Trichlorobenzene	2.9	10	ND		
Ethanol	5.0	20	ND	TIC	
(S) Dibromofluoromethane			81.6		
(S) Toluene-d8			79.7		
(S) 4-Bromofluorobenzene			78.2		



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1511128	<b>Prep Method:</b>	3545_PAH	<b>Prep Date:</b>	11/13/15	<b>Prep Batch:</b>	15744
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	11/17/15	<b>Analytical Batch:</b>	427751
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Acenaphthene	0.118	0.356	ND	0.8	64.7	69.8	7.51	47 - 121	30	
Pyrene	0.138	0.356	ND	1.2	90.3	83.7	7.30	58.6 - 116	30	
2-Fluorobiphenyl (S)			ND	20	68.3	75.9		44.7 - 116		
p-Terphenyl-d14 (S)			ND	20	84.3	93.8		46.4 - 153		

<b>Work Order:</b>	1511128	<b>Prep Method:</b>	3546_TPHSG	<b>Prep Date:</b>	11/12/15	<b>Prep Batch:</b>	15745
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	11/12/15	<b>Analytical Batch:</b>	427722
<b>Units:</b>	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)	0.66	2.0	ND	25	87.8	88.2	0.427	50.8 - 111	30	
Pentacosane (S)			ND	200	102	102		49.9 - 144		

<b>Work Order:</b>	1511128	<b>Prep Method:</b>	3546_TPHSG	<b>Prep Date:</b>	11/13/15	<b>Prep Batch:</b>	15748
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	11/13/15	<b>Analytical Batch:</b>	427723
<b>Units:</b>	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)	0.66	2.0	ND	25	91.4	93.3	2.06	50.8 - 111	30	
Pentacosane (S)			ND	200	108	106		49.9 - 144		

<b>Work Order:</b>	1511128	<b>Prep Method:</b>	5035	<b>Prep Date:</b>	11/18/15	<b>Prep Batch:</b>	15790
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	8260TPH	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427783
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	30	100	67	1000	109	119	8.97	64.0 - 133.2	30	
(S) 4-Bromofluorobenzene			94.0	50	96.5	117		43.9 - 127		



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1511128	<b>Prep Method:</b>	5035	<b>Prep Date:</b>	11/18/15	<b>Prep Batch:</b>	15792
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	8260TPH	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427801
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	30	100	70	1000	100	121	19.0	64.0 - 133.2	30	
(S) 4-Bromofluorobenzene			98.4	50	97.2	99.6		43.9 - 127		

<b>Work Order:</b>	1511128	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427783
<b>Units:</b>	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	1.5	10	ND	50	83.5	91.4	8.86	53.7 - 139	30	
Benzene	1.5	10	ND	50	96.5	101	4.66	66.5 - 135	30	
Trichloroethylene	3.9	10	ND	50	100	109	8.54	57.5 - 150	30	
Toluene	0.98	10	ND	50	101	103	1.41	56.8 - 134	30	
Chlorobenzene	4.2	10	ND	50	107	109	2.05	57.4 - 134	30	
(S) Dibromofluoromethane			ND	50	83.6	77.9		59.8 - 148		
(S) Toluene-d8			ND	50	82.4	75.2		55.2 - 133		
(S) 4-Bromofluorobenzene			ND	50	73.4	73.5		55.8 - 141		

<b>Work Order:</b>	1511128	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427801
<b>Units:</b>	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	1.5	10	ND	50	68.9	70.5	2.14	53.7 - 139	30	
Benzene	1.5	10	ND	50	85.5	88.5	3.61	66.5 - 135	30	
Trichloroethylene	3.9	10	ND	50	96.6	97.4	0.778	57.5 - 150	30	
Toluene	0.98	10	ND	50	91.3	92.8	1.78	56.8 - 134	30	
Chlorobenzene	4.2	10	ND	50	98.0	103	4.83	57.4 - 134	30	
(S) Dibromofluoromethane			ND	50	70.7	72.1		59.8 - 148		
(S) Toluene-d8			ND	50	70.4	71.3		55.2 - 133		
(S) 4-Bromofluorobenzene			ND	50	65.3	66.6		55.8 - 141		



## MS/MSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1511128	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427783
<b>Spiked Sample:</b>	1511128-002A						
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	1.5	10	0	50	83.1	88.0	5.77	53.7 - 139	30	
Benzene	1.5	10	0	50	107	108	1.26	66.5 - 135	30	
Trichloroethylene	3.9	10	0	50	117	118	1.01	57.5 - 150	30	
Toluene	0.98	10	0	50	112	114	1.94	56.8 - 134	30	
Chlorobenzene	4.2	10	0	50	117	119	1.89	57.4 - 134	30	
(S) Dibromofluoromethane				50	104	93.0		59.8 - 148		
(S) Toluene-d8				50	96.4	89.2		55.2 - 133		
(S) 4-Bromofluorobenzene				50	92.9	87.8		55.8 - 141		





## Laboratory Qualifiers and Definitions

### DEFINITIONS:

<b>Accuracy/Bias (% Recovery)</b> - The closeness of agreement between an observed value and an accepted reference value.
<b>Blank (Method/Preparation Blank)</b> -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.
<b>Duplicate</b> - 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)
<b>Laboratory Control Sample (LCS ad LCSD)</b> - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
<b>Matrix</b> - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
<b>Matrix Spike (MS/MSD)</b> - 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.
<b>Method Detection Limit (MDL)</b> - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
<b>Practical Quantitation Limit (PQL)</b> - 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 reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
<b>Precision (%RPD)</b> - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
<b>Surrogate (S) or (Surr)</b> - 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
<b>Tentatively Identified Compound (TIC)</b> - 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.
<b>Units:</b> the unit of measure used to express the reported result - <b>mg/L</b> and <b>mg/Kg</b> (equivalent to PPM - parts per million in <b>liquid</b> and <b>solid</b> ), <b>ug/L</b> and <b>ug/Kg</b> (equivalent to PPB - parts per billion in <b>liquid</b> and <b>solid</b> ), <b>ug/m<sup>3</sup></b> , <b>mg.m<sup>3</sup></b> , <b>ppbv</b> and <b>ppmv</b> (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), <b>ug/Wipe</b> ( concentration found on the surface of a single Wipe usually taken over a 100cm <sup>2</sup> surface)

### LABORATORY QUALIFIERS:

<p><b>B</b> - Indicates when the analyte is found in the associated method or preparation blank</p> <p><b>D</b> - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p><b>E</b> - 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.</p> <p><b>H</b>- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p><b>J</b>- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p><b>NA</b> - Not Analyzed</p> <p><b>N/A</b> - Not Applicable</p> <p><b>NR</b> - 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</p> <p><b>R</b>- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p><b>S</b>- 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</p> <p><b>X</b> -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.</p>
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## Sample Receipt Checklist

Client Name: Golden Gate Tank Removal

Date and Time Received: 11/12/2015 16:45

Project Name: 5930 College Avenue, Oakland

Received By: LDI

Work Order No.: 1511128

Physically Logged By: LDI

Checklist Completed By: LDI

Carrier Name: First Courier

### 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? Not Present

### 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: 5 °C  
Water-VOA vials have zero headspace? No VOA vials submitted  
Water-pH acceptable upon receipt? N/A  
pH Checked by: N/A pH Adjusted by: N/A



## Login Summary Report

**Client ID:** TL5128      Golden Gate Tank Removal  
**Project Name:** 5930 College Avenue, Oakland  
**Project # :**  
**Report Due Date:** 11/19/2015

**QC Level:**  
**TAT Requested:** 5+ day:0  
**Date Received:** 11/12/2015  
**Time Received:** 16:45

**Comments:**

**Work Order # :** 1511128

<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>
1511128-001A	B28-1	11/08/15 12:20	Soil	05/10/16	On-Hold		EDF S_GCMS-GRO S_TPHDO S_8260Full	
1511128-002A	B28-3	11/08/15 12:25	Soil	05/10/16			S_GCMS-GRO S_8260Full S_TPHDO	
1511128-003A	B28-5	11/08/15 13:00	Soil	05/10/16			S_GCMS-GRO S_8260Full S_TPHDO	
1511128-004A	B28-7	11/08/15 13:10	Soil	05/10/16	On-Hold		S_GCMS-GRO S_8260Full S_TPHDO	
1511128-005A	B28-9	11/08/15 13:25	Soil	05/10/16			S_GCMS-GRO S_TPHDO S_8260Full	
1511128-006A	B28-12	11/08/15 13:25	Soil	05/10/16	On-Hold		S_GCMS-GRO S_8260Full S_TPHDO	
1511128-007A	B28-13.5	11/08/15 13:30	Soil	05/10/16			S_GCMS-GRO S_TPHDO S_8260Full	
1511128-008A	B29-1	11/08/15 11:00	Soil	05/10/16	On-Hold		S_GCMS-GRO S_TPHDO S_8260Full	
1511128-009A	B29-3	11/08/15 11:10	Soil	05/10/16			S_GCMS-GRO S_TPHDO S_8260Full	



## Login Summary Report

**Client ID:** TL5128      Golden Gate Tank Removal  
**Project Name:** 5930 College Avenue, Oakland  
**Project # :**  
**Report Due Date:** 11/19/2015

**QC Level:**  
**TAT Requested:** 5+ day:0  
**Date Received:** 11/12/2015  
**Time Received:** 16:45

**Comments:**

**Work Order # :** 1511128

<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>
1511128-010A	B29-5	11/08/15 12:00	Soil	05/10/16			S_GCMS-GRO S_8260Full S_TPHDO	
1511128-011A	B29-7	11/08/15 12:02	Soil	05/10/16	On-Hold		S_GCMS-GRO S_TPHDO S_8260Full	
1511128-012A	B29-9	11/08/15 12:10	Soil	05/10/16			S_GCMS-GRO S_TPHDO S_8260Full	
1511128-013A	B29-14	11/08/15 12:15	Soil	05/10/16			S_GCMS-GRO S_8260Full S_TPHDO	
1511128-014A	B30-0.5	11/08/15 10:05	Soil	05/10/16	On-Hold		S_GCMS-GRO S_TPHDO S_8260Full	
1511128-015A	B30-3	11/08/15 10:15	Soil	05/10/16			S_GCMS-GRO S_TPHDO S_8260Full	
1511128-016A	B30-5	11/08/15 10:20	Soil	05/10/16			S_GCMS-GRO S_8260Full S_TPHDO	
1511128-017A	B30-7	11/08/15 10:22	Soil	05/10/16	On-Hold		S_GCMS-GRO S_8260Full S_TPHDO	
1511128-018A	B30-9.5	11/08/15 10:25	Soil	05/10/16			S_GCMS-GRO S_8260Full S_TPHDO	
1511128-019A	B30-14	11/08/15 10:45	Soil	05/10/16			S_GCMS-GRO S_8260Full S_TPHDO	



### Login Summary Report

**Client ID:** TL5128 Golden Gate Tank Removal  
**Project Name:** 5930 College Avenue, Oakland  
**Project # :**  
**Report Due Date:** 11/19/2015

**QC Level:**  
**TAT Requested:** 5+ day:0  
**Date Received:** 11/12/2015  
**Time Received:** 16:45

**Comments:**

**Work Order # :** 1511128

<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>
1511128-020A	B31-1	11/08/15 13:40	Soil	05/10/16			S_GCMS-GRO S_TPHDO S_8260Full  S_GCMS-GRO S_8260PetE S_TPHDO S_8270PAH	

**Sample Note:** TPHg,D,MO, BTEX, Napthalene and MTBE



483 Sinclair Frontage Road  
 Milpitas, CA 95035  
 Phone: 408.263.5258  
 FAX: 408.263.8293  
 www.torrentlab.com

# CHAIN OF CUSTODY

LAB WORK ORDER NO
151178

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

Company Name: <b>Golden Gate Tank Removal, Inc.</b>			Location of Sampling: 5930 College Avenue, Oakland		
Address: 1480 Carroll Avenue			Purpose: Additional Site Characterization - Data Gap Work Plan		
City: San Francisco	State: CA	Zip Code: 94124	Special Instructions / Comments: Global ID: T0600102112		
Telephone: 415-512-1555		FAX: 415-512-0964	Field Point ID (See Remarks Section); BT=Brass Tube; PT=PlasticTube		
REPORT TO: Brent Wheeler		SAMPLER: Brent Wheeler	P.O. #: GGTR 9497		EMAIL: b.wheeler@ggtr.com

**TURNAROUND TIME:**

- 10 Work Days    3 Work Days    Noon - Nxt Day  
 7 Work Days    2 Work Days    2 - 8 Hours  
 5 Work Days    1 Work Day    Other

**SAMPLE TYPE:**

- Storm Water    Air  
 Waste Water    Other  
 Ground Water  
 Soil

**REPORT FORMAT:**

- QC Level IV  
 EDF  
 Excel / EDD

TPH-G (8260)	BTEX (8260)	Naphthalene (8260)	MTBE (8260)	TPH-D/MO (8015)	PAHs (8270)	VOCs (Full List)	HOLD
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LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	TPH-G (8260)	BTEX (8260)	Naphthalene (8260)	MTBE (8260)	TPH-D/MO (8015)	PAHs (8270)	VOCs (Full List)	HOLD	REMARKS
-001A	B28-1	11-8-15/1220	Soil	1	BT								✓	B28
-002A	B28-3	11-8-15/1225	Soil	1	PT	✓				✓		✓		B28
-003A	B28-5	11-8-15/1300	Soil	1	PT	✓				✓		✓		B28
-004A	B28-7	11-8-15/1310	Soil	1	PT								✓	B28
-005A	B28-9	11-8-15/1315	Soil	1	PT	✓				✓		✓		B28
-006A	B28-12	11-8-15/1325	Soil	1	PT								✓	B28
-007A	B28-13.5	11-8-15/1330	Soil	1	PT	✓				✓		✓		B28
-008A	B29-1	11-8-15/1100	Soil	1	BT								✓	B29
-009A	B29-3	11-8-15/1110	Soil	1	BT	✓				✓		✓		B29
-010A	B29-5	11-8-15/1200	Soil	1	PT	✓				✓		✓		B29 Temp 52# 1

Relinquished By: <i>[Signature]</i>	Print: <i>EFFEY W. P. ESCOBAR</i>	Date: 11/12/15	Time: 12:30	Received By: <i>[Signature]</i>	Print: <i>David Mauer</i>	Date: 11/12/15	Time: 2:35pm
Relinquished By: <i>[Signature]</i>	Print: <i>DAVID MAUER</i>	Date: 11/12/15	Time: 4:45pm	Received By: <i>[Signature]</i>	Print: <i>L-D. Tumbal</i>	Date: 11-12-14	Time: 16:45

Were Samples Received in Good Condition?  Yes  NO    Samples on Ice?  Yes  NO    Method of Shipment FC    Sample seals intact?  Yes  NO  N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.

Log In By: \_\_\_\_\_ Date: \_\_\_\_\_    Log In Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

Page 1 of 5



483 Sinclair Frontage Road  
Milpitas, CA 95035  
Phone: 408.263.5258  
FAX: 408.263.8293  
www.torrentlab.com

RESET

# CHAIN OF CUSTODY

LAB WORK ORDER NO

151128

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

Company Name: <b>Golden Gate Tank Removal, Inc.</b>			Location of Sampling: 5930 College Avenue, Oakland		
Address: 1480 Carroll Avenue			Purpose: Additional Site Characterization - Data Gap Work Plan		
City: San Francisco	State: CA	Zip Code: 94124	Special Instructions / Comments: Global ID: T0600102112		
Telephone: 415-512-1555		FAX: 415-512-0964	Field Point ID (See Remarks Section); BT=Brass Tube; PT=Plastic Tube		
REPORT TO: Brent Wheeler		SAMPLER: Brent Wheeler	P.O. #: GGTR 9497		EMAIL: b.wheeler@ggtr.com

**TURNAROUND TIME:**

- 10 Work Days    3 Work Days    Noon - Nxt Day  
 7 Work Days    2 Work Days    2 - 8 Hours  
 5 Work Days    1 Work Day    Other

**SAMPLE TYPE:**

- Storm Water    Air  
 Waste Water    Other  
 Ground Water  
 Soil

**REPORT FORMAT:**

- QC Level IV  
 EDF  
 Excel / EDD

ANALYSIS REQUESTED

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	TPH-G (8260)	BTEX (8260)	Naphthalene (8260)	MTBE (8260)	TPH-D/MO	PAHs (8270)	VOCs (Full List)	HOLD	REMARKS
-0121A	B29-7	11-8-15/1202	Soil	1	PT								✓	B29
-0122A	B29-9	11-8-15/1210	Soil	1	PT	✓				✓		✓		B29
-0123A	B29-14	11-8-15/1215	Soil	1	PT	✓				✓		✓		B29
-0124A	B30-0.5	11-8-15/1005	Soil	1	BT								✓	B30
-0125A	B30-3	11-8-15/1015	Soil	1	BT	✓				✓		✓		B30
-0126A	B30-5	11-8-15/1020	Soil	1	PT	✓				✓		✓		B30
-0127A	B30-7	11-8-15/1022	Soil	1	PT								✓	B30
-0128A	B30-9.5	11-8-15/1025	Soil	1	PT	✓				✓		✓		B30
-0129A	B30-14	11-8-15/1045	Soil	1	PT	✓				✓		✓		B30
-0130A	B31-1	11-8-15/1340	Soil	1	BT	✓	✓	✓	✓	✓	✓			B31 Temp 52#1

1	Relinquished By: <i>[Signature]</i> Print: <i>EDDIST WHEELER</i>	Date: 11/12/15	Time: 12:30	Received By: <i>[Signature]</i> Print: <i>David Munn</i>	Date: 11/12/15	Time: 2:35pm
2	Relinquished By: <i>[Signature]</i> Print: <i>David Munn</i>	Date: 11/12/15	Time: 4:45pm	Received By: <i>[Signature]</i> Print: <i>L-D. Imbert</i>	Date: 11-12-15	Time: 16:45

Were Samples Received in Good Condition?  Yes  NO   Samples on Ice?  Yes  NO   Method of Shipment: FL   Sample seals intact?  Yes  NO  N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.   Page 2 of 5

Log In By: \_\_\_\_\_ Date: \_\_\_\_\_   Log In Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_



Golden Gate Tank Removal  
1480 Carroll Ave  
San Francisco, California 94124  
Tel: 415-512-1555  
Email: b.wheeler@ggtr.com  
RE: 5930 College Avenue, Oakland

Work Order No.: 1511130

Dear Brent Wheeler:

Torrent Laboratory, Inc. received 20 sample(s) on November 12, 2015 for the analyses presented in the following Report.

Per Chain of Custody instructions, seven samples were placed on hold.

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.

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Patti Sandrock  
QA Officer

November 20, 2015

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Date





**Date:** 11/20/2015

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**Client:** Golden Gate Tank Removal

**Project:** 5930 College Avenue, Oakland

**Work Order:** 1511130

### **CASE NARRATIVE**

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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: Brent Wheeler  
Golden Gate Tank Removal

Date Received: 11/12/15

Date Reported: 11/20/15

B31-3

1511130-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B(M)	1	0.500	2.0	2.3	mg/Kg
TPH as Motor Oil	SW8015B(M)	1	1.00	10	12	mg/Kg

B31-9

1511130-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B(M)	1	0.500	2.0	6.1	mg/Kg

B31-11.5

1511130-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Gasoline	8260TPH	5	150	500	3100	ug/Kg
TPH as Diesel	SW8015B(M)	1	0.500	2.0	7.6	mg/Kg

B31-14.5

1511130-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Gasoline	8260TPH	1	30	100	530	ug/Kg
TPH as Diesel	SW8015B(M)	1	0.500	2.0	3.3	mg/Kg



### Sample Result Summary

Report prepared for: Brent Wheeler  
Golden Gate Tank Removal

Date Received: 11/12/15  
Date Reported: 11/20/15  
1511130-006

B32-1

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B(M)	1	0.500	2.0	3.2	mg/Kg
TPH as Motor Oil	SW8015B(M)	1	1.00	10	20	mg/Kg

B32-3

1511130-007

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.

B32-9

1511130-010

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B(M)	1	0.500	2.0	2.1	mg/Kg

B32-13

1511130-011

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B(M)	1	0.500	2.0	2.1	mg/Kg



### Sample Result Summary

Report prepared for: Brent Wheeler  
Golden Gate Tank Removal

Date Received: 11/12/15

Date Reported: 11/20/15

B33-3

1511130-013

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B(M)	1	0.500	2.0	5.4	mg/Kg
TPH as Motor Oil	SW8015B(M)	1	1.00	10	59	mg/Kg

B33-7

1511130-015

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B(M)	1	0.500	2.0	2.0	mg/Kg
TPH as Motor Oil	SW8015B(M)	1	1.00	10	17	mg/Kg

B33-12

1511130-017

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Motor Oil	SW8015B(M)	1	1.00	10	10	mg/Kg

B34-3

1511130-019

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.

B34-5

1511130-020

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B31-3	<b>Lab Sample ID:</b>	1511130-001A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 13:45		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427801	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427801	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427801	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427801	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427801	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427801	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427801	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	91.7		%	427801	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	77.4		%	427801	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	87.5		%	427801	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8270C	11/13/15	11/17/15	1	0.1685	0.356	ND		mg/Kg	427751	15744
2-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
1-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
Acenaphthylene	SW8270C	11/13/15	11/17/15	1	0.1073	0.356	ND		mg/Kg	427751	15744
Acenaphthene	SW8270C	11/13/15	11/17/15	1	0.1181	0.356	ND		mg/Kg	427751	15744
Fluorene	SW8270C	11/13/15	11/17/15	1	0.06048	0.356	ND		mg/Kg	427751	15744
Phenanthrene	SW8270C	11/13/15	11/17/15	1	0.1469	0.356	ND		mg/Kg	427751	15744
Anthracene	SW8270C	11/13/15	11/17/15	1	0.1872	0.356	ND		mg/Kg	427751	15744
Fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1771	0.356	ND		mg/Kg	427751	15744
Pyrene	SW8270C	11/13/15	11/17/15	1	0.1375	0.356	ND		mg/Kg	427751	15744
Benz[a]anthracene	SW8270C	11/13/15	11/17/15	1	0.2153	0.356	ND		mg/Kg	427751	15744
Chrysene	SW8270C	11/13/15	11/17/15	1	0.1274	0.716	ND		mg/Kg	427751	15744
Benzo[b]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1462	0.356	ND		mg/Kg	427751	15744
Benzo[k]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.09432	0.356	ND		mg/Kg	427751	15744
Benzo[a]pyrene	SW8270C	11/13/15	11/17/15	1	0.1620	0.356	ND		mg/Kg	427751	15744
Indeno[1,2,3-cd]pyrene	SW8270C	11/13/15	11/17/15	1	0.09072	0.356	ND		mg/Kg	427751	15744
Dibenz[a,h]anthracene	SW8270C	11/13/15	11/17/15	1	0.04896	0.356	ND		mg/Kg	427751	15744
Benzo[g,h,i]perylene	SW8270C	11/13/15	11/17/15	1	0.05400	0.356	ND		mg/Kg	427751	15744
2-Fluorobiphenyl (S)	SW8270C	11/13/15	11/17/15	1	30	115	90.5		%	427751	15744
p-Terphenyl-d14 (S)	SW8270C	11/13/15	11/17/15	1	37.9	127	91.9		%	427751	15744



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B31-3	<b>Lab Sample ID:</b>	1511130-001A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 13:45		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	ND		ug/Kg	427801	15792
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	61.4		%	427801	15792

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/13/15	11/16/15	1	0.500	2.0	2.3	x	mg/Kg	427725	15748
TPH as Motor Oil	SW8015B(M)	11/13/15	11/16/15	1	1.00	10	12		mg/Kg	427725	15748
Pentacosane (S)	SW8015B(M)	11/13/15	11/16/15	1	57.9	129	114		%	427725	15748

**NOTE:** x- Diesel result due to unknown organics within quantified range



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B31-9	<b>Lab Sample ID:</b>	1511130-003A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/09/15 / 9:10		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427801	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427801	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427801	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427801	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427801	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427801	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427801	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	95.6		%	427801	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	75.0		%	427801	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	91.6		%	427801	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8270C	11/13/15	11/17/15	1	0.1685	0.356	ND		mg/Kg	427751	15744
2-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
1-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
Acenaphthylene	SW8270C	11/13/15	11/17/15	1	0.1073	0.356	ND		mg/Kg	427751	15744
Acenaphthene	SW8270C	11/13/15	11/17/15	1	0.1181	0.356	ND		mg/Kg	427751	15744
Fluorene	SW8270C	11/13/15	11/17/15	1	0.06048	0.356	ND		mg/Kg	427751	15744
Phenanthrene	SW8270C	11/13/15	11/17/15	1	0.1469	0.356	ND		mg/Kg	427751	15744
Anthracene	SW8270C	11/13/15	11/17/15	1	0.1872	0.356	ND		mg/Kg	427751	15744
Fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1771	0.356	ND		mg/Kg	427751	15744
Pyrene	SW8270C	11/13/15	11/17/15	1	0.1375	0.356	ND		mg/Kg	427751	15744
Benz[a]anthracene	SW8270C	11/13/15	11/17/15	1	0.2153	0.356	ND		mg/Kg	427751	15744
Chrysene	SW8270C	11/13/15	11/17/15	1	0.1274	0.716	ND		mg/Kg	427751	15744
Benzo[b]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1462	0.356	ND		mg/Kg	427751	15744
Benzo[k]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.09432	0.356	ND		mg/Kg	427751	15744
Benzo[a]pyrene	SW8270C	11/13/15	11/17/15	1	0.1620	0.356	ND		mg/Kg	427751	15744
Indeno[1,2,3-cd]pyrene	SW8270C	11/13/15	11/17/15	1	0.09072	0.356	ND		mg/Kg	427751	15744
Dibenz[a,h]anthracene	SW8270C	11/13/15	11/17/15	1	0.04896	0.356	ND		mg/Kg	427751	15744
Benzo[g,h,i]perylene	SW8270C	11/13/15	11/17/15	1	0.05400	0.356	ND		mg/Kg	427751	15744
2-Fluorobiphenyl (S)	SW8270C	11/13/15	11/17/15	1	30	115	90.4		%	427751	15744
p-Terphenyl-d14 (S)	SW8270C	11/13/15	11/17/15	1	37.9	127	96.3		%	427751	15744



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B31-9	<b>Lab Sample ID:</b>	1511130-003A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/09/15 / 9:10		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	ND		ug/Kg	427801	15792
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	68.4		%	427801	15792

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/13/15	11/16/15	1	0.500	2.0	6.1	x	mg/Kg	427725	15748
TPH as Motor Oil	SW8015B(M)	11/13/15	11/16/15	1	1.00	10	ND		mg/Kg	427725	15748
Pentacosane (S)	SW8015B(M)	11/13/15	11/16/15	1	57.9	129	102		%	427725	15748

**NOTE:** x- Diesel result due to unknown organics within quantified range





## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B31-11.5	<b>Lab Sample ID:</b>	1511130-004A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/09/15 / 9:20		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

MTBE	SW8260B	NA	11/18/15	5	13	50	ND		ug/Kg	427801	NA
Benzene	SW8260B	NA	11/18/15	5	7.5	50	ND		ug/Kg	427801	NA
Toluene	SW8260B	NA	11/18/15	5	4.9	50	ND		ug/Kg	427801	NA
Ethyl Benzene	SW8260B	NA	11/18/15	5	4.3	50	ND		ug/Kg	427801	NA
m,p-Xylene	SW8260B	NA	11/18/15	5	9.3	50	ND		ug/Kg	427801	NA
o-Xylene	SW8260B	NA	11/18/15	5	3.3	25	ND		ug/Kg	427801	NA
Naphthalene	SW8260B	NA	11/18/15	5	14	50	ND		ug/Kg	427801	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	5	59.8	148	77.1		%	427801	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	5	55.2	133	73.9		%	427801	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	5	55.8	141	78.4		%	427801	NA

**NOTE:** Reporting limits were raised due to high level of light end non-target hydrocarbons.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8270C	11/13/15	11/17/15	1	0.1685	0.356	ND		mg/Kg	427751	15744
2-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
1-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
Acenaphthylene	SW8270C	11/13/15	11/17/15	1	0.1073	0.356	ND		mg/Kg	427751	15744
Acenaphthene	SW8270C	11/13/15	11/17/15	1	0.1181	0.356	ND		mg/Kg	427751	15744
Fluorene	SW8270C	11/13/15	11/17/15	1	0.06048	0.356	ND		mg/Kg	427751	15744
Phenanthrene	SW8270C	11/13/15	11/17/15	1	0.1469	0.356	ND		mg/Kg	427751	15744
Anthracene	SW8270C	11/13/15	11/17/15	1	0.1872	0.356	ND		mg/Kg	427751	15744
Fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1771	0.356	ND		mg/Kg	427751	15744
Pyrene	SW8270C	11/13/15	11/17/15	1	0.1375	0.356	ND		mg/Kg	427751	15744
Benz[a]anthracene	SW8270C	11/13/15	11/17/15	1	0.2153	0.356	ND		mg/Kg	427751	15744
Chrysene	SW8270C	11/13/15	11/17/15	1	0.1274	0.716	ND		mg/Kg	427751	15744
Benzo[b]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1462	0.356	ND		mg/Kg	427751	15744
Benzo[k]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.09432	0.356	ND		mg/Kg	427751	15744
Benzo[a]pyrene	SW8270C	11/13/15	11/17/15	1	0.1620	0.356	ND		mg/Kg	427751	15744
Indeno[1,2,3-cd]pyrene	SW8270C	11/13/15	11/17/15	1	0.09072	0.356	ND		mg/Kg	427751	15744
Dibenz[a,h]anthracene	SW8270C	11/13/15	11/17/15	1	0.04896	0.356	ND		mg/Kg	427751	15744
Benzo[g,h,i]perylene	SW8270C	11/13/15	11/17/15	1	0.05400	0.356	ND		mg/Kg	427751	15744
2-Fluorobiphenyl (S)	SW8270C	11/13/15	11/17/15	1	30	115	91.9		%	427751	15744
p-Terphenyl-d14 (S)	SW8270C	11/13/15	11/17/15	1	37.9	127	96.6		%	427751	15744



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B31-11.5	<b>Lab Sample ID:</b>	1511130-004A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/09/15 / 9:20		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	5	150	500	3100	x	ug/Kg	427801	15792
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	5	43.9	127	126		%	427801	15792

**NOTE:** x - Does not match pattern of reference Gasoline standard. Result is due to significant contribution from non-target hydrocarbons in C5-C12 range quantified as Gasoline.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/13/15	11/16/15	1	0.500	2.0	7.6	x	mg/Kg	427725	15748
TPH as Motor Oil	SW8015B(M)	11/13/15	11/16/15	1	1.00	10	ND		mg/Kg	427725	15748
Pentacosane (S)	SW8015B(M)	11/13/15	11/16/15	1	57.9	129	102		%	427725	15748

**NOTE:** x - Diesel result due to unknown organics within quantified range



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B31-14.5	<b>Lab Sample ID:</b>	1511130-005A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/09/15 / 9:30		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427801	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427801	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427801	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427801	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427801	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427801	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427801	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	79.4		%	427801	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	74.4		%	427801	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	79.8		%	427801	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8270C	11/13/15	11/17/15	1	0.1685	0.356	ND		mg/Kg	427751	15744
2-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
1-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
Acenaphthylene	SW8270C	11/13/15	11/17/15	1	0.1073	0.356	ND		mg/Kg	427751	15744
Acenaphthene	SW8270C	11/13/15	11/17/15	1	0.1181	0.356	ND		mg/Kg	427751	15744
Fluorene	SW8270C	11/13/15	11/17/15	1	0.06048	0.356	ND		mg/Kg	427751	15744
Phenanthrene	SW8270C	11/13/15	11/17/15	1	0.1469	0.356	ND		mg/Kg	427751	15744
Anthracene	SW8270C	11/13/15	11/17/15	1	0.1872	0.356	ND		mg/Kg	427751	15744
Fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1771	0.356	ND		mg/Kg	427751	15744
Pyrene	SW8270C	11/13/15	11/17/15	1	0.1375	0.356	ND		mg/Kg	427751	15744
Benz[a]anthracene	SW8270C	11/13/15	11/17/15	1	0.2153	0.356	ND		mg/Kg	427751	15744
Chrysene	SW8270C	11/13/15	11/17/15	1	0.1274	0.716	ND		mg/Kg	427751	15744
Benzo[b]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1462	0.356	ND		mg/Kg	427751	15744
Benzo[k]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.09432	0.356	ND		mg/Kg	427751	15744
Benzo[a]pyrene	SW8270C	11/13/15	11/17/15	1	0.1620	0.356	ND		mg/Kg	427751	15744
Indeno[1,2,3-cd]pyrene	SW8270C	11/13/15	11/17/15	1	0.09072	0.356	ND		mg/Kg	427751	15744
Dibenz[a,h]anthracene	SW8270C	11/13/15	11/17/15	1	0.04896	0.356	ND		mg/Kg	427751	15744
Benzo[g,h,i]perylene	SW8270C	11/13/15	11/17/15	1	0.05400	0.356	ND		mg/Kg	427751	15744
2-Fluorobiphenyl (S)	SW8270C	11/13/15	11/17/15	1	30	115	97.0		%	427751	15744
p-Terphenyl-d14 (S)	SW8270C	11/13/15	11/17/15	1	37.9	127	97.6		%	427751	15744



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B31-14.5	<b>Lab Sample ID:</b>	1511130-005A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/09/15 / 9:30		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	530	x	ug/Kg	427801	15792
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	136	S	%	427801	15792

**NOTE:** x - Result is due to significant contribution from non-target hydrocarbons in C5-C12 range quantified as Gasoline. S - High surrogate recovery attributed to interference of non target hydrocarbons.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/13/15	11/16/15	1	0.500	2.0	3.3	x	mg/Kg	427725	15748
TPH as Motor Oil	SW8015B(M)	11/13/15	11/16/15	1	1.00	10	ND		mg/Kg	427725	15748
Pentacosane (S)	SW8015B(M)	11/13/15	11/16/15	1	57.9	129	112		%	427725	15748

**NOTE:** x - Diesel result due to unknown organics within quantified range



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B32-1	<b>Lab Sample ID:</b>	1511130-006A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 14:25		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427801	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427801	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427801	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427801	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427801	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427801	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427801	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	87.5		%	427801	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	85.2		%	427801	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	81.3		%	427801	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8270C	11/13/15	11/17/15	1	0.1685	0.356	ND		mg/Kg	427751	15744
2-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
1-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
Acenaphthylene	SW8270C	11/13/15	11/17/15	1	0.1073	0.356	ND		mg/Kg	427751	15744
Acenaphthene	SW8270C	11/13/15	11/17/15	1	0.1181	0.356	ND		mg/Kg	427751	15744
Fluorene	SW8270C	11/13/15	11/17/15	1	0.06048	0.356	ND		mg/Kg	427751	15744
Phenanthrene	SW8270C	11/13/15	11/17/15	1	0.1469	0.356	ND		mg/Kg	427751	15744
Anthracene	SW8270C	11/13/15	11/17/15	1	0.1872	0.356	ND		mg/Kg	427751	15744
Fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1771	0.356	ND		mg/Kg	427751	15744
Pyrene	SW8270C	11/13/15	11/17/15	1	0.1375	0.356	ND		mg/Kg	427751	15744
Benz[a]anthracene	SW8270C	11/13/15	11/17/15	1	0.2153	0.356	ND		mg/Kg	427751	15744
Chrysene	SW8270C	11/13/15	11/17/15	1	0.1274	0.716	ND		mg/Kg	427751	15744
Benzo[b]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1462	0.356	ND		mg/Kg	427751	15744
Benzo[k]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.09432	0.356	ND		mg/Kg	427751	15744
Benzo[a]pyrene	SW8270C	11/13/15	11/17/15	1	0.1620	0.356	ND		mg/Kg	427751	15744
Indeno[1,2,3-cd]pyrene	SW8270C	11/13/15	11/17/15	1	0.09072	0.356	ND		mg/Kg	427751	15744
Dibenz[a,h]anthracene	SW8270C	11/13/15	11/17/15	1	0.04896	0.356	ND		mg/Kg	427751	15744
Benzo[g,h,i]perylene	SW8270C	11/13/15	11/17/15	1	0.05400	0.356	ND		mg/Kg	427751	15744
2-Fluorobiphenyl (S)	SW8270C	11/13/15	11/17/15	1	30	115	84.9		%	427751	15744
p-Terphenyl-d14 (S)	SW8270C	11/13/15	11/17/15	1	37.9	127	94.3		%	427751	15744



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B32-1	<b>Lab Sample ID:</b>	1511130-006A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 14:25		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	ND		ug/Kg	427801	15792
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	87.9		%	427801	15792

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/13/15	11/16/15	1	0.500	2.0	3.2	x	mg/Kg	427725	15748
TPH as Motor Oil	SW8015B(M)	11/13/15	11/16/15	1	1.00	10	20		mg/Kg	427725	15748
Pentacosane (S)	SW8015B(M)	11/13/15	11/16/15	1	57.9	129	92.0		%	427725	15748

**NOTE:** x- Diesel result due to unknown organics within quantified range



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B32-3	<b>Lab Sample ID:</b>	1511130-007A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 14:35		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427801	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427801	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427801	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427801	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427801	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427801	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427801	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	85.9		%	427801	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	80.1		%	427801	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	85.5		%	427801	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8270C	11/13/15	11/17/15	1	0.1685	0.356	ND		mg/Kg	427751	15744
2-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
1-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
Acenaphthylene	SW8270C	11/13/15	11/17/15	1	0.1073	0.356	ND		mg/Kg	427751	15744
Acenaphthene	SW8270C	11/13/15	11/17/15	1	0.1181	0.356	ND		mg/Kg	427751	15744
Fluorene	SW8270C	11/13/15	11/17/15	1	0.06048	0.356	ND		mg/Kg	427751	15744
Phenanthrene	SW8270C	11/13/15	11/17/15	1	0.1469	0.356	ND		mg/Kg	427751	15744
Anthracene	SW8270C	11/13/15	11/17/15	1	0.1872	0.356	ND		mg/Kg	427751	15744
Fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1771	0.356	ND		mg/Kg	427751	15744
Pyrene	SW8270C	11/13/15	11/17/15	1	0.1375	0.356	ND		mg/Kg	427751	15744
Benz[a]anthracene	SW8270C	11/13/15	11/17/15	1	0.2153	0.356	ND		mg/Kg	427751	15744
Chrysene	SW8270C	11/13/15	11/17/15	1	0.1274	0.716	ND		mg/Kg	427751	15744
Benzo[b]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1462	0.356	ND		mg/Kg	427751	15744
Benzo[k]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.09432	0.356	ND		mg/Kg	427751	15744
Benzo[a]pyrene	SW8270C	11/13/15	11/17/15	1	0.1620	0.356	ND		mg/Kg	427751	15744
Indeno[1,2,3-cd]pyrene	SW8270C	11/13/15	11/17/15	1	0.09072	0.356	ND		mg/Kg	427751	15744
Dibenz[a,h]anthracene	SW8270C	11/13/15	11/17/15	1	0.04896	0.356	ND		mg/Kg	427751	15744
Benzo[g,h,i]perylene	SW8270C	11/13/15	11/17/15	1	0.05400	0.356	ND		mg/Kg	427751	15744
2-Fluorobiphenyl (S)	SW8270C	11/13/15	11/17/15	1	30	115	81.6		%	427751	15744
p-Terphenyl-d14 (S)	SW8270C	11/13/15	11/17/15	1	37.9	127	101		%	427751	15744



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B32-3	<b>Lab Sample ID:</b>	1511130-007A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 14:35		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	ND		ug/Kg	427801	15792
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	88.8		%	427801	15792

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/13/15	11/16/15	1	0.500	2.0	ND		mg/Kg	427725	15748
TPH as Motor Oil	SW8015B(M)	11/13/15	11/16/15	1	1.00	10	ND		mg/Kg	427725	15748
Pentacosane (S)	SW8015B(M)	11/13/15	11/16/15	1	57.9	129	92.7		%	427725	15748





## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B32-9	<b>Lab Sample ID:</b>	1511130-010A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/09/15 / 8:25		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427801	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427801	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427801	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427801	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427801	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427801	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427801	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	88.8		%	427801	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	78.5		%	427801	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	81.8		%	427801	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8270C	11/13/15	11/17/15	1	0.1685	0.356	ND		mg/Kg	427751	15744
2-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
1-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
Acenaphthylene	SW8270C	11/13/15	11/17/15	1	0.1073	0.356	ND		mg/Kg	427751	15744
Acenaphthene	SW8270C	11/13/15	11/17/15	1	0.1181	0.356	ND		mg/Kg	427751	15744
Fluorene	SW8270C	11/13/15	11/17/15	1	0.06048	0.356	ND		mg/Kg	427751	15744
Phenanthrene	SW8270C	11/13/15	11/17/15	1	0.1469	0.356	ND		mg/Kg	427751	15744
Anthracene	SW8270C	11/13/15	11/17/15	1	0.1872	0.356	ND		mg/Kg	427751	15744
Fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1771	0.356	ND		mg/Kg	427751	15744
Pyrene	SW8270C	11/13/15	11/17/15	1	0.1375	0.356	ND		mg/Kg	427751	15744
Benz[a]anthracene	SW8270C	11/13/15	11/17/15	1	0.2153	0.356	ND		mg/Kg	427751	15744
Chrysene	SW8270C	11/13/15	11/17/15	1	0.1274	0.716	ND		mg/Kg	427751	15744
Benzo[b]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1462	0.356	ND		mg/Kg	427751	15744
Benzo[k]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.09432	0.356	ND		mg/Kg	427751	15744
Benzo[a]pyrene	SW8270C	11/13/15	11/17/15	1	0.1620	0.356	ND		mg/Kg	427751	15744
Indeno[1,2,3-cd]pyrene	SW8270C	11/13/15	11/17/15	1	0.09072	0.356	ND		mg/Kg	427751	15744
Dibenz[a,h]anthracene	SW8270C	11/13/15	11/17/15	1	0.04896	0.356	ND		mg/Kg	427751	15744
Benzo[g,h,i]perylene	SW8270C	11/13/15	11/17/15	1	0.05400	0.356	ND		mg/Kg	427751	15744
2-Fluorobiphenyl (S)	SW8270C	11/13/15	11/17/15	1	30	115	83.8		%	427751	15744
p-Terphenyl-d14 (S)	SW8270C	11/13/15	11/17/15	1	37.9	127	112		%	427751	15744



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B32-9	<b>Lab Sample ID:</b>	1511130-010A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/09/15 / 8:25		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	ND		ug/Kg	427801	15792
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	77.5		%	427801	15792

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/13/15	11/16/15	1	0.500	2.0	2.1	x	mg/Kg	427725	15748
TPH as Motor Oil	SW8015B(M)	11/13/15	11/16/15	1	1.00	10	ND		mg/Kg	427725	15748
Pentacosane (S)	SW8015B(M)	11/13/15	11/16/15	1	57.9	129	106		%	427725	15748

**NOTE:** x- Diesel result due to unknown organics within quantified range



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B32-13	<b>Lab Sample ID:</b>	1511130-011A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/09/15 / 8:40		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427801	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427801	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427801	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427801	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427801	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427801	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427801	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	86.9		%	427801	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	74.3		%	427801	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	81.8		%	427801	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8270C	11/13/15	11/17/15	1	0.1685	0.356	ND		mg/Kg	427751	15744
2-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
1-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
Acenaphthylene	SW8270C	11/13/15	11/17/15	1	0.1073	0.356	ND		mg/Kg	427751	15744
Acenaphthene	SW8270C	11/13/15	11/17/15	1	0.1181	0.356	ND		mg/Kg	427751	15744
Fluorene	SW8270C	11/13/15	11/17/15	1	0.06048	0.356	ND		mg/Kg	427751	15744
Phenanthrene	SW8270C	11/13/15	11/17/15	1	0.1469	0.356	ND		mg/Kg	427751	15744
Anthracene	SW8270C	11/13/15	11/17/15	1	0.1872	0.356	ND		mg/Kg	427751	15744
Fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1771	0.356	ND		mg/Kg	427751	15744
Pyrene	SW8270C	11/13/15	11/17/15	1	0.1375	0.356	ND		mg/Kg	427751	15744
Benz[a]anthracene	SW8270C	11/13/15	11/17/15	1	0.2153	0.356	ND		mg/Kg	427751	15744
Chrysene	SW8270C	11/13/15	11/17/15	1	0.1274	0.716	ND		mg/Kg	427751	15744
Benzo[b]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1462	0.356	ND		mg/Kg	427751	15744
Benzo[k]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.09432	0.356	ND		mg/Kg	427751	15744
Benzo[a]pyrene	SW8270C	11/13/15	11/17/15	1	0.1620	0.356	ND		mg/Kg	427751	15744
Indeno[1,2,3-cd]pyrene	SW8270C	11/13/15	11/17/15	1	0.09072	0.356	ND		mg/Kg	427751	15744
Dibenz[a,h]anthracene	SW8270C	11/13/15	11/17/15	1	0.04896	0.356	ND		mg/Kg	427751	15744
Benzo[g,h,i]perylene	SW8270C	11/13/15	11/17/15	1	0.05400	0.356	ND		mg/Kg	427751	15744
2-Fluorobiphenyl (S)	SW8270C	11/13/15	11/17/15	1	30	115	77.3		%	427751	15744
p-Terphenyl-d14 (S)	SW8270C	11/13/15	11/17/15	1	37.9	127	112		%	427751	15744



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B32-13	<b>Lab Sample ID:</b>	1511130-011A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/09/15 / 8:40		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	ND		ug/Kg	427801	15792
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	80.1		%	427801	15792

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/13/15	11/16/15	1	0.500	2.0	2.1	x	mg/Kg	427725	15748
TPH as Motor Oil	SW8015B(M)	11/13/15	11/16/15	1	1.00	10	ND		mg/Kg	427725	15748
Pentacosane (S)	SW8015B(M)	11/13/15	11/16/15	1	57.9	129	99.7		%	427725	15748

**NOTE:** x- Diesel result due to unknown organics within quantified range



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B33-3	<b>Lab Sample ID:</b>	1511130-013A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/09/15 / 11:35		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427801	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427801	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427801	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427801	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427801	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427801	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427801	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	89.8		%	427801	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	78.1		%	427801	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	82.2		%	427801	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	SW8270C	11/13/15	11/17/15	4	0.6739	1.43	ND		mg/Kg	427751	15744
2-Methylnaphthalene	SW8270C	11/13/15	11/17/15	4	0.4579	1.43	ND		mg/Kg	427751	15744
1-Methylnaphthalene	SW8270C	11/13/15	11/17/15	4	0.4579	1.43	ND		mg/Kg	427751	15744
Acenaphthylene	SW8270C	11/13/15	11/17/15	4	0.4291	1.43	ND		mg/Kg	427751	15744
Acenaphthene	SW8270C	11/13/15	11/17/15	4	0.4723	1.43	ND		mg/Kg	427751	15744
Fluorene	SW8270C	11/13/15	11/17/15	4	0.2419	1.43	ND		mg/Kg	427751	15744
Phenanthrene	SW8270C	11/13/15	11/17/15	4	0.5875	1.43	ND		mg/Kg	427751	15744
Anthracene	SW8270C	11/13/15	11/17/15	4	0.7488	1.43	ND		mg/Kg	427751	15744
Fluoranthene	SW8270C	11/13/15	11/17/15	4	0.7085	1.43	ND		mg/Kg	427751	15744
Pyrene	SW8270C	11/13/15	11/17/15	4	0.5501	1.43	ND		mg/Kg	427751	15744
Benz[a]anthracene	SW8270C	11/13/15	11/17/15	4	0.8611	1.43	ND		mg/Kg	427751	15744
Chrysene	SW8270C	11/13/15	11/17/15	4	0.5098	2.87	ND		mg/Kg	427751	15744
Benzo[b]fluoranthene	SW8270C	11/13/15	11/17/15	4	0.5846	1.43	ND		mg/Kg	427751	15744
Benzo[k]fluoranthene	SW8270C	11/13/15	11/17/15	4	0.3773	1.43	ND		mg/Kg	427751	15744
Benzo[a]pyrene	SW8270C	11/13/15	11/17/15	4	0.6480	1.43	ND		mg/Kg	427751	15744
Indeno[1,2,3-cd]pyrene	SW8270C	11/13/15	11/17/15	4	0.3629	1.43	ND		mg/Kg	427751	15744
Dibenz[a,h]anthracene	SW8270C	11/13/15	11/17/15	4	0.1958	1.43	ND		mg/Kg	427751	15744
Benzo[g,h,i]perylene	SW8270C	11/13/15	11/17/15	4	0.2160	1.43	ND		mg/Kg	427751	15744
2-Fluorobiphenyl (S)	SW8270C	11/13/15	11/17/15	4	30	115	71.1		%	427751	15744
p-Terphenyl-d14 (S)	SW8270C	11/13/15	11/17/15	4	37.9	127	95.6		%	427751	15744

**NOTE:** Reporting limits increased due to nature of the matrix (viscous/dark color extract)



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B33-3	<b>Lab Sample ID:</b>	1511130-013A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/09/15 / 11:35		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	ND		ug/Kg	427801	15792
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	73.4		%	427801	15792

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/13/15	11/16/15	1	0.500	2.0	5.4	x	mg/Kg	427725	15748
TPH as Motor Oil	SW8015B(M)	11/13/15	11/16/15	1	1.00	10	59		mg/Kg	427725	15748
Pentacosane (S)	SW8015B(M)	11/13/15	11/16/15	1	57.9	129	89.1		%	427725	15748

**NOTE:** x- Diesel result due to over-lapping of oil range organics within diesel quantified range



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B33-7	<b>Lab Sample ID:</b>	1511130-015A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/09/15 / 11:50		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427801	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427801	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427801	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427801	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427801	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427801	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427801	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	93.4		%	427801	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	77.8		%	427801	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	80.8		%	427801	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8270C	11/13/15	11/17/15	1	0.1685	0.356	ND		mg/Kg	427751	15744
2-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
1-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
Acenaphthylene	SW8270C	11/13/15	11/17/15	1	0.1073	0.356	ND		mg/Kg	427751	15744
Acenaphthene	SW8270C	11/13/15	11/17/15	1	0.1181	0.356	ND		mg/Kg	427751	15744
Fluorene	SW8270C	11/13/15	11/17/15	1	0.06048	0.356	ND		mg/Kg	427751	15744
Phenanthrene	SW8270C	11/13/15	11/17/15	1	0.1469	0.356	ND		mg/Kg	427751	15744
Anthracene	SW8270C	11/13/15	11/17/15	1	0.1872	0.356	ND		mg/Kg	427751	15744
Fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1771	0.356	ND		mg/Kg	427751	15744
Pyrene	SW8270C	11/13/15	11/17/15	1	0.1375	0.356	ND		mg/Kg	427751	15744
Benz[a]anthracene	SW8270C	11/13/15	11/17/15	1	0.2153	0.356	ND		mg/Kg	427751	15744
Chrysene	SW8270C	11/13/15	11/17/15	1	0.1274	0.716	ND		mg/Kg	427751	15744
Benzo[b]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1462	0.356	ND		mg/Kg	427751	15744
Benzo[k]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.09432	0.356	ND		mg/Kg	427751	15744
Benzo[a]pyrene	SW8270C	11/13/15	11/17/15	1	0.1620	0.356	ND		mg/Kg	427751	15744
Indeno[1,2,3-cd]pyrene	SW8270C	11/13/15	11/17/15	1	0.09072	0.356	ND		mg/Kg	427751	15744
Dibenz[a,h]anthracene	SW8270C	11/13/15	11/17/15	1	0.04896	0.356	ND		mg/Kg	427751	15744
Benzo[g,h,i]perylene	SW8270C	11/13/15	11/17/15	1	0.05400	0.356	ND		mg/Kg	427751	15744
2-Fluorobiphenyl (S)	SW8270C	11/13/15	11/17/15	1	30	115	105		%	427751	15744
p-Terphenyl-d14 (S)	SW8270C	11/13/15	11/17/15	1	37.9	127	119		%	427751	15744



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B33-7	<b>Lab Sample ID:</b>	1511130-015A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/09/15 / 11:50		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	ND		ug/Kg	427801	15792
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	76.5		%	427801	15792

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/13/15	11/16/15	1	0.500	2.0	2.0	x	mg/Kg	427725	15748
TPH as Motor Oil	SW8015B(M)	11/13/15	11/16/15	1	1.00	10	17		mg/Kg	427725	15748
Pentacosane (S)	SW8015B(M)	11/13/15	11/16/15	1	57.9	129	111		%	427725	15748

**NOTE:** x- Diesel result due to over-lapping of oil range organics within diesel quantified range





## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B33-12	<b>Lab Sample ID:</b>	1511130-017A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/09/15 / 12:05		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8270C	11/13/15	11/17/15	1	0.1685	0.356	ND		mg/Kg	427751	15744
2-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
1-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
Acenaphthylene	SW8270C	11/13/15	11/17/15	1	0.1073	0.356	ND		mg/Kg	427751	15744
Acenaphthene	SW8270C	11/13/15	11/17/15	1	0.1181	0.356	ND		mg/Kg	427751	15744
Fluorene	SW8270C	11/13/15	11/17/15	1	0.06048	0.356	ND		mg/Kg	427751	15744
Phenanthrene	SW8270C	11/13/15	11/17/15	1	0.1469	0.356	ND		mg/Kg	427751	15744
Anthracene	SW8270C	11/13/15	11/17/15	1	0.1872	0.356	ND		mg/Kg	427751	15744
Fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1771	0.356	ND		mg/Kg	427751	15744
Pyrene	SW8270C	11/13/15	11/17/15	1	0.1375	0.356	ND		mg/Kg	427751	15744
Benz[a]anthracene	SW8270C	11/13/15	11/17/15	1	0.2153	0.356	ND		mg/Kg	427751	15744
Chrysene	SW8270C	11/13/15	11/17/15	1	0.1274	0.716	ND		mg/Kg	427751	15744
Benzo[b]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1462	0.356	ND		mg/Kg	427751	15744
Benzo[k]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.09432	0.356	ND		mg/Kg	427751	15744
Benzo[a]pyrene	SW8270C	11/13/15	11/17/15	1	0.1620	0.356	ND		mg/Kg	427751	15744
Indeno[1,2,3-cd]pyrene	SW8270C	11/13/15	11/17/15	1	0.09072	0.356	ND		mg/Kg	427751	15744
Dibenz[a,h]anthracene	SW8270C	11/13/15	11/17/15	1	0.04896	0.356	ND		mg/Kg	427751	15744
Benzo[g,h,i]perylene	SW8270C	11/13/15	11/17/15	1	0.05400	0.356	ND		mg/Kg	427751	15744
2-Fluorobiphenyl (S)	SW8270C	11/13/15	11/17/15	1	30	115	85.9		%	427751	15744
p-Terphenyl-d14 (S)	SW8270C	11/13/15	11/17/15	1	37.9	127	121		%	427751	15744

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	11/18/15	11/18/15	1	30	100	ND		ug/Kg	427815	15799
(S) 4-Bromofluorobenzene	8260TPH	11/18/15	11/18/15	1	43.9	127	56.1		%	427815	15799

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/13/15	11/16/15	1	0.500	2.0	ND		mg/Kg	427725	15748
TPH as Motor Oil	SW8015B(M)	11/13/15	11/16/15	1	1.00	10	10		mg/Kg	427725	15748
Pentacosane (S)	SW8015B(M)	11/13/15	11/16/15	1	57.9	129	108		%	427725	15748



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B34-3	<b>Lab Sample ID:</b>	1511130-019A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 8:45		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	11/18/15	1	4.4	10	ND		ug/Kg	427815	NA
Isopropyl Alcohol	SW8260B	NA	11/18/15	1	4.6	10	ND		ug/Kg	427815	NA
Vinyl Chloride	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427815	NA
Bromomethane	SW8260B	NA	11/18/15	1	4.7	10	ND		ug/Kg	427815	NA
Trichlorofluoromethane	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427815	NA
1,1-Dichloroethene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427815	NA
Freon 113	SW8260B	NA	11/18/15	1	3.7	10	ND		ug/Kg	427815	NA
Methylene Chloride	SW8260B	NA	11/18/15	1	2.0	50	ND		ug/Kg	427815	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427815	NA
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427815	NA
tert-Butanol	SW8260B	NA	11/18/15	1	21	50	ND		ug/Kg	427815	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427815	NA
1,1-Dichloroethane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427815	NA
ETBE	SW8260B	NA	11/18/15	1	2.4	10	ND		ug/Kg	427815	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427815	NA
2,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427815	NA
Bromochloromethane	SW8260B	NA	11/18/15	1	2.3	10	ND		ug/Kg	427815	NA
Chloroform	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427815	NA
Carbon Tetrachloride	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427815	NA
1,1,1-Trichloroethane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427815	NA
1,1-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427815	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427815	NA
TAME	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427815	NA
1,2-Dichloroethane	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427815	NA
Trichloroethylene	SW8260B	NA	11/18/15	1	3.9	10	ND		ug/Kg	427815	NA
Dibromomethane	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427815	NA
1,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427815	NA
Bromodichloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427815	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427815	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427815	NA
Tetrachloroethylene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427815	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427815	NA
1,1,2-Trichloroethane	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427815	NA
Dibromochloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427815	NA
1,3-Dichloropropane	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427815	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B34-3	<b>Lab Sample ID:</b>	1511130-019A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 8:45		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8260B	NA	11/18/15	1	1.7	10	ND		ug/Kg	427815	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427815	NA
Chlorobenzene	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427815	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427815	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427815	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427815	NA
Styrene	SW8260B	NA	11/18/15	1	0.77	10	ND		ug/Kg	427815	NA
Bromoform	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427815	NA
Isopropyl Benzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427815	NA
n-Propylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427815	NA
Bromobenzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427815	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	3.0	10	ND		ug/Kg	427815	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427815	NA
1,2,3-Trichloropropane	SW8260B	NA	11/18/15	1	3.3	10	ND		ug/Kg	427815	NA
4-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427815	NA
2-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427815	NA
tert-Butylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427815	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427815	NA
sec-Butyl Benzene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427815	NA
p-Isopropyltoluene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427815	NA
1,3-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427815	NA
1,4-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427815	NA
n-Butylbenzene	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427815	NA
1,2-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427815	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427815	NA
Hexachlorobutadiene	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427815	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427815	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427815	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427815	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	96.0		%	427815	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	88.6		%	427815	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	93.4		%	427815	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B34-3	<b>Lab Sample ID:</b>	1511130-019A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 8:45		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8270C	11/13/15	11/17/15	1	0.1685	0.356	ND		mg/Kg	427751	15744
2-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
1-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
Acenaphthylene	SW8270C	11/13/15	11/17/15	1	0.1073	0.356	ND		mg/Kg	427751	15744
Acenaphthene	SW8270C	11/13/15	11/17/15	1	0.1181	0.356	ND		mg/Kg	427751	15744
Fluorene	SW8270C	11/13/15	11/17/15	1	0.06048	0.356	ND		mg/Kg	427751	15744
Phenanthrene	SW8270C	11/13/15	11/17/15	1	0.1469	0.356	ND		mg/Kg	427751	15744
Anthracene	SW8270C	11/13/15	11/17/15	1	0.1872	0.356	ND		mg/Kg	427751	15744
Fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1771	0.356	ND		mg/Kg	427751	15744
Pyrene	SW8270C	11/13/15	11/17/15	1	0.1375	0.356	ND		mg/Kg	427751	15744
Benz[a]anthracene	SW8270C	11/13/15	11/17/15	1	0.2153	0.356	ND		mg/Kg	427751	15744
Chrysene	SW8270C	11/13/15	11/17/15	1	0.1274	0.716	ND		mg/Kg	427751	15744
Benzo[b]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1462	0.356	ND		mg/Kg	427751	15744
Benzo[k]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.09432	0.356	ND		mg/Kg	427751	15744
Benzo[a]pyrene	SW8270C	11/13/15	11/17/15	1	0.1620	0.356	ND		mg/Kg	427751	15744
Indeno[1,2,3-cd]pyrene	SW8270C	11/13/15	11/17/15	1	0.09072	0.356	ND		mg/Kg	427751	15744
Dibenz[a,h]anthracene	SW8270C	11/13/15	11/17/15	1	0.04896	0.356	ND		mg/Kg	427751	15744
Benzo[g,h,i]perylene	SW8270C	11/13/15	11/17/15	1	0.05400	0.356	ND		mg/Kg	427751	15744
2-Fluorobiphenyl (S)	SW8270C	11/13/15	11/17/15	1	30	115	84.7		%	427751	15744
p-Terphenyl-d14 (S)	SW8270C	11/13/15	11/17/15	1	37.9	127	115		%	427751	15744

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Hydraulic Oil	SW8015B	11/16/15	11/16/15	1	1.35	10	ND		mg/Kg	427773	15755
Pentacosane (S)	SW8015B	11/16/15	11/16/15	1	53.3	124	96.9		%	427773	15755



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B34-5	<b>Lab Sample ID:</b>	1511130-020A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 9:00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	11/18/15	1	4.4	10	ND		ug/Kg	427815	NA
Isopropyl Alcohol	SW8260B	NA	11/18/15	1	4.6	10	ND		ug/Kg	427815	NA
Vinyl Chloride	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427815	NA
Bromomethane	SW8260B	NA	11/18/15	1	4.7	10	ND		ug/Kg	427815	NA
Trichlorofluoromethane	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427815	NA
1,1-Dichloroethene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427815	NA
Freon 113	SW8260B	NA	11/18/15	1	3.7	10	ND		ug/Kg	427815	NA
Methylene Chloride	SW8260B	NA	11/18/15	1	2.0	50	ND		ug/Kg	427815	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427815	NA
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427815	NA
tert-Butanol	SW8260B	NA	11/18/15	1	21	50	ND		ug/Kg	427815	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427815	NA
1,1-Dichloroethane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427815	NA
ETBE	SW8260B	NA	11/18/15	1	2.4	10	ND		ug/Kg	427815	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427815	NA
2,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427815	NA
Bromochloromethane	SW8260B	NA	11/18/15	1	2.3	10	ND		ug/Kg	427815	NA
Chloroform	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427815	NA
Carbon Tetrachloride	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427815	NA
1,1,1-Trichloroethane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427815	NA
1,1-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427815	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427815	NA
TAME	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427815	NA
1,2-Dichloroethane	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427815	NA
Trichloroethylene	SW8260B	NA	11/18/15	1	3.9	10	ND		ug/Kg	427815	NA
Dibromomethane	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427815	NA
1,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427815	NA
Bromodichloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427815	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427815	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427815	NA
Tetrachloroethylene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427815	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427815	NA
1,1,2-Trichloroethane	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427815	NA
Dibromochloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427815	NA
1,3-Dichloropropane	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427815	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B34-5	<b>Lab Sample ID:</b>	1511130-020A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 9:00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8260B	NA	11/18/15	1	1.7	10	ND		ug/Kg	427815	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427815	NA
Chlorobenzene	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427815	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427815	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427815	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427815	NA
Styrene	SW8260B	NA	11/18/15	1	0.77	10	ND		ug/Kg	427815	NA
Bromoform	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427815	NA
Isopropyl Benzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427815	NA
n-Propylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427815	NA
Bromobenzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427815	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	3.0	10	ND		ug/Kg	427815	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427815	NA
1,2,3-Trichloropropane	SW8260B	NA	11/18/15	1	3.3	10	ND		ug/Kg	427815	NA
4-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427815	NA
2-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427815	NA
tert-Butylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427815	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427815	NA
sec-Butyl Benzene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427815	NA
p-Isopropyltoluene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427815	NA
1,3-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427815	NA
1,4-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427815	NA
n-Butylbenzene	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427815	NA
1,2-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427815	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427815	NA
Hexachlorobutadiene	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427815	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427815	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427815	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427815	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	94.8		%	427815	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	80.0		%	427815	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	87.3		%	427815	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B34-5	<b>Lab Sample ID:</b>	1511130-020A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 9:00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8270C	11/13/15	11/17/15	1	0.1685	0.356	ND		mg/Kg	427751	15744
2-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
1-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
Acenaphthylene	SW8270C	11/13/15	11/17/15	1	0.1073	0.356	ND		mg/Kg	427751	15744
Acenaphthene	SW8270C	11/13/15	11/17/15	1	0.1181	0.356	ND		mg/Kg	427751	15744
Fluorene	SW8270C	11/13/15	11/17/15	1	0.06048	0.356	ND		mg/Kg	427751	15744
Phenanthrene	SW8270C	11/13/15	11/17/15	1	0.1469	0.356	ND		mg/Kg	427751	15744
Anthracene	SW8270C	11/13/15	11/17/15	1	0.1872	0.356	ND		mg/Kg	427751	15744
Fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1771	0.356	ND		mg/Kg	427751	15744
Pyrene	SW8270C	11/13/15	11/17/15	1	0.1375	0.356	ND		mg/Kg	427751	15744
Benz[a]anthracene	SW8270C	11/13/15	11/17/15	1	0.2153	0.356	ND		mg/Kg	427751	15744
Chrysene	SW8270C	11/13/15	11/17/15	1	0.1274	0.716	ND		mg/Kg	427751	15744
Benzo[b]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1462	0.356	ND		mg/Kg	427751	15744
Benzo[k]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.09432	0.356	ND		mg/Kg	427751	15744
Benzo[a]pyrene	SW8270C	11/13/15	11/17/15	1	0.1620	0.356	ND		mg/Kg	427751	15744
Indeno[1,2,3-cd]pyrene	SW8270C	11/13/15	11/17/15	1	0.09072	0.356	ND		mg/Kg	427751	15744
Dibenz[a,h]anthracene	SW8270C	11/13/15	11/17/15	1	0.04896	0.356	ND		mg/Kg	427751	15744
Benzo[g,h,i]perylene	SW8270C	11/13/15	11/17/15	1	0.05400	0.356	ND		mg/Kg	427751	15744
2-Fluorobiphenyl (S)	SW8270C	11/13/15	11/17/15	1	30	115	85.8		%	427751	15744
p-Terphenyl-d14 (S)	SW8270C	11/13/15	11/17/15	1	37.9	127	132		%	427751	15744

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Hydraulic Oil	SW8015B	11/16/15	11/16/15	1	1.35	10	ND		mg/Kg	427773	15755
Pentacosane (S)	SW8015B	11/16/15	11/16/15	1	53.3	124	109		%	427773	15755



### MB Summary Report

<b>Work Order:</b>	1511130	<b>Prep Method:</b>	3545_PAH	<b>Prep Date:</b>	11/13/15	<b>Prep Batch:</b>	15744
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	11/17/15	<b>Analytical Batch:</b>	427751
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Naphthalene	0.1685	0.356	ND	
2-Methylnaphthalene	0.1145	0.356	ND	
1-Methylnaphthalene	0.1145	0.356	ND	
Acenaphthylene	0.1073	0.356	ND	
Acenaphthene	0.1181	0.356	ND	
Fluorene	0.06048	0.356	ND	
Phenanthrene	0.1469	0.356	ND	
Anthracene	0.1872	0.356	ND	
Fluoranthene	0.1771	0.356	ND	
Pyrene	0.1375	0.356	ND	
Benz[a]anthracene	0.2153	0.356	ND	
Chrysene	0.1274	0.716	ND	
Benzo[b]fluoranthene	0.1462	0.356	ND	
Benzo[k]fluoranthene	0.09432	0.356	ND	
Benzo[a]pyrene	0.1620	0.356	ND	
Indeno[1,2,3-cd]pyrene	0.09072	0.356	ND	
Dibenz[a,h]anthracene	0.04896	0.356	ND	
Benzo[g,h,i]perylene	0.05400	0.356	ND	
2-Fluorobiphenyl (S)			82.7	
p-Terphenyl-d14 (S)			83.0	

<b>Work Order:</b>	1511130	<b>Prep Method:</b>	3546_TPHSG	<b>Prep Date:</b>	11/13/15	<b>Prep Batch:</b>	15748
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	11/13/15	<b>Analytical Batch:</b>	427723
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel (SG)	0.66	2.0	ND	
TPH as Motor Oil (SG)	1.0	10	ND	
Pentacosane (S)			98.5	





### MB Summary Report

<b>Work Order:</b>	1511130	<b>Prep Method:</b>	3546_TPHSG	<b>Prep Date:</b>	11/16/15	<b>Prep Batch:</b>	15755
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	11/16/15	<b>Analytical Batch:</b>	427773
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel (SG)	0.66	2.0	ND	
TPH as Motor Oil (SG)	1.0	10	2.2	
Pentacosane (S)			90.1	

<b>Work Order:</b>	1511130	<b>Prep Method:</b>	3546_TPHSG	<b>Prep Date:</b>	11/16/15	<b>Prep Batch:</b>	15755
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8015B	<b>Analyzed Date:</b>	11/16/15	<b>Analytical Batch:</b>	427773
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel	0.575	2.0	ND	
TPH as Hydraulic Oil	1.35	10	ND	
TPH as Motor Oil	1.4	10	2.2	
Pentacosane (S)			90.1	

<b>Work Order:</b>	1511130	<b>Prep Method:</b>	5035	<b>Prep Date:</b>	11/18/15	<b>Prep Batch:</b>	15792
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	8260TPH	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427801
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Gasoline	30	100	70	
(S) 4-Bromofluorobenzene			98.4	

<b>Work Order:</b>	1511130	<b>Prep Method:</b>	5035	<b>Prep Date:</b>	11/18/15	<b>Prep Batch:</b>	15799
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	8260TPH	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427815
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Gasoline	30	100	89	
(S) 4-Bromofluorobenzene			73.2	



## MB Summary Report

<b>Work Order:</b>	1511130	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427801
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	4.4	10	ND		
Isopropyl Alcohol	4.6	10	ND		
Vinyl Chloride	2.6	10	ND		
Bromomethane	4.7	10	ND		
Trichlorofluoromethane	2.9	10	ND		
1,1-Dichloroethene	1.5	10	ND		
Freon 113	3.7	10	ND		
Methylene Chloride	2.0	50	ND		
trans-1,2-Dichloroethene	1.1	10	ND		
MTBE	2.6	10	ND		
tert-Butanol	21	50	ND		
Diisopropyl ether (DIPE)	2.2	10	ND		
1,1-Dichloroethane	1.3	10	ND		
ETBE	2.4	10	ND		
cis-1,2-Dichloroethene	1.8	10	ND		
2,2-Dichloropropane	1.2	10	ND		
Bromochloromethane	2.3	10	ND		
Chloroform	1.2	10	ND		
Carbon Tetrachloride	1.6	10	ND		
1,1,1-Trichloroethane	1.2	10	ND		
1,1-Dichloropropene	1.4	10	ND		
Benzene	1.5	10	ND		
TAME	2.1	10	ND		
1,2-Dichloroethane	1.9	10	ND		
Trichloroethylene	3.9	10	ND		
Dibromomethane	2.2	10	ND		
1,2-Dichloropropane	1.3	10	ND		
Bromodichloromethane	1.1	10	ND		
cis-1,3-Dichloropropene	1.4	10	ND		
Toluene	0.98	10	ND		
Tetrachloroethylene	1.8	10	ND		
trans-1,3-Dichloropropene	1.2	10	ND		
1,1,2-Trichloroethane	1.8	10	ND		
Dibromochloromethane	1.1	10	ND		
1,3-Dichloropropane	2.1	10	ND		
Naphthalene	1.7	10	ND		
Ethyl Benzene	0.86	10	ND		
Chlorobenzene	4.2	10	ND		
1,1,1,2-Tetrachloroethane	0.86	10	ND		
m,p-Xylene	1.9	10	ND		
o-Xylene	0.66	5.0	ND		



## MB Summary Report

<b>Work Order:</b>	1511130	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427801
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Styrene	0.77	10	ND		
Bromoform	1.9	10	ND		
Isopropyl Benzene	1.2	10	ND		
n-Propylbenzene	1.4	10	ND		
Bromobenzene	1.2	10	ND		
1,1,2,2-Tetrachloroethane	3.0	10	ND		
1,3,5-Trimethylbenzene	1.1	10	ND		
1,2,3-Trichloropropane	3.3	10	ND		
4-Chlorotoluene	1.6	10	ND		
2-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.4	10	ND		
1,2,4-Trimethylbenzene	1.1	10	ND		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	ND		
1,3-Dichlorobenzene	1.8	10	ND		
1,4-Dichlorobenzene	1.5	10	ND		
n-Butylbenzene	2.2	10	ND		
1,2-Dichlorobenzene	1.3	10	ND		
1,2-Dibromo-3-Chloropropane	4.2	10	ND		
Hexachlorobutadiene	2.6	10	ND		
1,2,4-Trichlorobenzene	2.1	10	ND		
Naphthalene	2.8	10	ND		
1,2,3-Trichlorobenzene	2.9	10	ND		
(S) Dibromofluoromethane			81.6		
(S) Toluene-d8			79.7		
(S) 4-Bromofluorobenzene			78.2		



## MB Summary Report

<b>Work Order:</b>	1511130	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427815
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	4.4	10	ND	
Isopropyl Alcohol	4.6	10	ND	
Vinyl Chloride	2.6	10	ND	
Bromomethane	4.7	10	ND	
Trichlorofluoromethane	2.9	10	ND	
1,1-Dichloroethene	1.5	10	ND	
Freon 113	3.7	10	ND	
Methylene Chloride	2.0	50	ND	
trans-1,2-Dichloroethene	1.1	10	ND	
MTBE	2.6	10	ND	
tert-Butanol	21	50	ND	
Diisopropyl ether (DIPE)	2.2	10	ND	
1,1-Dichloroethane	1.3	10	ND	
ETBE	2.4	10	ND	
cis-1,2-Dichloroethene	1.8	10	ND	
2,2-Dichloropropane	1.2	10	ND	
Bromochloromethane	2.3	10	ND	
Chloroform	1.2	10	ND	
Carbon Tetrachloride	1.6	10	ND	
1,1,1-Trichloroethane	1.2	10	ND	
1,1-Dichloropropene	1.4	10	ND	
Benzene	1.5	10	ND	
TAME	2.1	10	ND	
1,2-Dichloroethane	1.9	10	ND	
Trichloroethylene	3.9	10	ND	
Dibromomethane	2.2	10	ND	
1,2-Dichloropropane	1.3	10	ND	
Bromodichloromethane	1.1	10	ND	
cis-1,3-Dichloropropene	1.4	10	ND	
Toluene	0.98	10	ND	
Tetrachloroethylene	1.8	10	ND	
trans-1,3-Dichloropropene	1.2	10	ND	
1,1,2-Trichloroethane	1.8	10	ND	
Dibromochloromethane	1.1	10	ND	
1,3-Dichloropropane	2.1	10	ND	
Naphthalene	1.7	10	ND	
Ethyl Benzene	0.86	10	ND	
Chlorobenzene	4.2	10	ND	
1,1,1,2-Tetrachloroethane	0.86	10	ND	
m,p-Xylene	1.9	10	ND	
o-Xylene	0.66	5.0	ND	



## MB Summary Report

<b>Work Order:</b>	1511130	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427815
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Styrene	0.77	10	ND		
Bromoform	1.9	10	ND		
Isopropyl Benzene	1.2	10	ND		
n-Propylbenzene	1.4	10	ND		
Bromobenzene	1.2	10	ND		
1,1,2,2-Tetrachloroethane	3.0	10	ND		
1,3,5-Trimethylbenzene	1.1	10	ND		
1,2,3-Trichloropropane	3.3	10	ND		
4-Chlorotoluene	1.6	10	ND		
2-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.4	10	ND		
1,2,4-Trimethylbenzene	1.1	10	ND		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	ND		
1,3-Dichlorobenzene	1.8	10	ND		
1,4-Dichlorobenzene	1.5	10	ND		
n-Butylbenzene	2.2	10	ND		
1,2-Dichlorobenzene	1.3	10	ND		
1,2-Dibromo-3-Chloropropane	4.2	10	ND		
Hexachlorobutadiene	2.6	10	ND		
1,2,4-Trichlorobenzene	2.1	10	ND		
Naphthalene	2.8	10	ND		
1,2,3-Trichlorobenzene	2.9	10	ND		
(S) Dibromofluoromethane			90.5		
(S) Toluene-d8			77.3		
(S) 4-Bromofluorobenzene			81.1		



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1511130	<b>Prep Method:</b>	3545_PAH	<b>Prep Date:</b>	11/13/15	<b>Prep Batch:</b>	15744
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	11/17/15	<b>Analytical Batch:</b>	427751
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Acenaphthene	0.118	0.356	ND	0.8	64.7	69.8	7.51	47 - 121	30	
Pyrene	0.138	0.356	ND	1.2	90.3	83.7	7.30	58.6 - 116	30	
2-Fluorobiphenyl (S)			ND	20	68.3	75.9		44.7 - 116		
p-Terphenyl-d14 (S)			ND	20	84.3	93.8		46.4 - 153		

<b>Work Order:</b>	1511130	<b>Prep Method:</b>	3546_TPHSG	<b>Prep Date:</b>	11/13/15	<b>Prep Batch:</b>	15748
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	11/13/15	<b>Analytical Batch:</b>	427723
<b>Units:</b>	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)	0.66	2.0	ND	25	91.4	93.3	2.06	50.8 - 111	30	
Pentacosane (S)			ND	200	108	106		49.9 - 144		

<b>Work Order:</b>	1511130	<b>Prep Method:</b>	3546_TPHSG	<b>Prep Date:</b>	11/16/15	<b>Prep Batch:</b>	15755
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	11/16/15	<b>Analytical Batch:</b>	427773
<b>Units:</b>	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)	0.66	2.0	ND	25	79.6	59.4	29.1	50.8 - 111	30	
Pentacosane (S)			2.2	200	91.1	63.7		49.9 - 144		

<b>Work Order:</b>	1511130	<b>Prep Method:</b>	5035	<b>Prep Date:</b>	11/18/15	<b>Prep Batch:</b>	15792
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	8260TPH	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427801
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	30	100	70	1000	100	121	19.0	64.0 - 133.2	30	
(S) 4-Bromofluorobenzene			98.4	50	97.2	99.6		43.9 - 127		



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1511130	<b>Prep Method:</b>	5035	<b>Prep Date:</b>	11/18/15	<b>Prep Batch:</b>	15799
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	8260TPH	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427815
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	30	100	89	1000	85.1	95.8	11.9	64.0 - 133.2	30	
(S) 4-Bromofluorobenzene			73.2	50	83.5	80.9		43.9 - 127		

<b>Work Order:</b>	1511130	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427801
<b>Units:</b>	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	1.5	10	ND	50	68.9	70.5	2.14	53.7 - 139	30	
Benzene	1.5	10	ND	50	85.5	88.5	3.61	66.5 - 135	30	
Trichloroethylene	3.9	10	ND	50	96.6	97.4	0.778	57.5 - 150	30	
Toluene	0.98	10	ND	50	91.3	92.8	1.78	56.8 - 134	30	
Chlorobenzene	4.2	10	ND	50	98.0	103	4.83	57.4 - 134	30	
(S) Dibromofluoromethane			ND	50	70.7	72.1		59.8 - 148		
(S) Toluene-d8			ND	50	70.4	71.3		55.2 - 133		
(S) 4-Bromofluorobenzene			ND	50	65.3	66.6		55.8 - 141		

<b>Work Order:</b>	1511130	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427815
<b>Units:</b>	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	1.5	10	ND	50	93.0	86.4	7.38	53.7 - 139	30	
Benzene	1.5	10	ND	50	94.0	92.5	1.56	66.5 - 135	30	
Trichloroethylene	3.9	10	ND	50	107	90.3	17.1	57.5 - 150	30	
Toluene	0.98	10	ND	50	103	88.8	14.5	56.8 - 134	30	
Chlorobenzene	4.2	10	ND	50	105	93.5	11.4	57.4 - 134	30	
(S) Dibromofluoromethane			ND	50	79.4	81.3		59.8 - 148		
(S) Toluene-d8			ND	50	80.5	72.7		55.2 - 133		
(S) 4-Bromofluorobenzene			ND	50	70.9	66.7		55.8 - 141		



## Laboratory Qualifiers and Definitions

### DEFINITIONS:

<b>Accuracy/Bias (% Recovery)</b> - The closeness of agreement between an observed value and an accepted reference value.
<b>Blank (Method/Preparation Blank)</b> -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.
<b>Duplicate</b> - 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)
<b>Laboratory Control Sample (LCS ad LCSD)</b> - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
<b>Matrix</b> - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
<b>Matrix Spike (MS/MSD)</b> - 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.
<b>Method Detection Limit (MDL)</b> - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
<b>Practical Quantitation Limit (PQL)</b> - 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 reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
<b>Precision (%RPD)</b> - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
<b>Surrogate (S) or (Surr)</b> - 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
<b>Tentatively Identified Compound (TIC)</b> - 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.
<b>Units:</b> the unit of measure used to express the reported result - <b>mg/L</b> and <b>mg/Kg</b> (equivalent to PPM - parts per million in <b>liquid</b> and <b>solid</b> ), <b>ug/L</b> and <b>ug/Kg</b> (equivalent to PPB - parts per billion in <b>liquid</b> and <b>solid</b> ), <b>ug/m<sup>3</sup></b> , <b>mg.m<sup>3</sup></b> , <b>ppbv</b> and <b>ppmv</b> (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), <b>ug/Wipe</b> ( concentration found on the surface of a single Wipe usually taken over a 100cm <sup>2</sup> surface)

### LABORATORY QUALIFIERS:

<p><b>B</b> - Indicates when the analyte is found in the associated method or preparation blank</p> <p><b>D</b> - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p><b>E</b> - 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.</p> <p><b>H</b>- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p><b>J</b>- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p><b>NA</b> - Not Analyzed</p> <p><b>N/A</b> - Not Applicable</p> <p><b>NR</b> - 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</p> <p><b>R</b>- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p><b>S</b>- 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</p> <p><b>X</b> -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.</p>
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## Sample Receipt Checklist

Client Name: Golden Gate Tank Removal

Date and Time Received: 11/12/2015 16:45

Project Name: 5930 College Avenue, Oakland

Received By: Idi

Work Order No.: 1511130

Physically Logged By: Idi

Checklist Completed By: Idi

Carrier Name: First Courier

### 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? Not Present

### 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: 5 °C  
Water-VOA vials have zero headspace? No VOA vials submitted  
Water-pH acceptable upon receipt? N/A  
pH Checked by: n/a pH Adjusted by: n/a

Time sampled on sample 8:35 vs. COC 8:40 for sample B34-1



## Login Summary Report

**Client ID:** TL5128      Golden Gate Tank Removal  
**Project Name:** 5930 College Avenue, Oakland  
**Project # :**  
**Report Due Date:** 11/19/2015

**QC Level:**  
**TAT Requested:** 5+ day:0  
**Date Received:** 11/12/2015  
**Time Received:** 16:45

**Comments:**

**Work Order # :** 1511130

<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>
1511130-001A	B31-3	11/08/15 13:45	Soil	05/10/16			EDF S_GCMS-GRO S_TPHDO S_8260PetE S_8270PAH	
<b>Sample Note:</b> TPHg,d,o, MTBE, BTEX, Napthalene, PAHs								
1511130-002A	B31-5	11/09/15 9:00	Soil	05/10/16	On-Hold		S_GCMS-GRO S_8260PetE S_TPHDO S_8270PAH	
1511130-003A	B31-9	11/09/15 9:10	Soil	05/10/16			S_GCMS-GRO S_8260PetE S_TPHDO S_8270PAH	
1511130-004A	B31-11.5	11/09/15 9:20	Soil	05/10/16			S_8260PetE S_GCMS-GRO S_8270PAH S_TPHDO	
1511130-005A	B31-14.5	11/09/15 9:30	Soil	05/10/16			S_GCMS-GRO S_8260PetE S_TPHDO S_8270PAH	
1511130-006A	B32-1	11/08/15 14:25	Soil	05/10/16			S_GCMS-GRO S_8270PAH S_TPHDO S_8260PetE	
1511130-007A	B32-3	11/08/15 14:35	Soil	05/10/16			S_GCMS-GRO S_8260PetE S_8270PAH	



## Login Summary Report

**Client ID:** TL5128      Golden Gate Tank Removal  
**Project Name:** 5930 College Avenue, Oakland  
**Project # :**  
**Report Due Date:** 11/19/2015

**QC Level:**  
**TAT Requested:** 5+ day:0  
**Date Received:** 11/12/2015  
**Time Received:** 16:45

**Comments:**

**Work Order # :** 1511130

<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>
1511130-008A	B32-5	11/09/15 8:15	Soil	05/10/16	On-Hold		S_TPHDO S_GCMS-GRO S_8260PetE S_TPHDO S_8270PAH	
1511130-009A	B32-7	11/09/15 8:20	Soil	05/10/16	On-Hold		S_GCMS-GRO S_8260PetE S_TPHDO S_8270PAH	
1511130-010A	B32-9	11/09/15 8:25	Soil	05/10/16			S_GCMS-GRO S_8260PetE S_8270PAH S_TPHDO	
1511130-011A	B32-13	11/09/15 8:40	Soil	05/10/16			S_GCMS-GRO S_TPHDO S_8270PAH S_8260PetE	
1511130-012A	B33-1	11/09/15 11:30	Soil	05/10/16	On-Hold		S_GCMS-GRO S_8260PetE S_TPHDO S_8270PAH	
1511130-013A	B33-3	11/09/15 11:35	Soil	05/10/16			S_GCMS-GRO S_8260PetE S_TPHDO S_8270PAH	
1511130-014A	B33-5	11/09/15 11:45	Soil	05/10/16	On-Hold		S_GCMS-GRO S_TPHDO S_8260PetE S_8270PAH	
1511130-015A	B33-7	11/09/15 11:50	Soil	05/10/16			S_GCMS-GRO S_TPHDO S_8260PetE S_8270PAH	



## Login Summary Report

**Client ID:** TL5128      Golden Gate Tank Removal  
**Project Name:** 5930 College Avenue, Oakland  
**Project # :**  
**Report Due Date:** 11/19/2015

**QC Level:**  
**TAT Requested:** 5+ day:0  
**Date Received:** 11/12/2015  
**Time Received:** 16:45

**Comments:**

**Work Order # :** 1511130

<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>
1511130-016A	B33-9	11/09/15 12:00	Soil	05/10/16	On-Hold		S_GCMS-GRO S_8270PAH S_8260PetE S_TPHDO	
1511130-017A	B33-12	11/09/15 12:05	Soil	05/10/16			S_GCMS-GRO S_8270PAH S_TPHDO S_8260PetE	
1511130-018A	B34-1	11/08/15 8:40	Soil	05/10/16	On-Hold		S_8260PetE S_GCMS-GRO S_8270PAH S_TPHDO	
<b><u>Sample Note:</u></b>	Time sampled on sample 8:35 vs. COC 8:40							
1511130-019A	B34-3	11/08/15 8:45	Soil	05/10/16			S_8260Full S_8270PAH S_TEPH	
<b><u>Sample Note:</u></b>	PAHs, VOCs, Hydraulic oil							
1511130-020A	B34-5	11/08/15 9:00	Soil	05/10/16			S_8260Full S_TEPH S_8270PAH	



483 Sinclair Frontage Road  
 Milpitas, CA 95035  
 Phone: 408.263.5258  
 FAX: 408.263.8293  
 www.torrentlab.com

### CHAIN OF CUSTODY

LAB WORK ORDER NO  
 151130

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

Company Name: <b>Golden Gate Tank Removal, Inc.</b>			Location of Sampling: <b>5930 College Avenue, Oakland</b>		
Address: <b>1480 Carroll Avenue</b>			Purpose: <b>Additional Site Characterization - Data Gap Work Plan</b>		
City: <b>San Francisco</b>	State: <b>CA</b>	Zip Code: <b>94124</b>	Special Instructions / Comments: <b>Global ID: T0600102112</b>		
Telephone: <b>415-512-1555</b>		FAX: <b>415-512-0964</b>	Field Point ID (See Remarks Section); BT=Brass Tube; PT=Plastic Tube		
REPORT TO: <b>Brent Wheeler</b>		SAMPLER: <b>Brent Wheeler</b>	P.O. #: <b>GGTR 9497</b>	EMAIL: <b>b.wheeler@ggtr.com</b>	

**TURNAROUND TIME:**

- 10 Work Days    3 Work Days    Noon - Nxt Day  
 7 Work Days    2 Work Days    2 - 8 Hours  
 5 Work Days    1 Work Day    Other

**SAMPLE TYPE:**

- Storm Water    Air  
 Waste Water    Other  
 Ground Water  
 Soil

**REPORT FORMAT:**

- QC Level IV  
 EDF  
 Excel / EDD

TPH-G (8260)	BTEX (8260)	Naphthalene (8260)	MTBE (8260)	TPH-D/MO	PAHs (8270)	VOCs (Full List)	HOLD
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ANALYSIS REQUESTED

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	TPH-G (8260)	BTEX (8260)	Naphthalene (8260)	MTBE (8260)	TPH-D/MO	PAHs (8270)	VOCs (Full List)	HOLD	REMARKS
001A	B31-3	11-8-15/1345	Soil	1	PT	✓	✓	✓	✓	✓	✓			B31
002A	B31-5	11-9-15/0900	Soil	1	PT								✓	B31
003A	B31-9	11-9-15/0910	Soil	1	PT	✓	✓	✓	✓	✓	✓			B31
004A	B31-11.5	11-9-15/0920	Soil	1	PT	✓	✓	✓	✓	✓	✓			B31
005A	B31-14.5	11-9-15/0930	Soil	1	PT	✓	✓	✓	✓	✓	✓			B31
006A	B32-1	11-8-15/1425	Soil	1	PT	✓	✓	✓	✓	✓	✓			B32
007A	B32-3	11-8-15/1435	Soil	1	PT	✓	✓	✓	✓	✓	✓			B32
008A	B32-5	11-9-15/0815	Soil	1	PT								✓	B32
009A	B32-7	11-9-15/0820	Soil	1	PT								✓	B32
010A	B32-9	11-9-15/0825	Soil	1	PT	✓	✓	✓	✓	✓	✓			B32

Relinquished By: <u>Brent Wheeler</u> Print: <u>Brent Wheeler</u> Date: <u>11/12/15</u> Time: <u>12:30</u>	Received By: <u>David Mann</u> Print: <u>David Mann</u> Date: <u>11/12/15</u> Time: <u>2:35pm</u>
Relinquished By: <u>David Mann</u> Print: <u>David Mann</u> Date: <u>11/12/15</u> Time: <u>11:45pm</u>	Received By: <u>L-D Imbo</u> Print: <u>L-D Imbo</u> Date: <u>11-12-15</u> Time: <u>1645</u>

Were Samples Received in Good Condition?  Yes  NO   Samples on Ice?  Yes  NO   Method of Shipment FC   Sample seals intact?  Yes  NO  N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.   Page 3 of 5

Log In By: \_\_\_\_\_ Date: \_\_\_\_\_   Log In Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_



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 Milpitas, CA 95035  
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RESET

### CHAIN OF CUSTODY

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

LAB WORK ORDER NO 151130
-----------------------------

Company Name: <b>Golden Gate Tank Removal, Inc.</b>			Location of Sampling: 5930 College Avenue, Oakland		
Address: 1480 Carroll Avenue			Purpose: Additional Site Characterization - Data Gap Work Plan		
City: San Francisco	State: CA	Zip Code: 94124	Special Instructions / Comments: Global ID: T0600102112		
Telephone: 415-512-1555		FAX: 415-512-0964	Field Point ID (See Remarks Section); BT=Brass Tube; PT=Plastic Tube		
REPORT TO: Brent Wheeler		SAMPLER: Brent Wheeler	P.O. #: GGTR 9497	EMAIL: b.wheeler@ggtr.com	

**TURNAROUND TIME:**

- 10 Work Days    3 Work Days    Noon - Nxt Day  
 7 Work Days    2 Work Days    2 - 8 Hours  
 5 Work Days    1 Work Day    Other

**SAMPLE TYPE:**

- Storm Water    Air  
 Waste Water    Other  
 Ground Water  
 Soil

**REPORT FORMAT:**

- QC Level IV  
 EDF  
 Excel / EDD

TPH-G (8260)	BTEX (8260)	Naphthalene (8260)	MTBE (8260)	TPH-D/MO	PAHs (8270)	VOCs (Full List)	HOLD	TPH-Hydraulic Oil
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ANALYSIS REQUESTED

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	TPH-G (8260)	BTEX (8260)	Naphthalene (8260)	MTBE (8260)	TPH-D/MO	PAHs (8270)	VOCs (Full List)	HOLD	TPH-Hydraulic Oil	REMARKS
-011A	B32-13	11-9-15/0840	Soil	1	PT	✓	✓	✓	✓	✓	✓				B32
-012A	B33-1	11-9-15/1130	Soil	1	PT								✓		B33
-013A	B33-3	11-9-15/1135	Soil	1	PT	✓	✓	✓	✓	✓	✓				B33
-014A	B33-5	11-9-15/1145	Soil	1	PT								✓		B33
-015A	B33-7	11-9-15/1150	Soil	1	PT	✓	✓	✓	✓	✓	✓				B33
-016A	B33-9	11-9-15/1200	Soil	1	PT								✓		B33
-017A	B33-12	11-9-15/1205	Soil	1	PT	✓	✓	✓	✓	✓	✓				B33
-018A	B34-1	11-8-15/0840	Soil	1	BT								✓		B34
-019A	B34-3	11-8-15/0845	Soil	1	BT						✓	✓		✓	B34
-020A	B34-5	11-8-15/0900	Soil	1	PT						✓	✓		✓	B34 Temp S'CH

1	Relinquished By: <i>[Signature]</i> Print: BRENT WHEELER	Date: 11/12/15	Time: 12:30	Received By: <i>[Signature]</i> Print: DAVID MORAN	Date: 11/12/15	Time: 2:35pm
2	Relinquished By: <i>[Signature]</i> Print: DAVID MORAN	Date: 11/12/15	Time: 4:45pm	Received By: <i>[Signature]</i> Print: L.D. JIMENEZ	Date: 11-12-15	Time: 7:41

Were Samples Received in Good Condition?  Yes  NO   Samples on Ice?  Yes  NO   Method of Shipment: FC   Sample seals intact?  Yes  NO  N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.

Page 4 of 5

Log In By: \_\_\_\_\_ Date: \_\_\_\_\_   Log In Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_



Golden Gate Tank Removal  
1480 Carroll Ave  
San Francisco, California 94124  
Tel: 415-512-1555  
Email: b.wheeler@ggtr.com  
RE: 5930 College Avenue, Oakland

Work Order No.: 1511131

Dear Brent Wheeler:

Torrent Laboratory, Inc. received 10 sample(s) on November 12, 2015 for the analyses presented in the following Report.

Per Chain of Custody instructions, four samples were placed on hold.

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, appearing to read "Patti Sandrock", is written over a horizontal line.

\_\_\_\_\_  
Patti Sandrock  
QA Officer

November 19, 2015

\_\_\_\_\_  
Date



**Date:** 11/19/2015

---

**Client:** Golden Gate Tank Removal

**Project:** 5930 College Avenue, Oakland

**Work Order:** 1511131

### **CASE NARRATIVE**

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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.

Analytical Comments for method S\_8270PAH, 1511131-009A MS/MSD, Note: The % recoveries for pyrene and the associated surrogate are 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.





## Sample Result Summary

Report prepared for: Brent Wheeler  
Golden Gate Tank Removal

Date Received: 11/12/15

Date Reported: 11/19/15

B34-9.5

1511131-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.

B34-13.5

1511131-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Ethyl Benzene	SW8260B	100	86	1000	8900	ug/Kg
m,p-Xylene	SW8260B	100	190	1000	31000	ug/Kg
o-Xylene	SW8260B	100	66	500	12000	ug/Kg
n-Propylbenzene	SW8260B	100	140	1000	2900	ug/Kg
1,3,5-Trimethylbenzene	SW8260B	100	110	1000	5100	ug/Kg
1,2,4-Trimethylbenzene	SW8260B	100	110	1000	19000	ug/Kg
n-Butylbenzene	SW8260B	100	220	1000	1100	ug/Kg
Naphthalene	SW8260B	100	280	1000	3900	ug/Kg
Naphthalene	SW8270C	4	0.6739	1.43	0.89	mg/Kg
2-Methylnaphthalene	SW8270C	4	0.4579	1.43	1.5	mg/Kg
1-Methylnaphthalene	SW8270C	4	0.4579	1.43	0.71	mg/Kg

B35-3

1511131-006

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.

B35-5

1511131-007

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.



### Sample Result Summary

Report prepared for: Brent Wheeler  
Golden Gate Tank Removal

Date Received: 11/12/15

Date Reported: 11/19/15

B35-9

1511131-009

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Ethyl Benzene	SW8260B	100	86	1000	5200	ug/Kg
m,p-Xylene	SW8260B	100	190	1000	19000	ug/Kg
o-Xylene	SW8260B	100	66	500	5800	ug/Kg
Naphthalene	SW8260B	100	280	1000	3800	ug/Kg

B35-12

1511131-010

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Ethyl Benzene	SW8260B	100	86	1000	1500	ug/Kg
m,p-Xylene	SW8260B	100	190	1000	5300	ug/Kg
o-Xylene	SW8260B	100	66	500	1200	ug/Kg
Naphthalene	SW8260B	100	280	1000	1100	ug/Kg
Naphthalene	SW8270C	1	0.1685	0.356	0.49	mg/Kg
2-Methylnaphthalene	SW8270C	1	0.1145	0.356	0.59	mg/Kg



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B34-9.5	<b>Lab Sample ID:</b>	1511131-002A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 9:10		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	11/18/15	1	4.4	10	ND		ug/Kg	427783	NA
Isopropyl Alcohol	SW8260B	NA	11/18/15	1	4.6	10	ND		ug/Kg	427783	NA
Vinyl Chloride	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
Bromomethane	SW8260B	NA	11/18/15	1	4.7	10	ND		ug/Kg	427783	NA
Trichlorofluoromethane	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
1,1-Dichloroethene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
Freon 113	SW8260B	NA	11/18/15	1	3.7	10	ND		ug/Kg	427783	NA
Methylene Chloride	SW8260B	NA	11/18/15	1	2.0	50	ND		ug/Kg	427783	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
tert-Butanol	SW8260B	NA	11/18/15	1	21	50	ND		ug/Kg	427783	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,1-Dichloroethane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
ETBE	SW8260B	NA	11/18/15	1	2.4	10	ND		ug/Kg	427783	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
2,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Bromochloromethane	SW8260B	NA	11/18/15	1	2.3	10	ND		ug/Kg	427783	NA
Chloroform	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
Carbon Tetrachloride	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
1,1,1-Trichloroethane	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
TAME	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
1,2-Dichloroethane	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Trichloroethylene	SW8260B	NA	11/18/15	1	3.9	10	ND		ug/Kg	427783	NA
Dibromomethane	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichloropropane	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
Bromodichloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427783	NA
Tetrachloroethylene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2-Trichloroethane	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
Dibromochloromethane	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,3-Dichloropropane	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B34-9.5	<b>Lab Sample ID:</b>	1511131-002A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 9:10		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8260B	NA	11/18/15	1	1.7	10	ND		ug/Kg	427783	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
Chlorobenzene	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427783	NA
Styrene	SW8260B	NA	11/18/15	1	0.77	10	ND		ug/Kg	427783	NA
Bromoform	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
Isopropyl Benzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
n-Propylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
Bromobenzene	SW8260B	NA	11/18/15	1	1.2	10	ND		ug/Kg	427783	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/18/15	1	3.0	10	ND		ug/Kg	427783	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
1,2,3-Trichloropropane	SW8260B	NA	11/18/15	1	3.3	10	ND		ug/Kg	427783	NA
4-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
2-Chlorotoluene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
tert-Butylbenzene	SW8260B	NA	11/18/15	1	1.4	10	ND		ug/Kg	427783	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/18/15	1	1.1	10	ND		ug/Kg	427783	NA
sec-Butyl Benzene	SW8260B	NA	11/18/15	1	1.6	10	ND		ug/Kg	427783	NA
p-Isopropyltoluene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
1,3-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.8	10	ND		ug/Kg	427783	NA
1,4-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
n-Butylbenzene	SW8260B	NA	11/18/15	1	2.2	10	ND		ug/Kg	427783	NA
1,2-Dichlorobenzene	SW8260B	NA	11/18/15	1	1.3	10	ND		ug/Kg	427783	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/18/15	1	4.2	10	ND		ug/Kg	427783	NA
Hexachlorobutadiene	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.1	10	ND		ug/Kg	427783	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427783	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/18/15	1	2.9	10	ND		ug/Kg	427783	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	92.6		%	427783	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	76.5		%	427783	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	85.7		%	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B34-9.5	<b>Lab Sample ID:</b>	1511131-002A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 9:10		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8270C	11/13/15	11/17/15	1	0.1685	0.356	ND		mg/Kg	427751	15744
2-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
1-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
Acenaphthylene	SW8270C	11/13/15	11/17/15	1	0.1073	0.356	ND		mg/Kg	427751	15744
Acenaphthene	SW8270C	11/13/15	11/17/15	1	0.1181	0.356	ND		mg/Kg	427751	15744
Fluorene	SW8270C	11/13/15	11/17/15	1	0.06048	0.356	ND		mg/Kg	427751	15744
Phenanthrene	SW8270C	11/13/15	11/17/15	1	0.1469	0.356	ND		mg/Kg	427751	15744
Anthracene	SW8270C	11/13/15	11/17/15	1	0.1872	0.356	ND		mg/Kg	427751	15744
Fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1771	0.356	ND		mg/Kg	427751	15744
Pyrene	SW8270C	11/13/15	11/17/15	1	0.1375	0.356	ND		mg/Kg	427751	15744
Benz[a]anthracene	SW8270C	11/13/15	11/17/15	1	0.2153	0.356	ND		mg/Kg	427751	15744
Chrysene	SW8270C	11/13/15	11/17/15	1	0.1274	0.716	ND		mg/Kg	427751	15744
Benzo[b]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1462	0.356	ND		mg/Kg	427751	15744
Benzo[k]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.09432	0.356	ND		mg/Kg	427751	15744
Benzo[a]pyrene	SW8270C	11/13/15	11/17/15	1	0.1620	0.356	ND		mg/Kg	427751	15744
Indeno[1,2,3-cd]pyrene	SW8270C	11/13/15	11/17/15	1	0.09072	0.356	ND		mg/Kg	427751	15744
Dibenz[a,h]anthracene	SW8270C	11/13/15	11/17/15	1	0.04896	0.356	ND		mg/Kg	427751	15744
Benzo[g,h,i]perylene	SW8270C	11/13/15	11/17/15	1	0.05400	0.356	ND		mg/Kg	427751	15744
2-Fluorobiphenyl (S)	SW8270C	11/13/15	11/17/15	1	30	115	88.4		%	427751	15744
p-Terphenyl-d14 (S)	SW8270C	11/13/15	11/17/15	1	37.9	127	139	S	%	427751	15744

**NOTE:** S-High Surrogate recovery due to matrix effects. All associated compounds are Not Detected. No corrective action required.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Hydraulic Oil	SW8015B	11/16/15	11/16/15	1	1.35	10	ND		mg/Kg	427773	15755
Pentacosane (S)	SW8015B	11/16/15	11/16/15	1	53.3	124	118		%	427773	15755



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B34-13.5	<b>Lab Sample ID:</b>	1511131-004A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 9:20		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	11/18/15	100	440	1000	ND		ug/Kg	427783	NA
Isopropyl Alcohol	SW8260B	NA	11/18/15	100	460	1000	ND		ug/Kg	427783	NA
Vinyl Chloride	SW8260B	NA	11/18/15	100	260	1000	ND		ug/Kg	427783	NA
Bromomethane	SW8260B	NA	11/18/15	100	470	1000	ND		ug/Kg	427783	NA
Trichlorofluoromethane	SW8260B	NA	11/18/15	100	290	1000	ND		ug/Kg	427783	NA
1,1-Dichloroethene	SW8260B	NA	11/18/15	100	150	1000	ND		ug/Kg	427783	NA
Freon 113	SW8260B	NA	11/18/15	100	370	1000	ND		ug/Kg	427783	NA
Methylene Chloride	SW8260B	NA	11/18/15	100	200	5000	ND		ug/Kg	427783	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/18/15	100	110	1000	ND		ug/Kg	427783	NA
MTBE	SW8260B	NA	11/18/15	100	260	1000	ND		ug/Kg	427783	NA
tert-Butanol	SW8260B	NA	11/18/15	100	2100	5000	ND		ug/Kg	427783	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/18/15	100	220	1000	ND		ug/Kg	427783	NA
1,1-Dichloroethane	SW8260B	NA	11/18/15	100	130	1000	ND		ug/Kg	427783	NA
ETBE	SW8260B	NA	11/18/15	100	240	1000	ND		ug/Kg	427783	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/18/15	100	180	1000	ND		ug/Kg	427783	NA
2,2-Dichloropropane	SW8260B	NA	11/18/15	100	120	1000	ND		ug/Kg	427783	NA
Bromochloromethane	SW8260B	NA	11/18/15	100	230	1000	ND		ug/Kg	427783	NA
Chloroform	SW8260B	NA	11/18/15	100	120	1000	ND		ug/Kg	427783	NA
Carbon Tetrachloride	SW8260B	NA	11/18/15	100	160	1000	ND		ug/Kg	427783	NA
1,1,1-Trichloroethane	SW8260B	NA	11/18/15	100	120	1000	ND		ug/Kg	427783	NA
1,1-Dichloropropene	SW8260B	NA	11/18/15	100	140	1000	ND		ug/Kg	427783	NA
Benzene	SW8260B	NA	11/18/15	100	150	1000	ND		ug/Kg	427783	NA
TAME	SW8260B	NA	11/18/15	100	210	1000	ND		ug/Kg	427783	NA
1,2-Dichloroethane	SW8260B	NA	11/18/15	100	190	1000	ND		ug/Kg	427783	NA
Trichloroethylene	SW8260B	NA	11/18/15	100	390	1000	ND		ug/Kg	427783	NA
Dibromomethane	SW8260B	NA	11/18/15	100	220	1000	ND		ug/Kg	427783	NA
1,2-Dichloropropane	SW8260B	NA	11/18/15	100	130	1000	ND		ug/Kg	427783	NA
Bromodichloromethane	SW8260B	NA	11/18/15	100	110	1000	ND		ug/Kg	427783	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/18/15	100	140	1000	ND		ug/Kg	427783	NA
Toluene	SW8260B	NA	11/18/15	100	98	1000	ND		ug/Kg	427783	NA
Tetrachloroethylene	SW8260B	NA	11/18/15	100	180	1000	ND		ug/Kg	427783	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/18/15	100	120	1000	ND		ug/Kg	427783	NA
1,1,2-Trichloroethane	SW8260B	NA	11/18/15	100	180	1000	ND		ug/Kg	427783	NA
Dibromochloromethane	SW8260B	NA	11/18/15	100	110	1000	ND		ug/Kg	427783	NA
1,3-Dichloropropane	SW8260B	NA	11/18/15	100	210	1000	ND		ug/Kg	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B34-13.5	<b>Lab Sample ID:</b>	1511131-004A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 9:20		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8260B	NA	11/18/15	100	170	1000	ND		ug/Kg	427783	NA
Ethyl Benzene	SW8260B	NA	11/18/15	100	86	1000	8900		ug/Kg	427783	NA
Chlorobenzene	SW8260B	NA	11/18/15	100	420	1000	ND		ug/Kg	427783	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/18/15	100	86	1000	ND		ug/Kg	427783	NA
m,p-Xylene	SW8260B	NA	11/18/15	100	190	1000	31000		ug/Kg	427783	NA
o-Xylene	SW8260B	NA	11/18/15	100	66	500	12000		ug/Kg	427783	NA
Styrene	SW8260B	NA	11/18/15	100	77	1000	ND		ug/Kg	427783	NA
Bromoform	SW8260B	NA	11/18/15	100	190	1000	ND		ug/Kg	427783	NA
Isopropyl Benzene	SW8260B	NA	11/18/15	100	120	1000	ND		ug/Kg	427783	NA
n-Propylbenzene	SW8260B	NA	11/18/15	100	140	1000	2900		ug/Kg	427783	NA
Bromobenzene	SW8260B	NA	11/18/15	100	120	1000	ND		ug/Kg	427783	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/18/15	100	300	1000	ND		ug/Kg	427783	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/18/15	100	110	1000	5100		ug/Kg	427783	NA
1,2,3-Trichloropropane	SW8260B	NA	11/18/15	100	330	1000	ND		ug/Kg	427783	NA
4-Chlorotoluene	SW8260B	NA	11/18/15	100	160	1000	ND		ug/Kg	427783	NA
2-Chlorotoluene	SW8260B	NA	11/18/15	100	160	1000	ND		ug/Kg	427783	NA
tert-Butylbenzene	SW8260B	NA	11/18/15	100	140	1000	ND		ug/Kg	427783	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/18/15	100	110	1000	19000		ug/Kg	427783	NA
sec-Butyl Benzene	SW8260B	NA	11/18/15	100	160	1000	ND		ug/Kg	427783	NA
p-Isopropyltoluene	SW8260B	NA	11/18/15	100	150	1000	ND		ug/Kg	427783	NA
1,3-Dichlorobenzene	SW8260B	NA	11/18/15	100	180	1000	ND		ug/Kg	427783	NA
1,4-Dichlorobenzene	SW8260B	NA	11/18/15	100	150	1000	ND		ug/Kg	427783	NA
n-Butylbenzene	SW8260B	NA	11/18/15	100	220	1000	1100		ug/Kg	427783	NA
1,2-Dichlorobenzene	SW8260B	NA	11/18/15	100	130	1000	ND		ug/Kg	427783	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/18/15	100	420	1000	ND		ug/Kg	427783	NA
Hexachlorobutadiene	SW8260B	NA	11/18/15	100	260	1000	ND		ug/Kg	427783	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/18/15	100	210	1000	ND		ug/Kg	427783	NA
Naphthalene	SW8260B	NA	11/18/15	100	280	1000	3900		ug/Kg	427783	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/18/15	100	290	1000	ND		ug/Kg	427783	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	100	59.8	148	137		%	427783	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	100	55.2	133	127		%	427783	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	100	55.8	141	120		%	427783	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B34-13.5	<b>Lab Sample ID:</b>	1511131-004A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/08/15 / 9:20		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	SW8270C	11/13/15	11/17/15	4	0.6739	1.43	0.89	J	mg/Kg	427751	15744
2-Methylnaphthalene	SW8270C	11/13/15	11/17/15	4	0.4579	1.43	1.5		mg/Kg	427751	15744
1-Methylnaphthalene	SW8270C	11/13/15	11/17/15	4	0.4579	1.43	0.71	J	mg/Kg	427751	15744
Acenaphthylene	SW8270C	11/13/15	11/17/15	4	0.4291	1.43	ND		mg/Kg	427751	15744
Acenaphthene	SW8270C	11/13/15	11/17/15	4	0.4723	1.43	ND		mg/Kg	427751	15744
Fluorene	SW8270C	11/13/15	11/17/15	4	0.2419	1.43	ND		mg/Kg	427751	15744
Phenanthrene	SW8270C	11/13/15	11/17/15	4	0.5875	1.43	ND		mg/Kg	427751	15744
Anthracene	SW8270C	11/13/15	11/17/15	4	0.7488	1.43	ND		mg/Kg	427751	15744
Fluoranthene	SW8270C	11/13/15	11/17/15	4	0.7085	1.43	ND		mg/Kg	427751	15744
Pyrene	SW8270C	11/13/15	11/17/15	4	0.5501	1.43	ND		mg/Kg	427751	15744
Benz[a]anthracene	SW8270C	11/13/15	11/17/15	4	0.8611	1.43	ND		mg/Kg	427751	15744
Chrysene	SW8270C	11/13/15	11/17/15	4	0.5098	2.87	ND		mg/Kg	427751	15744
Benzo[b]fluoranthene	SW8270C	11/13/15	11/17/15	4	0.5846	1.43	ND		mg/Kg	427751	15744
Benzo[k]fluoranthene	SW8270C	11/13/15	11/17/15	4	0.3773	1.43	ND		mg/Kg	427751	15744
Benzo[a]pyrene	SW8270C	11/13/15	11/17/15	4	0.6480	1.43	ND		mg/Kg	427751	15744
Indeno[1,2,3-cd]pyrene	SW8270C	11/13/15	11/17/15	4	0.3629	1.43	ND		mg/Kg	427751	15744
Dibenz[a,h]anthracene	SW8270C	11/13/15	11/17/15	4	0.1958	1.43	ND		mg/Kg	427751	15744
Benzo[g,h,i]perylene	SW8270C	11/13/15	11/17/15	4	0.2160	1.43	ND		mg/Kg	427751	15744
2-Fluorobiphenyl (S)	SW8270C	11/13/15	11/17/15	4	30	115	76.6		%	427751	15744
p-Terphenyl-d14 (S)	SW8270C	11/13/15	11/17/15	4	37.9	127	84.4		%	427751	15744

**NOTE:** Reporting limits increased due to matrix interference (detector saturation from unknown organics)

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Hydraulic Oil	SW8015B	11/16/15	11/16/15	1	1.35	10	ND		mg/Kg	427773	15755
Pentacosane (S)	SW8015B	11/16/15	11/16/15	1	53.3	124	109		%	427773	15755





## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B35-3	<b>Lab Sample ID:</b>	1511131-006A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/09/15 / 10:00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427783	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427783	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427783	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	92.3		%	427783	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	79.5		%	427783	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	83.0		%	427783	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8270C	11/13/15	11/17/15	1	0.1685	0.356	ND		mg/Kg	427751	15744
2-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
1-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
Acenaphthylene	SW8270C	11/13/15	11/17/15	1	0.1073	0.356	ND		mg/Kg	427751	15744
Acenaphthene	SW8270C	11/13/15	11/17/15	1	0.1181	0.356	ND		mg/Kg	427751	15744
Fluorene	SW8270C	11/13/15	11/17/15	1	0.06048	0.356	ND		mg/Kg	427751	15744
Phenanthrene	SW8270C	11/13/15	11/17/15	1	0.1469	0.356	ND		mg/Kg	427751	15744
Anthracene	SW8270C	11/13/15	11/17/15	1	0.1872	0.356	ND		mg/Kg	427751	15744
Fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1771	0.356	ND		mg/Kg	427751	15744
Pyrene	SW8270C	11/13/15	11/17/15	1	0.1375	0.356	ND		mg/Kg	427751	15744
Benz[a]anthracene	SW8270C	11/13/15	11/17/15	1	0.2153	0.356	ND		mg/Kg	427751	15744
Chrysene	SW8270C	11/13/15	11/17/15	1	0.1274	0.716	ND		mg/Kg	427751	15744
Benzo[b]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1462	0.356	ND		mg/Kg	427751	15744
Benzo[k]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.09432	0.356	ND		mg/Kg	427751	15744
Benzo[a]pyrene	SW8270C	11/13/15	11/17/15	1	0.1620	0.356	ND		mg/Kg	427751	15744
Indeno[1,2,3-cd]pyrene	SW8270C	11/13/15	11/17/15	1	0.09072	0.356	ND		mg/Kg	427751	15744
Dibenz[a,h]anthracene	SW8270C	11/13/15	11/17/15	1	0.04896	0.356	ND		mg/Kg	427751	15744
Benzo[g,h,i]perylene	SW8270C	11/13/15	11/17/15	1	0.05400	0.356	ND		mg/Kg	427751	15744
2-Fluorobiphenyl (S)	SW8270C	11/13/15	11/17/15	1	30	115	78.4		%	427751	15744
p-Terphenyl-d14 (S)	SW8270C	11/13/15	11/17/15	1	37.9	127	131	S	%	427751	15744

**NOTE:** S-High Surrogate recovery due to matrix effects. All associated compounds are Not Detected. No corrective action required.



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B35-5	<b>Lab Sample ID:</b>	1511131-007A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/09/15 / 10:25		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	11/18/15	1	2.6	10	ND		ug/Kg	427783	NA
Benzene	SW8260B	NA	11/18/15	1	1.5	10	ND		ug/Kg	427783	NA
Toluene	SW8260B	NA	11/18/15	1	0.98	10	ND		ug/Kg	427783	NA
Ethyl Benzene	SW8260B	NA	11/18/15	1	0.86	10	ND		ug/Kg	427783	NA
m,p-Xylene	SW8260B	NA	11/18/15	1	1.9	10	ND		ug/Kg	427783	NA
o-Xylene	SW8260B	NA	11/18/15	1	0.66	5.0	ND		ug/Kg	427783	NA
Naphthalene	SW8260B	NA	11/18/15	1	2.8	10	ND		ug/Kg	427783	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	1	59.8	148	89.1		%	427783	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	1	55.2	133	81.3		%	427783	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	1	55.8	141	86.7		%	427783	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8270C	11/13/15	11/17/15	1	0.1685	0.356	ND		mg/Kg	427751	15744
2-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
1-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
Acenaphthylene	SW8270C	11/13/15	11/17/15	1	0.1073	0.356	ND		mg/Kg	427751	15744
Acenaphthene	SW8270C	11/13/15	11/17/15	1	0.1181	0.356	ND		mg/Kg	427751	15744
Fluorene	SW8270C	11/13/15	11/17/15	1	0.06048	0.356	ND		mg/Kg	427751	15744
Phenanthrene	SW8270C	11/13/15	11/17/15	1	0.1469	0.356	ND		mg/Kg	427751	15744
Anthracene	SW8270C	11/13/15	11/17/15	1	0.1872	0.356	ND		mg/Kg	427751	15744
Fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1771	0.356	ND		mg/Kg	427751	15744
Pyrene	SW8270C	11/13/15	11/17/15	1	0.1375	0.356	ND		mg/Kg	427751	15744
Benz[a]anthracene	SW8270C	11/13/15	11/17/15	1	0.2153	0.356	ND		mg/Kg	427751	15744
Chrysene	SW8270C	11/13/15	11/17/15	1	0.1274	0.716	ND		mg/Kg	427751	15744
Benzo[b]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1462	0.356	ND		mg/Kg	427751	15744
Benzo[k]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.09432	0.356	ND		mg/Kg	427751	15744
Benzo[a]pyrene	SW8270C	11/13/15	11/17/15	1	0.1620	0.356	ND		mg/Kg	427751	15744
Indeno[1,2,3-cd]pyrene	SW8270C	11/13/15	11/17/15	1	0.09072	0.356	ND		mg/Kg	427751	15744
Dibenz[a,h]anthracene	SW8270C	11/13/15	11/17/15	1	0.04896	0.356	ND		mg/Kg	427751	15744
Benzo[g,h,i]perylene	SW8270C	11/13/15	11/17/15	1	0.05400	0.356	ND		mg/Kg	427751	15744
2-Fluorobiphenyl (S)	SW8270C	11/13/15	11/17/15	1	30	115	88.6		%	427751	15744
p-Terphenyl-d14 (S)	SW8270C	11/13/15	11/17/15	1	37.9	127	149	S	%	427751	15744

**NOTE:** S-High Surrogate recovery due to matrix effects. All associated compounds are Not Detected. No corrective action required.



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B35-9	<b>Lab Sample ID:</b>	1511131-009A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/09/15 / 10:35		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	11/18/15	100	260	1000	ND		ug/Kg	427783	NA
Benzene	SW8260B	NA	11/18/15	100	150	1000	ND		ug/Kg	427783	NA
Toluene	SW8260B	NA	11/18/15	100	98	1000	ND		ug/Kg	427783	NA
Ethyl Benzene	SW8260B	NA	11/18/15	100	86	1000	5200		ug/Kg	427783	NA
m,p-Xylene	SW8260B	NA	11/18/15	100	190	1000	19000		ug/Kg	427783	NA
o-Xylene	SW8260B	NA	11/18/15	100	66	500	5800		ug/Kg	427783	NA
Naphthalene	SW8260B	NA	11/18/15	100	280	1000	3800		ug/Kg	427783	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	100	59.8	148	83.9		%	427783	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	100	55.2	133	76.5		%	427783	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	100	55.8	141	79.8		%	427783	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	SW8270C	11/13/15	11/17/15	10	1.685	3.56	ND		mg/Kg	427751	15744
2-Methylnaphthalene	SW8270C	11/13/15	11/17/15	10	1.145	3.56	ND		mg/Kg	427751	15744
1-Methylnaphthalene	SW8270C	11/13/15	11/17/15	10	1.145	3.56	ND		mg/Kg	427751	15744
Acenaphthylene	SW8270C	11/13/15	11/17/15	10	1.073	3.56	ND		mg/Kg	427751	15744
Acenaphthene	SW8270C	11/13/15	11/17/15	10	1.181	3.56	ND		mg/Kg	427751	15744
Fluorene	SW8270C	11/13/15	11/17/15	10	0.6048	3.56	ND		mg/Kg	427751	15744
Phenanthrene	SW8270C	11/13/15	11/17/15	10	1.469	3.56	ND		mg/Kg	427751	15744
Anthracene	SW8270C	11/13/15	11/17/15	10	1.872	3.56	ND		mg/Kg	427751	15744
Fluoranthene	SW8270C	11/13/15	11/17/15	10	1.771	3.56	ND		mg/Kg	427751	15744
Pyrene	SW8270C	11/13/15	11/17/15	10	1.375	3.56	ND		mg/Kg	427751	15744
Benz[a]anthracene	SW8270C	11/13/15	11/17/15	10	2.153	3.56	ND		mg/Kg	427751	15744
Chrysene	SW8270C	11/13/15	11/17/15	10	1.274	7.16	ND		mg/Kg	427751	15744
Benzo[b]fluoranthene	SW8270C	11/13/15	11/17/15	10	1.462	3.56	ND		mg/Kg	427751	15744
Benzo[k]fluoranthene	SW8270C	11/13/15	11/17/15	10	0.9432	3.56	ND		mg/Kg	427751	15744
Benzo[a]pyrene	SW8270C	11/13/15	11/17/15	10	1.620	3.56	ND		mg/Kg	427751	15744
Indeno[1,2,3-cd]pyrene	SW8270C	11/13/15	11/17/15	10	0.9072	3.56	ND		mg/Kg	427751	15744
Dibenz[a,h]anthracene	SW8270C	11/13/15	11/17/15	10	0.4896	3.56	ND		mg/Kg	427751	15744
Benzo[g,h,i]perylene	SW8270C	11/13/15	11/17/15	10	0.5400	3.56	ND		mg/Kg	427751	15744
2-Fluorobiphenyl (S)	SW8270C	11/13/15	11/17/15	10	30	115	72.6		%	427751	15744
p-Terphenyl-d14 (S)	SW8270C	11/13/15	11/17/15	10	37.9	127	182	S	%	427751	15744



### SAMPLE RESULTS

Report prepared for: Brent Wheeler  
Golden Gate Tank Removal

Date Received: 11/12/15  
Date Reported: 11/19/15

Client Sample ID:	B35-9	Lab Sample ID:	1511131-009A
Project Name/Location:	5930 College Avenue, Oakland	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/09/15 / 10:35		
Tag Number:	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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**NOTE:** Reporting limits increased due to matrix interference (detector saturation from unknown organics) S-High Surrogate recovery due to matrix effects. All associated compounds are Not Detected. No corrective action required.



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/12/15  
**Date Reported:** 11/19/15

<b>Client Sample ID:</b>	B35-12	<b>Lab Sample ID:</b>	1511131-010A
<b>Project Name/Location:</b>	5930 College Avenue, Oakland	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/09/15 / 10:50		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	11/18/15	100	260	1000	ND		ug/Kg	427783	NA
Benzene	SW8260B	NA	11/18/15	100	150	1000	ND		ug/Kg	427783	NA
Toluene	SW8260B	NA	11/18/15	100	98	1000	ND		ug/Kg	427783	NA
Ethyl Benzene	SW8260B	NA	11/18/15	100	86	1000	1500		ug/Kg	427783	NA
m,p-Xylene	SW8260B	NA	11/18/15	100	190	1000	5300		ug/Kg	427783	NA
o-Xylene	SW8260B	NA	11/18/15	100	66	500	1200		ug/Kg	427783	NA
Naphthalene	SW8260B	NA	11/18/15	100	280	1000	1100		ug/Kg	427783	NA
(S) Dibromofluoromethane	SW8260B	NA	11/18/15	100	59.8	148	83.7		%	427783	NA
(S) Toluene-d8	SW8260B	NA	11/18/15	100	55.2	133	79.5		%	427783	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/18/15	100	55.8	141	83.9		%	427783	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8270C	11/13/15	11/17/15	1	0.1685	0.356	0.49		mg/Kg	427751	15744
2-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	0.59		mg/Kg	427751	15744
1-Methylnaphthalene	SW8270C	11/13/15	11/17/15	1	0.1145	0.356	ND		mg/Kg	427751	15744
Acenaphthylene	SW8270C	11/13/15	11/17/15	1	0.1073	0.356	ND		mg/Kg	427751	15744
Acenaphthene	SW8270C	11/13/15	11/17/15	1	0.1181	0.356	ND		mg/Kg	427751	15744
Fluorene	SW8270C	11/13/15	11/17/15	1	0.06048	0.356	ND		mg/Kg	427751	15744
Phenanthrene	SW8270C	11/13/15	11/17/15	1	0.1469	0.356	ND		mg/Kg	427751	15744
Anthracene	SW8270C	11/13/15	11/17/15	1	0.1872	0.356	ND		mg/Kg	427751	15744
Fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1771	0.356	ND		mg/Kg	427751	15744
Pyrene	SW8270C	11/13/15	11/17/15	1	0.1375	0.356	ND		mg/Kg	427751	15744
Benz[a]anthracene	SW8270C	11/13/15	11/17/15	1	0.2153	0.356	ND		mg/Kg	427751	15744
Chrysene	SW8270C	11/13/15	11/17/15	1	0.1274	0.716	ND		mg/Kg	427751	15744
Benzo[b]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.1462	0.356	ND		mg/Kg	427751	15744
Benzo[k]fluoranthene	SW8270C	11/13/15	11/17/15	1	0.09432	0.356	ND		mg/Kg	427751	15744
Benzo[a]pyrene	SW8270C	11/13/15	11/17/15	1	0.1620	0.356	ND		mg/Kg	427751	15744
Indeno[1,2,3-cd]pyrene	SW8270C	11/13/15	11/17/15	1	0.09072	0.356	ND		mg/Kg	427751	15744
Dibenz[a,h]anthracene	SW8270C	11/13/15	11/17/15	1	0.04896	0.356	ND		mg/Kg	427751	15744
Benzo[g,h,i]perylene	SW8270C	11/13/15	11/17/15	1	0.05400	0.356	ND		mg/Kg	427751	15744
2-Fluorobiphenyl (S)	SW8270C	11/13/15	11/17/15	1	30	115	77.9		%	427751	15744
p-Terphenyl-d14 (S)	SW8270C	11/13/15	11/17/15	1	37.9	127	146		%	427751	15744



### MB Summary Report

<b>Work Order:</b>	1511131	<b>Prep Method:</b>	3545_PAH	<b>Prep Date:</b>	11/13/15	<b>Prep Batch:</b>	15744
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	11/17/15	<b>Analytical Batch:</b>	427751
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Naphthalene	0.1685	0.356	ND	
2-Methylnaphthalene	0.1145	0.356	ND	
1-Methylnaphthalene	0.1145	0.356	ND	
Acenaphthylene	0.1073	0.356	ND	
Acenaphthene	0.1181	0.356	ND	
Fluorene	0.06048	0.356	ND	
Phenanthrene	0.1469	0.356	ND	
Anthracene	0.1872	0.356	ND	
Fluoranthene	0.1771	0.356	ND	
Pyrene	0.1375	0.356	ND	
Benz[a]anthracene	0.2153	0.356	ND	
Chrysene	0.1274	0.716	ND	
Benzo[b]fluoranthene	0.1462	0.356	ND	
Benzo[k]fluoranthene	0.09432	0.356	ND	
Benzo[a]pyrene	0.1620	0.356	ND	
Indeno[1,2,3-cd]pyrene	0.09072	0.356	ND	
Dibenz[a,h]anthracene	0.04896	0.356	ND	
Benzo[g,h,i]perylene	0.05400	0.356	ND	
2-Fluorobiphenyl (S)			82.7	
p-Terphenyl-d14 (S)			83.0	

<b>Work Order:</b>	1511131	<b>Prep Method:</b>	3546_TPHSG	<b>Prep Date:</b>	11/16/15	<b>Prep Batch:</b>	15755
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	11/16/15	<b>Analytical Batch:</b>	427773
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel (SG)	0.66	2.0	ND	
TPH as Motor Oil (SG)	1.0	10	2.2	
Pentacosane (S)			90.1	



### MB Summary Report

<b>Work Order:</b>	1511131	<b>Prep Method:</b>	3546_TPHSG	<b>Prep Date:</b>	11/16/15	<b>Prep Batch:</b>	15755
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8015B	<b>Analyzed Date:</b>	11/16/15	<b>Analytical Batch:</b>	427773
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel	0.575	2.0	ND	
TPH as Hydraulic Oil	1.35	10	ND	
TPH as Motor Oil	1.4	10	2.2	
Pentacosane (S)			90.1	

<b>Work Order:</b>	1511131	<b>Prep Method:</b>	5035	<b>Prep Date:</b>	11/18/15	<b>Prep Batch:</b>	15790
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	8260TPH	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427783
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Gasoline	30	100	67	
(S) 4-Bromofluorobenzene			94.0	



## MB Summary Report

<b>Work Order:</b>	1511131	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427783
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	4.4	10	ND		
Isopropyl Alcohol	4.6	10	ND		
Vinyl Chloride	2.6	10	ND		
Bromomethane	4.7	10	ND		
Trichlorofluoromethane	2.9	10	ND		
1,1-Dichloroethene	1.5	10	ND		
Freon 113	3.7	10	ND		
Methylene Chloride	2.0	50	ND		
trans-1,2-Dichloroethene	1.1	10	ND		
MTBE	2.6	10	ND		
tert-Butanol	21	50	ND		
Diisopropyl ether (DIPE)	2.2	10	ND		
1,1-Dichloroethane	1.3	10	ND		
ETBE	2.4	10	ND		
cis-1,2-Dichloroethene	1.8	10	ND		
2,2-Dichloropropane	1.2	10	ND		
Bromochloromethane	2.3	10	ND		
Chloroform	1.2	10	ND		
Carbon Tetrachloride	1.6	10	ND		
1,1,1-Trichloroethane	1.2	10	ND		
1,1-Dichloropropene	1.4	10	ND		
Benzene	1.5	10	ND		
TAME	2.1	10	ND		
1,2-Dichloroethane	1.9	10	ND		
Trichloroethylene	3.9	10	ND		
Dibromomethane	2.2	10	ND		
1,2-Dichloropropane	1.3	10	ND		
Bromodichloromethane	1.1	10	ND		
cis-1,3-Dichloropropene	1.4	10	ND		
Toluene	0.98	10	ND		
Tetrachloroethylene	1.8	10	ND		
trans-1,3-Dichloropropene	1.2	10	ND		
1,1,2-Trichloroethane	1.8	10	ND		
Dibromochloromethane	1.1	10	ND		
1,3-Dichloropropane	2.1	10	ND		
Naphthalene	1.7	10	ND		
Ethyl Benzene	0.86	10	ND		
Chlorobenzene	4.2	10	ND		
1,1,1,2-Tetrachloroethane	0.86	10	ND		
m,p-Xylene	1.9	10	ND		
o-Xylene	0.66	5.0	ND		





## MB Summary Report

<b>Work Order:</b>	1511131	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427783
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Styrene	0.77	10	ND		
Bromoform	1.9	10	ND		
Isopropyl Benzene	1.2	10	ND		
n-Propylbenzene	1.4	10	ND		
Bromobenzene	1.2	10	ND		
1,1,2,2-Tetrachloroethane	3.0	10	ND		
1,3,5-Trimethylbenzene	1.1	10	ND		
1,2,3-Trichloropropane	3.3	10	ND		
4-Chlorotoluene	1.6	10	ND		
2-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.4	10	ND		
1,2,4-Trimethylbenzene	1.1	10	ND		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	ND		
1,3-Dichlorobenzene	1.8	10	ND		
1,4-Dichlorobenzene	1.5	10	ND		
n-Butylbenzene	2.2	10	ND		
1,2-Dichlorobenzene	1.3	10	ND		
1,2-Dibromo-3-Chloropropane	4.2	10	ND		
Hexachlorobutadiene	2.6	10	ND		
1,2,4-Trichlorobenzene	2.1	10	ND		
Naphthalene	2.8	10	ND		
1,2,3-Trichlorobenzene	2.9	10	ND		
Ethanol	5.0	20	ND	TIC	
(S) Dibromofluoromethane			84.5		
(S) Toluene-d8			75.1		
(S) 4-Bromofluorobenzene			81.1		



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1511131	<b>Prep Method:</b>	3545_PAH	<b>Prep Date:</b>	11/13/15	<b>Prep Batch:</b>	15744
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	11/17/15	<b>Analytical Batch:</b>	427751
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Acenaphthene	0.118	0.356	ND	0.8	64.7	69.8	7.51	47 - 121	30	
Pyrene	0.138	0.356	ND	1.2	90.3	83.7	7.30	58.6 - 116	30	
2-Fluorobiphenyl (S)			ND	20	68.3	75.9		44.7 - 116		
p-Terphenyl-d14 (S)			ND	20	84.3	93.8		46.4 - 153		

<b>Work Order:</b>	1511131	<b>Prep Method:</b>	3546_TPHSG	<b>Prep Date:</b>	11/16/15	<b>Prep Batch:</b>	15755
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	11/16/15	<b>Analytical Batch:</b>	427773
<b>Units:</b>	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)	0.66	2.0	ND	25	79.6	59.4	29.1	50.8 - 111	30	
Pentacosane (S)			2.2	200	91.1	63.7		49.9 - 144		

<b>Work Order:</b>	1511131	<b>Prep Method:</b>	5035	<b>Prep Date:</b>	11/18/15	<b>Prep Batch:</b>	15790
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	8260TPH	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427783
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	30	100	67	1000	109	119	8.97	64.0 - 133.2	30	
(S) 4-Bromofluorobenzene			94.0	50	96.5	117		43.9 - 127		



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1511131	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427783
<b>Units:</b>	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	1.5	10	ND	50	83.5	91.4	8.86	53.7 - 139	30	
Benzene	1.5	10	ND	50	96.5	101	4.66	66.5 - 135	30	
Trichloroethylene	3.9	10	ND	50	100	109	8.54	57.5 - 150	30	
Toluene	0.98	10	ND	50	101	103	1.41	56.8 - 134	30	
Chlorobenzene	4.2	10	ND	50	107	109	2.05	57.4 - 134	30	
(S) Dibromofluoromethane			ND	50	83.6	77.9		59.8 - 148		
(S) Toluene-d8			ND	50	82.4	75.2		55.2 - 133		
(S) 4-Bromofluorobenzene			ND	50	73.4	73.5		55.8 - 141		



## MS/MSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1511131	<b>Prep Method:</b>	3545_PAH	<b>Prep Date:</b>	11/13/15	<b>Prep Batch:</b>	15744
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	11/17/15	<b>Analytical Batch:</b>	427751
<b>Spiked Sample:</b>	1511131-009A						
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Acenaphthene	1.18	3.56	0	0.8	76.4	84.0	9.53	47 - 121	30	
Pyrene	1.38	3.56	0	1.2	110	125	12.2	58.6 - 116	30	S
2-Fluorobiphenyl (S)				20	75.5	81.1		30 - 115		
p-Terphenyl-d14 (S)				20	200	239		37.9 - 127		S



## Laboratory Qualifiers and Definitions

### DEFINITIONS:

<b>Accuracy/Bias (% Recovery)</b> - The closeness of agreement between an observed value and an accepted reference value.
<b>Blank (Method/Preparation Blank)</b> -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.
<b>Duplicate</b> - 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)
<b>Laboratory Control Sample (LCS ad LCSD)</b> - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
<b>Matrix</b> - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
<b>Matrix Spike (MS/MSD)</b> - 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.
<b>Method Detection Limit (MDL)</b> - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
<b>Practical Quantitation Limit (PQL)</b> - 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 reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
<b>Precision (%RPD)</b> - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
<b>Surrogate (S) or (Surr)</b> - 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
<b>Tentatively Identified Compound (TIC)</b> - 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.
<b>Units:</b> the unit of measure used to express the reported result - <b>mg/L</b> and <b>mg/Kg</b> (equivalent to PPM - parts per million in <b>liquid</b> and <b>solid</b> ), <b>ug/L</b> and <b>ug/Kg</b> (equivalent to PPB - parts per billion in <b>liquid</b> and <b>solid</b> ), <b>ug/m<sup>3</sup></b> , <b>mg.m<sup>3</sup></b> , <b>ppbv</b> and <b>ppmv</b> (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), <b>ug/Wipe</b> ( concentration found on the surface of a single Wipe usually taken over a 100cm <sup>2</sup> surface)

### LABORATORY QUALIFIERS:

<p><b>B</b> - Indicates when the analyte is found in the associated method or preparation blank</p> <p><b>D</b> - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p><b>E</b> - 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.</p> <p><b>H</b>- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p><b>J</b>- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p><b>NA</b> - Not Analyzed</p> <p><b>N/A</b> - Not Applicable</p> <p><b>NR</b> - 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</p> <p><b>R</b>- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p><b>S</b>- 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</p> <p><b>X</b> -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.</p>
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## Sample Receipt Checklist

Client Name: Golden Gate Tank Removal

Date and Time Received: 11/12/2015 16:45

Project Name: 5930 College Avenue, Oakland

Received By: Idi

Work Order No.: 1511131

Physically Logged By: Idi

Checklist Completed By: Idi

Carrier Name: First Courier

### 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? Not Present

### 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: 5 °C  
Water-VOA vials have zero headspace? No VOA vials submitted  
Water-pH acceptable upon receipt? N/A  
pH Checked by: n/a      pH Adjusted by: n/a

time sampled on B34-7 is 9:02 vs. COC 8:40



## Login Summary Report

**Client ID:** TL5128      Golden Gate Tank Removal  
**Project Name:** 5930 College Avenue, Oakland  
**Project # :**  
**Report Due Date:** 11/19/2015

**QC Level:**  
**TAT Requested:** 5+ day:0  
**Date Received:** 11/12/2015  
**Time Received:** 16:45

**Comments:**

**Work Order # :** 1511131

<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>
1511131-001A	B34-7	11/08/15 8:40	Soil	05/10/16	On-Hold		EDF S_8260Full S_8270PAH S_TEPH	
1511131-002A	B34-9.5	11/08/15 9:10	Soil	05/10/16			S_8260Full S_TEPH S_8270PAH	
<b>Sample Note:</b>	PAHs, VOCs, Hydraulic oil							
1511131-003A	B34-11	11/08/15 9:15	Soil	05/10/16	On-Hold		S_8260Full S_TEPH S_8270PAH	
1511131-004A	B34-13.5	11/08/15 9:20	Soil	05/10/16			S_8260Full S_8270PAH S_TEPH	
1511131-005A	B35-1	11/09/15 9:55	Soil	05/10/16	On-Hold		S_8260Full S_8270PAH S_TEPH	
1511131-006A	B35-3	11/09/15 10:00	Soil	05/10/16			S_8260PetE S_8270PAH	
<b>Sample Note:</b>	PAHs, BTEX, Napthalene, MTBE							
1511131-007A	B35-5	11/09/15 10:25	Soil	05/10/16			S_8260PetE S_8270PAH	
1511131-008A	B35-7	11/08/15 10:30	Soil	05/10/16	On-Hold		S_8260Full S_TEPH S_8270PAH	
1511131-009A	B35-9	11/09/15 10:35	Soil	05/10/16			S_8260PetE S_8270PAH	



### Login Summary Report

**Client ID:** TL5128 Golden Gate Tank Removal  
**Project Name:** 5930 College Avenue, Oakland  
**Project # :**  
**Report Due Date:** 11/19/2015

**QC Level:**  
**TAT Requested:** 5+ day:0  
**Date Received:** 11/12/2015  
**Time Received:** 16:45

**Comments:**

**Work Order # :** 1511131

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<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>
1511131-010A	B35-12	11/09/15 10:50	Soil	05/10/16			S_8260PetE S_8270PAH	





483 Sinclair Frontage Road  
 Milpitas, CA 95035  
 Phone: 408.263.5258  
 FAX: 408.263.8293  
 www.torrentlab.com

# CHAIN OF CUSTODY

LAB WORK ORDER NO
151131

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

Company Name: <b>Golden Gate Tank Removal, Inc.</b>			Location of Sampling: 5930 College Avenue, Oakland		
Address: 1480 Carroll Avenue			Purpose: Additional Site Characterization - Data Gap Work Plan		
City: San Francisco	State: CA	Zip Code: 94124	Special Instructions / Comments: Global ID: T0600102112		
Telephone: 415-512-1555		FAX: 415-512-0964	Field Point ID (See Remarks Section); BT=Brass Tube; PT=Plastic Tube		
REPORT TO: Brent Wheeler		SAMPLER: Brent Wheeler	P.O. #: GGTR 9497	EMAIL: b.wheeler@ggtr.com	

TURNAROUND TIME:			SAMPLE TYPE:			REPORT FORMAT:									
<input type="checkbox"/> 10 Work Days	<input type="checkbox"/> 3 Work Days	<input type="checkbox"/> Noon - Nxt Day	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Air	<input type="checkbox"/> QC Level IV	TPH-G (8260)	BTEX (8260)	Naphthalene (8260)	MTBE (8260)	TPH-D/MO	PAHs (8270)	VOCs (Full List)	HOLD	TPH-Hydraulic Oil	ANALYSIS REQUESTED
<input type="checkbox"/> 7 Work Days	<input type="checkbox"/> 2 Work Days	<input type="checkbox"/> 2 - 8 Hours	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> EDF										
<input checked="" type="checkbox"/> 5 Work Days	<input type="checkbox"/> 1 Work Day	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Ground Water	<input type="checkbox"/> Excel / EDD											
			<input type="checkbox"/> Soil												

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	TPH-G (8260)	BTEX (8260)	Naphthalene (8260)	MTBE (8260)	TPH-D/MO	PAHs (8270)	VOCs (Full List)	HOLD	TPH-Hydraulic Oil	REMARKS
001A	B34-7	11-8-15/0840	Soil	1	PT								<input checked="" type="checkbox"/>		B34
002A	B34-9.5	11-8-15/0910	Soil	1	PT						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	B34
003A	B34-11	11-8-15/0915	Soil	1	PT								<input checked="" type="checkbox"/>		B34
004A	B34-13.5	11-8-15/0920	Soil	1	PT						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	B34
005A	B35-1	11-9-15/0955	Soil	1	PT								<input checked="" type="checkbox"/>		B35
006A	B35-3	11-9-15/1000	Soil	1	PT		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				B35
007A	B35-5	11-9-15/1025	Soil	1	PT		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				B35
008A	B35-7	11-8-15/1030	Soil	1	PT								<input checked="" type="checkbox"/>		B35
009A	B35-9	11-9-15/1035	Soil	1	PT		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				B35
010A	B35-12	11-9-15/1050	Soil	1	PT		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				B35 <i>Tamps #1</i>

1 Relinquished By: <i>[Signature]</i> Print: <i>[Name]</i> Date: 11/12/15 Time: 12:30	Received By: <i>[Signature]</i> Print: <i>[Name]</i> Date: 11/12/15 Time: 2:35
2 Relinquished By: <i>[Signature]</i> Print: <i>[Name]</i> Date: 11/12/15 Time: 4:00	Received By: <i>[Signature]</i> Print: <i>[Name]</i> Date: 11-12-15 Time: 10:45

Were Samples Received in Good Condition?  Yes  NO Samples on Ice?  Yes  NO Method of Shipment FC Sample seals intact?  Yes  NO  N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.

Log In By: \_\_\_\_\_ Date: \_\_\_\_\_ Log In Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

Page 5 of 5



Golden Gate Tank Removal  
1480 Carroll Ave  
San Francisco, California 94124  
Tel: 415-512-1555  
Email: b.wheeler@ggtr.com  
RE: 5930 College Ave, Oakland

Work Order No.: 1511137

Dear Brent Wheeler:

Torrent Laboratory, Inc. received 5 sample(s) on November 13, 2015 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, appearing to read "Patti Sandrock", is written over a horizontal line.

\_\_\_\_\_  
Patti Sandrock  
QA Officer

November 20, 2015

\_\_\_\_\_  
Date



**Date:** 11/20/2015

---

**Client:** Golden Gate Tank Removal

**Project:** 5930 College Ave, Oakland

**Work Order:** 1511137

### **CASE NARRATIVE**

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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.

Analytical Comment for \_W\_8270PAH, Note: The % recoveries for the Acenaphthene in the LCSD is outside of laboratory control limits but within % RPD limits. Normal corrective action procedures require the re-extraction and re-analysis of all samples associated with the preparation batch. However, due to limited sample provided for re-extraction, no re-preparation and re-analysis was possible.



## Sample Result Summary

Report prepared for: Brent Wheeler  
Golden Gate Tank Removal

Date Received: 11/13/15

Date Reported: 11/20/15

B28-GW

1511137-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Ethyl Benzene	SW8260B	21	3.2	11	1200	ug/L
m,p-Xylene	SW8260B	21	2.8	21	3400	ug/L
o-Xylene	SW8260B	21	3.2	11	970	ug/L
cis-1,2-Dichloroethene	SW8260B	8.4	1.6	4.2	9.3	ug/L
Benzene	SW8260B	8.4	1.1	4.2	500	ug/L
Toluene	SW8260B	8.4	1.2	4.2	410	ug/L
Isopropyl Benzene	SW8260B	8.4	0.81	4.2	47	ug/L
n-Propylbenzene	SW8260B	8.4	0.65	4.2	140	ug/L
1,3,5-Trimethylbenzene	SW8260B	8.4	0.62	4.2	230	ug/L
1,2,4-Trimethylbenzene	SW8260B	8.4	0.70	4.2	800	ug/L
sec-Butyl Benzene	SW8260B	8.4	0.77	4.2	9.3	ug/L
p-Isopropyltoluene	SW8260B	8.4	0.78	4.2	19	ug/L
n-Butylbenzene	SW8260B	8.4	0.68	4.2	40	ug/L
Naphthalene	SW8260B	8.4	1.1	8.4	91	ug/L

B29-GW

1511137-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
MTBE	SW8260B	4.2	0.72	2.1	1.1	ug/L
cis-1,2-Dichloroethene	SW8260B	4.2	0.81	2.1	0.84	ug/L
Tetrachloroethylene	SW8260B	4.2	0.61	2.1	44	ug/L
Ethyl Benzene	SW8260B	4.2	0.64	2.1	1.6	ug/L
m,p-Xylene	SW8260B	4.2	0.56	4.2	2.2	ug/L
o-Xylene	SW8260B	4.2	0.64	2.1	2.4	ug/L
1,2,4-Trimethylbenzene	SW8260B	4.2	0.35	2.1	1.1	ug/L



## Sample Result Summary

Report prepared for: Brent Wheeler  
Golden Gate Tank Removal

Date Received: 11/13/15

Date Reported: 11/20/15

B30-GW

1511137-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
cis-1,2-Dichloroethene	SW8260B	4.2	0.81	2.1	34	ug/L
Chloroform	SW8260B	4.2	0.54	2.1	2.3	ug/L
Benzene	SW8260B	4.2	0.54	2.1	110	ug/L
Ethyl Benzene	SW8260B	4.2	0.64	2.1	360	ug/L
m,p-Xylene	SW8260B	4.2	0.56	4.2	510	ug/L
o-Xylene	SW8260B	4.2	0.64	2.1	8.2	ug/L
Isopropyl Benzene	SW8260B	4.2	0.41	2.1	24	ug/L
n-Propylbenzene	SW8260B	4.2	0.33	2.1	80	ug/L
1,3,5-Trimethylbenzene	SW8260B	4.2	0.31	2.1	100	ug/L
1,2,3-Trichloropropane	SW8260B	4.2	0.59	2.1	5.5	ug/L
1,2,4-Trimethylbenzene	SW8260B	4.2	0.35	2.1	370	ug/L
sec-Butyl Benzene	SW8260B	4.2	0.39	2.1	7.5	ug/L
p-Isopropyltoluene	SW8260B	4.2	0.39	2.1	11	ug/L
n-Butylbenzene	SW8260B	4.2	0.34	2.1	26	ug/L
Naphthalene	SW8260B	4.2	0.57	4.2	21	ug/L

B32-GW

1511137-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
1,1-Dichloropropene	SW8260B	1.31	0.20	0.66	0.47	ug/L
Ethyl Benzene	SW8260B	1.31	0.20	0.66	0.25	ug/L
m,p-Xylene	SW8260B	1.31	0.18	1.3	0.66	ug/L
o-Xylene	SW8260B	1.31	0.20	0.66	0.41	ug/L
1,3,5-Trimethylbenzene	SW8260B	1.31	0.097	0.66	0.31	ug/L
1,2,4-Trimethylbenzene	SW8260B	1.31	0.11	0.66	0.33	ug/L
TPH as Gasoline	8260TPH	1.31	41	66	70	ug/L



### Sample Result Summary

Report prepared for: Brent Wheeler  
Golden Gate Tank Removal

Date Received: 11/13/15

Date Reported: 11/20/15

B34-GW

1511137-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Ethyl Benzene	SW8260B	21	3.2	11	960	ug/L
m,p-Xylene	SW8260B	21	2.8	21	2400	ug/L
o-Xylene	SW8260B	21	3.2	11	860	ug/L
MTBE	SW8260B	8.4	1.4	4.2	11	ug/L
Chloroform	SW8260B	8.4	1.1	4.2	10	ug/L
Benzene	SW8260B	8.4	1.1	4.2	830	ug/L
Toluene	SW8260B	8.4	1.2	4.2	170	ug/L
Isopropyl Benzene	SW8260B	8.4	0.81	4.2	41	ug/L
n-Propylbenzene	SW8260B	8.4	0.65	4.2	120	ug/L
1,3,5-Trimethylbenzene	SW8260B	8.4	0.62	4.2	190	ug/L
1,2,4-Trimethylbenzene	SW8260B	8.4	0.70	4.2	650	ug/L
sec-Butyl Benzene	SW8260B	8.4	0.77	4.2	6.5	ug/L
p-Isopropyltoluene	SW8260B	8.4	0.78	4.2	14	ug/L
n-Butylbenzene	SW8260B	8.4	0.68	4.2	27	ug/L
Naphthalene	SW8260B	8.4	1.1	8.4	88	ug/L
Naphthalene	SW8270C	1	9.4	36	13	ug/L



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/13/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B28-GW	<b>Lab Sample ID:</b>	1511137-001A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/13/15 / 10:55		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Ethyl Benzene	SW8260B	NA	11/17/15	21	3.2	11	1200		ug/L	427769	NA
m,p-Xylene	SW8260B	NA	11/17/15	21	2.8	21	3400		ug/L	427769	NA
o-Xylene	SW8260B	NA	11/17/15	21	3.2	11	970		ug/L	427769	NA
(S) Dibromofluoromethane	SW8260B	NA	11/17/15	21	61.2	131	101		%	427769	NA
(S) Toluene-d8	SW8260B	NA	11/17/15	21	75.1	127	94.9		%	427769	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/17/15	21	64.1	120	88.2		%	427769	NA
Dichlorodifluoromethane	SW8260B	NA	11/16/15	8.4	1.5	4.2	ND		ug/L	427772	NA
Chloromethane	SW8260B	NA	11/16/15	8.4	1.3	4.2	ND		ug/L	427772	NA
Vinyl Chloride	SW8260B	NA	11/16/15	8.4	1.3	4.2	ND		ug/L	427772	NA
Bromomethane	SW8260B	NA	11/16/15	8.4	1.5	4.2	ND		ug/L	427772	NA
Trichlorofluoromethane	SW8260B	NA	11/16/15	8.4	1.5	4.2	ND		ug/L	427772	NA
1,1-Dichloroethene	SW8260B	NA	11/16/15	8.4	1.3	4.2	ND		ug/L	427772	NA
Freon 113	SW8260B	NA	11/16/15	8.4	1.6	4.2	ND		ug/L	427772	NA
Methylene Chloride	SW8260B	NA	11/16/15	8.4	1.9	42	ND		ug/L	427772	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/16/15	8.4	1.6	4.2	ND		ug/L	427772	NA
MTBE	SW8260B	NA	11/16/15	8.4	1.4	4.2	ND		ug/L	427772	NA
tert-Butanol	SW8260B	NA	11/16/15	8.4	13	42	ND		ug/L	427772	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/16/15	8.4	1.1	4.2	ND		ug/L	427772	NA
1,1-Dichloroethane	SW8260B	NA	11/16/15	8.4	1.1	4.2	ND		ug/L	427772	NA
ETBE	SW8260B	NA	11/16/15	8.4	1.5	4.2	ND		ug/L	427772	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/16/15	8.4	1.6	4.2	9.3		ug/L	427772	NA
2,2-Dichloropropane	SW8260B	NA	11/16/15	8.4	1.3	4.2	ND		ug/L	427772	NA
Bromochloromethane	SW8260B	NA	11/16/15	8.4	1.7	4.2	ND		ug/L	427772	NA
Chloroform	SW8260B	NA	11/16/15	8.4	1.1	4.2	ND		ug/L	427772	NA
Carbon Tetrachloride	SW8260B	NA	11/16/15	8.4	1.3	4.2	ND		ug/L	427772	NA
1,1,1-Trichloroethane	SW8260B	NA	11/16/15	8.4	0.81	4.2	ND		ug/L	427772	NA
1,1-Dichloropropene	SW8260B	NA	11/16/15	8.4	1.3	4.2	ND		ug/L	427772	NA
Benzene	SW8260B	NA	11/16/15	8.4	1.1	4.2	500		ug/L	427772	NA
TAME	SW8260B	NA	11/16/15	8.4	1.5	4.2	ND		ug/L	427772	NA
1,2-Dichloroethane	SW8260B	NA	11/16/15	8.4	1.2	4.2	ND		ug/L	427772	NA
Trichloroethylene	SW8260B	NA	11/16/15	8.4	1.1	4.2	ND		ug/L	427772	NA
Dibromomethane	SW8260B	NA	11/16/15	8.4	1.2	4.2	ND		ug/L	427772	NA
1,2-Dichloropropane	SW8260B	NA	11/16/15	8.4	1.5	4.2	ND		ug/L	427772	NA
Bromodichloromethane	SW8260B	NA	11/16/15	8.4	1.1	4.2	ND		ug/L	427772	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/16/15	8.4	0.81	4.2	ND		ug/L	427772	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/13/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B28-GW	<b>Lab Sample ID:</b>	1511137-001A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/13/15 / 10:55		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Toluene	SW8260B	NA	11/16/15	8.4	1.2	4.2	410		ug/L	427772	NA
Tetrachloroethylene	SW8260B	NA	11/16/15	8.4	1.2	4.2	ND		ug/L	427772	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/16/15	8.4	1.9	4.2	ND		ug/L	427772	NA
1,1,2-Trichloroethane	SW8260B	NA	11/16/15	8.4	1.2	4.2	ND		ug/L	427772	NA
Dibromochloromethane	SW8260B	NA	11/16/15	8.4	0.81	4.2	ND		ug/L	427772	NA
1,3-Dichloropropane	SW8260B	NA	11/16/15	8.4	0.86	4.2	ND		ug/L	427772	NA
1,2-Dibromoethane	SW8260B	NA	11/16/15	8.4	1.6	4.2	ND		ug/L	427772	NA
Chlorobenzene	SW8260B	NA	11/16/15	8.4	1.2	4.2	ND		ug/L	427772	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/16/15	8.4	0.81	4.2	ND		ug/L	427772	NA
Styrene	SW8260B	NA	11/16/15	8.4	1.8	4.2	ND		ug/L	427772	NA
Bromoform	SW8260B	NA	11/16/15	8.4	1.8	8.4	ND		ug/L	427772	NA
Isopropyl Benzene	SW8260B	NA	11/16/15	8.4	0.81	4.2	47		ug/L	427772	NA
Bromobenzene	SW8260B	NA	11/16/15	8.4	1.3	4.2	ND		ug/L	427772	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/16/15	8.4	0.90	4.2	ND		ug/L	427772	NA
n-Propylbenzene	SW8260B	NA	11/16/15	8.4	0.65	4.2	140		ug/L	427772	NA
2-Chlorotoluene	SW8260B	NA	11/16/15	8.4	0.64	4.2	ND		ug/L	427772	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/16/15	8.4	0.62	4.2	230		ug/L	427772	NA
4-Chlorotoluene	SW8260B	NA	11/16/15	8.4	0.74	4.2	ND		ug/L	427772	NA
tert-Butylbenzene	SW8260B	NA	11/16/15	8.4	0.68	4.2	ND		ug/L	427772	NA
1,2,3-Trichloropropane	SW8260B	NA	11/16/15	8.4	1.2	4.2	ND		ug/L	427772	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/16/15	8.4	0.70	4.2	800		ug/L	427772	NA
sec-Butyl Benzene	SW8260B	NA	11/16/15	8.4	0.77	4.2	9.3		ug/L	427772	NA
p-Isopropyltoluene	SW8260B	NA	11/16/15	8.4	0.78	4.2	19		ug/L	427772	NA
1,3-Dichlorobenzene	SW8260B	NA	11/16/15	8.4	0.87	4.2	ND		ug/L	427772	NA
1,4-Dichlorobenzene	SW8260B	NA	11/16/15	8.4	0.58	4.2	ND		ug/L	427772	NA
n-Butylbenzene	SW8260B	NA	11/16/15	8.4	0.68	4.2	40		ug/L	427772	NA
1,2-Dichlorobenzene	SW8260B	NA	11/16/15	8.4	0.48	4.2	ND		ug/L	427772	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/16/15	8.4	1.3	4.2	ND		ug/L	427772	NA
Hexachlorobutadiene	SW8260B	NA	11/16/15	8.4	1.6	4.2	ND		ug/L	427772	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/16/15	8.4	1.0	4.2	ND		ug/L	427772	NA
Naphthalene	SW8260B	NA	11/16/15	8.4	1.1	8.4	91		ug/L	427772	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/16/15	8.4	2.0	4.2	ND		ug/L	427772	NA
(S) Dibromofluoromethane	SW8260B	NA	11/16/15	8.4	61.2	131	102		%	427772	NA
(S) Toluene-d8	SW8260B	NA	11/16/15	8.4	75.1	127	96.6		%	427772	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/16/15	8.4	64.1	120	86.6		%	427772	NA





## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/13/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B29-GW	<b>Lab Sample ID:</b>	1511137-002A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/13/15 / 10:45		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Dichlorodifluoromethane	SW8260B	NA	11/16/15	4.2	0.75	2.1	ND		ug/L	427772	NA
Chloromethane	SW8260B	NA	11/16/15	4.2	0.67	2.1	ND		ug/L	427772	NA
Vinyl Chloride	SW8260B	NA	11/16/15	4.2	0.66	2.1	ND		ug/L	427772	NA
Bromomethane	SW8260B	NA	11/16/15	4.2	0.76	2.1	ND		ug/L	427772	NA
Trichlorofluoromethane	SW8260B	NA	11/16/15	4.2	0.77	2.1	ND		ug/L	427772	NA
1,1-Dichloroethene	SW8260B	NA	11/16/15	4.2	0.64	2.1	ND		ug/L	427772	NA
Freon 113	SW8260B	NA	11/16/15	4.2	0.81	2.1	ND		ug/L	427772	NA
Methylene Chloride	SW8260B	NA	11/16/15	4.2	0.97	21	ND		ug/L	427772	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/16/15	4.2	0.81	2.1	ND		ug/L	427772	NA
MTBE	SW8260B	NA	11/16/15	4.2	0.72	2.1	1.1	J	ug/L	427772	NA
tert-Butanol	SW8260B	NA	11/16/15	4.2	6.5	21	ND		ug/L	427772	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/16/15	4.2	0.54	2.1	ND		ug/L	427772	NA
1,1-Dichloroethane	SW8260B	NA	11/16/15	4.2	0.54	2.1	ND		ug/L	427772	NA
ETBE	SW8260B	NA	11/16/15	4.2	0.73	2.1	ND		ug/L	427772	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/16/15	4.2	0.81	2.1	0.84	J	ug/L	427772	NA
2,2-Dichloropropane	SW8260B	NA	11/16/15	4.2	0.65	2.1	ND		ug/L	427772	NA
Bromochloromethane	SW8260B	NA	11/16/15	4.2	0.86	2.1	ND		ug/L	427772	NA
Chloroform	SW8260B	NA	11/16/15	4.2	0.54	2.1	ND		ug/L	427772	NA
Carbon Tetrachloride	SW8260B	NA	11/16/15	4.2	0.64	2.1	ND		ug/L	427772	NA
1,1,1-Trichloroethane	SW8260B	NA	11/16/15	4.2	0.41	2.1	ND		ug/L	427772	NA
1,1-Dichloropropene	SW8260B	NA	11/16/15	4.2	0.64	2.1	ND		ug/L	427772	NA
Benzene	SW8260B	NA	11/16/15	4.2	0.54	2.1	ND		ug/L	427772	NA
TAME	SW8260B	NA	11/16/15	4.2	0.73	2.1	ND		ug/L	427772	NA
1,2-Dichloroethane	SW8260B	NA	11/16/15	4.2	0.61	2.1	ND		ug/L	427772	NA
Trichloroethylene	SW8260B	NA	11/16/15	4.2	0.54	2.1	ND		ug/L	427772	NA
Dibromomethane	SW8260B	NA	11/16/15	4.2	0.62	2.1	ND		ug/L	427772	NA
1,2-Dichloropropane	SW8260B	NA	11/16/15	4.2	0.73	2.1	ND		ug/L	427772	NA
Bromodichloromethane	SW8260B	NA	11/16/15	4.2	0.54	2.1	ND		ug/L	427772	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/16/15	4.2	0.40	2.1	ND		ug/L	427772	NA
Toluene	SW8260B	NA	11/16/15	4.2	0.61	2.1	ND		ug/L	427772	NA
Tetrachloroethylene	SW8260B	NA	11/16/15	4.2	0.61	2.1	44		ug/L	427772	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/16/15	4.2	0.95	2.1	ND		ug/L	427772	NA
1,1,2-Trichloroethane	SW8260B	NA	11/16/15	4.2	0.61	2.1	ND		ug/L	427772	NA
Dibromochloromethane	SW8260B	NA	11/16/15	4.2	0.40	2.1	ND		ug/L	427772	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/13/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B29-GW	<b>Lab Sample ID:</b>	1511137-002A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/13/15 / 10:45		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

1,3-Dichloropropane	SW8260B	NA	11/16/15	4.2	0.43	2.1	ND		ug/L	427772	NA
1,2-Dibromoethane	SW8260B	NA	11/16/15	4.2	0.81	2.1	ND		ug/L	427772	NA
Chlorobenzene	SW8260B	NA	11/16/15	4.2	0.61	2.1	ND		ug/L	427772	NA
Ethyl Benzene	SW8260B	NA	11/16/15	4.2	0.64	2.1	1.6	J	ug/L	427772	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/16/15	4.2	0.40	2.1	ND		ug/L	427772	NA
m,p-Xylene	SW8260B	NA	11/16/15	4.2	0.56	4.2	2.2	J	ug/L	427772	NA
o-Xylene	SW8260B	NA	11/16/15	4.2	0.64	2.1	2.4		ug/L	427772	NA
Styrene	SW8260B	NA	11/16/15	4.2	0.88	2.1	ND		ug/L	427772	NA
Bromoform	SW8260B	NA	11/16/15	4.2	0.88	4.2	ND		ug/L	427772	NA
Isopropyl Benzene	SW8260B	NA	11/16/15	4.2	0.41	2.1	ND		ug/L	427772	NA
Bromobenzene	SW8260B	NA	11/16/15	4.2	0.64	2.1	ND		ug/L	427772	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/16/15	4.2	0.45	2.1	ND		ug/L	427772	NA
n-Propylbenzene	SW8260B	NA	11/16/15	4.2	0.33	2.1	ND		ug/L	427772	NA
2-Chlorotoluene	SW8260B	NA	11/16/15	4.2	0.32	2.1	ND		ug/L	427772	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/16/15	4.2	0.31	2.1	ND		ug/L	427772	NA
4-Chlorotoluene	SW8260B	NA	11/16/15	4.2	0.37	2.1	ND		ug/L	427772	NA
tert-Butylbenzene	SW8260B	NA	11/16/15	4.2	0.34	2.1	ND		ug/L	427772	NA
1,2,3-Trichloropropane	SW8260B	NA	11/16/15	4.2	0.59	2.1	ND		ug/L	427772	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/16/15	4.2	0.35	2.1	1.1	J	ug/L	427772	NA
sec-Butyl Benzene	SW8260B	NA	11/16/15	4.2	0.39	2.1	ND		ug/L	427772	NA
p-Isopropyltoluene	SW8260B	NA	11/16/15	4.2	0.39	2.1	ND		ug/L	427772	NA
1,3-Dichlorobenzene	SW8260B	NA	11/16/15	4.2	0.44	2.1	ND		ug/L	427772	NA
1,4-Dichlorobenzene	SW8260B	NA	11/16/15	4.2	0.29	2.1	ND		ug/L	427772	NA
n-Butylbenzene	SW8260B	NA	11/16/15	4.2	0.34	2.1	ND		ug/L	427772	NA
1,2-Dichlorobenzene	SW8260B	NA	11/16/15	4.2	0.24	2.1	ND		ug/L	427772	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/16/15	4.2	0.65	2.1	ND		ug/L	427772	NA
Hexachlorobutadiene	SW8260B	NA	11/16/15	4.2	0.82	2.1	ND		ug/L	427772	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/16/15	4.2	0.51	2.1	ND		ug/L	427772	NA
Naphthalene	SW8260B	NA	11/16/15	4.2	0.57	4.2	ND		ug/L	427772	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/16/15	4.2	0.98	2.1	ND		ug/L	427772	NA
(S) Dibromofluoromethane	SW8260B	NA	11/16/15	4.2	61.2	131	103		%	427772	NA
(S) Toluene-d8	SW8260B	NA	11/16/15	4.2	75.1	127	95.0		%	427772	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/16/15	4.2	64.1	120	93.1		%	427772	NA

**NOTE:** Reporting limit increased due to insufficient amount of sample supplied (1 VOA only with sediment).



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/13/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B30-GW	<b>Lab Sample ID:</b>	1511137-003A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/13/15 / 9:10		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	11/17/15	4.2	0.75	2.1	ND		ug/L	427769	NA
Chloromethane	SW8260B	NA	11/17/15	4.2	0.67	2.1	ND		ug/L	427769	NA
Vinyl Chloride	SW8260B	NA	11/17/15	4.2	0.66	2.1	ND		ug/L	427769	NA
Bromomethane	SW8260B	NA	11/17/15	4.2	0.76	2.1	ND		ug/L	427769	NA
Trichlorofluoromethane	SW8260B	NA	11/17/15	4.2	0.77	2.1	ND		ug/L	427769	NA
1,1-Dichloroethene	SW8260B	NA	11/17/15	4.2	0.64	2.1	ND		ug/L	427769	NA
Freon 113	SW8260B	NA	11/17/15	4.2	0.81	2.1	ND		ug/L	427769	NA
Methylene Chloride	SW8260B	NA	11/17/15	4.2	0.97	21	ND		ug/L	427769	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/17/15	4.2	0.81	2.1	ND		ug/L	427769	NA
MTBE	SW8260B	NA	11/17/15	4.2	0.72	2.1	ND		ug/L	427769	NA
tert-Butanol	SW8260B	NA	11/17/15	4.2	6.5	21	ND		ug/L	427769	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/17/15	4.2	0.54	2.1	ND		ug/L	427769	NA
1,1-Dichloroethane	SW8260B	NA	11/17/15	4.2	0.54	2.1	ND		ug/L	427769	NA
ETBE	SW8260B	NA	11/17/15	4.2	0.73	2.1	ND		ug/L	427769	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/17/15	4.2	0.81	2.1	34		ug/L	427769	NA
2,2-Dichloropropane	SW8260B	NA	11/17/15	4.2	0.65	2.1	ND		ug/L	427769	NA
Bromochloromethane	SW8260B	NA	11/17/15	4.2	0.86	2.1	ND		ug/L	427769	NA
Chloroform	SW8260B	NA	11/17/15	4.2	0.54	2.1	2.3		ug/L	427769	NA
Carbon Tetrachloride	SW8260B	NA	11/17/15	4.2	0.64	2.1	ND		ug/L	427769	NA
1,1,1-Trichloroethane	SW8260B	NA	11/17/15	4.2	0.41	2.1	ND		ug/L	427769	NA
1,1-Dichloropropene	SW8260B	NA	11/17/15	4.2	0.64	2.1	ND		ug/L	427769	NA
Benzene	SW8260B	NA	11/17/15	4.2	0.54	2.1	110		ug/L	427769	NA
TAME	SW8260B	NA	11/17/15	4.2	0.73	2.1	ND		ug/L	427769	NA
1,2-Dichloroethane	SW8260B	NA	11/17/15	4.2	0.61	2.1	ND		ug/L	427769	NA
Trichloroethylene	SW8260B	NA	11/17/15	4.2	0.54	2.1	ND		ug/L	427769	NA
Dibromomethane	SW8260B	NA	11/17/15	4.2	0.62	2.1	ND		ug/L	427769	NA
1,2-Dichloropropane	SW8260B	NA	11/17/15	4.2	0.73	2.1	ND		ug/L	427769	NA
Bromodichloromethane	SW8260B	NA	11/17/15	4.2	0.54	2.1	ND		ug/L	427769	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/17/15	4.2	0.40	2.1	ND		ug/L	427769	NA
Toluene	SW8260B	NA	11/17/15	4.2	0.61	2.1	ND		ug/L	427769	NA
Tetrachloroethylene	SW8260B	NA	11/17/15	4.2	0.61	2.1	ND		ug/L	427769	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/17/15	4.2	0.95	2.1	ND		ug/L	427769	NA
1,1,2-Trichloroethane	SW8260B	NA	11/17/15	4.2	0.61	2.1	ND		ug/L	427769	NA
Dibromochloromethane	SW8260B	NA	11/17/15	4.2	0.40	2.1	ND		ug/L	427769	NA
1,3-Dichloropropane	SW8260B	NA	11/17/15	4.2	0.43	2.1	ND		ug/L	427769	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/13/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B30-GW	<b>Lab Sample ID:</b>	1511137-003A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/13/15 / 9:10		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,2-Dibromoethane	SW8260B	NA	11/17/15	4.2	0.81	2.1	ND		ug/L	427769	NA
Chlorobenzene	SW8260B	NA	11/17/15	4.2	0.61	2.1	ND		ug/L	427769	NA
Ethyl Benzene	SW8260B	NA	11/17/15	4.2	0.64	2.1	360		ug/L	427769	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/17/15	4.2	0.40	2.1	ND		ug/L	427769	NA
m,p-Xylene	SW8260B	NA	11/17/15	4.2	0.56	4.2	510		ug/L	427769	NA
o-Xylene	SW8260B	NA	11/17/15	4.2	0.64	2.1	8.2		ug/L	427769	NA
Styrene	SW8260B	NA	11/17/15	4.2	0.88	2.1	ND		ug/L	427769	NA
Bromoform	SW8260B	NA	11/17/15	4.2	0.88	4.2	ND		ug/L	427769	NA
Isopropyl Benzene	SW8260B	NA	11/17/15	4.2	0.41	2.1	24		ug/L	427769	NA
Bromobenzene	SW8260B	NA	11/17/15	4.2	0.64	2.1	ND		ug/L	427769	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/17/15	4.2	0.45	2.1	ND		ug/L	427769	NA
n-Propylbenzene	SW8260B	NA	11/17/15	4.2	0.33	2.1	80		ug/L	427769	NA
2-Chlorotoluene	SW8260B	NA	11/17/15	4.2	0.32	2.1	ND		ug/L	427769	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/17/15	4.2	0.31	2.1	100		ug/L	427769	NA
4-Chlorotoluene	SW8260B	NA	11/17/15	4.2	0.37	2.1	ND		ug/L	427769	NA
tert-Butylbenzene	SW8260B	NA	11/17/15	4.2	0.34	2.1	ND		ug/L	427769	NA
1,2,3-Trichloropropane	SW8260B	NA	11/17/15	4.2	0.59	2.1	5.5		ug/L	427769	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/17/15	4.2	0.35	2.1	370		ug/L	427769	NA
sec-Butyl Benzene	SW8260B	NA	11/17/15	4.2	0.39	2.1	7.5		ug/L	427769	NA
p-Isopropyltoluene	SW8260B	NA	11/17/15	4.2	0.39	2.1	11		ug/L	427769	NA
1,3-Dichlorobenzene	SW8260B	NA	11/17/15	4.2	0.44	2.1	ND		ug/L	427769	NA
1,4-Dichlorobenzene	SW8260B	NA	11/17/15	4.2	0.29	2.1	ND		ug/L	427769	NA
n-Butylbenzene	SW8260B	NA	11/17/15	4.2	0.34	2.1	26		ug/L	427769	NA
1,2-Dichlorobenzene	SW8260B	NA	11/17/15	4.2	0.24	2.1	ND		ug/L	427769	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/17/15	4.2	0.65	2.1	ND		ug/L	427769	NA
Hexachlorobutadiene	SW8260B	NA	11/17/15	4.2	0.82	2.1	ND		ug/L	427769	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/17/15	4.2	0.51	2.1	ND		ug/L	427769	NA
Naphthalene	SW8260B	NA	11/17/15	4.2	0.57	4.2	21		ug/L	427769	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/17/15	4.2	0.98	2.1	ND		ug/L	427769	NA
(S) Dibromofluoromethane	SW8260B	NA	11/17/15	4.2	61.2	131	101		%	427769	NA
(S) Toluene-d8	SW8260B	NA	11/17/15	4.2	75.1	127	93.2		%	427769	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/17/15	4.2	64.1	120	88.1		%	427769	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/13/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B32-GW	<b>Lab Sample ID:</b>	1511137-004A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/13/15 / 11:35		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Dichlorodifluoromethane	SW8260B	NA	11/17/15	1.31	0.23	0.66	ND		ug/L	427769	NA
Chloromethane	SW8260B	NA	11/17/15	1.31	0.21	0.66	ND		ug/L	427769	NA
Vinyl Chloride	SW8260B	NA	11/17/15	1.31	0.21	0.66	ND		ug/L	427769	NA
Bromomethane	SW8260B	NA	11/17/15	1.31	0.24	0.66	ND		ug/L	427769	NA
Trichlorofluoromethane	SW8260B	NA	11/17/15	1.31	0.24	0.66	ND		ug/L	427769	NA
1,1-Dichloroethene	SW8260B	NA	11/17/15	1.31	0.20	0.66	ND		ug/L	427769	NA
Freon 113	SW8260B	NA	11/17/15	1.31	0.25	0.66	ND		ug/L	427769	NA
Methylene Chloride	SW8260B	NA	11/17/15	1.31	0.30	6.6	ND		ug/L	427769	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/17/15	1.31	0.25	0.66	ND		ug/L	427769	NA
MTBE	SW8260B	NA	11/17/15	1.31	0.23	0.66	ND		ug/L	427769	NA
tert-Butanol	SW8260B	NA	11/17/15	1.31	2.0	6.6	ND		ug/L	427769	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/17/15	1.31	0.17	0.66	ND		ug/L	427769	NA
1,1-Dichloroethane	SW8260B	NA	11/17/15	1.31	0.17	0.66	ND		ug/L	427769	NA
ETBE	SW8260B	NA	11/17/15	1.31	0.23	0.66	ND		ug/L	427769	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/17/15	1.31	0.25	0.66	ND		ug/L	427769	NA
2,2-Dichloropropane	SW8260B	NA	11/17/15	1.31	0.20	0.66	ND		ug/L	427769	NA
Bromochloromethane	SW8260B	NA	11/17/15	1.31	0.27	0.66	ND		ug/L	427769	NA
Chloroform	SW8260B	NA	11/17/15	1.31	0.17	0.66	ND		ug/L	427769	NA
Carbon Tetrachloride	SW8260B	NA	11/17/15	1.31	0.20	0.66	ND		ug/L	427769	NA
1,1,1-Trichloroethane	SW8260B	NA	11/17/15	1.31	0.13	0.66	ND		ug/L	427769	NA
1,1-Dichloropropene	SW8260B	NA	11/17/15	1.31	0.20	0.66	0.47	J	ug/L	427769	NA
Benzene	SW8260B	NA	11/17/15	1.31	0.17	0.66	ND		ug/L	427769	NA
TAME	SW8260B	NA	11/17/15	1.31	0.23	0.66	ND		ug/L	427769	NA
1,2-Dichloroethane	SW8260B	NA	11/17/15	1.31	0.19	0.66	ND		ug/L	427769	NA
Trichloroethylene	SW8260B	NA	11/17/15	1.31	0.17	0.66	ND		ug/L	427769	NA
Dibromomethane	SW8260B	NA	11/17/15	1.31	0.19	0.66	ND		ug/L	427769	NA
1,2-Dichloropropane	SW8260B	NA	11/17/15	1.31	0.23	0.66	ND		ug/L	427769	NA
Bromodichloromethane	SW8260B	NA	11/17/15	1.31	0.17	0.66	ND		ug/L	427769	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/17/15	1.31	0.13	0.66	ND		ug/L	427769	NA
Toluene	SW8260B	NA	11/17/15	1.31	0.19	0.66	ND		ug/L	427769	NA
Tetrachloroethylene	SW8260B	NA	11/17/15	1.31	0.19	0.66	ND		ug/L	427769	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/17/15	1.31	0.30	0.66	ND		ug/L	427769	NA
1,1,2-Trichloroethane	SW8260B	NA	11/17/15	1.31	0.19	0.66	ND		ug/L	427769	NA
Dibromochloromethane	SW8260B	NA	11/17/15	1.31	0.13	0.66	ND		ug/L	427769	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/13/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B32-GW	<b>Lab Sample ID:</b>	1511137-004A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/13/15 / 11:35		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

1,3-Dichloropropane	SW8260B	NA	11/17/15	1.31	0.13	0.66	ND		ug/L	427769	NA
1,2-Dibromoethane	SW8260B	NA	11/17/15	1.31	0.25	0.66	ND		ug/L	427769	NA
Chlorobenzene	SW8260B	NA	11/17/15	1.31	0.19	0.66	ND		ug/L	427769	NA
Ethyl Benzene	SW8260B	NA	11/17/15	1.31	0.20	0.66	0.25	J	ug/L	427769	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/17/15	1.31	0.13	0.66	ND		ug/L	427769	NA
m,p-Xylene	SW8260B	NA	11/17/15	1.31	0.18	1.3	0.66	J	ug/L	427769	NA
o-Xylene	SW8260B	NA	11/17/15	1.31	0.20	0.66	0.41	J	ug/L	427769	NA
Styrene	SW8260B	NA	11/17/15	1.31	0.28	0.66	ND		ug/L	427769	NA
Bromoform	SW8260B	NA	11/17/15	1.31	0.28	1.3	ND		ug/L	427769	NA
Isopropyl Benzene	SW8260B	NA	11/17/15	1.31	0.13	0.66	ND		ug/L	427769	NA
Bromobenzene	SW8260B	NA	11/17/15	1.31	0.20	0.66	ND		ug/L	427769	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/17/15	1.31	0.14	0.66	ND		ug/L	427769	NA
n-Propylbenzene	SW8260B	NA	11/17/15	1.31	0.10	0.66	ND		ug/L	427769	NA
2-Chlorotoluene	SW8260B	NA	11/17/15	1.31	0.099	0.66	ND		ug/L	427769	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/17/15	1.31	0.097	0.66	0.31	J	ug/L	427769	NA
4-Chlorotoluene	SW8260B	NA	11/17/15	1.31	0.12	0.66	ND		ug/L	427769	NA
tert-Butylbenzene	SW8260B	NA	11/17/15	1.31	0.11	0.66	ND		ug/L	427769	NA
1,2,3-Trichloropropane	SW8260B	NA	11/17/15	1.31	0.18	0.66	ND		ug/L	427769	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/17/15	1.31	0.11	0.66	0.33	J	ug/L	427769	NA
sec-Butyl Benzene	SW8260B	NA	11/17/15	1.31	0.12	0.66	ND		ug/L	427769	NA
p-Isopropyltoluene	SW8260B	NA	11/17/15	1.31	0.12	0.66	ND		ug/L	427769	NA
1,3-Dichlorobenzene	SW8260B	NA	11/17/15	1.31	0.14	0.66	ND		ug/L	427769	NA
1,4-Dichlorobenzene	SW8260B	NA	11/17/15	1.31	0.090	0.66	ND		ug/L	427769	NA
n-Butylbenzene	SW8260B	NA	11/17/15	1.31	0.11	0.66	ND		ug/L	427769	NA
1,2-Dichlorobenzene	SW8260B	NA	11/17/15	1.31	0.075	0.66	ND		ug/L	427769	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/17/15	1.31	0.20	0.66	ND		ug/L	427769	NA
Hexachlorobutadiene	SW8260B	NA	11/17/15	1.31	0.26	0.66	ND		ug/L	427769	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/17/15	1.31	0.16	0.66	ND		ug/L	427769	NA
Naphthalene	SW8260B	NA	11/17/15	1.31	0.18	1.3	ND		ug/L	427769	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/17/15	1.31	0.30	0.66	ND		ug/L	427769	NA
(S) Dibromofluoromethane	SW8260B	NA	11/17/15	1.31	61.2	131	103		%	427769	NA
(S) Toluene-d8	SW8260B	NA	11/17/15	1.31	75.1	127	95.6		%	427769	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/17/15	1.31	64.1	120	93.2		%	427769	NA

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



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/13/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B32-GW	<b>Lab Sample ID:</b>	1511137-004A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/13/15 / 11:35		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

TPH as Gasoline	8260TPH	11/17/15	11/17/15	1.31	41	66	70	x	ug/L	427769	15791
(S) 4-Bromofluorobenzene	8260TPH	11/17/15	11/17/15	1.31	41.5	125	105		%	427769	15791

**NOTE:** Raised reporting limit - see comment for 8260B analysis.  
x - Does not match pattern of reference Gasoline standard. Hydrocarbons in the range of C5-C12 quantified as Gasoline.



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/13/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B32-GW	<b>Lab Sample ID:</b>	1511137-004B
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/13/15 / 11:35		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	SW8270C	11/18/15	11/18/15	1	1.2	4.5	ND		ug/L	427796	15778
2-Methylnaphthalene	SW8270C	11/18/15	11/18/15	1	1.0	4.5	ND		ug/L	427796	15778
1-Methylnaphthalene	SW8270C	11/18/15	11/18/15	1	1.0	4.5	ND		ug/L	427796	15778
Acenaphthylene	SW8270C	11/18/15	11/18/15	1	0.68	4.5	ND		ug/L	427796	15778
Acenaphthene	SW8270C	11/18/15	11/18/15	1	0.68	4.5	ND		ug/L	427796	15778
Fluorene	SW8270C	11/18/15	11/18/15	1	0.68	4.5	ND		ug/L	427796	15778
Phenanthrene	SW8270C	11/18/15	11/18/15	1	0.50	4.5	ND		ug/L	427796	15778
Anthracene	SW8270C	11/18/15	11/18/15	1	0.57	4.5	ND		ug/L	427796	15778
Fluoranthene	SW8270C	11/18/15	11/18/15	1	0.48	4.5	ND		ug/L	427796	15778
Pyrene	SW8270C	11/18/15	11/18/15	1	0.52	4.5	ND		ug/L	427796	15778
Benz[a]anthracene	SW8270C	11/18/15	11/18/15	1	0.50	4.5	ND		ug/L	427796	15778
Chrysene	SW8270C	11/18/15	11/18/15	1	0.72	4.5	ND		ug/L	427796	15778
Benzo[b]fluoranthene	SW8270C	11/18/15	11/18/15	1	1.4	4.5	ND		ug/L	427796	15778
Benzo[k]fluoranthene	SW8270C	11/18/15	11/18/15	1	2.4	4.5	ND		ug/L	427796	15778
Benzo[a]pyrene	SW8270C	11/18/15	11/18/15	1	0.32	4.5	ND		ug/L	427796	15778
Indeno[1,2,3-cd]pyrene	SW8270C	11/18/15	11/18/15	1	0.62	4.5	ND		ug/L	427796	15778
Dibenz[a,h]anthracene	SW8270C	11/18/15	11/18/15	1	1.5	4.5	ND		ug/L	427796	15778
Benzo[g,h,i]perylene	SW8270C	11/18/15	11/18/15	1	0.56	4.5	ND		ug/L	427796	15778
2-Fluorobiphenyl (S)	SW8270C	11/18/15	11/18/15	1	41.4	120	63.5		%	427796	15778
p-Terphenyl-d14 (S)	SW8270C	11/18/15	11/18/15	1	35.3	135	85.8		%	427796	15778

**NOTE:** Reporting limits increased due to the nature of sample matrix - limited sample volume

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	11/17/15	11/17/15	1	0.0568	0.14	ND		mg/L	427776	15771
TPH as Motor Oil	SW8015B(M)	11/17/15	11/17/15	1	0.128	0.57	ND		mg/L	427776	15771
Pentacosane (S)	SW8015B(M)	11/17/15	11/17/15	1	64.2	123	86.0		%	427776	15771





## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/13/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B34-GW	<b>Lab Sample ID:</b>	1511137-005A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/13/15 / 8:30		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Ethyl Benzene	SW8260B	NA	11/17/15	21	3.2	11	960		ug/L	427769	NA
m,p-Xylene	SW8260B	NA	11/17/15	21	2.8	21	2400		ug/L	427769	NA
o-Xylene	SW8260B	NA	11/17/15	21	3.2	11	860		ug/L	427769	NA
(S) Dibromofluoromethane	SW8260B	NA	11/17/15	21	61.2	131	102		%	427769	NA
(S) Toluene-d8	SW8260B	NA	11/17/15	21	75.1	127	93.0		%	427769	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/17/15	21	64.1	120	89.4		%	427769	NA
Dichlorodifluoromethane	SW8260B	NA	11/16/15	8.4	1.5	4.2	ND		ug/L	427772	NA
Chloromethane	SW8260B	NA	11/16/15	8.4	1.3	4.2	ND		ug/L	427772	NA
Vinyl Chloride	SW8260B	NA	11/16/15	8.4	1.3	4.2	ND		ug/L	427772	NA
Bromomethane	SW8260B	NA	11/16/15	8.4	1.5	4.2	ND		ug/L	427772	NA
Trichlorofluoromethane	SW8260B	NA	11/16/15	8.4	1.5	4.2	ND		ug/L	427772	NA
1,1-Dichloroethene	SW8260B	NA	11/16/15	8.4	1.3	4.2	ND		ug/L	427772	NA
Freon 113	SW8260B	NA	11/16/15	8.4	1.6	4.2	ND		ug/L	427772	NA
Methylene Chloride	SW8260B	NA	11/16/15	8.4	1.9	42	ND		ug/L	427772	NA
trans-1,2-Dichloroethene	SW8260B	NA	11/16/15	8.4	1.6	4.2	ND		ug/L	427772	NA
MTBE	SW8260B	NA	11/16/15	8.4	1.4	4.2	11		ug/L	427772	NA
tert-Butanol	SW8260B	NA	11/16/15	8.4	13	42	ND		ug/L	427772	NA
Diisopropyl ether (DIPE)	SW8260B	NA	11/16/15	8.4	1.1	4.2	ND		ug/L	427772	NA
1,1-Dichloroethane	SW8260B	NA	11/16/15	8.4	1.1	4.2	ND		ug/L	427772	NA
ETBE	SW8260B	NA	11/16/15	8.4	1.5	4.2	ND		ug/L	427772	NA
cis-1,2-Dichloroethene	SW8260B	NA	11/16/15	8.4	1.6	4.2	ND		ug/L	427772	NA
2,2-Dichloropropane	SW8260B	NA	11/16/15	8.4	1.3	4.2	ND		ug/L	427772	NA
Bromochloromethane	SW8260B	NA	11/16/15	8.4	1.7	4.2	ND		ug/L	427772	NA
Chloroform	SW8260B	NA	11/16/15	8.4	1.1	4.2	10		ug/L	427772	NA
Carbon Tetrachloride	SW8260B	NA	11/16/15	8.4	1.3	4.2	ND		ug/L	427772	NA
1,1,1-Trichloroethane	SW8260B	NA	11/16/15	8.4	0.81	4.2	ND		ug/L	427772	NA
1,1-Dichloropropene	SW8260B	NA	11/16/15	8.4	1.3	4.2	ND		ug/L	427772	NA
Benzene	SW8260B	NA	11/16/15	8.4	1.1	4.2	830		ug/L	427772	NA
TAME	SW8260B	NA	11/16/15	8.4	1.5	4.2	ND		ug/L	427772	NA
1,2-Dichloroethane	SW8260B	NA	11/16/15	8.4	1.2	4.2	ND		ug/L	427772	NA
Trichloroethylene	SW8260B	NA	11/16/15	8.4	1.1	4.2	ND		ug/L	427772	NA
Dibromomethane	SW8260B	NA	11/16/15	8.4	1.2	4.2	ND		ug/L	427772	NA
1,2-Dichloropropane	SW8260B	NA	11/16/15	8.4	1.5	4.2	ND		ug/L	427772	NA
Bromodichloromethane	SW8260B	NA	11/16/15	8.4	1.1	4.2	ND		ug/L	427772	NA
cis-1,3-Dichloropropene	SW8260B	NA	11/16/15	8.4	0.81	4.2	ND		ug/L	427772	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/13/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B34-GW	<b>Lab Sample ID:</b>	1511137-005A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/13/15 / 8:30		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Toluene	SW8260B	NA	11/16/15	8.4	1.2	4.2	170		ug/L	427772	NA
Tetrachloroethylene	SW8260B	NA	11/16/15	8.4	1.2	4.2	ND		ug/L	427772	NA
trans-1,3-Dichloropropene	SW8260B	NA	11/16/15	8.4	1.9	4.2	ND		ug/L	427772	NA
1,1,2-Trichloroethane	SW8260B	NA	11/16/15	8.4	1.2	4.2	ND		ug/L	427772	NA
Dibromochloromethane	SW8260B	NA	11/16/15	8.4	0.81	4.2	ND		ug/L	427772	NA
1,3-Dichloropropane	SW8260B	NA	11/16/15	8.4	0.86	4.2	ND		ug/L	427772	NA
1,2-Dibromoethane	SW8260B	NA	11/16/15	8.4	1.6	4.2	ND		ug/L	427772	NA
Chlorobenzene	SW8260B	NA	11/16/15	8.4	1.2	4.2	ND		ug/L	427772	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	11/16/15	8.4	0.81	4.2	ND		ug/L	427772	NA
Styrene	SW8260B	NA	11/16/15	8.4	1.8	4.2	ND		ug/L	427772	NA
Bromoform	SW8260B	NA	11/16/15	8.4	1.8	8.4	ND		ug/L	427772	NA
Isopropyl Benzene	SW8260B	NA	11/16/15	8.4	0.81	4.2	41		ug/L	427772	NA
Bromobenzene	SW8260B	NA	11/16/15	8.4	1.3	4.2	ND		ug/L	427772	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	11/16/15	8.4	0.90	4.2	ND		ug/L	427772	NA
n-Propylbenzene	SW8260B	NA	11/16/15	8.4	0.65	4.2	120		ug/L	427772	NA
2-Chlorotoluene	SW8260B	NA	11/16/15	8.4	0.64	4.2	ND		ug/L	427772	NA
1,3,5-Trimethylbenzene	SW8260B	NA	11/16/15	8.4	0.62	4.2	190		ug/L	427772	NA
4-Chlorotoluene	SW8260B	NA	11/16/15	8.4	0.74	4.2	ND		ug/L	427772	NA
tert-Butylbenzene	SW8260B	NA	11/16/15	8.4	0.68	4.2	ND		ug/L	427772	NA
1,2,3-Trichloropropane	SW8260B	NA	11/16/15	8.4	1.2	4.2	ND		ug/L	427772	NA
1,2,4-Trimethylbenzene	SW8260B	NA	11/16/15	8.4	0.70	4.2	650		ug/L	427772	NA
sec-Butyl Benzene	SW8260B	NA	11/16/15	8.4	0.77	4.2	6.5		ug/L	427772	NA
p-Isopropyltoluene	SW8260B	NA	11/16/15	8.4	0.78	4.2	14		ug/L	427772	NA
1,3-Dichlorobenzene	SW8260B	NA	11/16/15	8.4	0.87	4.2	ND		ug/L	427772	NA
1,4-Dichlorobenzene	SW8260B	NA	11/16/15	8.4	0.58	4.2	ND		ug/L	427772	NA
n-Butylbenzene	SW8260B	NA	11/16/15	8.4	0.68	4.2	27		ug/L	427772	NA
1,2-Dichlorobenzene	SW8260B	NA	11/16/15	8.4	0.48	4.2	ND		ug/L	427772	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	11/16/15	8.4	1.3	4.2	ND		ug/L	427772	NA
Hexachlorobutadiene	SW8260B	NA	11/16/15	8.4	1.6	4.2	ND		ug/L	427772	NA
1,2,4-Trichlorobenzene	SW8260B	NA	11/16/15	8.4	1.0	4.2	ND		ug/L	427772	NA
Naphthalene	SW8260B	NA	11/16/15	8.4	1.1	8.4	88		ug/L	427772	NA
1,2,3-Trichlorobenzene	SW8260B	NA	11/16/15	8.4	2.0	4.2	ND		ug/L	427772	NA
(S) Dibromofluoromethane	SW8260B	NA	11/16/15	8.4	61.2	131	103		%	427772	NA
(S) Toluene-d8	SW8260B	NA	11/16/15	8.4	75.1	127	94.5		%	427772	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	11/16/15	8.4	64.1	120	88.0		%	427772	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/13/15  
**Date Reported:** 11/20/15

<b>Client Sample ID:</b>	B34-GW	<b>Lab Sample ID:</b>	1511137-005B
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	11/13/15 / 8:30		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	SW8270C	11/18/15	11/18/15	1	9.4	36	13	J	ug/L	427796	15778
2-Methylnaphthalene	SW8270C	11/18/15	11/18/15	1	8.3	36	ND		ug/L	427796	15778
1-Methylnaphthalene	SW8270C	11/18/15	11/18/15	1	8.3	36	ND		ug/L	427796	15778
Acenaphthylene	SW8270C	11/18/15	11/18/15	1	5.5	36	ND		ug/L	427796	15778
Acenaphthene	SW8270C	11/18/15	11/18/15	1	5.5	36	ND		ug/L	427796	15778
Fluorene	SW8270C	11/18/15	11/18/15	1	5.4	36	ND		ug/L	427796	15778
Phenanthrene	SW8270C	11/18/15	11/18/15	1	4.0	36	ND		ug/L	427796	15778
Anthracene	SW8270C	11/18/15	11/18/15	1	4.5	36	ND		ug/L	427796	15778
Fluoranthene	SW8270C	11/18/15	11/18/15	1	3.9	36	ND		ug/L	427796	15778
Pyrene	SW8270C	11/18/15	11/18/15	1	4.1	36	ND		ug/L	427796	15778
Benz[a]anthracene	SW8270C	11/18/15	11/18/15	1	4.0	36	ND		ug/L	427796	15778
Chrysene	SW8270C	11/18/15	11/18/15	1	5.8	36	ND		ug/L	427796	15778
Benzo[b]fluoranthene	SW8270C	11/18/15	11/18/15	1	11	36	ND		ug/L	427796	15778
Benzo[k]fluoranthene	SW8270C	11/18/15	11/18/15	1	19	36	ND		ug/L	427796	15778
Benzo[a]pyrene	SW8270C	11/18/15	11/18/15	1	2.5	36	ND		ug/L	427796	15778
Indeno[1,2,3-cd]pyrene	SW8270C	11/18/15	11/18/15	1	5.0	36	ND		ug/L	427796	15778
Dibenz[a,h]anthracene	SW8270C	11/18/15	11/18/15	1	12	36	ND		ug/L	427796	15778
Benzo[g,h,i]perylene	SW8270C	11/18/15	11/18/15	1	4.5	36	ND		ug/L	427796	15778
2-Fluorobiphenyl (S)	SW8270C	11/18/15	11/18/15	1	41.4	120	84.7		%	427796	15778
p-Terphenyl-d14 (S)	SW8270C	11/18/15	11/18/15	1	35.3	135	85.1		%	427796	15778

**NOTE:** Reporting limits increased due to the nature of sample matrix - limited sample volume

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Hydraulic Oil	SW8015B	11/17/15	11/17/15	1	0.920	2.0	ND		mg/L	427777	15776
Pentacosane (S)	SW8015B	11/17/15	11/17/15	1	53.3	124	102		%	427777	15776



### MB Summary Report

<b>Work Order:</b>	1511137	<b>Prep Method:</b>	3510_TPH	<b>Prep Date:</b>	11/17/15	<b>Prep Batch:</b>	15771
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	11/17/15	<b>Analytical Batch:</b>	427776
<b>Units:</b>	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel	0.0440	0.10	ND	
TPH as Motor Oil	0.0920	0.40	0.095	
Pentacosane (S)			82.9	

<b>Work Order:</b>	1511137	<b>Prep Method:</b>	3510_TPHSG	<b>Prep Date:</b>	11/17/15	<b>Prep Batch:</b>	15776
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	11/17/15	<b>Analytical Batch:</b>	427777
<b>Units:</b>	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel (SG)	0.0440	0.10	ND	
TPH as Motor Oil (SG)	0.0920	0.40	ND	
Pentacosane (S)			97.3	

<b>Work Order:</b>	1511137	<b>Prep Method:</b>	3510_TPHSG	<b>Prep Date:</b>	11/17/15	<b>Prep Batch:</b>	15776
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8015B	<b>Analyzed Date:</b>	11/17/15	<b>Analytical Batch:</b>	427777
<b>Units:</b>	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel	0.0287	0.10	ND	
TPH as Hydraulic Oil	0.0920	0.20	ND	
TPH as Mineral Oil	0.0287	0.10	ND	
TPH as Motor Oil	0.0920	0.40	0.28	
Pentacosane (S)			97.3	



## MB Summary Report

<b>Work Order:</b>	1511137	<b>Prep Method:</b>	3510_BNA	<b>Prep Date:</b>	11/18/15	<b>Prep Batch:</b>	15778
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427796
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Pyridine	1.8	3.6	ND		
N-Nitrosodimethylamine	0.68	3.6	ND		
Aniline	1.1	3.6	ND		
Phenol	0.87	3.6	ND		
Bis(2-chloroethyl) ether	0.97	3.6	ND		
2-Chlorophenol	1.2	3.6	ND		
1,3-Dichlorobenzene	0.89	3.6	ND		
1,4-Dichlorobenzene	1.1	3.6	ND		
Benzyl Alcohol	1.2	7.2	ND		
1,2-Dichlorobenzene	1.0	3.6	ND		
2-Methylphenol (o-Cresol)	1.3	3.6	ND		
Bis(2-chloroisopropyl)ether	1.3	3.6	ND		
3-/4-Methylphenol (p-/m-Cresol)	1.2	3.6	ND		
N-nitroso-di-n-propylamine	1.3	3.6	ND		
Hexachloroethane	1.2	3.6	ND		
Nitrobenzene	0.98	3.6	ND		
Isophorone	1.2	3.6	ND		
2-Nitrophenol	0.82	18	ND		
2,4-Dimethylphenol	0.082	3.6	ND		
Benzoic Acid	6.3	18	ND		
Bis(2-Chloroethoxy)methane	1.0	3.6	ND		
2,4-Dichlorophenol	0.94	3.6	ND		
1,2,4-Trichlorobenzene	0.85	3.6	ND		
2,6-Dichlorophenol	0.94	3.6	ND		
Naphthalene	0.94	3.6	ND		
4-Chloroaniline	0.84	7.2	ND		
Hexachloro-1,3-butadiene	0.79	3.6	ND		
4-Chloro-3-methylphenol	0.71	3.6	ND		
2-Methylnaphthalene	0.83	3.6	ND		
1-Methylnaphthalene	0.83	3.6	ND		
Hexachlorocyclopentadiene	0.32	18	ND		
2,4,6-Trichlorophenol	0.77	3.6	ND		
2,4,5-Trichlorophenol	0.76	3.6	ND		
2-Chloronaphthalene	0.93	3.6	ND		
2-Nitroaniline	0.39	18	ND		
1,4-Dinitrobenzene	0.45	3.6	ND		
Dimethyl phthalate	0.39	3.6	ND		
1,3-Dinitrobenzene	0.083	3.6	ND		
Acenaphthylene	0.55	3.6	ND		
2,6-Dinitrotoluene	0.40	3.6	ND		
1,2-Dinitrobenzene	0.45	3.6	ND		



## MB Summary Report

<b>Work Order:</b>	1511137	<b>Prep Method:</b>	3510_BNA	<b>Prep Date:</b>	11/18/15	<b>Prep Batch:</b>	15778
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427796
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
3-Nitroaniline	0.75	18	ND		
Acenaphthene	0.55	3.6	ND		
2,4-Dinitrophenol	0.051	9.0	ND		
4-Nitrophenol	1.3	3.6	ND		
Dibenzofuran	0.67	3.6	ND		
2,4-Dinitrotoluene	0.44	3.6	ND		
2,3,5,6-Tetrachlorophenol	0.27	3.6	ND		
2,3,4,6-Tetrachlorophenol	0.22	3.6	ND		
Diethylphthalate	0.67	3.6	ND		
Fluorene	0.54	3.6	ND		
4-Chlorophenyl phenyl ether	0.57	3.6	ND		
4-Nitroaniline	0.19	18	ND		
4,6-Dinitro-2-methylphenol	0.70	18	ND		
Diphenylamine	0.56	3.6	ND		
Azobenzene	0.56	3.6	ND		
4-Bromophenyl phenyl ether	0.83	3.6	ND		
Hexachlorobenzene	0.58	3.6	ND		
Pentachlorophenol	0.23	3.6	ND		
Phenanthrene	0.40	3.6	ND		
Anthracene	0.45	3.6	ND		
Carbazole	0.45	3.6	ND		
Di-n-butylphthalate	0.38	3.6	ND		
Fluoranthene	0.39	3.6	ND		
Benzidine	0.10	18	ND		
Pyrene	0.41	3.6	ND		
Benzyl butyl phthalate	0.37	3.6	ND		
Benz[a]anthracene	0.40	3.6	ND		
3,3'-Dichlorobenzidine	0.27	7.2	ND		
Chrysene	0.58	3.6	ND		
Bis(2-Ethylhexyl)phthalate	0.31	3.6	ND		
Di-n-octyl phthalate	0.37	3.6	ND		
Benzo[b]fluoranthene	1.1	3.6	ND		
Benzo[k]fluoranthene	1.9	3.6	ND		
Benzo[a]pyrene	0.25	3.6	ND		
Indeno[1,2,3-cd]pyrene	0.50	3.6	ND		
Dibenz[a,h]anthracene	1.2	3.6	ND		
Benzo[g,h,i]perylene	0.45	3.6	ND		
Phenol-d6 (S)			24.2		
2-Fluorophenol (S)			36.1		
2,4,6-Tribromophenol (S)			42.6		
Nitrobenzene-d5 (S)			60.3		



### MB Summary Report

<b>Work Order:</b>	1511137	<b>Prep Method:</b>	3510_BNA	<b>Prep Date:</b>	11/18/15	<b>Prep Batch:</b>	15778
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427796
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
2-Fluorobiphenyl (S)			47.3		
p-Terphenyl-d14 (S)			87.7		

<b>Work Order:</b>	1511137	<b>Prep Method:</b>	5030	<b>Prep Date:</b>	11/16/15	<b>Prep Batch:</b>	15781
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	8260TPH	<b>Analyzed Date:</b>	11/16/15	<b>Analytical Batch:</b>	427772
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH as Gasoline	31	50	48		
(S) 4-Bromofluorobenzene			112		

<b>Work Order:</b>	1511137	<b>Prep Method:</b>	5030	<b>Prep Date:</b>	11/17/15	<b>Prep Batch:</b>	15791
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	8260TPH	<b>Analyzed Date:</b>	11/17/15	<b>Analytical Batch:</b>	427769
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH as Gasoline	31	50	49		
(S) 4-Bromofluorobenzene			105		



## MB Summary Report

<b>Work Order:</b>	1511137	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/17/15	<b>Analytical Batch:</b>	427769
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.18	0.50	ND		
Chloromethane	0.16	0.50	ND		
Vinyl Chloride	0.16	0.50	ND		
Bromomethane	0.18	0.50	ND		
Trichlorofluoromethane	0.18	0.50	ND		
1,1-Dichloroethene	0.15	0.50	ND		
Freon 113	0.19	0.50	ND		
Methylene Chloride	0.23	5.0	ND		
trans-1,2-Dichloroethene	0.19	0.50	ND		
MTBE	0.17	0.50	ND		
tert-Butanol	1.5	5.0	ND		
Diisopropyl ether (DIPE)	0.13	0.50	ND		
1,1-Dichloroethane	0.13	0.50	ND		
ETBE	0.17	0.50	ND		
cis-1,2-Dichloroethene	0.19	0.50	ND		
2,2-Dichloropropane	0.15	0.50	ND		
Bromochloromethane	0.20	0.50	ND		
Chloroform	0.13	0.50	ND		
Carbon Tetrachloride	0.15	0.50	ND		
1,1,1-Trichloroethane	0.097	0.50	ND		
1,1-Dichloropropene	0.15	0.50	ND		
Benzene	0.13	0.50	ND		
TAME	0.17	0.50	ND		
1,2-Dichloroethane	0.14	0.50	ND		
Trichloroethylene	0.13	0.50	ND		
Dibromomethane	0.15	0.50	ND		
1,2-Dichloropropane	0.17	0.50	ND		
Bromodichloromethane	0.13	0.50	ND		
cis-1,3-Dichloropropene	0.096	0.50	ND		
Toluene	0.14	0.50	ND		
Tetrachloroethylene	0.14	0.50	ND		
trans-1,3-Dichloropropene	0.23	0.50	ND		
1,1,2-Trichloroethane	0.14	0.50	ND		
Dibromochloromethane	0.096	0.50	ND		
1,3-Dichloropropane	0.10	0.50	ND		
1,2-Dibromoethane	0.19	0.50	ND		
Chlorobenzene	0.14	0.50	ND		
Ethyl Benzene	0.15	0.50	ND		
1,1,1,2-Tetrachloroethane	0.096	0.50	ND		
m,p-Xylene	0.13	1.0	ND		
o-Xylene	0.15	0.50	ND		





## MB Summary Report

<b>Work Order:</b>	1511137	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/17/15	<b>Analytical Batch:</b>	427769
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Styrene	0.21	0.50	ND		
Bromoform	0.21	1.0	ND		
Isopropyl Benzene	0.097	0.50	ND		
Bromobenzene	0.15	0.50	ND		
1,1,2,2-Tetrachloroethane	0.11	0.50	ND		
n-Propylbenzene	0.078	0.50	ND		
2-Chlorotoluene	0.076	0.50	ND		
1,3,5,-Trimethylbenzene	0.074	0.50	ND		
4-Chlorotoluene	0.088	0.50	ND		
tert-Butylbenzene	0.081	0.50	ND		
1,2,3-Trichloropropane	0.14	0.50	ND		
1,2,4-Trimethylbenzene	0.083	0.50	ND		
sec-Butyl Benzene	0.092	0.50	ND		
p-Isopropyltoluene	0.093	0.50	ND		
1,3-Dichlorobenzene	0.10	0.50	ND		
1,4-Dichlorobenzene	0.069	0.50	0.070		
n-Butylbenzene	0.081	0.50	ND		
1,2-Dichlorobenzene	0.057	0.50	0.060		
1,2-Dibromo-3-Chloropropane	0.15	0.50	ND		
Hexachlorobutadiene	0.19	0.50	0.22		
1,2,4-Trichlorobenzene	0.12	0.50	0.26		
Naphthalene	0.14	1.0	ND		
1,2,3-Trichlorobenzene	0.23	0.50	ND		
(S) Dibromofluoromethane			105		
(S) Toluene-d8			95.6		
(S) 4-Bromofluorobenzene			92.4		
Ethanol	0.21	0.50	ND	TIC	



## MB Summary Report

<b>Work Order:</b>	1511137	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/16/15	<b>Analytical Batch:</b>	427772
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.18	0.50	ND		
Chloromethane	0.16	0.50	ND		
Vinyl Chloride	0.16	0.50	ND		
Bromomethane	0.18	0.50	ND		
Trichlorofluoromethane	0.18	0.50	ND		
1,1-Dichloroethene	0.15	0.50	ND		
Freon 113	0.19	0.50	ND		
Methylene Chloride	0.23	5.0	ND		
trans-1,2-Dichloroethene	0.19	0.50	ND		
MTBE	0.17	0.50	ND		
tert-Butanol	1.5	5.0	2.9		
Diisopropyl ether (DIPE)	0.13	0.50	ND		
1,1-Dichloroethane	0.13	0.50	ND		
ETBE	0.17	0.50	ND		
cis-1,2-Dichloroethene	0.19	0.50	ND		
2,2-Dichloropropane	0.15	0.50	ND		
Bromochloromethane	0.20	0.50	ND		
Chloroform	0.13	0.50	ND		
Carbon Tetrachloride	0.15	0.50	ND		
1,1,1-Trichloroethane	0.097	0.50	ND		
1,1-Dichloropropene	0.15	0.50	ND		
Benzene	0.13	0.50	ND		
TAME	0.17	0.50	ND		
1,2-Dichloroethane	0.14	0.50	ND		
Trichloroethylene	0.13	0.50	ND		
Dibromomethane	0.15	0.50	ND		
1,2-Dichloropropane	0.17	0.50	ND		
Bromodichloromethane	0.13	0.50	ND		
cis-1,3-Dichloropropene	0.096	0.50	ND		
Toluene	0.14	0.50	ND		
Tetrachloroethylene	0.14	0.50	ND		
trans-1,3-Dichloropropene	0.23	0.50	ND		
1,1,2-Trichloroethane	0.14	0.50	ND		
Dibromochloromethane	0.096	0.50	ND		
1,3-Dichloropropane	0.10	0.50	ND		
1,2-Dibromoethane	0.19	0.50	ND		
Chlorobenzene	0.14	0.50	ND		
Ethyl Benzene	0.15	0.50	ND		
1,1,1,2-Tetrachloroethane	0.096	0.50	ND		
m,p-Xylene	0.13	1.0	ND		
o-Xylene	0.15	0.50	ND		



## MB Summary Report

<b>Work Order:</b>	1511137	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/16/15	<b>Analytical Batch:</b>	427772
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Styrene	0.21	0.50	ND		
Bromoform	0.21	1.0	ND		
Isopropyl Benzene	0.097	0.50	ND		
Bromobenzene	0.15	0.50	ND		
1,1,2,2-Tetrachloroethane	0.11	0.50	ND		
n-Propylbenzene	0.078	0.50	ND		
2-Chlorotoluene	0.076	0.50	ND		
1,3,5,-Trimethylbenzene	0.074	0.50	ND		
4-Chlorotoluene	0.088	0.50	ND		
tert-Butylbenzene	0.081	0.50	ND		
1,2,3-Trichloropropane	0.14	0.50	ND		
1,2,4-Trimethylbenzene	0.083	0.50	ND		
sec-Butyl Benzene	0.092	0.50	ND		
p-Isopropyltoluene	0.093	0.50	ND		
1,3-Dichlorobenzene	0.10	0.50	ND		
1,4-Dichlorobenzene	0.069	0.50	ND		
n-Butylbenzene	0.081	0.50	ND		
1,2-Dichlorobenzene	0.057	0.50	ND		
1,2-Dibromo-3-Chloropropane	0.15	0.50	ND		
Hexachlorobutadiene	0.19	0.50	ND		
1,2,4-Trichlorobenzene	0.12	0.50	0.22		
Naphthalene	0.14	1.0	ND		
1,2,3-Trichlorobenzene	0.23	0.50	ND		
(S) Dibromofluoromethane			104		
(S) Toluene-d8			96.0		
(S) 4-Bromofluorobenzene			90.8		
Ethanol	0.21	0.50	ND	TIC	



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1511137	<b>Prep Method:</b>	3510_TPH	<b>Prep Date:</b>	11/17/15	<b>Prep Batch:</b>	15771
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	11/17/15	<b>Analytical Batch:</b>	427776
<b>Units:</b>	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel	0.0440	0.10	ND	1	89.2	67.7	27.4	50.3 - 125	30	
Pentacosane (S)			0.095	200	96.6	82.2		57.9 - 125		

<b>Work Order:</b>	1511137	<b>Prep Method:</b>	3510_TPHSG	<b>Prep Date:</b>	11/17/15	<b>Prep Batch:</b>	15776
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	11/17/15	<b>Analytical Batch:</b>	427777
<b>Units:</b>	mg/L						

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)	0.0440	0.10	ND	1	67.7	82.2	19.4	36.5 - 91.3	30	
Pentacosane (S)			ND	200	103	115		50.8 - 139		

<b>Work Order:</b>	1511137	<b>Prep Method:</b>	3510_BNA	<b>Prep Date:</b>	11/18/15	<b>Prep Batch:</b>	15778
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	11/18/15	<b>Analytical Batch:</b>	427796
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Acenaphthene	0.55	3.6	ND	20	38.7	50.6	26.5	52.5 - 116	30	S
Pyrene	0.41	3.6	ND	20	116	119	2.88	45.9 - 127	30	
Nitrobenzene-d5 (S)			ND	20	52.9	69.8		31.0 - 116		
2-Fluorobiphenyl (S)			ND	20	34.3	44.6		21.3 - 123		
p-Terphenyl-d14 (S)			ND	20	82.7	79.1		10 - 123		

<b>Work Order:</b>	1511137	<b>Prep Method:</b>	5030	<b>Prep Date:</b>	11/16/15	<b>Prep Batch:</b>	15781
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	8260TPH	<b>Analyzed Date:</b>	11/16/15	<b>Analytical Batch:</b>	427772
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	31	50	48	238.1	112	107	4.91	52.4 - 127	30	
(S) 4-Bromofluorobenzene			112	11.9	114	114		41.5 - 125		



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1511137	<b>Prep Method:</b>	5030	<b>Prep Date:</b>	11/17/15	<b>Prep Batch:</b>	15791
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	8260TPH	<b>Analyzed Date:</b>	11/17/15	<b>Analytical Batch:</b>	427769
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	31	50	49	238.1	113	106	6.59	52.4 - 127	30	
(S) 4-Bromofluorobenzene			105	11.9	116	102		41.5 - 125		

<b>Work Order:</b>	1511137	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/17/15	<b>Analytical Batch:</b>	427769
<b>Units:</b>	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	17.86	106	104	2.09	61.4 - 129	30	
Benzene	0.087	0.50	ND	17.86	111	110	1.17	66.9 - 140	30	
Trichloroethylene	0.057	0.50	ND	17.86	105	103	1.93	69.3 - 144	30	
Toluene	0.059	0.50	ND	17.86	105	106	1.06	76.6 - 123	30	
Chlorobenzene	0.068	0.50	ND	17.86	105	106	0.531	73.9 - 137	30	
(S) Dibromofluoromethane			ND	17.86	104	96.2		61.2 - 131		
(S) Toluene-d8			ND	17.86	102	93.2		75.1 - 127		
(S) 4-Bromofluorobenzene			ND	17.86	94.4	89.2		64.1 - 120		

<b>Work Order:</b>	1511137	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	11/16/15	<b>Analytical Batch:</b>	427772
<b>Units:</b>	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	17.86	94.2	98.8	4.88	61.4 - 129	30	
Benzene	0.087	0.50	ND	17.86	101	104	3.06	66.9 - 140	30	
Trichloroethylene	0.057	0.50	ND	17.86	100	102	1.55	69.3 - 144	30	
Toluene	0.059	0.50	ND	17.86	98.6	100	1.63	76.6 - 123	30	
Chlorobenzene	0.068	0.50	ND	17.86	103	102	1.42	73.9 - 137	30	
(S) Dibromofluoromethane			ND	17.86	87.4	90.4		61.2 - 131		
(S) Toluene-d8			ND	17.86	85.1	87.2		75.1 - 127		
(S) 4-Bromofluorobenzene			ND	17.86	77.0	80.1		64.1 - 120		



## Laboratory Qualifiers and Definitions

### DEFINITIONS:

<b>Accuracy/Bias (% Recovery)</b> - The closeness of agreement between an observed value and an accepted reference value.
<b>Blank (Method/Preparation Blank)</b> -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.
<b>Duplicate</b> - 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)
<b>Laboratory Control Sample (LCS ad LCSD)</b> - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
<b>Matrix</b> - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
<b>Matrix Spike (MS/MSD)</b> - 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.
<b>Method Detection Limit (MDL)</b> - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
<b>Practical Quantitation Limit (PQL)</b> - 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 reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
<b>Precision (%RPD)</b> - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
<b>Surrogate (S) or (Surr)</b> - 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
<b>Tentatively Identified Compound (TIC)</b> - 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.
<b>Units:</b> the unit of measure used to express the reported result - <b>mg/L</b> and <b>mg/Kg</b> (equivalent to PPM - parts per million in <b>liquid</b> and <b>solid</b> ), <b>ug/L</b> and <b>ug/Kg</b> (equivalent to PPB - parts per billion in <b>liquid</b> and <b>solid</b> ), <b>ug/m<sup>3</sup></b> , <b>mg.m<sup>3</sup></b> , <b>ppbv</b> and <b>ppmv</b> (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), <b>ug/Wipe</b> ( concentration found on the surface of a single Wipe usually taken over a 100cm <sup>2</sup> surface)

### LABORATORY QUALIFIERS:

<p><b>B</b> - Indicates when the analyte is found in the associated method or preparation blank</p> <p><b>D</b> - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p><b>E</b> - 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.</p> <p><b>H</b>- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p><b>J</b>- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p><b>NA</b> - Not Analyzed</p> <p><b>N/A</b> - Not Applicable</p> <p><b>NR</b> - 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</p> <p><b>R</b>- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p><b>S</b>- 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</p> <p><b>X</b> -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.</p>
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## Sample Receipt Checklist

Client Name: Golden Gate Tank Removal

Project Name: 5930 College Ave, Oakland

Work Order No.: 1511137

Date and Time Received: 11/13/2015 14:25

Received By: Idi

Physically Logged By: Idi

Checklist Completed By: Idi

Carrier Name: First Courier

### 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? Not Present

### 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: 5 °C  
Water-VOA vials have zero headspace? No  
Water-pH acceptable upon receipt? N/A  
pH Checked by: n/a pH Adjusted by: n/a

Time sampled different from COC.B28-GW ; 11:10 VS coc 10:55, B29-GW ;10:45 VS. COC 10:50, B30-GW ; 9:10 VS COC 9:20 ; B32-GW 11:35 VS COC 11:45 AND B34-GW 8:45 VS COC 8:30



## Login Summary Report

**Client ID:** TL5128 Golden Gate Tank Removal  
**Project Name:** 5930 College Ave, Oakland  
**Project # :**  
**Report Due Date:** 11/20/2015

**QC Level:**  
**TAT Requested:** 5+ day:0  
**Date Received:** 11/13/2015  
**Time Received:** 14:25

**Comments:**

**Work Order # :** 1511137

<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>
1511137-001A	B28-GW	11/13/15 10:55	Water	12/28/15			EDF W_8260Full	
1511137-002A	B29-GW	11/13/15 10:45	Water	12/28/15			W_8260Full	
1511137-003A	B30-GW	11/13/15 9:10	Water	12/28/15			W_8260Full	
1511137-004A	B32-GW	11/13/15 11:35	Water	12/28/15			W_GCMS-GRO W_8260Full	
1511137-004B	B32-GW	11/13/15 11:35	Water	12/28/15			W_TPHDO W_8270CPAH	
1511137-005A	B34-GW	11/13/15 8:30	Water	12/28/15			W_8260Full	
1511137-005B	B34-GW	11/13/15 8:30	Water	12/28/15			W_TEPHMaster W_8270CPAH	

**Sample Note:** 1 amber to share 8270 PAH and Hydraulic oil







Golden Gate Tank Removal  
1480 Carroll Ave  
San Francisco, California 94124  
Tel: 415-512-1555  
Email: b.wheeler@ggtr.com  
RE: 5930 College Ave, Oakland

Work Order No.: 1511192 Rev: 1

Dear Brent Wheeler:

Torrent Laboratory, Inc. received 14 sample(s) on November 23, 2015 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.

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Patti Sandrock  
QA Officer

February 02, 2016

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Date



**Date:** 2/2/2016

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**Client:** Golden Gate Tank Removal

**Project:** 5930 College Ave, Oakland

**Work Order:** 1511192

### **CASE NARRATIVE**

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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.

#### **REVISIONS:**

Report revised to provide fixed gas data at best possible dilution for compounds of concern. Hydrogen and Helium are not reported. Nitrogen has been normalized where serial dilution resulted in calculated concentrations were greater than atmospheric Nitrogen (samples -011 and -013).

Rev 1 (2-2-16)



### Sample Result Summary

Report prepared for: Brent Wheeler  
Golden Gate Tank Removal

Date Received: 11/23/15

Date Reported: 02/02/16

B28V

1511192-001A

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Tetrachloroethylene	ETO15	1.5	1.4	5.1	81.9
TPH-Gasoline	ETO15	1.5	60	260	320

B29V

1511192-002A

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Tetrachloroethylene	ETO15	20	18	68	4120
TPH-Gasoline	ETO15	20	800	3500	910

B31V

1511192-003A

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
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All compounds were non-detectable for this sample.

B31V

1511192-004A

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
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All compounds were non-detectable for this sample.



## Sample Result Summary

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15

**Date Reported:** 02/02/16

SG-1

1511192-005A

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
2-Propanol (Isopropyl Alcohol)	ETO15	1	0.97	2.5	74.3
Acetone	ETO15	1	0.88	19	36.3
Toluene	ETO15	1	0.95	1.9	6.27
Nitrogen	D1946	150	6.45	7.50	79.1
Ethyl Benzene	ETO15	1	0.99	2.2	4.39
m,p-Xylene	ETO15	1	1.6	4.3	29.0
o-Xylene	ETO15	1	0.81	2.2	14.7
4-Ethyl Toluene	ETO15	1	0.82	2.5	12.5
1,2,4-Trimethylbenzene	ETO15	1	0.69	2.5	13.8
TPH-Gasoline	ETO15	1	40	180	650

SG-1

1511192-005A150x

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results %</u>
Carbon Dioxide	D1946	1.5	0.045	0.075	0.716
Oxygen	D1946	1.5	0.0405	0.0750	18.4
Methane	D1946	1.5	0.04	0.08	0.2
Carbon Monoxide	D1946	1.5	0.0525	0.0750	0.732

SG-1 DUP

1511192-006A

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
2-Propanol (Isopropyl Alcohol)	ETO15	1	0.97	2.5	68.0
Acetone	ETO15	1	0.88	19	33.5
Toluene	ETO15	1	0.95	1.9	7.07
Ethyl Benzene	ETO15	1	0.99	2.2	3.96
m,p-Xylene	ETO15	1	1.6	4.3	28.3
o-Xylene	ETO15	1	0.81	2.2	16.3
4-Ethyl Toluene	ETO15	1	0.82	2.5	11.3
1,2,4-Trimethylbenzene	ETO15	1	0.69	2.5	12.9
TPH-Gasoline	ETO15	1	40	180	560



## Sample Result Summary

Report prepared for: Brent Wheeler  
Golden Gate Tank Removal

Date Received: 11/23/15

Date Reported: 02/02/16

SG-1

1511192-007A

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
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All compounds were non-detectable for this sample.

SG-2

1511192-008A

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Nitrogen	D1946	200	8.60	10.0	62.2
Acetone	ETO15	2	1.8	38	107
Hexane	ETO15	2	1.1	3.5	1.12
tert-Butanol	ETO15	2	1.8	17	16.7
m,p-Xylene	ETO15	2	3.2	8.6	17.8
o-Xylene	ETO15	2	1.6	4.3	9.12
4-Ethyl Toluene	ETO15	2	1.6	4.9	5.10
1,2,4-Trimethylbenzene	ETO15	2	1.4	4.9	5.00
TPH-Gasoline	ETO15	2	80	350	430
2-Propanol (Isopropyl Alcohol)	ETO15	5	4.9	13	28.4

SG-2

1511192-008A200x

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results %</u>
Carbon Dioxide	D1946	2	0.060	0.100	1.06
Oxygen	D1946	2	0.0540	0.100	13.5

SG-2LC

1511192-009A

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
2-Propanol (Isopropyl Alcohol)	ETO15	2000	1900	4900	94300



## Sample Result Summary

Report prepared for: Brent Wheeler  
Golden Gate Tank Removal

Date Received: 11/23/15

Date Reported: 02/02/16

SG-2

1511192-010A

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
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All compounds were non-detectable for this sample.

SG-3

1511192-011A

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Nitrogen	D1946	186	8.00	9.30	78.1
Chloromethane	ETO15	2	0.64	2.1	0.840
2-Propanol (Isopropyl Alcohol)	ETO15	2	1.9	5.0	22.4
Acetone	ETO15	2	1.8	38	80.3
tert-Butanol	ETO15	2	1.8	17	8.15
Toluene	ETO15	2	1.9	3.8	10.6
Tetrachloroethylene	ETO15	2	1.8	6.8	385
Ethyl Benzene	ETO15	2	2.0	4.3	7.91
m,p-Xylene	ETO15	2	3.2	8.6	59.9
o-Xylene	ETO15	2	1.6	4.3	30.1
4-Ethyl Toluene	ETO15	2	1.6	4.9	23.4
1,3,5-Trimethylbenzene	ETO15	2	1.5	4.9	2.45
1,2,4-Trimethylbenzene	ETO15	2	1.4	4.9	26.8
TPH-Gasoline	ETO15	2	80	350	1400

SG-3

1511192-011A186x

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results %</u>
Carbon Dioxide	D1946	2	0.060	0.100	5.94
Oxygen	D1946	2	0.0540	0.100	20.3

SG-3

1511192-012A

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
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All compounds were non-detectable for this sample.



### Sample Result Summary

Report prepared for: Brent Wheeler  
Golden Gate Tank Removal

Date Received: 11/23/15

Date Reported: 02/02/16

SSV-1

1511192-013A

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Acetone	ETO15	1	0.88	19	80.0
Nitrogen	D1946	171	7.35	8.55	77.0

SSV-1

1511192-013A171x

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results %</u>
Carbon Dioxide	D1946	1.5	0.045	0.075	0.338
Oxygen	D1946	1.5	0.0405	0.0750	20.9

SSV-1

1511192-014A

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
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All compounds were non-detectable for this sample.





## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b> B28V	<b>Lab Sample ID:</b> 1511192-001A
<b>Project Name/Location:</b> 5930 College Ave, Oakland	<b>Sample Matrix:</b> Air
<b>Project Number:</b>	<b>Certified Clean WO # :</b>
<b>Date/Time Sampled:</b> 11/19/15 / 11:35	<b>Received PSI :</b> 13.6
<b>Canister/Tube ID:</b> 6114	<b>Corrected PSI :</b> 0.0
<b>Collection Volume (L):</b> 0.00	
<b>Tag Number:</b> 5930 College Ave	

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
Dichlorodifluoromethane	ETO15	NA	11/25/15	1.5	2.3	7.5	ND	ND		427921	NA
1,1-Difluoroethane	ETO15	NA	11/25/15	1.5	0.75	2.0	ND	ND		427921	NA
1,2-Dichlorotetrafluoroethane	ETO15	NA	11/25/15	1.5	7.4	21	ND	ND		427921	NA
Chloromethane	ETO15	NA	11/25/15	1.5	0.48	1.6	ND	ND		427921	NA
Vinyl Chloride	ETO15	NA	11/25/15	1.5	1.0	3.9	ND	ND		427921	NA
1,3-Butadiene	ETO15	NA	11/25/15	1.5	0.67	1.7	ND	ND		427921	NA
Bromomethane	ETO15	NA	11/25/15	1.5	1.1	2.9	ND	ND		427921	NA
Chloroethane	ETO15	NA	11/25/15	1.5	0.75	2.0	ND	ND		427921	NA
Trichlorofluoromethane	ETO15	NA	11/25/15	1.5	2.7	8.4	ND	ND		427921	NA
1,1-Dichloroethene	ETO15	NA	11/25/15	1.5	0.92	3.0	ND	ND		427921	NA
Freon 113	ETO15	NA	11/25/15	1.5	1.3	5.8	ND	ND		427921	NA
Carbon Disulfide	ETO15	NA	11/25/15	1.5	1.2	4.7	ND	ND		427921	NA
2-Propanol (Isopropyl Alcohol)	ETO15	NA	11/25/15	1.5	1.5	3.8	ND	ND		427921	NA
Methylene Chloride	ETO15	NA	11/25/15	1.5	0.88	42	ND	ND		427921	NA
Acetone	ETO15	NA	11/25/15	1.5	1.3	29	ND	ND		427921	NA
trans-1,2-Dichloroethene	ETO15	NA	11/25/15	1.5	0.96	3.0	ND	ND		427921	NA
Hexane	ETO15	NA	11/25/15	1.5	0.79	2.6	ND	ND		427921	NA
MTBE	ETO15	NA	11/25/15	1.5	1.3	2.7	ND	ND		427921	NA
tert-Butanol	ETO15	NA	11/25/15	1.5	1.4	13	ND	ND		427921	NA
Diisopropyl ether (DIPE)	ETO15	NA	11/25/15	1.5	1.3	3.2	ND	ND		427921	NA
1,1-Dichloroethane	ETO15	NA	11/25/15	1.5	1.1	3.1	ND	ND		427921	NA
ETBE	ETO15	NA	11/25/15	1.5	1.0	3.2	ND	ND		427921	NA
cis-1,2-Dichloroethene	ETO15	NA	11/25/15	1.5	0.81	3.0	ND	ND		427921	NA
Chloroform	ETO15	NA	11/25/15	1.5	1.8	7.4	ND	ND		427921	NA
Vinyl Acetate	ETO15	NA	11/25/15	1.5	0.85	2.6	ND	ND		427921	NA
Carbon Tetrachloride	ETO15	NA	11/25/15	1.5	1.3	4.7	ND	ND		427921	NA
1,1,1-Trichloroethane	ETO15	NA	11/25/15	1.5	1.3	4.1	ND	ND		427921	NA
2-Butanone (MEK)	ETO15	NA	11/25/15	1.5	0.94	2.3	ND	ND		427921	NA
Ethyl Acetate	ETO15	NA	11/25/15	1.5	1.1	2.7	ND	ND		427921	NA
Tetrahydrofuran	ETO15	NA	11/25/15	1.5	0.45	2.3	ND	ND		427921	NA
Benzene	ETO15	NA	11/25/15	1.5	1.0	2.4	ND	ND		427921	NA
TAME	ETO15	NA	11/25/15	1.5	0.54	3.2	ND	ND		427921	NA
1,2-Dichloroethane (EDC)	ETO15	NA	11/25/15	1.5	1.5	3.1	ND	ND		427921	NA
Trichloroethylene	ETO15	NA	11/25/15	1.5	2.1	8.1	ND	ND		427921	NA
1,2-Dichloropropane	ETO15	NA	11/25/15	1.5	2.0	6.9	ND	ND		427921	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	B28V	<b>Lab Sample ID:</b>	1511192-001A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/19/15 / 11:35	<b>Received PSI :</b>	13.6
<b>Canister/Tube ID:</b>	6114	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	0.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
Bromodichloromethane	ETO15	NA	11/25/15	1.5	1.3	5.0	ND	ND		427921	NA
1,4-Dioxane	ETO15	NA	11/25/15	1.5	1.9	5.4	ND	ND		427921	NA
trans-1,3-Dichloropropene	ETO15	NA	11/25/15	1.5	1.3	3.4	ND	ND		427921	NA
Toluene	ETO15	NA	11/25/15	1.5	1.4	2.9	ND	ND		427921	NA
4-Methyl-2-Pentanone (MIBK)	ETO15	NA	11/25/15	1.5	1.3	3.1	ND	ND		427921	NA
cis-1,3-Dichloropropene	ETO15	NA	11/25/15	1.5	1.7	3.4	ND	ND		427921	NA
Tetrachloroethylene	ETO15	NA	11/25/15	1.5	1.4	5.1	81.9	12.04		427921	NA
1,1,2-Trichloroethane	ETO15	NA	11/25/15	1.5	1.4	4.1	ND	ND		427921	NA
Dibromochloromethane	ETO15	NA	11/25/15	1.5	2.6	6.4	ND	ND		427921	NA
1,2-Dibromoethane (EDB)	ETO15	NA	11/25/15	1.5	3.1	12	ND	ND		427921	NA
2-Hexanone	ETO15	NA	11/25/15	1.5	1.7	6.2	ND	ND		427921	NA
Ethyl Benzene	ETO15	NA	11/25/15	1.5	1.5	3.2	ND	ND		427921	NA
Chlorobenzene	ETO15	NA	11/25/15	1.5	1.1	3.5	ND	ND		427921	NA
1,1,1,2-Tetrachloroethane	ETO15	NA	11/25/15	1.5	1.6	5.2	ND	ND		427921	NA
m,p-Xylene	ETO15	NA	11/25/15	1.5	2.4	6.5	ND	ND		427921	NA
o-Xylene	ETO15	NA	11/25/15	1.5	1.2	3.2	ND	ND		427921	NA
Styrene	ETO15	NA	11/25/15	1.5	1.0	3.3	ND	ND		427921	NA
Bromoform	ETO15	NA	11/25/15	1.5	1.7	7.5	ND	ND		427921	NA
1,1,2,2-Tetrachloroethane	ETO15	NA	11/25/15	1.5	1.1	5.2	ND	ND		427921	NA
4-Ethyl Toluene	ETO15	NA	11/25/15	1.5	1.2	3.7	ND	ND		427921	NA
1,3,5-Trimethylbenzene	ETO15	NA	11/25/15	1.5	1.1	3.7	ND	ND		427921	NA
1,2,4-Trimethylbenzene	ETO15	NA	11/25/15	1.5	1.0	3.7	ND	ND		427921	NA
1,4-Dichlorobenzene	ETO15	NA	11/25/15	1.5	0.97	4.5	ND	ND		427921	NA
1,3-Dichlorobenzene	ETO15	NA	11/25/15	1.5	1.3	4.5	ND	ND		427921	NA
1,2-Dichlorobenzene	ETO15	NA	11/25/15	1.5	1.4	4.5	ND	ND		427921	NA
Hexachlorobutadiene	ETO15	NA	11/25/15	1.5	3.6	8.3	ND	ND		427921	NA
1,2,4-Trichlorobenzene	ETO15	NA	11/25/15	1.5	5.1	11	ND	ND		427921	NA
Naphthalene	ETO15	NA	11/25/15	1.5	2.2	7.8	ND	ND		427921	NA
(S) 4-Bromofluorobenzene	ETO15	NA	11/25/15	1.5	65	135	118 %			427921	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	B28V	<b>Lab Sample ID:</b>	1511192-001A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/19/15 / 11:35	<b>Received PSI :</b>	13.6
<b>Canister/Tube ID:</b>	6114	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	0.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
TPH-Gasoline	ETO15	NA	11/30/15	1.5	60	260	320	90.91	x	427941	NA

**NOTE:** x - Does not match pattern of reference Gasoline standard. Hydrocarbons within the range of C5-C12 quantified as Gasoline.



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b> B29V	<b>Lab Sample ID:</b> 1511192-002A
<b>Project Name/Location:</b> 5930 College Ave, Oakland	<b>Sample Matrix:</b> Air
<b>Project Number:</b>	<b>Certified Clean WO # :</b>
<b>Date/Time Sampled:</b> 11/19/15 / 10:42	<b>Received PSI :</b> 14.5
<b>Canister/Tube ID:</b> 6318	<b>Corrected PSI :</b> 0.0
<b>Collection Volume (L):</b> 0.00	
<b>Tag Number:</b> 5930 College Ave	

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
Dichlorodifluoromethane	ETO15	NA	11/24/15	20	30	100	ND	ND		427901	NA
1,1-Difluoroethane	ETO15	NA	11/24/15	20	10	27	ND	ND		427901	NA
1,2-Dichlorotetrafluoroethane	ETO15	NA	11/24/15	20	99	280	ND	ND		427901	NA
Chloromethane	ETO15	NA	11/24/15	20	6.4	21	ND	ND		427901	NA
Vinyl Chloride	ETO15	NA	11/24/15	20	13	52	ND	ND		427901	NA
1,3-Butadiene	ETO15	NA	11/24/15	20	8.9	22	ND	ND		427901	NA
Bromomethane	ETO15	NA	11/24/15	20	14	39	ND	ND		427901	NA
Chloroethane	ETO15	NA	11/24/15	20	10	26	ND	ND		427901	NA
Trichlorofluoromethane	ETO15	NA	11/24/15	20	36	110	ND	ND		427901	NA
1,1-Dichloroethene	ETO15	NA	11/24/15	20	12	40	ND	ND		427901	NA
Freon 113	ETO15	NA	11/24/15	20	17	77	ND	ND		427901	NA
Carbon Disulfide	ETO15	NA	11/24/15	20	16	62	ND	ND		427901	NA
2-Propanol (Isopropyl Alcohol)	ETO15	NA	11/24/15	20	19	50	ND	ND		427901	NA
Methylene Chloride	ETO15	NA	11/24/15	20	12	560	ND	ND		427901	NA
Acetone	ETO15	NA	11/24/15	20	18	380	ND	ND		427901	NA
trans-1,2-Dichloroethene	ETO15	NA	11/24/15	20	13	40	ND	ND		427901	NA
Hexane	ETO15	NA	11/24/15	20	11	35	ND	ND		427901	NA
MTBE	ETO15	NA	11/24/15	20	17	36	ND	ND		427901	NA
tert-Butanol	ETO15	NA	11/24/15	20	18	170	ND	ND		427901	NA
Diisopropyl ether (DIPE)	ETO15	NA	11/24/15	20	18	42	ND	ND		427901	NA
1,1-Dichloroethane	ETO15	NA	11/24/15	20	15	41	ND	ND		427901	NA
ETBE	ETO15	NA	11/24/15	20	14	42	ND	ND		427901	NA
cis-1,2-Dichloroethene	ETO15	NA	11/24/15	20	11	40	ND	ND		427901	NA
Chloroform	ETO15	NA	11/24/15	20	25	98	ND	ND		427901	NA
Vinyl Acetate	ETO15	NA	11/24/15	20	11	35	ND	ND		427901	NA
Carbon Tetrachloride	ETO15	NA	11/24/15	20	17	63	ND	ND		427901	NA
1,1,1-Trichloroethane	ETO15	NA	11/24/15	20	17	55	ND	ND		427901	NA
2-Butanone (MEK)	ETO15	NA	11/24/15	20	13	30	ND	ND		427901	NA
Ethyl Acetate	ETO15	NA	11/24/15	20	15	36	ND	ND		427901	NA
Tetrahydrofuran	ETO15	NA	11/24/15	20	6.0	30	ND	ND		427901	NA
Benzene	ETO15	NA	11/24/15	20	14	32	ND	ND		427901	NA
TAME	ETO15	NA	11/24/15	20	7.2	42	ND	ND		427901	NA
1,2-Dichloroethane (EDC)	ETO15	NA	11/24/15	20	20	41	ND	ND		427901	NA
Trichloroethylene	ETO15	NA	11/24/15	20	28	110	ND	ND		427901	NA
1,2-Dichloropropane	ETO15	NA	11/24/15	20	26	92	ND	ND		427901	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	B29V	<b>Lab Sample ID:</b>	1511192-002A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/19/15 / 10:42	<b>Received PSI :</b>	14.5
<b>Canister/Tube ID:</b>	6318	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	0.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
Bromodichloromethane	ETO15	NA	11/24/15	20	18	67	ND	ND		427901	NA
1,4-Dioxane	ETO15	NA	11/24/15	20	25	72	ND	ND		427901	NA
trans-1,3-Dichloropropene	ETO15	NA	11/24/15	20	17	45	ND	ND		427901	NA
Toluene	ETO15	NA	11/24/15	20	19	38	ND	ND		427901	NA
4-Methyl-2-Pentanone (MIBK)	ETO15	NA	11/24/15	20	17	41	ND	ND		427901	NA
cis-1,3-Dichloropropene	ETO15	NA	11/24/15	20	23	45	ND	ND		427901	NA
Tetrachloroethylene	ETO15	NA	11/24/15	20	18	68	4120	605.88		427901	NA
1,1,2-Trichloroethane	ETO15	NA	11/24/15	20	19	55	ND	ND		427901	NA
Dibromochloromethane	ETO15	NA	11/24/15	20	35	85	ND	ND		427901	NA
1,2-Dibromoethane (EDB)	ETO15	NA	11/24/15	20	41	150	ND	ND		427901	NA
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2-Hexanone	ETO15	NA	11/24/15	20	22	82	ND	ND		427901	NA
Ethyl Benzene	ETO15	NA	11/24/15	20	20	43	ND	ND		427901	NA
Chlorobenzene	ETO15	NA	11/24/15	20	14	46	ND	ND		427901	NA
1,1,1,2-Tetrachloroethane	ETO15	NA	11/24/15	20	21	69	ND	ND		427901	NA
m,p-Xylene	ETO15	NA	11/24/15	20	32	86	ND	ND		427901	NA
o-Xylene	ETO15	NA	11/24/15	20	16	43	ND	ND		427901	NA
Styrene	ETO15	NA	11/24/15	20	14	44	ND	ND		427901	NA
Bromoform	ETO15	NA	11/24/15	20	22	100	ND	ND		427901	NA
1,1,2,2-Tetrachloroethane	ETO15	NA	11/24/15	20	14	69	ND	ND		427901	NA
4-Ethyl Toluene	ETO15	NA	11/24/15	20	16	49	ND	ND		427901	NA
1,3,5-Trimethylbenzene	ETO15	NA	11/24/15	20	15	49	ND	ND		427901	NA
1,2,4-Trimethylbenzene	ETO15	NA	11/24/15	20	14	49	ND	ND		427901	NA
1,4-Dichlorobenzene	ETO15	NA	11/24/15	20	13	60	ND	ND		427901	NA
1,3-Dichlorobenzene	ETO15	NA	11/24/15	20	17	60	ND	ND		427901	NA
1,2-Dichlorobenzene	ETO15	NA	11/24/15	20	18	60	ND	ND		427901	NA
Hexachlorobutadiene	ETO15	NA	11/24/15	20	48	110	ND	ND		427901	NA
1,2,4-Trichlorobenzene	ETO15	NA	11/24/15	20	68	150	ND	ND		427901	NA
Naphthalene	ETO15	NA	11/24/15	20	29	100	ND	ND		427901	NA
(S) 4-Bromofluorobenzene	ETO15	NA	11/24/15	20	65	135	107 %			427901	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	B29V	<b>Lab Sample ID:</b>	1511192-002A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/19/15 / 10:42	<b>Received PSI :</b>	14.5
<b>Canister/Tube ID:</b>	6318	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	0.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

TPH-Gasoline	ETO15	NA	11/24/15	20	800	3500	910	258.52	J	427942	NA
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**NOTE:** The reporting limits were raised due to the high concentration of non-target discrete peak (PCE) within gasoline range.



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	B31V	<b>Lab Sample ID:</b>	1511192-003A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/19/15 / 12:32	<b>Received PSI :</b>	14.2
<b>Canister/Tube ID:</b>	A7465	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	0.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Dichlorodifluoromethane	ETO15	NA	11/30/15	10	15	50	ND	ND		427939	NA
1,1-Difluoroethane	ETO15	NA	11/30/15	10	5.0	14	ND	ND		427939	NA
1,2-Dichlorotetrafluoroethane	ETO15	NA	11/30/15	10	49	140	ND	ND		427939	NA
Chloromethane	ETO15	NA	11/30/15	10	3.2	11	ND	ND		427939	NA
Vinyl Chloride	ETO15	NA	11/30/15	10	6.7	26	ND	ND		427939	NA
1,3-Butadiene	ETO15	NA	11/30/15	10	4.5	11	ND	ND		427939	NA
Bromomethane	ETO15	NA	11/30/15	10	7.2	20	ND	ND		427939	NA
Chloroethane	ETO15	NA	11/30/15	10	5.0	13	ND	ND		427939	NA
Trichlorofluoromethane	ETO15	NA	11/30/15	10	18	56	ND	ND		427939	NA
1,1-Dichloroethene	ETO15	NA	11/30/15	10	6.1	20	ND	ND		427939	NA
Freon 113	ETO15	NA	11/30/15	10	8.5	39	ND	ND		427939	NA
Carbon Disulfide	ETO15	NA	11/30/15	10	8.1	31	ND	ND		427939	NA
2-Propanol (Isopropyl Alcohol)	ETO15	NA	11/30/15	10	9.7	25	ND	ND		427939	NA
Methylene Chloride	ETO15	NA	11/30/15	10	5.8	280	ND	ND		427939	NA
Acetone	ETO15	NA	11/30/15	10	8.8	190	ND	ND		427939	NA
trans-1,2-Dichloroethene	ETO15	NA	11/30/15	10	6.4	20	ND	ND		427939	NA
Hexane	ETO15	NA	11/30/15	10	5.3	18	ND	ND		427939	NA
MTBE	ETO15	NA	11/30/15	10	8.7	18	ND	ND		427939	NA
tert-Butanol	ETO15	NA	11/30/15	10	9.1	84	ND	ND		427939	NA
Diisopropyl ether (DIPE)	ETO15	NA	11/30/15	10	8.8	21	ND	ND		427939	NA
1,1-Dichloroethane	ETO15	NA	11/30/15	10	7.5	21	ND	ND		427939	NA
ETBE	ETO15	NA	11/30/15	10	6.8	21	ND	ND		427939	NA
cis-1,2-Dichloroethene	ETO15	NA	11/30/15	10	5.4	20	ND	ND		427939	NA
Chloroform	ETO15	NA	11/30/15	10	12	49	ND	ND		427939	NA
Vinyl Acetate	ETO15	NA	11/30/15	10	5.7	18	ND	ND		427939	NA
Carbon Tetrachloride	ETO15	NA	11/30/15	10	8.6	32	ND	ND		427939	NA
1,1,1-Trichloroethane	ETO15	NA	11/30/15	10	8.5	28	ND	ND		427939	NA
2-Butanone (MEK)	ETO15	NA	11/30/15	10	6.3	15	ND	ND		427939	NA
Ethyl Acetate	ETO15	NA	11/30/15	10	7.4	18	ND	ND		427939	NA
Tetrahydrofuran	ETO15	NA	11/30/15	10	3.0	15	ND	ND		427939	NA
Benzene	ETO15	NA	11/30/15	10	6.9	16	ND	ND		427939	NA
TAME	ETO15	NA	11/30/15	10	3.6	21	ND	ND		427939	NA
1,2-Dichloroethane (EDC)	ETO15	NA	11/30/15	10	9.9	21	ND	ND		427939	NA
Trichloroethylene	ETO15	NA	11/30/15	10	14	54	ND	ND		427939	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	B31V	<b>Lab Sample ID:</b>	1511192-003A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/19/15 / 12:32	<b>Received PSI :</b>	14.2
<b>Canister/Tube ID:</b>	A7465	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	0.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
1,2-Dichloropropane	ETO15	NA	11/30/15	10	13	46	ND	ND		427939	NA
Bromodichloromethane	ETO15	NA	11/30/15	10	8.9	34	ND	ND		427939	NA
1,4-Dioxane	ETO15	NA	11/30/15	10	12	36	ND	ND		427939	NA
trans-1,3-Dichloropropene	ETO15	NA	11/30/15	10	8.7	23	ND	ND		427939	NA
Toluene	ETO15	NA	11/30/15	10	9.5	19	ND	ND		427939	NA
4-Methyl-2-Pentanone (MIBK)	ETO15	NA	11/30/15	10	8.5	21	ND	ND		427939	NA
cis-1,3-Dichloropropene	ETO15	NA	11/30/15	10	11	23	ND	ND		427939	NA
Tetrachloroethylene	ETO15	NA	11/30/15	10	9.1	34	ND	ND		427939	NA
1,1,2-Trichloroethane	ETO15	NA	11/30/15	10	9.3	28	ND	ND		427939	NA
Dibromochloromethane	ETO15	NA	11/30/15	10	17	43	ND	ND		427939	NA
1,2-Dibromoethane (EDB)	ETO15	NA	11/30/15	10	20	77	ND	ND		427939	NA

**NOTE:** The reporting limits were raised due to suppression of the internal standards used for peak quantitation during analysis of undiluted run.

**The results shown below are reported using their MDL.**

2-Hexanone	ETO15	NA	11/30/15	10	11	41	ND	ND		427939	NA
Ethyl Benzene	ETO15	NA	11/30/15	10	9.9	22	ND	ND		427939	NA
Chlorobenzene	ETO15	NA	11/30/15	10	7.1	23	ND	ND		427939	NA
1,1,1,2-Tetrachloroethane	ETO15	NA	11/30/15	10	10	35	ND	ND		427939	NA
m,p-Xylene	ETO15	NA	11/30/15	10	16	43	ND	ND		427939	NA
o-Xylene	ETO15	NA	11/30/15	10	8.1	22	ND	ND		427939	NA
Styrene	ETO15	NA	11/30/15	10	6.9	22	ND	ND		427939	NA
Bromoform	ETO15	NA	11/30/15	10	11	50	ND	ND		427939	NA
1,1,2,2-Tetrachloroethane	ETO15	NA	11/30/15	10	7.0	35	ND	ND		427939	NA
4-Ethyl Toluene	ETO15	NA	11/30/15	10	8.2	25	ND	ND		427939	NA
1,3,5-Trimethylbenzene	ETO15	NA	11/30/15	10	7.6	25	ND	ND		427939	NA
1,2,4-Trimethylbenzene	ETO15	NA	11/30/15	10	6.9	25	ND	ND		427939	NA
1,4-Dichlorobenzene	ETO15	NA	11/30/15	10	6.5	30	ND	ND		427939	NA
1,3-Dichlorobenzene	ETO15	NA	11/30/15	10	8.4	30	ND	ND		427939	NA
1,2-Dichlorobenzene	ETO15	NA	11/30/15	10	9.1	30	ND	ND		427939	NA
Hexachlorobutadiene	ETO15	NA	11/30/15	10	24	55	ND	ND		427939	NA
1,2,4-Trichlorobenzene	ETO15	NA	11/30/15	10	34	74	ND	ND		427939	NA
Naphthalene	ETO15	NA	11/30/15	10	15	52	ND	ND		427939	NA
(S) 4-Bromofluorobenzene	ETO15	NA	11/30/15	10	65	135	114 %			427939	NA





## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	B31V	<b>Lab Sample ID:</b>	1511192-003A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/19/15 / 12:32	<b>Received PSI :</b>	14.2
<b>Canister/Tube ID:</b>	A7465	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	0.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

TPH-Gasoline	ETO15	NA	11/30/15	10	400	1800	ND	ND		427941	NA
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**NOTE:** The reporting limits were raised due to suppression of the internal standards used for peak quantitation during analysis of undiluted run



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	B31V	<b>Lab Sample ID:</b>	1511192-004A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/20/15 / 8:18	<b>Received PSI :</b>	0.0
<b>Canister/Tube ID:</b>	GO143079	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	2.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ng/sample	Lab Qualifier	Analytical Batch	Prep Batch
Naphthalene	TO17_2	NA	11/24/15	1	10	20.0	ND	ND		427896	NA
(S) 4-Bromofluorobenzene	TO17_2	NA	11/24/15	1	50	150	59.00 %			427896	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	SG-1	<b>Lab Sample ID:</b>	1511192-005A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/19/15 / 14:28	<b>Received PSI :</b>	13.8
<b>Canister/Tube ID:</b>	6332	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	0.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
Dichlorodifluoromethane	ETO15	NA	11/24/15	1	1.5	5.0	ND	ND		427901	NA
1,1-Difluoroethane	ETO15	NA	11/24/15	1	0.50	1.4	ND	ND		427901	NA
1,2-Dichlorotetrafluoroethane	ETO15	NA	11/24/15	1	4.9	14	ND	ND		427901	NA
Chloromethane	ETO15	NA	11/24/15	1	0.32	1.1	ND	ND		427901	NA
Vinyl Chloride	ETO15	NA	11/24/15	1	0.67	2.6	ND	ND		427901	NA
1,3-Butadiene	ETO15	NA	11/24/15	1	0.45	1.1	ND	ND		427901	NA
Bromomethane	ETO15	NA	11/24/15	1	0.72	2.0	ND	ND		427901	NA
Chloroethane	ETO15	NA	11/24/15	1	0.50	1.3	ND	ND		427901	NA
Trichlorofluoromethane	ETO15	NA	11/24/15	1	1.8	5.6	ND	ND		427901	NA
1,1-Dichloroethene	ETO15	NA	11/24/15	1	0.61	2.0	ND	ND		427901	NA
Freon 113	ETO15	NA	11/24/15	1	0.85	3.9	ND	ND		427901	NA
Carbon Disulfide	ETO15	NA	11/24/15	1	0.81	3.1	ND	ND		427901	NA
2-Propanol (Isopropyl Alcohol)	ETO15	NA	11/24/15	1	0.97	2.5	74.3	29.72		427901	NA
Methylene Chloride	ETO15	NA	11/24/15	1	0.58	28	ND	ND		427901	NA
Acetone	ETO15	NA	11/24/15	1	0.88	19	36.3	15.13		427901	NA
trans-1,2-Dichloroethene	ETO15	NA	11/24/15	1	0.64	2.0	ND	ND		427901	NA
Hexane	ETO15	NA	11/24/15	1	0.53	1.8	ND	ND		427901	NA
MTBE	ETO15	NA	11/24/15	1	0.87	1.8	ND	ND		427901	NA
tert-Butanol	ETO15	NA	11/24/15	1	0.91	8.4	ND	ND		427901	NA
Diisopropyl ether (DIPE)	ETO15	NA	11/24/15	1	0.88	2.1	ND	ND		427901	NA
1,1-Dichloroethane	ETO15	NA	11/24/15	1	0.75	2.1	ND	ND		427901	NA
ETBE	ETO15	NA	11/24/15	1	0.68	2.1	ND	ND		427901	NA
cis-1,2-Dichloroethene	ETO15	NA	11/24/15	1	0.54	2.0	ND	ND		427901	NA
Chloroform	ETO15	NA	11/24/15	1	1.2	4.9	ND	ND		427901	NA
Vinyl Acetate	ETO15	NA	11/24/15	1	0.57	1.8	ND	ND		427901	NA
Carbon Tetrachloride	ETO15	NA	11/24/15	1	0.86	3.2	ND	ND		427901	NA
1,1,1-Trichloroethane	ETO15	NA	11/24/15	1	0.85	2.8	ND	ND		427901	NA
2-Butanone (MEK)	ETO15	NA	11/24/15	1	0.63	1.5	ND	ND		427901	NA
Ethyl Acetate	ETO15	NA	11/24/15	1	0.74	1.8	ND	ND		427901	NA
Tetrahydrofuran	ETO15	NA	11/24/15	1	0.30	1.5	ND	ND		427901	NA
Benzene	ETO15	NA	11/24/15	1	0.69	1.6	ND	ND		427901	NA
TAME	ETO15	NA	11/24/15	1	0.36	2.1	ND	ND		427901	NA
1,2-Dichloroethane (EDC)	ETO15	NA	11/24/15	1	0.99	2.1	ND	ND		427901	NA
Trichloroethylene	ETO15	NA	11/24/15	1	1.4	5.4	ND	ND		427901	NA
1,2-Dichloropropane	ETO15	NA	11/24/15	1	1.3	4.6	ND	ND		427901	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	SG-1	<b>Lab Sample ID:</b>	1511192-005A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/19/15 / 14:28	<b>Received PSI :</b>	13.8
<b>Canister/Tube ID:</b>	6332	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	0.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
Bromodichloromethane	ETO15	NA	11/24/15	1	0.89	3.4	ND	ND		427901	NA
1,4-Dioxane	ETO15	NA	11/24/15	1	1.2	3.6	ND	ND		427901	NA
trans-1,3-Dichloropropene	ETO15	NA	11/24/15	1	0.87	2.3	ND	ND		427901	NA
Toluene	ETO15	NA	11/24/15	1	0.95	1.9	6.27	1.65		427901	NA
4-Methyl-2-Pentanone (MIBK)	ETO15	NA	11/24/15	1	0.85	2.1	ND	ND		427901	NA
cis-1,3-Dichloropropene	ETO15	NA	11/24/15	1	1.1	2.3	ND	ND		427901	NA
Tetrachloroethylene	ETO15	NA	11/24/15	1	0.91	3.4	ND	ND		427901	NA
1,1,2-Trichloroethane	ETO15	NA	11/24/15	1	0.93	2.8	ND	ND		427901	NA
Dibromochloromethane	ETO15	NA	11/24/15	1	1.7	4.3	ND	ND		427901	NA
1,2-Dibromoethane (EDB)	ETO15	NA	11/24/15	1	2.0	7.7	ND	ND		427901	NA
2-Hexanone	ETO15	NA	11/24/15	1	1.1	4.1	ND	ND		427901	NA
Ethyl Benzene	ETO15	NA	11/24/15	1	0.99	2.2	4.39	1.02		427901	NA
Chlorobenzene	ETO15	NA	11/24/15	1	0.71	2.3	ND	ND		427901	NA
1,1,1,2-Tetrachloroethane	ETO15	NA	11/24/15	1	1.0	3.5	ND	ND		427901	NA
m,p-Xylene	ETO15	NA	11/24/15	1	1.6	4.3	29.0	6.74		427901	NA
o-Xylene	ETO15	NA	11/24/15	1	0.81	2.2	14.7	3.42		427901	NA
Styrene	ETO15	NA	11/24/15	1	0.69	2.2	ND	ND		427901	NA
Bromoform	ETO15	NA	11/24/15	1	1.1	5.0	ND	ND		427901	NA
1,1,2,2-Tetrachloroethane	ETO15	NA	11/24/15	1	0.70	3.5	ND	ND		427901	NA
4-Ethyl Toluene	ETO15	NA	11/24/15	1	0.82	2.5	12.5	2.55		427901	NA
1,3,5-Trimethylbenzene	ETO15	NA	11/24/15	1	0.76	2.5	ND	ND		427901	NA
1,2,4-Trimethylbenzene	ETO15	NA	11/24/15	1	0.69	2.5	13.8	2.82		427901	NA
1,4-Dichlorobenzene	ETO15	NA	11/24/15	1	0.65	3.0	ND	ND		427901	NA
1,3-Dichlorobenzene	ETO15	NA	11/24/15	1	0.84	3.0	ND	ND		427901	NA
1,2-Dichlorobenzene	ETO15	NA	11/24/15	1	0.91	3.0	ND	ND		427901	NA
Hexachlorobutadiene	ETO15	NA	11/24/15	1	2.4	5.5	ND	ND		427901	NA
1,2,4-Trichlorobenzene	ETO15	NA	11/24/15	1	3.4	7.4	ND	ND		427901	NA
Naphthalene	ETO15	NA	11/24/15	1	1.5	5.2	ND	ND		427901	NA
(S) 4-Bromofluorobenzene	ETO15	NA	11/24/15	1	65	135	111 %			427901	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	SG-1	<b>Lab Sample ID:</b>	1511192-005A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/19/15 / 14:28	<b>Received PSI :</b>	13.8
<b>Canister/Tube ID:</b>	6332	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	0.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
TPH-Gasoline	ETO15	NA	11/24/15	1	40	180	650	184.66	x	427942	NA

**NOTE:** x - Does not match pattern of reference Gasoline standard. Hydrocarbons within the range of C5-C12 quantified as Gasoline.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL %	PQL %	Results %	Results ppmv	Lab Qualifier	Analytical Batch	Prep Batch
Nitrogen	D1946	NA	11/30/15	150	6.45	7.50	79.1			427949	NA
Carbon Dioxide	D1946	NA	11/30/15	1.5	0.045	0.075	0.716			427949	NA
Ethene	D1946	NA	11/30/15	1.5	0.0165	0.0375	ND	ND		427949	NA
Ethane	D1946	NA	11/30/15	1.5	0.0210	0.0375	ND	ND		427949	NA
Oxygen	D1946	NA	11/30/15	1.5	0.0405	0.0750	18.4			427949	NA
Methane	D1946	NA	11/30/15	1.5	0.04	0.08	0.2			427949	NA
Carbon Monoxide	D1946	NA	11/30/15	1.5	0.0525	0.0750	0.732			427949	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	SG-1 DUP	<b>Lab Sample ID:</b>	1511192-006A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/19/15 / 14:28	<b>Received PSI :</b>	13.7
<b>Canister/Tube ID:</b>	A7563	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	0.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
Dichlorodifluoromethane	ETO15	NA	11/24/15	1	1.5	5.0	ND	ND		427901	NA
1,1-Difluoroethane	ETO15	NA	11/24/15	1	0.50	1.4	ND	ND		427901	NA
1,2-Dichlorotetrafluoroethane	ETO15	NA	11/24/15	1	4.9	14	ND	ND		427901	NA
Chloromethane	ETO15	NA	11/24/15	1	0.32	1.1	ND	ND		427901	NA
Vinyl Chloride	ETO15	NA	11/24/15	1	0.67	2.6	ND	ND		427901	NA
1,3-Butadiene	ETO15	NA	11/24/15	1	0.45	1.1	ND	ND		427901	NA
Bromomethane	ETO15	NA	11/24/15	1	0.72	2.0	ND	ND		427901	NA
Chloroethane	ETO15	NA	11/24/15	1	0.50	1.3	ND	ND		427901	NA
Trichlorofluoromethane	ETO15	NA	11/24/15	1	1.8	5.6	ND	ND		427901	NA
1,1-Dichloroethene	ETO15	NA	11/24/15	1	0.61	2.0	ND	ND		427901	NA
Freon 113	ETO15	NA	11/24/15	1	0.85	3.9	ND	ND		427901	NA
Carbon Disulfide	ETO15	NA	11/24/15	1	0.81	3.1	ND	ND		427901	NA
2-Propanol (Isopropyl Alcohol)	ETO15	NA	11/24/15	1	0.97	2.5	68.0	27.20		427901	NA
Methylene Chloride	ETO15	NA	11/24/15	1	0.58	28	ND	ND		427901	NA
Acetone	ETO15	NA	11/24/15	1	0.88	19	33.5	13.96		427901	NA
trans-1,2-Dichloroethene	ETO15	NA	11/24/15	1	0.64	2.0	ND	ND		427901	NA
Hexane	ETO15	NA	11/24/15	1	0.53	1.8	ND	ND		427901	NA
MTBE	ETO15	NA	11/24/15	1	0.87	1.8	ND	ND		427901	NA
tert-Butanol	ETO15	NA	11/24/15	1	0.91	8.4	ND	ND		427901	NA
Diisopropyl ether (DIPE)	ETO15	NA	11/24/15	1	0.88	2.1	ND	ND		427901	NA
1,1-Dichloroethane	ETO15	NA	11/24/15	1	0.75	2.1	ND	ND		427901	NA
ETBE	ETO15	NA	11/24/15	1	0.68	2.1	ND	ND		427901	NA
cis-1,2-Dichloroethene	ETO15	NA	11/24/15	1	0.54	2.0	ND	ND		427901	NA
Chloroform	ETO15	NA	11/24/15	1	1.2	4.9	ND	ND		427901	NA
Vinyl Acetate	ETO15	NA	11/24/15	1	0.57	1.8	ND	ND		427901	NA
Carbon Tetrachloride	ETO15	NA	11/24/15	1	0.86	3.2	ND	ND		427901	NA
1,1,1-Trichloroethane	ETO15	NA	11/24/15	1	0.85	2.8	ND	ND		427901	NA
2-Butanone (MEK)	ETO15	NA	11/24/15	1	0.63	1.5	ND	ND		427901	NA
Ethyl Acetate	ETO15	NA	11/24/15	1	0.74	1.8	ND	ND		427901	NA
Tetrahydrofuran	ETO15	NA	11/24/15	1	0.30	1.5	ND	ND		427901	NA
Benzene	ETO15	NA	11/24/15	1	0.69	1.6	ND	ND		427901	NA
TAME	ETO15	NA	11/24/15	1	0.36	2.1	ND	ND		427901	NA
1,2-Dichloroethane (EDC)	ETO15	NA	11/24/15	1	0.99	2.1	ND	ND		427901	NA
Trichloroethylene	ETO15	NA	11/24/15	1	1.4	5.4	ND	ND		427901	NA
1,2-Dichloropropane	ETO15	NA	11/24/15	1	1.3	4.6	ND	ND		427901	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	SG-1 DUP	<b>Lab Sample ID:</b>	1511192-006A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/19/15 / 14:28	<b>Received PSI :</b>	13.7
<b>Canister/Tube ID:</b>	A7563	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	0.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
Bromodichloromethane	ETO15	NA	11/24/15	1	0.89	3.4	ND	ND		427901	NA
1,4-Dioxane	ETO15	NA	11/24/15	1	1.2	3.6	ND	ND		427901	NA
trans-1,3-Dichloropropene	ETO15	NA	11/24/15	1	0.87	2.3	ND	ND		427901	NA
Toluene	ETO15	NA	11/24/15	1	0.95	1.9	7.07	1.86		427901	NA
4-Methyl-2-Pentanone (MIBK)	ETO15	NA	11/24/15	1	0.85	2.1	ND	ND		427901	NA
cis-1,3-Dichloropropene	ETO15	NA	11/24/15	1	1.1	2.3	ND	ND		427901	NA
Tetrachloroethylene	ETO15	NA	11/24/15	1	0.91	3.4	ND	ND		427901	NA
1,1,2-Trichloroethane	ETO15	NA	11/24/15	1	0.93	2.8	ND	ND		427901	NA
Dibromochloromethane	ETO15	NA	11/24/15	1	1.7	4.3	ND	ND		427901	NA
1,2-Dibromoethane (EDB)	ETO15	NA	11/24/15	1	2.0	7.7	ND	ND		427901	NA
2-Hexanone	ETO15	NA	11/24/15	1	1.1	4.1	ND	ND		427901	NA
Ethyl Benzene	ETO15	NA	11/24/15	1	0.99	2.2	3.96	0.92		427901	NA
Chlorobenzene	ETO15	NA	11/24/15	1	0.71	2.3	ND	ND		427901	NA
1,1,1,2-Tetrachloroethane	ETO15	NA	11/24/15	1	1.0	3.5	ND	ND		427901	NA
m,p-Xylene	ETO15	NA	11/24/15	1	1.6	4.3	28.3	6.58		427901	NA
o-Xylene	ETO15	NA	11/24/15	1	0.81	2.2	16.3	3.79		427901	NA
Styrene	ETO15	NA	11/24/15	1	0.69	2.2	ND	ND		427901	NA
Bromoform	ETO15	NA	11/24/15	1	1.1	5.0	ND	ND		427901	NA
1,1,2,2-Tetrachloroethane	ETO15	NA	11/24/15	1	0.70	3.5	ND	ND		427901	NA
4-Ethyl Toluene	ETO15	NA	11/24/15	1	0.82	2.5	11.3	2.31		427901	NA
1,3,5-Trimethylbenzene	ETO15	NA	11/24/15	1	0.76	2.5	ND	ND		427901	NA
1,2,4-Trimethylbenzene	ETO15	NA	11/24/15	1	0.69	2.5	12.9	2.63		427901	NA
1,4-Dichlorobenzene	ETO15	NA	11/24/15	1	0.65	3.0	ND	ND		427901	NA
1,3-Dichlorobenzene	ETO15	NA	11/24/15	1	0.84	3.0	ND	ND		427901	NA
1,2-Dichlorobenzene	ETO15	NA	11/24/15	1	0.91	3.0	ND	ND		427901	NA
Hexachlorobutadiene	ETO15	NA	11/24/15	1	2.4	5.5	ND	ND		427901	NA
1,2,4-Trichlorobenzene	ETO15	NA	11/24/15	1	3.4	7.4	ND	ND		427901	NA
Naphthalene	ETO15	NA	11/24/15	1	1.5	5.2	ND	ND		427901	NA
(S) 4-Bromofluorobenzene	ETO15	NA	11/24/15	1	65	135	114 %			427901	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	SG-1 DUP	<b>Lab Sample ID:</b>	1511192-006A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/19/15 / 14:28	<b>Received PSI :</b>	13.7
<b>Canister/Tube ID:</b>	A7563	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	0.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
TPH-Gasoline	ETO15	NA	11/24/15	1	40	180	560	159.09	x	427942	NA

**NOTE:** x - Does not match pattern of reference Gasoline standard. Hydrocarbons within the range of C5-C12 quantified as Gasoline.





## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	SG-1	<b>Lab Sample ID:</b>	1511192-007A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/20/15 / 11:30	<b>Received PSI :</b>	0.0
<b>Canister/Tube ID:</b>	GO141307	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	2.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ng/sample	Lab Qualifier	Analytical Batch	Prep Batch
Naphthalene	TO17_2	NA	11/24/15	1	10	20.0	ND	ND		427896	NA
(S) 4-Bromofluorobenzene	TO17_2	NA	11/24/15	1	50	150	61.000 %			427896	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b> SG-2	<b>Lab Sample ID:</b> 1511192-008A
<b>Project Name/Location:</b> 5930 College Ave, Oakland	<b>Sample Matrix:</b> Air
<b>Project Number:</b>	<b>Certified Clean WO # :</b>
<b>Date/Time Sampled:</b> 11/20/15 / 9:07	<b>Received PSI :</b> 13.7
<b>Canister/Tube ID:</b> 6319	<b>Corrected PSI :</b> 0.0
<b>Collection Volume (L):</b> 0.00	
<b>Tag Number:</b> 5930 College Ave	

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Dichlorodifluoromethane	ETO15	NA	11/24/15	2	3.0	10	ND	ND		427901	NA
1,1-Difluoroethane	ETO15	NA	11/24/15	2	1.0	2.7	ND	ND		427901	NA
1,2-Dichlorotetrafluoroethane	ETO15	NA	11/24/15	2	9.9	28	ND	ND		427901	NA
Chloromethane	ETO15	NA	11/24/15	2	0.64	2.1	ND	ND		427901	NA
Vinyl Chloride	ETO15	NA	11/24/15	2	1.3	5.2	ND	ND		427901	NA
1,3-Butadiene	ETO15	NA	11/24/15	2	0.89	2.2	ND	ND		427901	NA
Bromomethane	ETO15	NA	11/24/15	2	1.4	3.9	ND	ND		427901	NA
Chloroethane	ETO15	NA	11/24/15	2	1.0	2.6	ND	ND		427901	NA
Trichlorofluoromethane	ETO15	NA	11/24/15	2	3.6	11	ND	ND		427901	NA
1,1-Dichloroethene	ETO15	NA	11/24/15	2	1.2	4.0	ND	ND		427901	NA
Freon 113	ETO15	NA	11/24/15	2	1.7	7.7	ND	ND		427901	NA
Carbon Disulfide	ETO15	NA	11/24/15	2	1.6	6.2	ND	ND		427901	NA
Methylene Chloride	ETO15	NA	11/24/15	2	1.2	56	ND	ND		427901	NA
Acetone	ETO15	NA	11/24/15	2	1.8	38	107	44.58		427901	NA
trans-1,2-Dichloroethene	ETO15	NA	11/24/15	2	1.3	4.0	ND	ND		427901	NA
Hexane	ETO15	NA	11/24/15	2	1.1	3.5	1.12	0.32	J	427901	NA
MTBE	ETO15	NA	11/24/15	2	1.7	3.6	ND	ND		427901	NA
tert-Butanol	ETO15	NA	11/24/15	2	1.8	17	16.7	3.98	J	427901	NA
Diisopropyl ether (DIPE)	ETO15	NA	11/24/15	2	1.8	4.2	ND	ND		427901	NA
1,1-Dichloroethane	ETO15	NA	11/24/15	2	1.5	4.1	ND	ND		427901	NA
ETBE	ETO15	NA	11/24/15	2	1.4	4.2	ND	ND		427901	NA
cis-1,2-Dichloroethene	ETO15	NA	11/24/15	2	1.1	4.0	ND	ND		427901	NA
Chloroform	ETO15	NA	11/24/15	2	2.5	9.8	ND	ND		427901	NA
Vinyl Acetate	ETO15	NA	11/24/15	2	1.1	3.5	ND	ND		427901	NA
Carbon Tetrachloride	ETO15	NA	11/24/15	2	1.7	6.3	ND	ND		427901	NA
1,1,1-Trichloroethane	ETO15	NA	11/24/15	2	1.7	5.5	ND	ND		427901	NA
2-Butanone (MEK)	ETO15	NA	11/24/15	2	1.3	3.0	ND	ND		427901	NA
Ethyl Acetate	ETO15	NA	11/24/15	2	1.5	3.6	ND	ND		427901	NA
Tetrahydrofuran	ETO15	NA	11/24/15	2	0.60	3.0	ND	ND		427901	NA
Benzene	ETO15	NA	11/24/15	2	1.4	3.2	ND	ND		427901	NA
TAME	ETO15	NA	11/24/15	2	0.72	4.2	ND	ND		427901	NA
1,2-Dichloroethane (EDC)	ETO15	NA	11/24/15	2	2.0	4.1	ND	ND		427901	NA
Trichloroethylene	ETO15	NA	11/24/15	2	2.8	11	ND	ND		427901	NA
1,2-Dichloropropane	ETO15	NA	11/24/15	2	2.6	9.2	ND	ND		427901	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b> SG-2	<b>Lab Sample ID:</b> 1511192-008A
<b>Project Name/Location:</b> 5930 College Ave, Oakland	<b>Sample Matrix:</b> Air
<b>Project Number:</b>	<b>Certified Clean WO # :</b>
<b>Date/Time Sampled:</b> 11/20/15 / 9:07	<b>Received PSI :</b> 13.7
<b>Canister/Tube ID:</b> 6319	<b>Corrected PSI :</b> 0.0
<b>Collection Volume (L):</b> 0.00	
<b>Tag Number:</b> 5930 College Ave	

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
Bromodichloromethane	ETO15	NA	11/24/15	2	1.8	6.7	ND	ND		427901	NA
1,4-Dioxane	ETO15	NA	11/24/15	2	2.5	7.2	ND	ND		427901	NA
trans-1,3-Dichloropropene	ETO15	NA	11/24/15	2	1.7	4.5	ND	ND		427901	NA
Toluene	ETO15	NA	11/24/15	2	1.9	3.8	ND	ND		427901	NA
4-Methyl-2-Pentanone (MIBK)	ETO15	NA	11/24/15	2	1.7	4.1	ND	ND		427901	NA
cis-1,3-Dichloropropene	ETO15	NA	11/24/15	2	2.3	4.5	ND	ND		427901	NA
Tetrachloroethylene	ETO15	NA	11/24/15	2	1.8	6.8	ND	ND		427901	NA
1,1,2-Trichloroethane	ETO15	NA	11/24/15	2	1.9	5.5	ND	ND		427901	NA
Dibromochloromethane	ETO15	NA	11/24/15	2	3.5	8.5	ND	ND		427901	NA
1,2-Dibromoethane (EDB)	ETO15	NA	11/24/15	2	4.1	15	ND	ND		427901	NA

**NOTE:** The reporting limits were raised due to suppression of the internal standards used for peak quantitation during analysis of undiluted run.

2-Propanol (Isopropyl Alcohol)	ETO15	NA	11/30/15	5	4.9	13	28.4	11.36		427939	NA
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**The results shown below are reported using their MDL.**

2-Hexanone	ETO15	NA	11/24/15	2	2.2	8.2	ND	ND		427901	NA
Ethyl Benzene	ETO15	NA	11/24/15	2	2.0	4.3	ND	ND		427901	NA
Chlorobenzene	ETO15	NA	11/24/15	2	1.4	4.6	ND	ND		427901	NA
1,1,1,2-Tetrachloroethane	ETO15	NA	11/24/15	2	2.1	6.9	ND	ND		427901	NA
m,p-Xylene	ETO15	NA	11/24/15	2	3.2	8.6	17.8	4.14		427901	NA
o-Xylene	ETO15	NA	11/24/15	2	1.6	4.3	9.12	2.12		427901	NA
Styrene	ETO15	NA	11/24/15	2	1.4	4.4	ND	ND		427901	NA
Bromoform	ETO15	NA	11/24/15	2	2.2	10	ND	ND		427901	NA
1,1,2,2-Tetrachloroethane	ETO15	NA	11/24/15	2	1.4	6.9	ND	ND		427901	NA
4-Ethyl Toluene	ETO15	NA	11/24/15	2	1.6	4.9	5.10	1.04		427901	NA
1,3,5-Trimethylbenzene	ETO15	NA	11/24/15	2	1.5	4.9	ND	ND		427901	NA
1,2,4-Trimethylbenzene	ETO15	NA	11/24/15	2	1.4	4.9	5.00	1.02		427901	NA
1,4-Dichlorobenzene	ETO15	NA	11/24/15	2	1.3	6.0	ND	ND		427901	NA
1,3-Dichlorobenzene	ETO15	NA	11/24/15	2	1.7	6.0	ND	ND		427901	NA
1,2-Dichlorobenzene	ETO15	NA	11/24/15	2	1.8	6.0	ND	ND		427901	NA
Hexachlorobutadiene	ETO15	NA	11/24/15	2	4.8	11	ND	ND		427901	NA
1,2,4-Trichlorobenzene	ETO15	NA	11/24/15	2	6.8	15	ND	ND		427901	NA
Naphthalene	ETO15	NA	11/24/15	2	2.9	10	ND	ND		427901	NA
(S) 4-Bromofluorobenzene	ETO15	NA	11/24/15	2	65	135	109 %			427901	NA
(S) 4-Bromofluorobenzene	ETO15	NA	11/30/15	5	65	135	102 %			427939	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	SG-2	<b>Lab Sample ID:</b>	1511192-008A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/20/15 / 9:07	<b>Received PSI :</b>	13.7
<b>Canister/Tube ID:</b>	6319	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	0.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
TPH-Gasoline	ETO15	NA	11/24/15	2	80	350	430	122.16	x	427942	NA

**NOTE:** x - Does not match pattern of reference Gasoline standard. Hydrocarbons within the range of C5-C12 quantified as Gasoline.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL %	PQL %	Results %	Results ppmv	Lab Qualifier	Analytical Batch	Prep Batch
Nitrogen	D1946	NA	11/30/15	200	8.60	10.0	62.2			427949	NA
Carbon Dioxide	D1946	NA	11/30/15	2	0.060	0.100	1.06			427949	NA
Ethene	D1946	NA	11/30/15	2	0.0220	0.0500	ND	ND		427949	NA
Ethane	D1946	NA	11/30/15	2	0.0280	0.0500	ND	ND		427949	NA
Oxygen	D1946	NA	11/30/15	2	0.0540	0.100	13.5			427949	NA
Methane	D1946	NA	11/30/15	2	0.06	0.1	ND	ND		427949	NA
Carbon Monoxide	D1946	NA	11/30/15	2	0.0700	0.100	ND	ND		427949	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	SG-2LC	<b>Lab Sample ID:</b>	1511192-009A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/20/15 / 9:07	<b>Received PSI :</b>	14.1
<b>Canister/Tube ID:</b>	A7568	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	0.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
2-Propanol (Isopropyl Alcohol)	ETO15	NA	11/30/15	2000	1900	4900	94300	38,333.33		427939	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	SG-2	<b>Lab Sample ID:</b>	1511192-010A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/20/15 / 9:40	<b>Received PSI :</b>	0.0
<b>Canister/Tube ID:</b>	236120	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	2.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ng/sample	Lab Qualifier	Analytical Batch	Prep Batch
Naphthalene	TO17_2	NA	11/24/15	1	10	20.0	ND	ND		427896	NA
(S) 4-Bromofluorobenzene	TO17_2	NA	11/24/15	1	50	150	65.000 %			427896	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	SG-3	<b>Lab Sample ID:</b>	1511192-011A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/19/15 / 13:33	<b>Received PSI :</b>	14.9
<b>Canister/Tube ID:</b>	6328	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	0.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Dichlorodifluoromethane	ETO15	NA	11/24/15	2	3.0	10	ND	ND		427901	NA
1,1-Difluoroethane	ETO15	NA	11/24/15	2	1.0	2.7	ND	ND		427901	NA
1,2-Dichlorotetrafluoroethane	ETO15	NA	11/24/15	2	9.9	28	ND	ND		427901	NA
Chloromethane	ETO15	NA	11/24/15	2	0.64	2.1	0.840	0.40	J	427901	NA
Vinyl Chloride	ETO15	NA	11/24/15	2	1.3	5.2	ND	ND		427901	NA
1,3-Butadiene	ETO15	NA	11/24/15	2	0.89	2.2	ND	ND		427901	NA
Bromomethane	ETO15	NA	11/24/15	2	1.4	3.9	ND	ND		427901	NA
Chloroethane	ETO15	NA	11/24/15	2	1.0	2.6	ND	ND		427901	NA
Trichlorofluoromethane	ETO15	NA	11/24/15	2	3.6	11	ND	ND		427901	NA
1,1-Dichloroethene	ETO15	NA	11/24/15	2	1.2	4.0	ND	ND		427901	NA
Freon 113	ETO15	NA	11/24/15	2	1.7	7.7	ND	ND		427901	NA
Carbon Disulfide	ETO15	NA	11/24/15	2	1.6	6.2	ND	ND		427901	NA
2-Propanol (Isopropyl Alcohol)	ETO15	NA	11/24/15	2	1.9	5.0	22.4	8.96		427901	NA
Methylene Chloride	ETO15	NA	11/24/15	2	1.2	56	ND	ND		427901	NA
Acetone	ETO15	NA	11/24/15	2	1.8	38	80.3	33.46		427901	NA
trans-1,2-Dichloroethene	ETO15	NA	11/24/15	2	1.3	4.0	ND	ND		427901	NA
Hexane	ETO15	NA	11/24/15	2	1.1	3.5	ND	ND		427901	NA
MTBE	ETO15	NA	11/24/15	2	1.7	3.6	ND	ND		427901	NA
tert-Butanol	ETO15	NA	11/24/15	2	1.8	17	8.15	1.94	J	427901	NA
Diisopropyl ether (DIPE)	ETO15	NA	11/24/15	2	1.8	4.2	ND	ND		427901	NA
1,1-Dichloroethane	ETO15	NA	11/24/15	2	1.5	4.1	ND	ND		427901	NA
ETBE	ETO15	NA	11/24/15	2	1.4	4.2	ND	ND		427901	NA
cis-1,2-Dichloroethene	ETO15	NA	11/24/15	2	1.1	4.0	ND	ND		427901	NA
Chloroform	ETO15	NA	11/24/15	2	2.5	9.8	ND	ND		427901	NA
Vinyl Acetate	ETO15	NA	11/24/15	2	1.1	3.5	ND	ND		427901	NA
Carbon Tetrachloride	ETO15	NA	11/24/15	2	1.7	6.3	ND	ND		427901	NA
1,1,1-Trichloroethane	ETO15	NA	11/24/15	2	1.7	5.5	ND	ND		427901	NA
2-Butanone (MEK)	ETO15	NA	11/24/15	2	1.3	3.0	ND	ND		427901	NA
Ethyl Acetate	ETO15	NA	11/24/15	2	1.5	3.6	ND	ND		427901	NA
Tetrahydrofuran	ETO15	NA	11/24/15	2	0.60	3.0	ND	ND		427901	NA
Benzene	ETO15	NA	11/24/15	2	1.4	3.2	ND	ND		427901	NA
TAME	ETO15	NA	11/24/15	2	0.72	4.2	ND	ND		427901	NA
1,2-Dichloroethane (EDC)	ETO15	NA	11/24/15	2	2.0	4.1	ND	ND		427901	NA
Trichloroethylene	ETO15	NA	11/24/15	2	2.8	11	ND	ND		427901	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	SG-3	<b>Lab Sample ID:</b>	1511192-011A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/19/15 / 13:33	<b>Received PSI :</b>	14.9
<b>Canister/Tube ID:</b>	6328	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	0.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
1,2-Dichloropropane	ETO15	NA	11/24/15	2	2.6	9.2	ND	ND		427901	NA
Bromodichloromethane	ETO15	NA	11/24/15	2	1.8	6.7	ND	ND		427901	NA
1,4-Dioxane	ETO15	NA	11/24/15	2	2.5	7.2	ND	ND		427901	NA
trans-1,3-Dichloropropene	ETO15	NA	11/24/15	2	1.7	4.5	ND	ND		427901	NA
Toluene	ETO15	NA	11/24/15	2	1.9	3.8	10.6	2.79		427901	NA
4-Methyl-2-Pentanone (MIBK)	ETO15	NA	11/24/15	2	1.7	4.1	ND	ND		427901	NA
cis-1,3-Dichloropropene	ETO15	NA	11/24/15	2	2.3	4.5	ND	ND		427901	NA
Tetrachloroethylene	ETO15	NA	11/24/15	2	1.8	6.8	385	56.62		427901	NA
1,1,2-Trichloroethane	ETO15	NA	11/24/15	2	1.9	5.5	ND	ND		427901	NA
Dibromochloromethane	ETO15	NA	11/24/15	2	3.5	8.5	ND	ND		427901	NA
1,2-Dibromoethane (EDB)	ETO15	NA	11/24/15	2	4.1	15	ND	ND		427901	NA

**NOTE:** The reporting limits were raised due to suppression of the internal standards used for peak quantitation during analysis of undiluted run.

**The results shown below are reported using their MDL.**

2-Hexanone	ETO15	NA	11/24/15	2	2.2	8.2	ND	ND		427901	NA
Ethyl Benzene	ETO15	NA	11/24/15	2	2.0	4.3	7.91	1.84		427901	NA
Chlorobenzene	ETO15	NA	11/24/15	2	1.4	4.6	ND	ND		427901	NA
1,1,1,2-Tetrachloroethane	ETO15	NA	11/24/15	2	2.1	6.9	ND	ND		427901	NA
m,p-Xylene	ETO15	NA	11/24/15	2	3.2	8.6	59.9	13.93		427901	NA
o-Xylene	ETO15	NA	11/24/15	2	1.6	4.3	30.1	7.00		427901	NA
Styrene	ETO15	NA	11/24/15	2	1.4	4.4	ND	ND		427901	NA
Bromoform	ETO15	NA	11/24/15	2	2.2	10	ND	ND		427901	NA
1,1,2,2-Tetrachloroethane	ETO15	NA	11/24/15	2	1.4	6.9	ND	ND		427901	NA
4-Ethyl Toluene	ETO15	NA	11/24/15	2	1.6	4.9	23.4	4.78		427901	NA
1,3,5-Trimethylbenzene	ETO15	NA	11/24/15	2	1.5	4.9	2.45	0.50	J	427901	NA
1,2,4-Trimethylbenzene	ETO15	NA	11/24/15	2	1.4	4.9	26.8	5.47		427901	NA
1,4-Dichlorobenzene	ETO15	NA	11/24/15	2	1.3	6.0	ND	ND		427901	NA
1,3-Dichlorobenzene	ETO15	NA	11/24/15	2	1.7	6.0	ND	ND		427901	NA
1,2-Dichlorobenzene	ETO15	NA	11/24/15	2	1.8	6.0	ND	ND		427901	NA
Hexachlorobutadiene	ETO15	NA	11/24/15	2	4.8	11	ND	ND		427901	NA
1,2,4-Trichlorobenzene	ETO15	NA	11/24/15	2	6.8	15	ND	ND		427901	NA
Naphthalene	ETO15	NA	11/24/15	2	2.9	10	ND	ND		427901	NA
(S) 4-Bromofluorobenzene	ETO15	NA	11/24/15	2	65	135	112 %			427901	NA





## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	SG-3	<b>Lab Sample ID:</b>	1511192-011A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/19/15 / 13:33	<b>Received PSI :</b>	14.9
<b>Canister/Tube ID:</b>	6328	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	0.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
TPH-Gasoline	ETO15	NA	11/24/15	2	80	350	1400	397.73	x	427942	NA

**NOTE:** x - Does not match pattern of reference Gasoline standard. Hydrocarbons within the range of C5-C12 quantified as Gasoline.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL %	PQL %	Results %	Results ppmv	Lab Qualifier	Analytical Batch	Prep Batch
Nitrogen	D1946	NA	11/30/15	186	8.00	9.30	78.1			427949	NA
Carbon Dioxide	D1946	NA	11/30/15	2	0.060	0.100	5.94			427949	NA
Ethene	D1946	NA	11/30/15	2	0.0220	0.0500	ND	ND		427949	NA
Ethane	D1946	NA	11/30/15	2	0.0280	0.0500	ND	ND		427949	NA
Oxygen	D1946	NA	11/30/15	2	0.0540	0.100	20.3			427949	NA
Methane	D1946	NA	11/30/15	2	0.06	0.1	ND	ND		427949	NA
Carbon Monoxide	D1946	NA	11/30/15	2	0.0700	0.100	ND	ND		427949	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	SG-3	<b>Lab Sample ID:</b>	1511192-012A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/20/15 / 12:05	<b>Received PSI :</b>	0.0
<b>Canister/Tube ID:</b>	GO141351	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	2.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ng/sample	Lab Qualifier	Analytical Batch	Prep Batch
Naphthalene	TO17_2	NA	11/24/15	1	10	20.0	ND	ND		427896	NA
(S) 4-Bromofluorobenzene	TO17_2	NA	11/24/15	1	50	150	65.500 %			427896	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	SSV-1	<b>Lab Sample ID:</b>	1511192-013A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/19/15 / 10:24	<b>Received PSI :</b>	14.0
<b>Canister/Tube ID:</b>	A7548	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	0.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
Dichlorodifluoromethane	ETO15	NA	11/24/15	1	1.5	5.0	ND	ND		427901	NA
1,1-Difluoroethane	ETO15	NA	11/24/15	1	0.50	1.4	ND	ND		427901	NA
1,2-Dichlorotetrafluoroethane	ETO15	NA	11/24/15	1	4.9	14	ND	ND		427901	NA
Chloromethane	ETO15	NA	11/24/15	1	0.32	1.1	ND	ND		427901	NA
Vinyl Chloride	ETO15	NA	11/24/15	1	0.67	2.6	ND	ND		427901	NA
1,3-Butadiene	ETO15	NA	11/24/15	1	0.45	1.1	ND	ND		427901	NA
Bromomethane	ETO15	NA	11/24/15	1	0.72	2.0	ND	ND		427901	NA
Chloroethane	ETO15	NA	11/24/15	1	0.50	1.3	ND	ND		427901	NA
Trichlorofluoromethane	ETO15	NA	11/24/15	1	1.8	5.6	ND	ND		427901	NA
1,1-Dichloroethene	ETO15	NA	11/24/15	1	0.61	2.0	ND	ND		427901	NA
Freon 113	ETO15	NA	11/24/15	1	0.85	3.9	ND	ND		427901	NA
Carbon Disulfide	ETO15	NA	11/24/15	1	0.81	3.1	ND	ND		427901	NA
2-Propanol (Isopropyl Alcohol)	ETO15	NA	11/24/15	1	0.97	20	ND	ND		427901	NA
Methylene Chloride	ETO15	NA	11/24/15	1	0.58	28	ND	ND		427901	NA
Acetone	ETO15	NA	11/24/15	1	0.88	19	80.0	33.33		427901	NA
trans-1,2-Dichloroethene	ETO15	NA	11/24/15	1	0.64	2.0	ND	ND		427901	NA
Hexane	ETO15	NA	11/24/15	1	0.53	1.8	ND	ND		427901	NA
MTBE	ETO15	NA	11/24/15	1	0.87	1.8	ND	ND		427901	NA
tert-Butanol	ETO15	NA	11/24/15	1	0.91	8.4	ND	ND		427901	NA
Diisopropyl ether (DIPE)	ETO15	NA	11/24/15	1	0.88	2.1	ND	ND		427901	NA
1,1-Dichloroethane	ETO15	NA	11/24/15	1	0.75	2.1	ND	ND		427901	NA
ETBE	ETO15	NA	11/24/15	1	0.68	2.1	ND	ND		427901	NA
cis-1,2-Dichloroethene	ETO15	NA	11/24/15	1	0.54	2.0	ND	ND		427901	NA
Chloroform	ETO15	NA	11/24/15	1	1.2	4.9	ND	ND		427901	NA
Vinyl Acetate	ETO15	NA	11/24/15	1	0.57	1.8	ND	ND		427901	NA
Carbon Tetrachloride	ETO15	NA	11/24/15	1	0.86	3.2	ND	ND		427901	NA
1,1,1-Trichloroethane	ETO15	NA	11/24/15	1	0.85	2.8	ND	ND		427901	NA
2-Butanone (MEK)	ETO15	NA	11/24/15	1	0.63	1.5	ND	ND		427901	NA
Ethyl Acetate	ETO15	NA	11/24/15	1	0.74	1.8	ND	ND		427901	NA
Tetrahydrofuran	ETO15	NA	11/24/15	1	0.30	1.5	ND	ND		427901	NA
Benzene	ETO15	NA	11/24/15	1	0.69	1.6	ND	ND		427901	NA
TAME	ETO15	NA	11/24/15	1	0.36	2.1	ND	ND		427901	NA
1,2-Dichloroethane (EDC)	ETO15	NA	11/24/15	1	0.99	2.1	ND	ND		427901	NA
Trichloroethylene	ETO15	NA	11/24/15	1	1.4	5.4	ND	ND		427901	NA
1,2-Dichloropropane	ETO15	NA	11/24/15	1	1.3	4.6	ND	ND		427901	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b> SSV-1	<b>Lab Sample ID:</b> 1511192-013A
<b>Project Name/Location:</b> 5930 College Ave, Oakland	<b>Sample Matrix:</b> Air
<b>Project Number:</b>	<b>Certified Clean WO # :</b>
<b>Date/Time Sampled:</b> 11/19/15 / 10:24	<b>Received PSI :</b> 14.0
<b>Canister/Tube ID:</b> A7548	<b>Corrected PSI :</b> 0.0
<b>Collection Volume (L):</b> 0.00	
<b>Tag Number:</b> 5930 College Ave	

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
Bromodichloromethane	ETO15	NA	11/24/15	1	0.89	3.4	ND	ND		427901	NA
1,4-Dioxane	ETO15	NA	11/24/15	1	1.2	3.6	ND	ND		427901	NA
trans-1,3-Dichloropropene	ETO15	NA	11/24/15	1	0.87	2.3	ND	ND		427901	NA
Toluene	ETO15	NA	11/24/15	1	0.95	1.9	ND	ND		427901	NA
4-Methyl-2-Pentanone (MIBK)	ETO15	NA	11/24/15	1	0.85	2.1	ND	ND		427901	NA
cis-1,3-Dichloropropene	ETO15	NA	11/24/15	1	1.1	2.3	ND	ND		427901	NA
Tetrachloroethylene	ETO15	NA	11/24/15	1	0.91	3.4	ND	ND		427901	NA
1,1,2-Trichloroethane	ETO15	NA	11/24/15	1	0.93	2.8	ND	ND		427901	NA
Dibromochloromethane	ETO15	NA	11/24/15	1	1.7	4.3	ND	ND		427901	NA
1,2-Dibromoethane (EDB)	ETO15	NA	11/24/15	1	2.0	7.7	ND	ND		427901	NA
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2-Hexanone	ETO15	NA	11/24/15	1	1.1	4.1	ND	ND		427901	NA
Ethyl Benzene	ETO15	NA	11/24/15	1	0.99	2.2	ND	ND		427901	NA
Chlorobenzene	ETO15	NA	11/24/15	1	0.71	2.3	ND	ND		427901	NA
1,1,1,2-Tetrachloroethane	ETO15	NA	11/24/15	1	1.0	3.5	ND	ND		427901	NA
m,p-Xylene	ETO15	NA	11/24/15	1	1.6	4.3	ND	ND		427901	NA
o-Xylene	ETO15	NA	11/24/15	1	0.81	2.2	ND	ND		427901	NA
Styrene	ETO15	NA	11/24/15	1	0.69	2.2	ND	ND		427901	NA
Bromoform	ETO15	NA	11/24/15	1	1.1	5.0	ND	ND		427901	NA
1,1,2,2-Tetrachloroethane	ETO15	NA	11/24/15	1	0.70	3.5	ND	ND		427901	NA
4-Ethyl Toluene	ETO15	NA	11/24/15	1	0.82	2.5	ND	ND		427901	NA
1,3,5-Trimethylbenzene	ETO15	NA	11/24/15	1	0.76	2.5	ND	ND		427901	NA
1,2,4-Trimethylbenzene	ETO15	NA	11/24/15	1	0.69	2.5	ND	ND		427901	NA
1,4-Dichlorobenzene	ETO15	NA	11/24/15	1	0.65	3.0	ND	ND		427901	NA
1,3-Dichlorobenzene	ETO15	NA	11/24/15	1	0.84	3.0	ND	ND		427901	NA
1,2-Dichlorobenzene	ETO15	NA	11/24/15	1	0.91	3.0	ND	ND		427901	NA
Hexachlorobutadiene	ETO15	NA	11/24/15	1	2.4	5.5	ND	ND		427901	NA
1,2,4-Trichlorobenzene	ETO15	NA	11/24/15	1	3.4	7.4	ND	ND		427901	NA
Naphthalene	ETO15	NA	11/24/15	1	1.5	5.2	ND	ND		427901	NA
(S) 4-Bromofluorobenzene	ETO15	NA	11/24/15	1	65	135	108 %			427901	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
TPH-Gasoline	ETO15	NA	11/24/15	1	40	180	ND	ND		427942	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	SSV-1	<b>Lab Sample ID:</b>	1511192-013A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/19/15 / 10:24	<b>Received PSI :</b>	14.0
<b>Canister/Tube ID:</b>	A7548	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	0.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL %	PQL %	Results %	Results ppmv	Lab Qualifier	Analytical Batch	Prep Batch
Nitrogen	D1946	NA	11/30/15	171	7.35	8.55	77.0			427949	NA
Carbon Dioxide	D1946	NA	11/30/15	1.5	0.045	0.075	0.338			427949	NA
Ethene	D1946	NA	11/30/15	1.5	0.0165	0.0375	ND	ND		427949	NA
Ethane	D1946	NA	11/30/15	1.5	0.0210	0.0375	ND	ND		427949	NA
Oxygen	D1946	NA	11/30/15	1.5	0.0405	0.0750	20.9			427949	NA
Methane	D1946	NA	11/30/15	1.5	0.04	0.08	ND	ND		427949	NA
Carbon Monoxide	D1946	NA	11/30/15	1.5	0.0525	0.0750	ND	ND		427949	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Tank Removal

**Date Received:** 11/23/15  
**Date Reported:** 02/02/16

<b>Client Sample ID:</b>	SSV-1	<b>Lab Sample ID:</b>	1511192-014A
<b>Project Name/Location:</b>	5930 College Ave, Oakland	<b>Sample Matrix:</b>	Air
<b>Project Number:</b>		<b>Certified Clean WO # :</b>	
<b>Date/Time Sampled:</b>	11/20/15 / 10:55	<b>Received PSI :</b>	0.0
<b>Canister/Tube ID:</b>	253244	<b>Corrected PSI :</b>	0.0
<b>Collection Volume (L):</b>	2.00		
<b>Tag Number:</b>	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ng/sample	Lab Qualifier	Analytical Batch	Prep Batch
Naphthalene	TO17_2	NA	11/24/15	1	10	20.0	ND	ND		427896	NA
(S) 4-Bromofluorobenzene	TO17_2	NA	11/24/15	1	50	150	65.500 %			427896	NA



## MB Summary Report

<b>Work Order:</b>	1511192	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Air	<b>Analytical Method:</b>	ETO17	<b>Analyzed Date:</b>	11/24/15	<b>Analytical Batch:</b>	427896
<b>Units:</b>	ng						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
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Naphthalene	5.0	10	ND		
(S) 4-Bromofluorobenzene			115		

<b>Work Order:</b>	1511192	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Air	<b>Analytical Method:</b>	ETO15	<b>Analyzed Date:</b>	11/24/15	<b>Analytical Batch:</b>	427901
<b>Units:</b>	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
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Dichlorodifluoromethane	0.30	1.00	ND		
1,1-Difluoroethane	0.18	10.0	ND		
1,2-Dichlorotetrafluoroethane	0.70	2.00	ND		
Chloromethane	0.15	0.500	ND		
Vinyl Chloride	0.26	1.00	ND		
1,3-Butadiene	0.20	0.500	ND		
Bromomethane	0.18	0.500	ND		
Chloroethane	0.19	0.500	ND		
Trichlorofluoromethane	0.32	1.00	ND		
1,1-Dichloroethene	0.15	0.500	ND		
Freon 113	0.11	0.500	ND		
Carbon Disulfide	0.26	1.00	ND		
2-Propanol (Isopropyl Alcohol)	0.39	10.0	ND		
Methylene Chloride	0.17	8.00	ND		
Acetone	0.37	8.00	ND		
trans-1,2-Dichloroethene	0.16	0.500	ND		
Hexane	0.15	0.500	ND		
MTBE	0.24	0.500	ND		
tert-Butanol	0.22	2.00	ND		
Diisopropyl ether (DIPE)	0.21	0.500	ND		
1,1-Dichloroethane	0.18	0.500	ND		
ETBE	0.16	0.500	ND		
cis-1,2-Dichloroethene	0.13	0.500	ND		
Chloroform	0.25	1.00	ND		
Vinyl Acetate	0.16	0.500	ND		
Carbon Tetrachloride	0.14	0.500	ND		
1,1,1-Trichloroethane	0.15	0.500	ND		
2-Butanone (MEK)	0.21	0.500	ND		
Ethyl Acetate	0.21	0.500	ND		
Tetrahydrofuran	0.10	0.500	ND		



## MB Summary Report

<b>Work Order:</b>	1511192	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Air	<b>Analytical Method:</b>	ETO15	<b>Analyzed Date:</b>	11/24/15	<b>Analytical Batch:</b>	427901
<b>Units:</b>	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Benzene	0.21	0.500	ND		
TAME	0.086	0.500	ND		
1,2-Dichloroethane (EDC)	0.24	0.500	ND		
Trichloroethylene	0.26	1.00	ND		
1,2-Dichloropropane	0.29	1.00	ND		
Bromodichloromethane	0.13	0.500	ND		
1,4-Dioxane	0.35	1.00	ND		
trans-1,3-Dichloropropene	0.19	0.500	ND		
Toluene	0.25	0.500	ND		
4-Methyl-2-Pentanone (MIBK)	0.21	0.500	ND		
cis-1,3-Dichloropropene	0.25	0.500	ND		
Tetrachloroethylene	0.13	0.500	ND		
1,1,2-Trichloroethane	0.17	0.500	ND		
Dibromochloromethane	0.20	0.500	ND		
1,2-Dibromoethane (EDB)	0.27	1.00	ND		
2-Hexanone	0.27	1.00	ND		
Ethyl Benzene	0.23	0.500	ND		
Chlorobenzene	0.15	0.500	ND		
1,1,1,2-Tetrachloroethane	0.15	0.500	ND		
m,p-Xylene	0.38	1.00	ND		
o-Xylene	0.19	0.500	ND		
Styrene	0.16	0.500	ND		
Bromoform	0.11	0.500	ND		
1,1,1,2-Tetrachloroethane	0.10	0.500	ND		
4-Ethyl Toluene	0.17	0.500	ND		
1,3,5-Trimethylbenzene	0.15	0.500	ND		
1,2,4-Trimethylbenzene	0.14	0.500	ND		
1,4-Dichlorobenzene	0.11	0.500	ND		
1,3-Dichlorobenzene	0.14	0.500	ND		
1,2-Dichlorobenzene	0.15	0.500	ND		
Hexachlorobutadiene	0.22	0.500	ND		
1,2,4-Trichlorobenzene	0.46	1.00	ND		
Naphthalene	0.28	1.00	ND		
(S) 4-Bromofluorobenzene			107		





## MB Summary Report

<b>Work Order:</b>	1511192	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Air	<b>Analytical Method:</b>	ETO15	<b>Analyzed Date:</b>	11/25/15	<b>Analytical Batch:</b>	427921
<b>Units:</b>	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.30	1.00	ND		
1,1-Difluoroethane	0.18	10.0	ND		
1,2-Dichlorotetrafluoroethane	0.70	2.00	ND		
Chloromethane	0.15	0.500	ND		
Vinyl Chloride	0.26	1.00	ND		
1,3-Butadiene	0.20	0.500	ND		
Bromomethane	0.18	0.500	ND		
Chloroethane	0.19	0.500	ND		
Trichlorofluoromethane	0.32	1.00	ND		
1,1-Dichloroethene	0.15	0.500	ND		
Freon 113	0.11	0.500	ND		
Carbon Disulfide	0.26	1.00	ND		
2-Propanol (Isopropyl Alcohol)	0.39	10.0	0.760		
Methylene Chloride	0.17	8.00	ND		
Acetone	0.37	8.00	ND		
trans-1,2-Dichloroethene	0.16	0.500	ND		
Hexane	0.15	0.500	ND		
MTBE	0.24	0.500	ND		
tert-Butanol	0.22	2.00	ND		
Diisopropyl ether (DIPE)	0.21	0.500	ND		
1,1-Dichloroethane	0.18	0.500	ND		
ETBE	0.16	0.500	ND		
cis-1,2-Dichloroethene	0.13	0.500	ND		
Chloroform	0.25	1.00	ND		
Vinyl Acetate	0.16	0.500	ND		
Carbon Tetrachloride	0.14	0.500	ND		
1,1,1-Trichloroethane	0.15	0.500	ND		
2-Butanone (MEK)	0.21	0.500	ND		
Ethyl Acetate	0.21	0.500	ND		
Tetrahydrofuran	0.10	0.500	ND		
Benzene	0.21	0.500	ND		
TAME	0.086	0.500	ND		
1,2-Dichloroethane (EDC)	0.24	0.500	ND		
Trichloroethylene	0.26	1.00	ND		
1,2-Dichloropropane	0.29	1.00	ND		
Bromodichloromethane	0.13	0.500	ND		
1,4-Dioxane	0.35	1.00	ND		
trans-1,3-Dichloropropene	0.19	0.500	ND		
Toluene	0.25	0.500	ND		
4-Methyl-2-Pentanone (MIBK)	0.21	0.500	ND		
cis-1,3-Dichloropropene	0.25	0.500	ND		



## MB Summary Report

<b>Work Order:</b>	1511192	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Air	<b>Analytical Method:</b>	ETO15	<b>Analyzed Date:</b>	11/25/15	<b>Analytical Batch:</b>	427921
<b>Units:</b>	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Tetrachloroethylene	0.13	0.500	ND		
1,1,2-Trichloroethane	0.17	0.500	ND		
Dibromochloromethane	0.20	0.500	ND		
1,2-Dibromoethane (EDB)	0.27	1.00	ND		
2-Hexanone	0.27	1.00	ND		
Ethyl Benzene	0.23	0.500	ND		
Chlorobenzene	0.15	0.500	ND		
1,1,1,2-Tetrachloroethane	0.15	0.500	ND		
m,p-Xylene	0.38	1.00	ND		
o-Xylene	0.19	0.500	ND		
Styrene	0.16	0.500	ND		
Bromoform	0.11	0.500	ND		
1,1,2,2-Tetrachloroethane	0.10	0.500	ND		
4-Ethyl Toluene	0.17	0.500	ND		
1,3,5-Trimethylbenzene	0.15	0.500	ND		
1,2,4-Trimethylbenzene	0.14	0.500	ND		
1,4-Dichlorobenzene	0.11	0.500	ND		
1,3-Dichlorobenzene	0.14	0.500	ND		
1,2-Dichlorobenzene	0.15	0.500	ND		
Hexachlorobutadiene	0.22	0.500	ND		
1,2,4-Trichlorobenzene	0.46	1.00	ND		
Naphthalene	0.28	1.00	ND		
(S) 4-Bromofluorobenzene			104		



## MB Summary Report

<b>Work Order:</b>	1511192	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Air	<b>Analytical Method:</b>	ETO15	<b>Analyzed Date:</b>	11/30/15	<b>Analytical Batch:</b>	427939
<b>Units:</b>	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.30	1.00	ND		
1,1-Difluoroethane	0.18	10.0	ND		
1,2-Dichlorotetrafluoroethane	0.70	2.00	ND		
Chloromethane	0.15	0.500	ND		
Vinyl Chloride	0.26	1.00	ND		
1,3-Butadiene	0.20	0.500	ND		
Bromomethane	0.18	0.500	ND		
Chloroethane	0.19	0.500	ND		
Trichlorofluoromethane	0.32	1.00	ND		
1,1-Dichloroethene	0.15	0.500	ND		
Freon 113	0.11	0.500	ND		
Carbon Disulfide	0.26	1.00	ND		
2-Propanol (Isopropyl Alcohol)	0.39	10.0	ND		
Methylene Chloride	0.17	8.00	ND		
Acetone	0.37	8.00	ND		
trans-1,2-Dichloroethene	0.16	0.500	ND		
Hexane	0.15	0.500	ND		
MTBE	0.24	0.500	ND		
tert-Butanol	0.22	2.00	ND		
Diisopropyl ether (DIPE)	0.21	0.500	ND		
1,1-Dichloroethane	0.18	0.500	ND		
ETBE	0.16	0.500	ND		
cis-1,2-Dichloroethene	0.13	0.500	ND		
Chloroform	0.25	1.00	ND		
Vinyl Acetate	0.16	0.500	ND		
Carbon Tetrachloride	0.14	0.500	ND		
1,1,1-Trichloroethane	0.15	0.500	ND		
2-Butanone (MEK)	0.21	0.500	ND		
Ethyl Acetate	0.21	0.500	ND		
Tetrahydrofuran	0.10	0.500	ND		
Benzene	0.21	0.500	ND		
TAME	0.086	0.500	ND		
1,2-Dichloroethane (EDC)	0.24	0.500	ND		
Trichloroethylene	0.26	1.00	ND		
1,2-Dichloropropane	0.29	1.00	ND		
Bromodichloromethane	0.13	0.500	ND		
1,4-Dioxane	0.35	1.00	ND		
trans-1,3-Dichloropropene	0.19	0.500	ND		
Toluene	0.25	0.500	ND		
4-Methyl-2-Pentanone (MIBK)	0.21	0.500	ND		
cis-1,3-Dichloropropene	0.25	0.500	ND		



### MB Summary Report

<b>Work Order:</b>	1511192	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Air	<b>Analytical Method:</b>	ETO15	<b>Analyzed Date:</b>	11/30/15	<b>Analytical Batch:</b>	427939
<b>Units:</b>	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Tetrachloroethylene	0.13	0.500	ND	
1,1,2-Trichloroethane	0.17	0.500	ND	
Dibromochloromethane	0.20	0.500	ND	
1,2-Dibromoethane (EDB)	0.27	1.00	ND	
2-Hexanone	0.27	1.00	ND	
Ethyl Benzene	0.23	0.500	ND	
Chlorobenzene	0.15	0.500	ND	
1,1,1,2-Tetrachloroethane	0.15	0.500	ND	
m,p-Xylene	0.38	1.00	ND	
o-Xylene	0.19	0.500	ND	
Styrene	0.16	0.500	ND	
Bromoform	0.11	0.500	ND	
1,1,2,2-Tetrachloroethane	0.10	0.500	ND	
4-Ethyl Toluene	0.17	0.500	ND	
1,3,5-Trimethylbenzene	0.15	0.500	ND	
1,2,4-Trimethylbenzene	0.14	0.500	ND	
1,4-Dichlorobenzene	0.11	0.500	ND	
1,3-Dichlorobenzene	0.14	0.500	ND	
1,2-Dichlorobenzene	0.15	0.500	ND	
Hexachlorobutadiene	0.22	0.500	ND	
1,2,4-Trichlorobenzene	0.46	1.00	ND	
Naphthalene	0.28	1.00	ND	
(S) 4-Bromofluorobenzene			105	

<b>Work Order:</b>	1511192	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Air	<b>Analytical Method:</b>	ETO15	<b>Analyzed Date:</b>	11/30/15	<b>Analytical Batch:</b>	427941
<b>Units:</b>	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH-Gasoline	11	50.0	ND	



## MB Summary Report

<b>Work Order:</b>	1511192	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Air	<b>Analytical Method:</b>	ETO15	<b>Analyzed Date:</b>	11/24/15	<b>Analytical Batch:</b>	427942
<b>Units:</b>	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
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TPH-Gasoline	11	50.0	ND		
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<b>Work Order:</b>	1511192	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Air	<b>Analytical Method:</b>	D1946	<b>Analyzed Date:</b>	11/30/15	<b>Analytical Batch:</b>	427949
<b>Units:</b>	%						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
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Carbon Dioxide	0.030	0.050	ND		
Ethene	0.0110	0.025	ND		
Ethane	0.0140	0.025	ND		
Hydrogen	0.00280	0.025	ND		
Oxygen	0.0270	0.050	ND		
Nitrogen	0.0430	0.050	ND		
Methane	0.03	0.05	ND		
Carbon Monoxide	0.0350	0.050	ND		



## MB Summary Report

<b>Work Order:</b>	1511192	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Air	<b>Analytical Method:</b>	ETO15	<b>Analyzed Date:</b>	12/01/15	<b>Analytical Batch:</b>	427967
<b>Units:</b>	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.30	1.00	ND		
1,1-Difluoroethane	0.18	10.0	ND		
1,2-Dichlorotetrafluoroethane	0.70	2.00	ND		
Chloromethane	0.15	0.500	ND		
Vinyl Chloride	0.26	1.00	ND		
1,3-Butadiene	0.20	0.500	ND		
Bromomethane	0.18	0.500	ND		
Chloroethane	0.19	0.500	ND		
Trichlorofluoromethane	0.32	1.00	ND		
1,1-Dichloroethene	0.15	0.500	ND		
Freon 113	0.11	0.500	ND		
Carbon Disulfide	0.26	1.00	ND		
2-Propanol (Isopropyl Alcohol)	0.39	10.0	ND		
Methylene Chloride	0.17	8.00	ND		
Acetone	0.37	8.00	ND		
trans-1,2-Dichloroethene	0.16	0.500	ND		
Hexane	0.15	0.500	ND		
MTBE	0.24	0.500	ND		
tert-Butanol	0.22	2.00	ND		
Diisopropyl ether (DIPE)	0.21	0.500	ND		
1,1-Dichloroethane	0.18	0.500	ND		
ETBE	0.16	0.500	ND		
cis-1,2-Dichloroethene	0.13	0.500	ND		
Chloroform	0.25	1.00	ND		
Vinyl Acetate	0.16	0.500	ND		
Carbon Tetrachloride	0.14	0.500	ND		
1,1,1-Trichloroethane	0.15	0.500	ND		
2-Butanone (MEK)	0.21	0.500	ND		
Ethyl Acetate	0.21	0.500	ND		
Tetrahydrofuran	0.10	0.500	ND		
Benzene	0.21	0.500	ND		
TAME	0.086	0.500	ND		
1,2-Dichloroethane (EDC)	0.24	0.500	ND		
Trichloroethylene	0.26	1.00	ND		
1,2-Dichloropropane	0.29	1.00	ND		
Bromodichloromethane	0.13	0.500	ND		
1,4-Dioxane	0.35	1.00	ND		
trans-1,3-Dichloropropene	0.19	0.500	ND		
Toluene	0.25	0.500	ND		
4-Methyl-2-Pentanone (MIBK)	0.21	0.500	ND		
cis-1,3-Dichloropropene	0.25	0.500	ND		



## MB Summary Report

<b>Work Order:</b>	1511192	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Air	<b>Analytical Method:</b>	ETO15	<b>Analyzed Date:</b>	12/01/15	<b>Analytical Batch:</b>	427967
<b>Units:</b>	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Tetrachloroethylene	0.13	0.500	ND		
1,1,2-Trichloroethane	0.17	0.500	ND		
Dibromochloromethane	0.20	0.500	ND		
1,2-Dibromoethane (EDB)	0.27	1.00	ND		
2-Hexanone	0.27	1.00	ND		
Ethyl Benzene	0.23	0.500	ND		
Chlorobenzene	0.15	0.500	ND		
1,1,1,2-Tetrachloroethane	0.15	0.500	ND		
m,p-Xylene	0.38	1.00	ND		
o-Xylene	0.19	0.500	ND		
Styrene	0.16	0.500	ND		
Bromoform	0.11	0.500	ND		
1,1,2,2-Tetrachloroethane	0.10	0.500	ND		
4-Ethyl Toluene	0.17	0.500	ND		
1,3,5-Trimethylbenzene	0.15	0.500	ND		
1,2,4-Trimethylbenzene	0.14	0.500	ND		
1,4-Dichlorobenzene	0.11	0.500	ND		
1,3-Dichlorobenzene	0.14	0.500	ND		
1,2-Dichlorobenzene	0.15	0.500	ND		
Hexachlorobutadiene	0.22	0.500	ND		
1,2,4-Trichlorobenzene	0.46	1.00	ND		
Naphthalene	0.28	1.00	ND		
(S) 4-Bromofluorobenzene			110		



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1511192	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Air	<b>Analytical Method:</b>	ETO17	<b>Analyzed Date:</b>	11/24/15	<b>Analytical Batch:</b>	427896
<b>Units:</b>	ng						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Naphthalene	5.0	0.000	ND	40	133	129	3.12	50 - 150	30	
(S) 4-Bromofluorobenzene			115	40	88.8	96.6		50 - 150		

<b>Work Order:</b>	1511192	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Air	<b>Analytical Method:</b>	ETO15	<b>Analyzed Date:</b>	11/24/15	<b>Analytical Batch:</b>	427901
<b>Units:</b>	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	0.15	0.500	ND	8	99.8	108	7.71	65 - 135	30	
Benzene	0.21	0.500	ND	8	104	113	8.51	65 - 135	30	
Trichloroethylene	0.26	1.00	ND	8	105	106	0.949	65 - 135	30	
Toluene	0.25	0.500	ND	8	102	104	2.19	65 - 135	30	
Chlorobenzene	0.15	0.500	ND	8	101	104	3.17	65 - 135	30	
(S) 4-Bromofluorobenzene			ND	8	114	108		65 - 135		

<b>Work Order:</b>	1511192	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Air	<b>Analytical Method:</b>	ETO15	<b>Analyzed Date:</b>	11/25/15	<b>Analytical Batch:</b>	427921
<b>Units:</b>	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	0.15	0.500	ND	8	106	115	8.27	65 - 135	30	
Benzene	0.21	0.500	ND	8	112	115	3.19	65 - 135	30	
Trichloroethylene	0.26	1.00	ND	8	113	111	1.12	65 - 135	30	
Toluene	0.25	0.500	ND	8	107	106	1.06	65 - 135	30	
Chlorobenzene	0.15	0.500	ND	8	105	101	3.40	65 - 135	30	
(S) 4-Bromofluorobenzene			ND	8	111	114		65 - 135		





## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1511192	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Air	<b>Analytical Method:</b>	ETO15	<b>Analyzed Date:</b>	11/30/15	<b>Analytical Batch:</b>	427939
<b>Units:</b>	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	0.15	0.500	ND	8	92.1	82.6	10.9	65 - 135	30	
Benzene	0.21	0.500	ND	8	91.1	88.1	3.35	65 - 135	30	
Trichloroethylene	0.26	1.00	ND	8	108	94.1	13.6	65 - 135	30	
Toluene	0.25	0.500	ND	8	92.4	89.3	3.44	65 - 135	30	
Chlorobenzene	0.15	0.500	ND	8	92.0	86.3	6.45	65 - 135	30	
(S) 4-Bromofluorobenzene			ND	8	97.5	97.5		65 - 135		

<b>Work Order:</b>	1511192	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Air	<b>Analytical Method:</b>	ETO15	<b>Analyzed Date:</b>	11/30/15	<b>Analytical Batch:</b>	427941
<b>Units:</b>	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	50.0	ND	504	88.8	88.4	0.349	50 - 150	30	

<b>Work Order:</b>	1511192	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Air	<b>Analytical Method:</b>	ETO15	<b>Analyzed Date:</b>	11/24/15	<b>Analytical Batch:</b>	427942
<b>Units:</b>	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	50.0	ND	504	90.0	87.8	2.57	50 - 150	30	



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1511192	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Air	<b>Analytical Method:</b>	D1946	<b>Analyzed Date:</b>	11/30/15	<b>Analytical Batch:</b>	427949
<b>Units:</b>	%						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Carbon Dioxide	0.030	0.0500	ND	2500	102	111	8.99	65 - 135	30	
Ethene	0.0110	0.0250	ND	2500	104	105	0.979	65 - 135	30	
Ethane	0.0140	0.0250	ND	2500	99.2	102	2.32	65 - 135	30	
Hydrogen	0.00280	0.0250	ND	2500	84.8	76.4	10.4	65 - 135	30	
Oxygen	0.0270	0.0500	ND	2500	94.0	84.8	10.3	65 - 135	30	
Nitrogen	0.0430	0.0500	ND	2500	86.2	77.0	11.2	65 - 135	30	
Methane	0.03	0.05	ND	2500	90.9	75.3	18.7	65 - 135	30	
Carbon Monoxide	0.0350	0.0500	ND	2500	95.6	81.0	16.5	65 - 135	30	

<b>Work Order:</b>	1511192	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Air	<b>Analytical Method:</b>	ETO15	<b>Analyzed Date:</b>	12/01/15	<b>Analytical Batch:</b>	427967
<b>Units:</b>	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	0.15	0.500	ND	8	93.0	89.4	3.98	65 - 135	30	
Benzene	0.21	0.500	ND	8	97.9	88.1	10.5	65 - 135	30	
Trichloroethylene	0.26	1.00	ND	8	94.9	93.5	1.46	65 - 135	30	
Toluene	0.25	0.500	ND	8	94.0	93.5	0.533	65 - 135	30	
Chlorobenzene	0.15	0.500	ND	8	88.5	92.0	3.88	65 - 135	30	
(S) 4-Bromofluorobenzene			ND	8	104	106		65 - 135		



## Laboratory Qualifiers and Definitions

### DEFINITIONS:

<b>Accuracy/Bias (% Recovery)</b> - The closeness of agreement between an observed value and an accepted reference value.
<b>Blank (Method/Preparation Blank)</b> -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.
<b>Duplicate</b> - 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)
<b>Laboratory Control Sample (LCS ad LCSD)</b> - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
<b>Matrix</b> - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
<b>Matrix Spike (MS/MSD)</b> - 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.
<b>Method Detection Limit (MDL)</b> - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
<b>Practical Quantitation Limit (PQL)</b> - 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 reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
<b>Precision (%RPD)</b> - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
<b>Surrogate (S) or (Surr)</b> - 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
<b>Tentatively Identified Compound (TIC)</b> - 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.
<b>Units:</b> the unit of measure used to express the reported result - <b>mg/L</b> and <b>mg/Kg</b> (equivalent to PPM - parts per million in <b>liquid</b> and <b>solid</b> ), <b>ug/L</b> and <b>ug/Kg</b> (equivalent to PPB - parts per billion in <b>liquid</b> and <b>solid</b> ), <b>ug/m<sup>3</sup></b> , <b>mg.m<sup>3</sup></b> , <b>ppbv</b> and <b>ppmv</b> (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), <b>ug/Wipe</b> ( concentration found on the surface of a single Wipe usually taken over a 100cm <sup>2</sup> surface)

### LABORATORY QUALIFIERS:

<p><b>B</b> - Indicates when the analyte is found in the associated method or preparation blank</p> <p><b>D</b> - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p><b>E</b> - 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.</p> <p><b>H</b>- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p><b>J</b>- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p><b>NA</b> - Not Analyzed</p> <p><b>N/A</b> - Not Applicable</p> <p><b>NR</b> - 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</p> <p><b>R</b>- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p><b>S</b>- 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</p> <p><b>X</b> -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.</p>
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## Sample Receipt Checklist

Client Name: Golden Gate Tank Removal

Date and Time Received: 11/23/2015 12:40

Project Name: 5930 College Ave, Oakland

Received By: pd

Work Order No.: 1511192

Physically Logged By: Idi

Checklist Completed By: Idi

Carrier Name: First Courier

### 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? Not Present

### 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: 3 °C  
Water-VOA vials have zero headspace? No VOA vials submitted  
Water-pH acceptable upon receipt? N/A  
pH Checked by: n/a      pH Adjusted by: n/a





# **DATA GAP INVESTIGATION REPORT**

**Sheaff's Garage  
5930 College Avenue  
Oakland, California 94618**

**ACHCSA Fuel Leak Case No. RO0000377**

## ***APPENDIX C***

### **FIELD DATA SHEETS**

**FLUID-LEVEL MONITORING DATA SHEET  
WELL PURGING/SAMPLING DATA SHEETS  
SOIL GAS SAMPLING DATA SHEETS  
SOIL BORING & WELL CONSTRUCTION LOGS**

**FLUID-LEVEL MONITORING DATA**

Project Name: SHEAFFS SERVICE GARAGE Date: 11-11-15

Project/Site Location: 5930 COLLEGE AVE - OAKLAND CA

Technician: RICHARD VASQUEZ Method: ELECTRONIC  
TONY VEGA

Boring/Well	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (feet)	Total Well Depth (feet)	Comments
PLW-1	14.02	ND	N/A	19.78	#0926
MW-3	11.89	ND	N/A	19.03	e 0931
MW-2	14.19	ND	N/A	19.58	e 1006
MW-1	12.42	ND	N/A	14.46	e 0929

Measurements referenced to top of well casing. NORTH Page 1 of 1

SHARDIE MARLE

ND = Non - Detect  
 N/A = Non Applicable







WELL NUMBER / FIELD POINT ID: PW-1

DATE: 11-11-2015

PROJECT / GLOBAL ID: T0600102112

SITE LOCATION: 5930 College Avenue

CITY: Oakland

STATE: CA

PURGE DEVICE

circle one submersible pump peristaltic pump bladder pump disposable bailer

SAMPLING DEVICE

circle one submersible pump peristaltic pump bladder pump disposable bailer  
casing diameter (inches) circle one 0.75 1 1.5 2 4 6  
casing volumes (gallons) circle one 0.02 0.041 0.092 0.163 0.653 1.469

WELL DATA

SAMPLER/S: P. VASQUEZ / T. VEGA

WELL NUMBER / FIELD POINT ID: PW-1

SCREEN INTERVAL (if known):

A. TOTAL WELL DEPTH: 19.78 ft

B. DEPTH TO WATER: 14.02 ft

C. WATER HEIGHT (A-B): 5.76 ft

D. WELL CASING DIAMETER: 2 in

E. CASING VOLUME: 0.163 gal/ft

F. SINGLE CASE VOLUME (Cx E): 0.93888 gal

PURGE DATA

START TIME: 0936

PUMP DEPTH: 17 ft

FINISH TIME: 0951

PUMP DEPTH: 17 ft

SAMPLE TIME = 0952

DEPTH TO WATER: 15.44

TIME MEASURED: 0951

SAMPLE APPEARANCE / ODOR: Clear / No odor

~TOTAL LITERS PURGED: 3.0

NOTE: 1 liter = 0.264172 Gallons and 1 Gallon = 3.78541

WELL FLUID PARAMETERS

Time (interval 3 to 5 min.)	0	3	6	9	12	15			
~Total Volume Purged (L)	0	0.6	1.2	1.8	2.4	3.0			
pH (su)	8.20	7.25	7.06	6.92	6.87	6.83			
Temperature (Celsius)	17.2	17.3	17.5	17.6	17.6	17.7			
COND / SC (us/cm)	565	567	565	565	566	569			
DO (mg/L / %)									
ORP (mV)									
DTW (ft.)	14.02	14.60	14.81	14.99	15.24	15.44			
~Pump Depth (ft)	17								
~Pump Rate (mL/min.)	200 ml/min								



Golden Gate Tank Removal, Inc.

Soil Gas Sampling Data Form

Project #: 9497 Date: 11/19/2015
Soil Gas Boring/Sample ID: B28V Weather Conditions/Temp: High Clouds/46

Project/Site Address: Former Sheaff's Garage, 5930 College Avenue, Oakland
Technician/Sampler: Brent Wheeler (GGE)

Building Survey:

Vacant: Occupied: Yes Occupant: Stauder Automotive
Business: Auto Repair Garage
Foundation: Slab on Grade
Floor/Pavement Description: Concrete
Floor Penetrations: Minitor Well (PW-1); Abandoned Soil Borings; Existing Oil/Water Separator; Minor Cracks in Pavement
HVAC System: None; Exterior Location in Rear Courtyard

Chemical Inventory:

Product Description: NA (Exterior Location) Quantity: NA PID Reading: NA
Product Description: Quantity: PID Reading:
Product Description: Quantity: PID Reading:
Product Description: Quantity: PID Reading:
Product Description: Quantity: PID Reading:
Product Description: Quantity: PID Reading:
Product Description: Quantity: PID Reading:

Probe Construction:

Slab Thickness (Inches): 6 Sub-Slab Conditions: Silt; Slightly Clayey to 4fbg over Clay to 5fbg
Borehole Dia. (Inches): 3.25 Borehole Depth Below Slab (Inches): 60
Borehole Prelim. PID Reading (PPM): 0 Borehole Prelim. Vacuum Reading ("Hg): 0
Total Length of 0.25"-Dia. Teflon Tubing (Ft): 7

Soil Vapor Sampling Equipment Record:

1 Liter (S/P) S 6 Liter (S/P) p
Glass Syringe:
Sample Canister Serial#: 6114 Sample Canister Initial Vacuum ("Hg): 30
Purge Canister Serial#: 894 Purge Canister Initial Vacuum ("Hg): 20.5
Leak Check Canister Serial#: NA Leak Check Canister Initial Vacuum ("Hg): NA
Flow Regulator Serial#: 208072 Filter Micron Size (µ): 2

Vacuum Testing (10 Minutes):

Purge Canister Initial Vacuum ("Hg): 20.5 Start: 11:10
Purge Canister Final Vacuum ("Hg): 20.5 Finish: 11:20

Purge Record (Tubing & Borehole Filter Pack):

Purge Volume:
340 ml (borehole) + 5.4 ml / linear foot (tubing) x 8.5 feet tubing = 386 ml Volume
x 3 Volumes = 1157 ml Volume
Purge Time: 1157 ml Volume / 150 ml/min. = 7.7 min.
Canister Purge Drop: 1157 ml Volume x 1"Hg/ 200 ml = 5.7 "Hg
Purge Canister Initial Vacuum ("Hg): 20.5 minus Canister Purge Drop 5.7 "Hg =
Final Purge Vacuum ("Hg): 14.8 "Hg
Purge Time: Start 11:20 Finish 11:28 Total (Min.) 8

Vapor Sampling Record:

Sample Canister Initial Vacuum ("Hg): 30 Sample Canister Final Vacuum ("Hg): 2 (5" Hg Target)
Sample Time: Start 11:28 Finish 11:35 Total (Min.) 7

**Golden Gate Tank Removal, Inc.**

Soil Gas Sampling Data Form

Soil Gas Boring/Sample ID: B28V Date: 11/19/2015

**Shroud Enclosure VOC Monitoring:**

Time:	<u>11:28</u>	PID Reading (PPM):	<u>8.7</u>
Time:	<u>11:29</u>	PID Reading (PPM):	<u>8.9</u>
Time:	<u>11:30</u>	PID Reading (PPM):	<u>10</u>
Time:	<u>11:31</u>	PID Reading (PPM):	<u>11.6</u>
Time:	<u>11:32</u>	PID Reading (PPM):	<u>12.6</u>
Time:	<u>11:33</u>	PID Reading (PPM):	<u>13.5</u>
Time:	<u>11:34</u>	PID Reading (PPM):	<u>15.2</u>
Time:	<u>11:35</u>	PID Reading (PPM):	<u>16.2</u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>

Notes: Max. PID Reading of Interior Shroud During Sampling @ 16.2 ppm; Leak Check Compound = IPA

# Golden Gate Tank Removal, Inc.

## Soil Gas Sampling Data Form

Project #: 9497 Date: 11/19/2015  
Soil Gas Boring/Sample ID: B29V Weather Conditions/Temp: High Clouds/46

Project/Site Address: Former Sheaff's Garage, 5930 College Avenue, Oakland  
Technician/Sampler: Brent Wheeler (GGE)

### Building Survey:

Vacant: \_\_\_\_\_ Occupied: Yes \_\_\_\_\_ Occupant: Stauder Automotive \_\_\_\_\_  
Business: Auto Repair Garage \_\_\_\_\_  
Foundation: Slab on Grade  
Floor/Pavement Description: Concrete  
Floor Penetrations: Monitor Well (PW-1); Abandoned Soil Borings; Existing Oil/Water Separator  
HVAC System: None; Exterior Location in Rear Courtyard

### Chemical Inventory:

Product Description:	Quantity:	PID Reading:
NA (Exterior Location)	NA	NA
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

### Probe Construction:

Slab Thickness (Inches): 6 Sub-Slab Conditions: Silt; Slightly Clayey to 4fbg over Clay to 5fbg  
Borehole Dia. (Inches): 3.25 Borehole Depth Below Slab (Inches): 60  
Borehole Prelim. PID Reading (PPM): 0 Borehole Prelim. Vacuum Reading ("Hg): 0  
Total Length of 0.25"-Dia. Teflon Tubing (Ft): 7

### Soil Vapor Sampling Equipment Record:

1 Liter (S/P) S \_\_\_\_\_ 6 Liter (S/P) p \_\_\_\_\_  
Glass Syringe: \_\_\_\_\_  
Sample Canister Serial#: 6318 Sample Canister Initial Vacuum ("Hg): 30  
Purge Canister Serial#: 894 Purge Canister Initial Vacuum ("Hg): 26  
Leak Check Canister Serial#: NA Leak Check Canister Initial Vacuum ("Hg): NA  
Flow Regulator Serial#: 7339515 Filter Micron Size (µ): 2

Vacuum Testing (10 Minutes): Purge Canister Initial Vacuum ("Hg): 26 Start: 9:45  
Purge Canister Final Vacuum ("Hg): 26 Finish: 9:55

### Purge Record (Tubing & Borehole Filter Pack):

Purge Volume:  
340 ml (borehole) + 5.4 ml / linear foot (tubing) x 8.5 feet tubing = 386 ml Volume  
x 3 Volumes = 1157 ml Volume  
Purge Time: 1157 ml Volume / 150 ml/min. = 7.7 min.  
Canister Purge Drop: 1157 ml Volume x 1 "Hg/ 200 ml = 5.7 "Hg  
Purge Canister Initial Vacuum ("Hg): 26 minus Canister Purge Drop 5.7 "Hg =  
Final Purge Vacuum ("Hg): 20.3 "Hg  
Purge Time: Start 10:02 Finish 10:08 Total (Min.) 6

### Vapor Sampling Record:

Sample Canister Initial Vacuum ("Hg): 30 Sample Canister Final Vacuum ("Hg): 0 (5" Hg Target)  
Sample Time: Start 10:38 Finish 10:42 Total (Min.) 6

**Golden Gate Tank Removal, Inc.**

*Soil Gas Sampling Data Form*

**Soil Gas Boring/Sample ID:** B29V **Date:** 11/19/2015

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**Shroud Enclosure VOC Monitoring:**

Time:	<u>10:38</u>	PID Reading (PPM):	<u>33.2</u>
Time:	<u>10:39</u>	PID Reading (PPM):	<u>34</u>
Time:	<u>10:40</u>	PID Reading (PPM):	<u>34.6</u>
Time:	<u>10:41</u>	PID Reading (PPM):	<u>34.7</u>
Time:	<u>10:42</u>	PID Reading (PPM):	<u>41</u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>

Notes: Max. PID Reading of Interior Shroud During Sampling @ 41 ppm; Leak Check Compound = IPA



Golden Gate Tank Removal, Inc.

Soil Gas Sampling Data Form

Project #: 9497 Date: 11/19/2015
Soil Gas Boring/Sample ID: B31V Weather Conditions/Temp: High Clouds/46

Project/Site Address: Former Sheaff's Garage, 5930 College Avenue, Oakland
Technician/Sampler: Brent Wheeler (GGE)

Building Survey:

Vacant: Occupied: Yes Occupant: Stauder Automotive
Business: Auto Repair Garage
Foundation: NA
Floor/Pavement Description: Concrete Sidewalk
Floor Penetrations: Various Subsurface Utilities
HVAC System: None; Exterior Location in Sidewalk of College Ave.

Chemical Inventory:

Product Description: NA (Exterior Location) Quantity: NA PID Reading: NA
Product Description: Quantity: PID Reading:
Product Description: Quantity: PID Reading:
Product Description: Quantity: PID Reading:
Product Description: Quantity: PID Reading:
Product Description: Quantity: PID Reading:
Product Description: Quantity: PID Reading:

Probe Construction:

Slab Thickness (Inches): 5 Sub-Slab Conditions: Silt; Slightly Clayey to 4fbg over Clay to 5fbg
Borehole Dia. (Inches): 3.25 Borehole Depth Below Slab (Inches): 78
Borehole Prelim. PID Reading (PPM): 0 Borehole Prelim. Vacuum Reading ("Hg): 0
Total Length of 0.25"-Dia. Teflon Tubing (Ft): 9.5

Soil Vapor Sampling Equipment Record:

1 Liter (S/P) S 6 Liter (S/P) p
Glass Syringe:
Sample Canister Serial#: A7465 Sample Canister Initial Vacuum ("Hg): 30
Purge Canister Serial#: 894 Purge Canister Initial Vacuum ("Hg): 15
Leak Check Canister Serial#: NA Leak Check Canister Initial Vacuum ("Hg): NA
Flow Regulator Serial#: 212282 Filter Micron Size (µ): 2

Vacuum Testing (10 Minutes):

Purge Canister Initial Vacuum ("Hg): 15 Start: 12:07
Purge Canister Final Vacuum ("Hg): 15 Finish: 12:17

Purge Record (Tubing & Borehole Filter Pack):

Purge Volume:
442 ml (borehole) + 5.4 ml / linear foot (tubing) x 9.5 feet tubing = 493 ml Volume
x 3 Volumes = 1480 ml Volume
Purge Time: 1480 ml Volume / 150 ml/min. = 9.9 min.
Canister Purge Drop: 1480 ml Volume x 1"Hg/ 200 ml = 7.4 "Hg
Purge Canister Initial Vacuum ("Hg): 15 minus Canister Purge Drop 5.9 "Hg =
Final Purge Vacuum ("Hg): 7.6 "Hg
Purge Time: Start 12:17 Finish 12:23 Total (Min.) 6

Vapor Sampling Record:

Sample Canister Initial Vacuum ("Hg): 30 Sample Canister Final Vacuum ("Hg): 2 (5" Hg Target)
Sample Time: Start 12:25 Finish 12:32 Total (Min.) 7

**Golden Gate Tank Removal, Inc.**

Soil Gas *Sampling Data Form*

**Soil Gas Boring/Sample ID:** B31V **Date:** 11/19/2015

**Shroud Enclosure VOC Monitoring:**

Time:	<u>12:25</u>	PID Reading (PPM):	<u>12.4</u>
Time:	<u>12:26</u>	PID Reading (PPM):	<u>18</u>
Time:	<u>12:27</u>	PID Reading (PPM):	<u>38.5</u>
Time:	<u>12:28</u>	PID Reading (PPM):	<u>42.7</u>
Time:	<u>12:29</u>	PID Reading (PPM):	<u>35.8</u>
Time:	<u>12:30</u>	PID Reading (PPM):	<u>31.1</u>
Time:	<u>12:31</u>	PID Reading (PPM):	<u>48.7</u>
Time:	<u>12:32</u>	PID Reading (PPM):	<u>43.8</u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>

Notes: Max. PID Reading of Interior Shroud During Sampling @ 48.7 ppm; Leak Check Compound = IPA

**Golden Gate Tank Removal, Inc.**

Soil Gas Sampling Data Form

Project #: 9497 Date: 11/19/2015  
Soil Gas Boring/Sample ID: SG-1 / SG-1 DUP Weather Conditions/Temp: High Clouds/46

Project/Site Address: Former Sheaff's Garage, 5930 College Avenue, Oakland  
Technician/Sampler: Brent Wheeler (GGE)

**Building Survey:**

Vacant: Occupied: Yes Occupant: Stauder Automotive  
Business: Auto Repair Garage  
Foundation: Slab on Grade  
Floor/Pavement Description: Concrete  
Floor Penetrations: Monitor Well (MW-2); Abandoned Soil Borings; Former Fuel Dispenser (open Ex) @ 5'  
HVAC System: Open Ventilation; Centralized Heat Source along south wall of garage

**Chemical Inventory:**

Product Description: Parts Washer Location Quantity: 55-Gal. Totes PID Reading: 0  
Product Description: Non-Chlorinated Solvent Quantity: 5-Gal. Can PID Reading:  
Product Description: Quantity: PID Reading:  
Product Description: Quantity: PID Reading:  
Product Description: Quantity: PID Reading:  
Product Description: Quantity: PID Reading:  
Product Description: Quantity: PID Reading:

**Probe Construction:**

Slab Thickness (Inches): 5 Sub-Slab Conditions: Base Rock (2")  
Borehole Dia. (Inches): 2.25 Borehole Depth Below Slab (Inches): 48  
Borehole Prelim. PID Reading (PPM): 0  
Total Length of 0.25"-Dia. Teflon Tubing (Ft): 7

**Soil Vapor Sampling Equipment Record:**

1 Liter (S/P) S 6 Liter (S/P) p  
Glass Syringe:  
Sample Canister Serial#: 6332 Sample Canister Initial Vacuum ("Hg): 30  
Dup Sample Canister Serial#: A7563 Sample Canister Initial Vacuum ("Hg): 30  
Purge Canister Serial#: 907 Purge Canister Initial Vacuum ("Hg): 30  
Leak Check Canister Serial#: NA Leak Check Canister Initial Vacuum ("Hg): NA  
Flow Regulator Serial#: 143067 Filter Micron Size (µ): 2

**Vacuum Testing (10 Minutes):** Purge Canister Initial Vacuum ("Hg): 30 Start: 2:00  
Purge Canister Final Vacuum ("Hg): 30 Finish: 2:10

# Golden Gate Tank Removal, Inc.

## Soil Gas Sampling Data Form

### Purge Record (Tubing & Borehole Filter)

Purge Volume:

235 ml (borehole) + 5.4 ml / linear foot (tubing) 7 feet tubing = 273 ml Volume

x 3 Volumes = 818 ml Volume

Purge Time: 818 ml Volume / 150 ml/m = 5.5 min.

Canister Purge Drop: 818 ml Volume 1"Hg/ 200 ml = 4.1 "Hg

Purge Canister Initial Vacuum ("Hg): 30 minus Canister Purge Drop 25.9 "Hg =

Final Purge Vacuum ("Hg) 3.9 "Hg

Purge Time: Start 2:10 Finish 2:13 Total (Min.) 3

### Vapor Sampling Record:

Sample Canister Initial Vacuum ("Hg): 30 Sample Canister Final Vacuum ("Hg): 5 (5" Hg Target)

Sample Time: Start 2:15 Finish 2:28 Total (Min.) 13

Soil Gas Boring/Sample ID: SG-1 / SG-1 DUP Date: 11/19/2015

### Shroud Enclosure VOC Monitoring:

Time: <u>2:15</u>	PID Reading (PPM): <u>42.9</u>
Time: <u>2:16</u>	PID Reading (PPM): <u>42.5</u>
Time: <u>2:17</u>	PID Reading (PPM): <u>44.8</u>
Time: <u>2:18</u>	PID Reading (PPM): <u>47.6</u>
Time: <u>2:19</u>	PID Reading (PPM): <u>48.9</u>
Time: <u>2:20</u>	PID Reading (PPM): <u>54.5</u>
Time: <u>2:21</u>	PID Reading (PPM): <u>55.6</u>
Time: <u>2:22</u>	PID Reading (PPM): <u>59</u>
Time: <u>2:23</u>	PID Reading (PPM): <u>65.5</u>
Time: <u>2:24</u>	PID Reading (PPM): <u>67</u>
Time: <u>2:25</u>	PID Reading (PPM): <u>69.5</u>
Time: <u>2:26</u>	PID Reading (PPM): <u>75.5</u>
Time: <u>2:27</u>	PID Reading (PPM): <u>77</u>
Time: <u>2:28</u>	PID Reading (PPM): <u>80.9</u>

Notes: Max. PID Reading of Interior Shroud During Sampling @ 80.9 ppm; Leak Check Compound = IPA

# Golden Gate Tank Removal, Inc.

## Soil Gas Sampling Data Form

Project #: 9497 Date: 11/20/2015  
Soil Gas Boring/Sample ID: SG-2 / SG-2 LC Weather Conditions/Temp: High Clouds/46

Project/Site Address: Former Sheaff's Garage, 5930 College Avenue, Oakland  
Technician/Sampler: Brent Wheeler (GGE)

### Building Survey:

Vacant: \_\_\_\_\_ Occupied: Yes \_\_\_\_\_ Occupant: Stauder Automotive  
Business: Auto Repair Garage  
Foundation: Slab on Grade  
Floor/Pavement Description: Concrete  
Floor Penetrations: Monitor Well (MW-2); Abandoned Soil Borings; Former Fuel Dispenser (open Ex) @ 5'  
HVAC System: Open Ventilation; Centralized Heat Source along south wall of garage

### Chemical Inventory:

Product Description:	NA (Near Reception Area/Front Desk)	Quantity:	_____	PID Reading:	_____
Product Description:	_____	Quantity:	_____	PID Reading:	_____
Product Description:	_____	Quantity:	_____	PID Reading:	_____
Product Description:	_____	Quantity:	_____	PID Reading:	_____
Product Description:	_____	Quantity:	_____	PID Reading:	_____
Product Description:	_____	Quantity:	_____	PID Reading:	_____
Product Description:	_____	Quantity:	_____	PID Reading:	_____

### Probe Construction:

Slab Thickness (Inches): 6 Sub-Slab Conditions: Base Rock (2")  
Borehole Dia. (Inches): 2.25 Borehole Depth Below Slab (Inches): 60  
Borehole Prelim. PID Reading (PPM): 0  
Total Length of 0.25"-Dia. Teflon Tubing (Ft): 7.5

### Soil Vapor Sampling Equipment Record:

1 Liter (S/P) S \_\_\_\_\_ 6 Liter (S/P) p \_\_\_\_\_  
Glass Syringe:  
Sample Canister Serial#: 6319 Sample Canister Initial Vacuum ("Hg): 30  
Purge Canister Serial#: 907 Purge Canister Initial Vacuum ("Hg): 8  
Leak Check Canister Serial#: A7568 Leak Check Canister Initial Vacuum ("Hg): 30  
Flow Regulator Serial#: 7339604 Filter Micron Size (µ): 2

Vacuum Testing (10 Minutes): Purge Canister Initial Vacuum ("Hg): 8 Start: 8:40  
Purge Canister Final Vacuum ("Hg): 8 Finish: 8:50

### Purge Record (Tubing & Borehole Filter Pack):

Purge Volume:  
235 ml (borehole) + 5.4 ml / linear foot (tubing) x 7.5 feet tubing = 276 ml Volume  
x 3 Volumes = 827 ml Volume

Purge Time: 827 ml Volume / 150 ml/min. = 5.5 min.  
Canister Purge Drop: 827 ml Volume x 1"Hg/ 200 ml = 4.1 "Hg  
Purge Canister Initial Vacuum ("Hg): 8 minus Canister Purge Drop 4.1 "Hg =  
Final Purge Vacuum ("Hg): 3.9 "Hg  
Purge Time: Start 8:50 Finish 8:58 Total (Min.) 8

### Vapor Sampling Record:

Sample Canister Initial Vacuum ("Hg):	30	Sample Canister Final Vacuum ("Hg):	5 (5" Hg Target)		
Leak Check Canister Initial Vacuum ("Hg):	30	Sample Canister Final Vacuum ("Hg):	5 (5" Hg Target)		
Sample Time: Start	9:00	Finish	9:07	Total (Min.)	7
LC Sample Time: Start	9:00	Finish	9:07	Total (Min.)	7

**Golden Gate Tank Removal, Inc.**

*Soil Gas Sampling Data Form*

**Soil Gas Boring/Sample ID:**

SG-2 / SG-2 LC

**Date:**

11/20/2015

**Shroud Enclosure VOC Monitoring:**

Time:	<u>9:00</u>	PID Reading (PPM):	<u>12.8</u>
Time:	<u>9:01</u>	PID Reading (PPM):	<u>13.2</u>
Time:	<u>9:02</u>	PID Reading (PPM):	<u>17</u>
Time:	<u>9:03</u>	PID Reading (PPM):	<u>20</u>
Time:	<u>9:04</u>	PID Reading (PPM):	<u>21.3</u>
Time:	<u>9:05</u>	PID Reading (PPM):	<u>24.5</u>
Time:	<u>9:06</u>	PID Reading (PPM):	<u>28.9</u>
Time:	<u>9:07</u>	PID Reading (PPM):	<u>31</u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>

Notes: Max. PID Reading of Interior Shroud During Sampling @ 31 ppm; Leak Check Compound = IPA

**Golden Gate Tank Removal, Inc.**

Soil Gas Sampling Data Form

Project #: 9497 Date: 11/19/2015  
Soil Gas Boring/Sample ID: SG-3 Weather Conditions/Temp: High Clouds/46

Project/Site Address: Former Sheaff's Garage, 5930 College Avenue, Oakland  
Technician/Sampler: Brent Wheeler (GGE)

**Building Survey:**

Vacant: Occupied: Yes Occupant: Stauder Automotive  
Business: Auto Repair Garage  
Foundation: Slab on Grade  
Floor/Pavement Description: Concrete  
Floor Penetrations: Monitor Well (MW-2); Abandoned Soil Borings; Former Fuel Dispenser (open Ex) @ 5'  
HVAC System: Open Ventilation; Centralized Heat Source along south wall of garage

**Chemical Inventory:**

Product Description: New Motor Oil Quantity: 55-Gal. Totes PID Reading: 0  
Product Description: Quantity: PID Reading:  
Product Description: Quantity: PID Reading:  
Product Description: Quantity: PID Reading:  
Product Description: Quantity: PID Reading:  
Product Description: Quantity: PID Reading:  
Product Description: Quantity: PID Reading:

**Probe Construction:**

Slab Thickness (Inches): 5 Sub-Slab Conditions: Base Rock (2")  
Borehole Dia. (Inches): 2.25 Borehole Depth Below Slab (Inches): 60  
Borehole Prelim. PID Reading (PPM): 0  
Total Length of 0.25"-Dia. Teflon Tubing (Ft): 7

**Soil Vapor Sampling Equipment Record:**

1 Liter (S/P) S 6 Liter (S/P) p  
Glass Syringe:  
Sample Canister Serial#: 6328 Sample Canister Initial Vacuum ("Hg): 30  
Purge Canister Serial#: 1236 Purge Canister Initial Vacuum ("Hg): 8  
Leak Check Canister Serial#: NA Leak Check Canister Initial Vacuum ("Hg): NA  
Flow Regulator Serial#: 141139 Filter Micron Size (μ): 2

**Vacuum Testing (10 Minutes):**

Purge Canister Initial Vacuum ("Hg): 8 Start: 1:05  
Purge Canister Final Vacuum ("Hg): 30 Finish: 1:15

**Purge Record (Tubing & Borehole Filter Pack):**

Purge Volume:  
235 ml (borehole) + 5.4 ml / linear foot (tubing) x 8 feet tubing = 278 ml Volume  
x 3 Volumes = 835 ml Volume  
Purge Time: 835 ml Volume / 150 ml/min. = 5.5 min.  
Canister Purge Drop: 835 ml Volume x 1"Hg/ 200 ml = 4.1 "Hg  
Purge Canister Initial Vacuum ("Hg): 8 minus Canister Purge Drop 4.1 "Hg =  
Final Purge Vacuum ("Hg): 3.9 "Hg  
Purge Time: Start 1:15 Finish 1:22 Total (Min.) 7

**Vapor Sampling Record:**

Sample Canister Initial Vacuum ("Hg): 30 Sample Canister Final Vacuum ("Hg): 5 (5" Hg Target)  
Sample Time: Start 1:23 Finish 1:33 Total (Min.) 10

**Golden Gate Tank Removal, Inc.**

*Soil Gas Sampling Data Form*

**Soil Gas Boring/Sample ID:** SG-3 **Date:** 11/19/2015

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**Shroud Enclosure VOC Monitoring:**

Time:	<u>1:23</u>	PID Reading (PPM):	<u>12.3</u>
Time:	<u>1:24</u>	PID Reading (PPM):	<u>12.7</u>
Time:	<u>1:25</u>	PID Reading (PPM):	<u>12.9</u>
Time:	<u>1:26</u>	PID Reading (PPM):	<u>13.5</u>
Time:	<u>1:27</u>	PID Reading (PPM):	<u>14.2</u>
Time:	<u>1:28</u>	PID Reading (PPM):	<u>16.6</u>
Time:	<u>1:29</u>	PID Reading (PPM):	<u>18.6</u>
Time:	<u>1:30</u>	PID Reading (PPM):	<u>20.5</u>
Time:	<u>1:31</u>	PID Reading (PPM):	<u>22</u>
Time:	<u>1:32</u>	PID Reading (PPM):	<u>24.8</u>
Time:	<u>1:33</u>	PID Reading (PPM):	<u>27.6</u>

Notes: Max. PID Reading of Interior Shroud During Sampling @ 27.6 ppm; Leak Check Compound = IPA



Golden Gate Tank Removal, Inc.

Soil Gas Sampling Data Form

Project #: 9497 Date: 11/20/2015
Soil Gas Boring/Sample ID: SSV-1 Weather Conditions/Temp: High Clouds/46

Project/Site Address: Former Sheaff's Garage, 5930 College Avenue, Oakland
Technician/Sampler: Brent Wheeler (GGE)

Building Survey:

Vacant: Occupied: Yes Occupant: Stauder Automotive
Business: Auto Repair Garage
Foundation: Slab on Grade
Floor/Pavement Description: Concrete
Floor Penetrations: Monitor Well (MW-2); Abandoned Soil Borings; Former Fuel Dispenser (open Ex) @ 5'
HVAC System: Open Ventilation; Centralized Heat Source along south wall of garage

Chemical Inventory:

Product Description: Office/Reception Quantity: PID Reading: 0
Product Description: Quantity: PID Reading:
Product Description: Quantity: PID Reading:
Product Description: Quantity: PID Reading:
Product Description: Quantity: PID Reading:
Product Description: Quantity: PID Reading:
Product Description: Quantity: PID Reading:

Probe Construction:

Slab Thickness (Inches): 5 Sub-Slab Conditions: Base Rock (2")
Borehole Dia. (Inches): 0.625 Borehole Depth Below Slab (Inches): 9
Borehole Prelim. PID Reading (PPM): 0
Total Length of 0.25"-Dia. Teflon Tubing (Ft): 3

Soil Vapor Sampling Equipment Record:

1 Liter (S/P) S 6 Liter (S/P) p
Glass Syringe:
Sample Canister Serial#: A7548 Sample Canister Initial Vacuum ("Hg): 30
Purge Canister Serial#: 894 Purge Canister Initial Vacuum ("Hg): 5
Leak Check Canister Serial#: NA Leak Check Canister Initial Vacuum ("Hg): NA
Flow Regulator Serial#: 146811 Filter Micron Size (µ): 2

Vacuum Testing (10 Minutes):

Purge Canister Initial Vacuum ("Hg): 5 Start: 10:00
Purge Canister Final Vacuum ("Hg): 5 Finish: 10:10

Purge Record (Tubing & Borehole Filter Pack):

Purge Volume:
65 ml (borehole) + 5.4 ml / linear foot (tubing) x 3 feet tubing = 81 ml Volume
x 3 Volumes = 243 ml Volume
Purge Time: 243 ml Volume / 150 ml/min. = 1.6 min.
Canister Purge Drop: 243 ml Volume x 1"Hg/ 200 ml = 1.2 "Hg
Purge Canister Initial Vacuum ("Hg): 5 minus Canister Purge Drop 1.2 "Hg =
Final Purge Vacuum ("Hg): 3.8 "Hg
Purge Time: Start 10:10 Finish 10:13 Total (Min.) 3

Vapor Sampling Record:

Sample Canister Initial Vacuum ("Hg): 30 Sample Canister Final Vacuum ("Hg): 0 (5" Hg Target)
Sample Time: Start 10:20 Finish 10:24 Total (Min.) 4

**Golden Gate Tank Removal, Inc.**

*Soil Gas Sampling Data Form*

**Soil Gas Boring/Sample ID:** SSV-1 **Date:** 11/20/2015

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**Shroud Enclosure VOC Monitoring:**

Time:	<u>10:20</u>	PID Reading (PPM):	<u>36.8</u>
Time:	<u>10:21</u>	PID Reading (PPM):	<u>57.4</u>
Time:	<u>10:22</u>	PID Reading (PPM):	<u>59.1</u>
Time:	<u>10:23</u>	PID Reading (PPM):	<u>58.5</u>
Time:	<u>10:24</u>	PID Reading (PPM):	<u>60.2</u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>
Time:	<u>          </u>	PID Reading (PPM):	<u>          </u>

Notes: Max. PID Reading of Interior Shroud During Sampling @ 60.2 ppm; Leak Check Compound = IPA

## LOG OF BORING B28

Depth (fbg)	Recovery/ Sample ID	Time	Organic Vapor (ppm)	USCS Soil Type	Description	Boring Backfill Detail
1	B28-1	1220	0	ML	Concrete Slab (6")	Concrete (0'-0.5')
	B28-3	1225	0	ML	0.5' - 4': Damp, moderate to dark yellowish brown (10YR 5/4, 4/2) <b>SILT</b> , slightly clayey.	
5	B28-5	1300	0.3	CL	4' - 18': Damp to moist, moderate yellowish brown (10YR 5/4) <b>CLAY</b> , soft to firm.	
	B28-7	1310	0.5	CL		
	B28-9	1315	0.4	CL	@ 9'; thin lense (2") of coarse-grained sand & rock fragments	Portland Type I-II Cement (0.5'-20')
10	B28-12	1325	145.6	CL	@ 12', Same; change in color to dark greenish gray (5GY 4/1); slight to moderate hydrocarbon odor	
	B28-13.5	1330	≤3113	CL		
15			102	CL		
			≤312	CL		
(18.10) ▽	No Samples		≤251	CL		
20			13.5	CL	18' - 19'; Moist, dark greenish gray (5GY 4/1) <b>CLAY</b> with fine- to coarse-grained sand and rock; moderate hydrocarbon odor	
			4.4	CL		
25					Total Boring Depth = 20 fbg	2.25"
					Set 0.75"-diameter PVC piezometer casing (10' screen + 10' blank riser); periodically measured depth to groundwater using electronic meter (dry on 11/8/15 & 11/9/15; 18.1 fbg on 11/13/15); collected grab groundwater sample on 11/13/15 @1110 AM (Sample ID B28-GW).	

Depth to groundwater measured in PW-1 located approximately 30 feet northwest of B28, @ 13.5 fbg.

Fr:9497\_B28

**BORING NUMBER: B28**  
**LOCATION:** 5930 College Avenue, Oakland, CA  
**PROJECT NO:** 9497  
**DRILLING CONTRACTOR:** EnProbe  
**DRILLING METHOD:** Hand Auger / GeoProbe  
**DRILLING DATE:** November 8, 2015

Logged By: B. Wheeler    Checked By: M. Youngkin

**Legend/Notes:**

fbg = feet below grade; toc = top of well casing  
 ppm = parts per million; NR = no sample recovery  
 ☒ = sample interval  
 ▒ = sample retained  
 ▽ = Depth to groundwater (non-static) measured from grade surface on November 13, 2015

## SOIL GAS WELL CONSTRUCTION LOG B28V

Depth (fbg)	Recovery/ Sample ID	Blow Counts (#/6")	Organic Vapor (ppm)	USCS Soil Type	Description	Soil Gas Probe Construction Detail
1	Hand Auger No Samples			ML	Concrete Slab (6") 0.5' - 4': Damp, moderate to dark yellowish brown (10YR 5/4, 4/2) <b>SILT</b> , slightly clayey (See Description B28).	
5				CL	4'-18': Damp to moist, moderate yellowish brown (10YR 5/4) <b>CLAY</b> , soft to firm (See Description B28).  Total Borehole Depth = 5 fbg Total Soil Gas Well Depth = 5 fbg	
10						
15						
20						
25						

Fr:9497 B28V

<p><b>BORING NUMBER: B28V</b>  <b>LOCATION:</b> 5930 College Avenue, Oakland, CA  <b>PROJECT No:</b> 9497  <b>DRILLING CONTRACTOR:</b> En Probe  <b>DRILLING METHOD:</b> Hand Auger  <b>DRILLING DATE:</b> November 8, 2015  <b>Logged By:</b> B.Wheeler <b>Checked By:</b> M.Youngkin</p>	<p><b>Legend/Notes:</b>                  fbg = feet below grade                  ppm = parts per million                  ☒ = Lithologic sample interval                  ▒ = Analytical sample</p> <p style="text-align: right;">NA = Not applicable</p>
Page 1 of 1	
Golden Gate Tank Removal, Inc.	

## LOG OF BORING B29

Depth (fbg)	Recovery/ Sample ID	Time	Organic Vapor (ppm)	USCS Soil Type	Description	Boring Backfill Detail
1	B29-1	1100	1.7	ML	Concrete Slab (6")	Concrete (0'-0.5')
	B29-3	1110	3.2		0.5' – 4.5': Damp, moderate to dark yellowish brown (10YR 5/4, 4/2) <b>SILT</b> , slightly clayey.	
5	B29-5	1200	0.4	CL	4.5' - 20': Damp, moderate to dark yellowish brown (10YR 5/4, 4/2) <b>CLAY</b> , silty with trace fine- to coarse-grained sand, firm.	Portland Type I-II Cement (0.5'-20')
	B29-7	1202	0.8			
	B29-9	1210	0.9			
10	B29-14	1215	3.4			
	No Samples		0.3		12'-16.5', Same; soft	
			1.4		16.5'-20'; same, with fine- to coarse-grained sand & rock fragments; color mottling with dark yellowish orange (10YR 6/6) and light brown (5YR 6/6)	
(18.95) ▽			0.0			
20			0.0		Total Boring Depth = 20 fbg	2.25"
			0.0		Set 0.75"-diameter PVC piezometer casing (10' screen + 10' blank riser); periodically measured depth to groundwater using electronic meter (dry on 11/8/15 & 11/9/15; 18.95 fbg on 11/13/15); collected grab groundwater sample on 11/13/15 @1050 AM (Sample ID B29-GW).	
25						

Depth to groundwater measured in PW-1 located approximately 17 feet south-southwest of B29, @ 13.5 fbg.

Fr:9497\_B29

**BORING NUMBER: B29**  
**LOCATION:** 5930 College Avenue, Oakland, CA  
**PROJECT NO:** 9497  
**DRILLING CONTRACTOR:** EnProbe  
**DRILLING METHOD:** Hand Auger / GeoProbe  
**DRILLING DATE:** November 8, 2015

Logged By: B. Wheeler    Checked By: M. Youngkin

**Legend/Notes:**

fbg = feet below grade; toc = top of well casing  
 ppm = parts per million; NR = no sample recovery  
 ☒ = sample interval  
 ▒ = sample retained  
 ▽ = Depth to groundwater (non-static) measured from grade surface on November 13, 2015

Page 1 of 1

**Golden Gate Tank Removal, Inc.**

## SOIL GAS WELL CONSTRUCTION LOG B29V

Depth (fbg)	Recovery/ Sample ID	Blow Counts (#/6")	Organic Vapor (ppm)	USCS Soil Type	Description	Soil Gas Probe Construction Detail
1	Hand Auger No Samples			ML	Concrete Slab (6") 0.5'-4.5': Damp, moderate to dark yellowish brown (10YR 5/4, 4/2) <b>SILT</b> , slightly clayey (See Description B29).	
5				CL	4.5'-18': Damp, moderate to dark yellowish brown (10YR 5/4, 4/2) <b>CLAY</b> , silty with trace fine- to coarse-grained sand, firm (See Description B29).  Total Borehole Depth = 5 fbg Total Soil Gas Well Depth = 5 fbg	
10						
15						
20						
25						

Fr:9497 B29V

**BORING NUMBER: B29V**  
**LOCATION:** 5930 College Avenue, Oakland, CA  
**PROJECT No:** 9497  
**DRILLING CONTRACTOR:** En Probe  
**DRILLING METHOD:** Hand Auger  
**DRILLING DATE:** November 8, 2015  
**Logged By:** B.Wheeler **Checked By:** M.Youngkin

**Legend/Notes:**

- fbg = feet below grade
- ppm = parts per million
- ☒ = Lithologic sample interval
- = Analytical sample

NA = Not applicable

## LOG OF BORING B30

Depth (fbg)	Recovery/ Sample ID	Time	Organic Vapor (ppm)	USCS Soil Type	Description	Boring Backfill Detail
1 5 10 15 20 25	B30-0.5	1005	4.2	ML	Concrete Slab (5")	Concrete (0'-0.5')
	B30-3	1015	3.5		0.5'-4': Damp, dusky yellowish brown (10YR 2/2) <b>SILT</b> with trace fine- to coarse-grained sand and organic root material.	
	B30-5	1020	2.7	@ 4', Same; change in color to dark yellowish brown (10YR 4/2).		
	B30-7	1022	1.5	5'-20': Damp to moist, moderate to dark yellowish brown (10YR 5/4, 4/2) <b>CLAY</b> , silty with trace rock fragments, firm.		
	B30-9.5	1025	1.2	12'-16.5', Same; soft	Portland Type I-II Cement (0.5'-20')	
	B30-14	1045	281	14'-14.5', Same; change in color to dark greenish gray (5GY 4/1); slight to moderate hydrocarbon odor.		
	No Samples		238	16.5'-20'; same, moist with fine- to coarse-grained sand & rock fragments.		
	(18.1) ∇		10	18.5'-19.5', Same; change in color to olive gray (5Y 4/1).		
	20		4.1	Total Boring Depth = 20 fbg	2.25"	
	25		0.8	Set 0.75"-diameter PVC piezometer casing (10' screen + 10' blank riser); periodically measured depth to groundwater using electronic meter (dry on 11/8/15 & 11/9/15; 18.1 fbg on 11/13/15); collected grab groundwater sample on 11/13/15 @0920 AM (Sample ID B30-GW).		

**BORING NUMBER: B30**  
**LOCATION: 5930 College Avenue, Oakland, CA**  
**PROJECT NO: 9497**  
**DRILLING CONTRACTOR: EnProbe**  
**DRILLING METHOD: Hand Auger / GeoProbe**  
**DRILLING DATE: November 8, 2015**

Logged By: B. Wheeler    Checked By: M. Youngkin

**Legend/Notes:**

fbg = feet below grade; toc = top of well casing  
 ppm = parts per million; NR = no sample recovery  
 ☒ = sample interval  
 ■ = sample retained  
 ∇ = Depth to groundwater (non-static) measured from grade surface on November 13, 2015

**Golden Gate Tank Removal, Inc.**

## LOG OF BORING B31

Depth (fbg)	Recovery/ Sample ID	Time	Organic Vapor (ppm)	USCS Soil Type	Description	Boring Backfill Detail
1	B31-1	1340	36.3		Concrete Sidewalk (5")	
	B31-3	1345	18.5	ML	0.5'-4': Damp, dusky yellowish brown (10YR 2/2) <b>SILT</b> , slightly clayey, with organic root material and rock fragments.	Soil Gas Well Construction (0'-6.5'): See Well Log B31V
5	B31-5	0900	0		@ 4'-6': Same with increased clay content; change in color to dark yellowish brown (10YR 4/2).	
	No Samples NR				6'-16': Damp to moist, moderate yellowish brown (10YR 5/4) <b>CLAY</b> , silty, soft.	Granular Bentonite, Dry (6.5'-7.5')
10	B31-9	0910	2.0	CL	@ 9.5'-13.5': Same, with trace fine-grained sand and rock fragments, and change in color to olive gray (5Y 4/1); slight Hydrocarbon odor.	Portland Type I-II Cement (7.5'-16')
	B31-11.5	0920	10.2			
15	B31-14.5	0930	3.4			
			0.1			
					Total Boring Depth = 16 fbg	2.25"
20					Set 0.75"-diameter PVC piezometer casing (10' screen + 10' blank riser); periodically measured depth to groundwater using electronic meter (dry on 11/9/15 @ 0950A and 1230P; no grab groundwater sample collected. Soil Gas Well B31V constructed in same borehole (See Soil Gas Well Log B31V).	
25						

**BORING NUMBER: B31**  
**LOCATION: 5930 College Avenue, Oakland, CA**  
**PROJECT NO: 9497**  
**DRILLING CONTRACTOR: EnProbe**  
**DRILLING METHOD: Hand Auger / GeoProbe**  
**DRILLING DATE: November 8 & 9, 2015**

Logged By: B. Wheeler    Checked By: M. Youngkin

**Legend/Notes:**

fbg = feet below grade; toc = top of well casing  
 ppm = parts per million; NR = no sample recovery  
 ☒ = sample interval  
 ■ = sample retained



## SOIL GAS WELL CONSTRUCTION LOG B31V

Depth (fbg)	Recovery/ Sample ID	Blow Counts (#/6")	Organic Vapor (ppm)	USCS Soil Type	Description	Soil Gas Probe Construction Detail
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;"> <p>1</p> <p>Hand Auger</p> </div> <div style="margin-bottom: 20px;"> <p>5</p> <p>Hand Auger</p> </div> <div style="margin-top: 100px;"> <p>10</p> </div> <div style="margin-top: 20px;"> <p>15</p> </div> <div style="margin-top: 20px;"> <p>20</p> </div> <div style="margin-top: 20px;"> <p>25</p> </div> </div>	<p>B31-1</p> <p>B31-3</p> <p>B31-5</p>		<p>36.3</p> <p>18.5</p> <p>0</p>	<p style="text-align: center;">ML</p> <p style="text-align: center;">CL</p>	<p>Concrete Slab (6")</p> <p>0.5'-4': Damp, dusky yellowish brown (10YR 2/2) <b>SILT</b>, slightly clayey, with organic root material and rock fragments (See Description B31).</p> <p>@ 4'-6': Same with increased clay content; change in color to dark yellowish brown (10YR 4/2) - See Description B31.</p> <p>6'-16': Damp to moist, moderate yellowish brown (10YR 5/4) <b>CLAY</b>, soft (See Description B31).</p> <p>Total Borehole Depth = 6.5 fbg Total Soil Gas Well Depth = 6.5 fbg</p> <p>Soil Gas Well B31V constructed in borehole B31 (See Boring Log B31).</p>	<p>5"-Dia. Well Box in Concrete (0'-1')</p> <p>0.25"-O.D. Teflon Tubing (6.5' + 2')</p> <p>Portland Cement (1'-5')</p> <p>Granular Bentonite, Hydrated (5'-5.5') / Dry (5.5'-6')</p> <p>#3 Silica Sand (6'-6.5')</p> <p>3.25"</p> <p>Screened Sample Point @ 5 fbg (Stainless, 0.25"-Dia., 2" Length)</p>

Fr:9497\_B31V

**BORING NUMBER:** B31V  
**LOCATION:** 5930 College Avenue, Oakland, CA  
**PROJECT No:** 9497  
**DRILLING CONTRACTOR:** En Probe  
**DRILLING METHOD:** Hand Auger  
**DRILLING DATE:** November 8, 2015  
**Logged By:** B.Wheeler **Checked By:** M.Youngkin

**Legend/Notes:**

fbg = feet below grade  
 ppm = parts per million  
 = Lithologic sample interval  
 = Analytical sample

NA = Not applicable

## LOG OF BORING B32

Depth (fbg)	Recovery/ Sample ID	Time	Organic Vapor (ppm)	USCS Soil Type	Description	Boring Backfill Detail
1	B32-1	1425	8.8	ML	Concrete Sidewalk (5")	Concrete (0'-0.5')
	B32-3	1435	5.1		0.5'-4': Damp to moist, dusky yellowish brown (10YR 2/2) <b>SILT</b> , clayey, with organic root material (soft).	
5	B32-5	0815	1.2	CL	4'-20': Damp to moist, moderate yellowish brown (10YR 5/4) <b>CLAY</b> , silty with trace fine-grained sand and rock fragments, soft to firm.	Portland Type I-II Cement (0.5'-20')
	B32-7	0820	0.4			
	B32-9	0825	0.4			
10	B32-13	0840	0.2			
12.5	(12.5) ∇					
15	No Samples					
20					Total Boring Depth = 20 fbg	2.25"
25					Set 0.75"-diameter PVC piezometer casing (10' screen + 10' blank riser); periodically measured depth to groundwater using electronic meter (dry on 11/9/15 @ 0900A; 12.5 fbg on 11/13/15); collected grab groundwater sample on 11/13/15 @ 1145 AM (Sample ID B32-GW).	

**BORING NUMBER:** B32  
**LOCATION:** 5930 College Avenue, Oakland, CA  
**PROJECT NO:** 9497  
**DRILLING CONTRACTOR:** EnProbe  
**DRILLING METHOD:** Hand Auger / GeoProbe  
**DRILLING DATE:** November 8 & 9, 2015

Logged By: B. Wheeler    Checked By: M. Youngkin

**Legend/Notes:**

fbg = feet below grade; toc = top of well casing  
 ppm = parts per million; NR = no sample recovery  
 ☒ = sample interval  
 ■ = sample retained  
 ∇ = Depth to groundwater (non-static) measured from grade surface on November 13, 2015

Page 1 of 1

**Golden Gate Tank Removal, Inc.**

Fr:9497\_B32

## LOG OF BORING B33

Depth (fbg)	Recovery/ Sample ID	Time	Organic Vapor (ppm)	USCS Soil Type	Description	Boring Backfill Detail	
	B33-1	1130	0.0	ML	Asphaltic Concrete (3") / Concrete (3") / Baserock (4") 0.8'-2.5': Damp to moist, dusky yellowish brown (10YR 2/2) <b>SILT</b> , slightly clayey.	Concrete (0'-0.5')	
	B33-3	1135	1.7		2.5'-3.5': Damp, dark yellowish brown (10YR 4/2) <b>CLAY</b> , gravelly, sandy.		
	B33-5	1145	0.4		3.5'-14': Damp, dark yellowish brown (10YR 4/2) with olive gray (5Y 4/1) <b>CLAY</b> , soft to firm.		
	B33-7	1150	2.9		@ 7'-9': Same, with trace organic root material and rock fragments.		
	B33-9	1200	1.0		<b>CL</b>	Portland Type I-II Cement (0.5'-20')	
	B33-12	1205	1.5				
			0.0				
			0.0				
			0.0				
			0.0				
		No Samples		0.0		17.5'-18': Damp, dark yellowish orange (10YR 6/6) <b>SAND</b> lense, fine-grained, slightly clayey.	
				0.0	<b>CL</b>	18'-20': Damp, moderate yellowish brown (10YR 4/2) and dark yellowish orange (10YR 6/6) <b>CLAY</b> , sandy w/ trace rock fragments, firm.	2.25"
					Total Boring Depth = 20 fbg		
					Set 0.75"-diameter PVC piezometer casing (10' screen + 10' blank riser); periodically measured depth to groundwater using electronic meter (dry on 11/9/15 @ 1230P and 1415P; no grab groundwater sample collected).		

Fr:9497\_B33

<p><b>BORING NUMBER: B33</b>  <b>LOCATION: 5930 College Avenue, Oakland, CA</b>  <b>PROJECT NO: 9497</b>  <b>DRILLING CONTRACTOR: EnProbe</b>  <b>DRILLING METHOD: Hand Auger / GeoProbe</b>  <b>DRILLING DATE: November 9, 2015</b></p> <p>Logged By: B. Wheeler    Checked By: M. Youngkin</p>	<p style="text-align: right;">Page 1 of 1</p> <p><b>Legend/Notes:</b>  fbg = feet below grade; toc = top of well casing  ppm = parts per million; NR = no sample recovery  ☒ = sample interval  ■ = sample retained</p> <p style="text-align: center;"><b>Golden Gate Tank Removal, Inc.</b></p>
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## LOG OF BORING B34

Depth (fbg)	Recovery/ Sample ID	Time	Organic Vapor (ppm)	USCS Soil Type	Description	Boring Backfill Detail
1	B34-1	0840	1.3	ML	Concrete Slab (6")	Concrete (0'-0.5')
	B34-3	0845	2.6		@ 3'; Same; change in color to moderate yellowish brown (10YR 5/4).	
5	B34-5	0900	0.9	CL	@ 7'; increased clay content (soft to firm).	
	B34-7	0902	0		7.5'-20': Damp to moist, moderate yellowish brown (10YR 5/4) <b>CLAY</b> , silty with trace rock fragments, firm.	Portland Type I-II Cement (0.5'-20')
10	B34-9.5	0910	16.2		@ 11', Same; change in color to brownish gray (5YR 4/1) with trace coarse-grained sand; moderate hydrocarbon odor.	
	B34-11	0915	<233		13'-13.5'; fine- to coarse-grained sand lense present; moderate hydrocarbon odor.	
15	B34-13.5	1045	<824			
	No Samples		34.9		@ 16'; Damp to moist, moderate yellowish brown (10YR 5/4) mottled with olive gray (5Y 4/1) <b>CLAY</b> ; slight hydrocarbon odor	
(18.7) ∇			20		@ 20', Same; change in color to dark yellowish orange (10YR 6/6) with fine-grained sand & rock fragments.	
20			14.2		Total Boring Depth = 20 fbg	2.25"
25					Set 0.75"-diameter PVC piezometer casing (10' screen + 10' blank riser); periodically measured depth to groundwater using electronic meter (dry on 11/8/15 & 11/9/15; 18.7 fbg on 11/13/15); collected grab groundwater sample on 11/13/15 @0845 AM (Sample ID B34-GW).	

Fr:9497\_B34

**BORING NUMBER: B34**  
**LOCATION:** 5930 College Avenue, Oakland, CA  
**PROJECT NO:** 9497  
**DRILLING CONTRACTOR:** EnProbe  
**DRILLING METHOD:** Hand Auger / GeoProbe  
**DRILLING DATE:** November 8, 2015

Logged By: B. Wheeler    Checked By: M. Youngkin

Page 1 of 1

**Legend/Notes:**  
fbg = feet below grade; toc = top of well casing  
ppm = parts per million; NR = no sample recovery  
☒ = sample interval  
■ = sample retained  
∇ = Depth to groundwater (non-static) measured from grade surface on November 13, 2015

**Golden Gate Tank Removal, Inc.**

## LOG OF BORING B35

Depth (fbg)	Recovery/ Sample ID	Time	Organic Vapor (ppm)	USCS Soil Type	Description	Boring Backfill Detail
1	B35-1	0955	0.2	ML	Concrete Sidewalk (5")	Concrete (0'-0.5')
	B35-3	1000	0.0		0.5'-4': Damp, dusky yellowish brown (10YR 2/2) <b>SILT</b> , slightly clayey, with organic root material and rock fragments.	
5	B35-5	1025	0.0		@ 4'-6': Same with increased clay content; change in color to dark yellowish brown (10YR 4/2).	
	B35-7	1030	0.1	CL	6'-16': Damp to moist, moderate yellowish brown (10YR 5/4) <b>CLAY</b> , silty, soft.	
	B35-9	1035	157		@ 9.5'-13.5': Same, with trace fine-grained sand and rock fragments, and change in color to olive gray (5Y 4/1); slight Hydrocarbon odor.	Portland Type I-II Cement (0.5'-16')
10	B35-12	1050	≤1700			
	No Samples		≤994			
15			148			
			6.5			
					Total Boring Depth = 16 fbg	2.25"
20					Set 0.75"-diameter PVC piezometer casing (10' screen + 10' blank riser); periodically measured depth to groundwater using electronic meter (dry on 11/9/15 @ 1055A and 1315P; no grab groundwater sample collected).	
25					Depth to groundwater measured in MW-1 & MW-3 located approximately 20 feet north & south of B35, respectively, @ 13.0 and 12.0 fbg.	

**BORING NUMBER: B35**  
**LOCATION:** 5930 College Avenue, Oakland, CA  
**PROJECT NO:** 9497  
**DRILLING CONTRACTOR:** EnProbe  
**DRILLING METHOD:** Hand Auger / GeoProbe  
**DRILLING DATE:** November 9, 2015

Logged By: B. Wheeler    Checked By: M. Youngkin

**Legend/Notes:**

fbg = feet below grade; toc = top of well casing  
 ppm = parts per million; NR = no sample recovery  
 ☒ = sample interval  
 ■ = sample retained

# DATA GAP INVESTIGATION REPORT

**Sheaff's Garage  
5930 College Avenue  
Oakland, California 94618**

**ACHCSA Fuel Leak Case No. RO0000377**

## ***APPENDIX D***

### ***ADDITIONAL DOCUMENTATION***

EPA ON-LINE TOOLS FOR SITE ASSESSMENT CALCULATION SHEET  
WASTE DISPOSAL DOCUMENTATION / MANIFEST  
GEOTRACKER UPLOAD CONFIRMATION SHEETS

# EPA On-line Tools for Site Assessment Calculation

## Hydraulic Gradient -- Magnitude and Direction

**Gradient Calculation** from fitting a plane to as many as thirty points

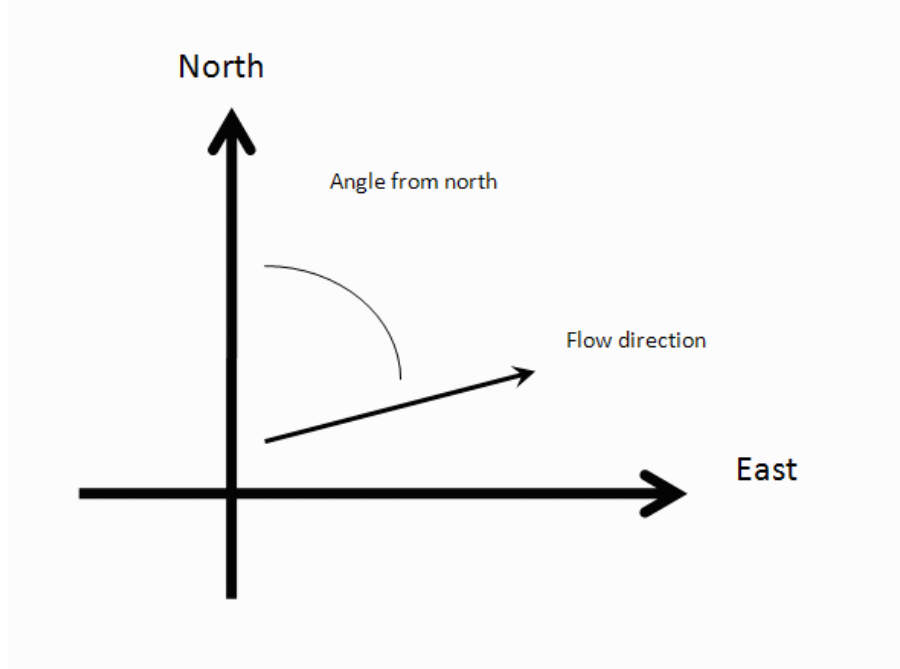
$$\begin{aligned}
 a x_1 + b y_1 + c &= h_1 \\
 a x_2 + b y_2 + c &= h_2 \\
 a x_3 + b y_3 + c &= h_3 \\
 &\dots \\
 a x_{30} + b y_{30} + c &= h_{30}
 \end{aligned}$$

where  $(x_i, y_i)$  are the coordinates of the well and  $h_i$  is the head

$i = 1, 2, 3, \dots, 30$

The coefficients  $a$ ,  $b$ , and  $c$  are calculated by a least-squares fitting of the the data to a plane

The gradient is calculated from the square root of  $(a^2 + b^2)$  and the angle from the arctangent of  $a/b$  or  $b/a$  depending on the quadrant



### Inputs

Site Name

Date

Calculation basis

Coordinates

I.D.	x-coordinate	y-coordinate	head	ft
1) MW-1	6055822.91	2135878.96	183.48	
2) MW-3	6055818.98	2135842.80	183.33	
3) PW-1	6055924.91	2135914.96	185.15	
4)				
5)				
6)				
7)				
8)				
9)				
10)				
11)				
12)				
13)				
14)				
15)				
16)				

17)			
18)			
19)			
20)			
21)			
22)			
23)			
24)			
25)			
26)			
27)			
28)			
29)			
30)			

**Results**

Number of Points Used in Calculation	3
Max. Difference Between Head Values	0.5547
Gradient Magnitude (i)	0.01570
Flow direction as degrees from North (positive y axis)	261.0
Coefficient of Determination ( $R^2$ )	1.00



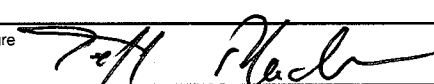
WCMS

Last updated on 9/6/2015



# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Document No. <b>120915002</b>	2. Page 1 of 1
3. Generator's Name and Mailing Address <b>Stauder Automotive 5930 College Ave. Oakland, CA 94618</b>		4. Generator's Phone ( <b>510</b> ) <b>300-8131</b>			
5. Transporter 1 Company Name <b>Big Sky Enterprises</b>		6. US EPA ID Number <b>CAL 000 301 639</b>		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone <b>800-479-7993</b>	
9. Designated Facility Name and Site Address <b>Big Sky Enterprises 401 W. Channel Rd Benicia, CA 94510</b>		10. US EPA ID Number <b>CAL 000 301 639</b>		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone <b>707-747-5501</b>	
11. WASTE DESCRIPTION			Containers		13. Total Quantity
			No.	Type	14. Unit Wt./Vol.
a. <b>Non Hazardous Waste Solid</b>			<b>001</b>	<b>Dm</b>	<b>300</b>
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information <b>wear PPE</b>  <b>Emergency Contact Jeff Rhodes 800-479-7993</b>					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name <b>In lieu of Charles Seaton</b>				Signature 	
				Date <b>12   09   15</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name <b>Charles Seaton</b>				Signature 	
				Date <b>12   09   15</b>	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name				Signature	
				Date	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name <b>Jeff Rhodes</b>				Signature 	
				Date <b>12   09   15</b>	

NON-HAZARDOUS WASTE GENERATOR

TRANSPORTER

FACILITY

STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	Data Gap Investigation Report - 4Q2015 Groundwater Monitoring Sample Results
<u>Report Type:</u>	Site Investigation
<u>Facility Global ID:</u>	T0600102112
<u>Facility Name:</u>	SHEAFFS SERVICE GARAGE
<u>File Name:</u>	GGTR 1511123 5930 College Ave EDF.zip
<u>Organization Name:</u>	Golden Gate Tank Removal
<u>Username:</u>	GGTR
<u>IP Address:</u>	75.101.98.2
<u>Submittal Date/Time:</u>	3/10/2016 2:11:22 PM
<u>Confirmation Number:</u>	<b>2040525972</b>

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<u>Report Title:</u>	Data Gap Investigation Report - Soil Sample Results (B28-B31)
<u>Report Type:</u>	Site Investigation
<u>Facility Global ID:</u>	T0600102112
<u>Facility Name:</u>	SHEAFFS SERVICE GARAGE
<u>File Name:</u>	GGTR 1511128 5930 College EDF.zip
<u>Organization Name:</u>	Golden Gate Tank Removal
<u>Username:</u>	GGTR
<u>IP Address:</u>	75.101.98.2
<u>Submittal Date/Time:</u>	3/10/2016 11:14:09 AM
<u>Confirmation Number:</u>	<b>3832815587</b>

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<u>Report Title:</u>	Data Gap Investigation Report - Soil Sample Results (B31-B34)
<u>Report Type:</u>	Site Investigation
<u>Facility Global ID:</u>	T0600102112
<u>Facility Name:</u>	SHEAFFS SERVICE GARAGE
<u>File Name:</u>	GGTR 1511130 5930 College EDF.zip
<u>Organization Name:</u>	Golden Gate Tank Removal
<u>Username:</u>	GGTR
<u>IP Address:</u>	75.101.98.2
<u>Submittal Date/Time:</u>	3/10/2016 11:17:51 AM
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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	Data Gap Investigation Report - Soil Sample Results (B34&B35)
<u>Report Type:</u>	Site Investigation
<u>Facility Global ID:</u>	T0600102112
<u>Facility Name:</u>	SHEAFFS SERVICE GARAGE
<u>File Name:</u>	GGTR 1511131 College EDF Rev. 1.zip
<u>Organization Name:</u>	Golden Gate Tank Removal
<u>Username:</u>	GGTR
<u>IP Address:</u>	75.101.98.2
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<u>Report Title:</u>	Data Gap Investigation Report - Grab Groundwater Sample Results (B28,B29,B30,B32,B34)
<u>Report Type:</u>	Site Investigation
<u>Facility Global ID:</u>	T0600102112
<u>Facility Name:</u>	SHEAFFS SERVICE GARAGE
<u>File Name:</u>	GGTR 1511137 5930 College Ave EDF.zip
<u>Organization Name:</u>	Golden Gate Tank Removal
<u>Username:</u>	GGTR
<u>IP Address:</u>	75.101.98.2
<u>Submittal Date/Time:</u>	3/10/2016 11:29:54 AM
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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	Data Gap Investigation Report - Soil Gas Sample Results (B28V,B29V,B31V,SG-1,SG-2,SG-3,SSV-1)
<u>Report Type:</u>	Site Investigation
<u>Facility Global ID:</u>	T0600102112
<u>Facility Name:</u>	SHEAFFS SERVICE GARAGE
<u>File Name:</u>	GGTR 1511192 College Ave EDF Rev. 1.zip
<u>Organization Name:</u>	Golden Gate Tank Removal
<u>Username:</u>	GGTR
<u>IP Address:</u>	75.101.98.2
<u>Submittal Date/Time:</u>	3/11/2016 9:46:09 AM
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<u>Facility Global ID:</u>	T0600102112
<u>Facility Name:</u>	SHEAFFS SERVICE GARAGE
<u>File Name:</u>	9497 - Fig 3_Site Plan_Jan 2016.pdf
<u>Organization Name:</u>	Golden Gate Tank Removal
<u>Username:</u>	GGTR
<u>IP Address:</u>	75.101.98.2
<u>Submittal Date/Time:</u>	3/10/2016 2:22:49 PM
<u>Confirmation Number:</u>	<b>6505332708</b>

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UPLOADING A GEO\_WELL FILE

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<u>Submittal Type:</u>	GEO_WELL
<u>Report Title:</u>	Data Gap Investigation Report - 4Q2015 Groundwater Monitoring Data Results
<u>Facility Global ID:</u>	T0600102112
<u>Facility Name:</u>	SHEAFFS SERVICE GARAGE
<u>File Name:</u>	GEO_WELL.zip
<u>Organization Name:</u>	Golden Gate Tank Removal
<u>Username:</u>	GGTR
<u>IP Address:</u>	75.101.98.2
<u>Submittal Date/Time:</u>	3/10/2016 2:17:43 PM
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