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November 12, 2014

Mr. Keith Nowell Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Subject:

Site Investigation Report

Site:

76 Station No. 5191/5043

449 Hegenberger Road Oakland, California

Fuel Leak Case No. RO0000219

Dear Mr. Nowell:

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

If you have any questions or need additional information, please call:

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Sincerely,

PACIFIC CONVENIENCE & FUEL

WALTER SPRAGUE Director of Retail Services

Attachment



Site Investigation Report

76 Station No. 5191/5043 449 Hegenberger Road Oakland, CA

Alameda County Health Care Services Agency Fuel Leak Case No. RO0000219

Regional Water Quality Control Board San Francisco Bay No. 01-1601

GeoTracker Global ID No.T0600101476

Antea Group Project No. 142705191

November 12, 2014

Prepared for:
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1.0 INTRODUCTION

Antea Group has prepared this Site Investigation Report describing the advancement of three (3) soil borings down-gradient of the site located at 449 Hegenberger Road in Oakland, California. This work was performed as proposed in the Work Plan – Monitoring Well Installation dated November 21, 2013 submitted by Antea Group to the Alameda County Health Case Service Agency (ACHCSA) and modified by an approval email dated December 23, 2013 from Mr. Keith Nowell of the ACHCSA. A copy of the email is included as **Appendix A**.

1.1 Site Description

The site is currently an operating 76 station located at 449 Hegenberger Road in Oakland, California (**Figure 1**). The site contains six fuel dispensers on two islands under a single canopy, three fuel underground storage tanks (USTs) on the north side of the site, a carwash facility on the west side of the site, and a station building in the central portion of the site. The current site features are shown on **Figure 2**.

1.2 Previous Assessment

October 1991 - Four soil samples were collected from the product pipe trenches at depths of approximately 3 feet below ground surface (bgs) during a dispenser island modification. The product pipe trenches were subsequently excavated to the groundwater depth at 4 to 4.5 feet bgs. Historical soil analytical results are presented in **Table 1**.

<u>February 1992</u> - Three monitoring wells, MW-1 through MW-3, were installed at the site to depths ranging from 13.5 to 15 feet bgs. Historical soil analytical results are presented in **Table 1**. Monitoring well locations are shown on **Figure 2**.

<u>August 1992</u> - Three additional monitoring wells, MW-4 through MW-6, were installed at the site, each to a depth of 13.5 feet bgs. Historical soil analytical results are presented in **Table 1**. Monitoring well locations are shown on **Figure 2**.

<u>September 1994</u> - One 280-gallon waste-oil UST was removed from the site. The UST was made of steel, and no apparent holes or cracks were observed in the UST. One soil sample was collected from beneath



the former UST at a depth of approximately 9 feet bgs. No petroleum hydrocarbons were reported. Historical soil analytical results are presented in **Table 1**. The location of the former waste-oil UST is shown on **Figure 2**.

<u>January 1995</u> - Two additional monitoring wells, MW-9 and MW-10, were installed to depths of 13 and 15 feet bgs. In addition, two existing monitoring wells were destroyed in order to accommodate the construction of a car wash at the site. Monitoring wells MW-4 and MW-5 were fully drilled out and backfilled with neat cement. Historical soil analytical results are presented in **Table 1**. Monitoring well locations are shown on **Figure 2**.

March 1995 - Two 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST were removed from the site. Groundwater was encountered in the tank cavity at a depth of approximately 8.5 feet bgs. Soil samples contained total petroleum hydrocarbons as diesel (TPHd), benzene, and TPH as gasoline (TPHg). Approximately 125,000 gallons of groundwater were pumped from the site for remediation and properly disposed of off-site. Four fuel dispenser islands and associated product piping were also removed. Based on the results of the confirmation samples, the product dispenser islands were over excavated to approximately 6 feet bgs. Historical soil analytical results are presented in **Table 1**.

<u>March-April 1995</u> - During demolition activities of the former station building, soil samples were collected from two excavations, which were subsequently over excavated. Confirmation samples contained petroleum hydrocarbons. An additional area on the south side of the former station building was excavated based on photo-ionization detector (PID) readings. Two monitoring wells, MW-1 and MW-2, were destroyed in order to allow for over excavation activities to extend to an area adjacent to the dispenser islands in the southeastern quadrant of the site. The excavated areas were subsequently backfilled with clean-engineered fill. Historical soil analytical results are presented in **Table 1**.

<u>April 1997</u> - Two additional monitoring wells, MW-7 and MW-8, were installed off-site to the south and west on the neighboring property to a depth of 13 feet bgs. In addition, monitoring well MW-3, which was damaged during site demolition activities was drilled out and replaced. Historical soil analytical results are presented in **Table 1**. Monitoring well locations are shown on **Figure 2**.

October 2003 - Site environmental consulting responsibilities were transferred to TRC.

<u>April 8-9, 2005</u> - TRC conducted a 24-hour dual phase extraction (DPE) test at the site using monitoring well MW-6. The 24-hour DPE test was only moderately successful at removing vapor-phase petroleum



hydrocarbons from the subsurface; therefore, TRC recommended DPE no longer be considered a viable remedial alternative for the site.

October 2007 - Site environmental consulting responsibilities were transferred to Delta Consultants.

<u>December 2009</u> - Delta advanced two borings, B-4 and B-5, to depths of 20 feet bgs and 32 feet bgs, respectively. Analytical results from the soil and groundwater samples collected from these two borings indicated that the soil and groundwater were impacted by petroleum hydrocarbons at these locations. Historical soil analytical results are presented in **Table 1**. Boring locations are shown on **Figure 2**.

June 2010 - Delta advanced four borings to be completed as monitoring wells MW-11, MW-12, MW-12A, and MW-13. The wells were installed to depths of 15 feet bgs (MW-13), 20 feet bgs (MW-11 and MW-12), and 34 feet bgs (MW-12A). Analytical results from the soil samples collected from the borings for monitoring wells MW-12 and MW-12A indicated that the soil was impacted by petroleum hydrocarbons. Historical soil analytical results are presented in **Table 1**. Monitoring well locations are shown on **Figure 2**.

<u>May 2011</u> - Antea Group (formally Delta Consultants) installed four 2-inch diameter monitoring wells, MW-14 through MW-17, and advanced one soil boring, B-6, at the site. All four monitoring wells were installed with ten feet of screen from 3 feet bgs to 13 feet bgs. Historical soil analytical results are presented in **Table 1**. Monitoring well locations are shown on **Figure 2**.

<u>March 2012</u> - Antea Group advanced five borings (HPB-1 through HPB-5) at the site. The borings were advanced using direct push technology. The borings were used to obtain a hydraulic profile of the substrate beneath the site.

<u>July 2013</u> - Antea Group advanced ten soil borings (SB-1 through SB-10) at the site. The borings were advanced using direct push technology. The borings were used to delineate petroleum hydrocarbon impacted soil around monitoring well MW-6. Historical soil analytical results are presented in **Table 1**. Sample locations are shown on **Figure 2**.

<u>September 2014</u> - Antea Group advanced two (2) cone penetration test (CPT) borings CPT-1 and CPT-2 in preparation for soil excavations on site. Soil and groundwater samples were not collected. Data from the CPT borings was used to help design shoring for excavations.



1.3 Sensitive Receptors

April 24, 2006 TRC completed a sensitive receptor survey for the site. According to the Department of Water Resources (DWR) records, there are two irrigation wells and one industrial well located within one-half mile of the site. The nearest well, is an irrigation well located approximately 1,080 feet southeast of the site. The other irrigation well is located approximately 2,623 feet southeast of the site and the industrial well is located approximately 2,570 feet northeast of the site.

In addition, two surface water bodies were observed within a one-half mile radius of the site. San Leandro Creek is located approximately 1,400 feet southwest of the site and flows into the San Leandro Bay. Elmhurst Creek is located approximately 2,220 feet north of the site and also flows into the San Leandro Bay.

2.0 SITE GEOLOGY AND HYDROGEOLOGY

The site is underlain by Holocene-age bay mud. The bay mud typically consists of unconsolidated, saturated clay and sandy clay that is rich in organic material. The bay mud locally contains lenses and stringers of silt, well-sorted sand and gravel, and beds of peat.

The most recent monitoring and sampling event was conducted at the site on September 5, 2014. The measured depth to groundwater ranged from 3.49 feet to 5.47 feet below top of casing (TOC). The groundwater flow direction was south with a hydraulic gradient of 0.003 foot per foot.

3.0 BORING ADVANCEMENT ACTIVITIES

3.1 Permitting, Utility Notification, and Borehole Clearance

Before commencing field activities Antea Group prepared a Health and Safety Plan in accordance with state and federal requirements for use during investigation activities. An access agreement was obtained from the off-site property owner. A drilling permit was obtained for the three (3) soil borings from the Alameda County Public Works Agency and an encroachment permit was obtained from the City of Oakland (**Appendix B**). Prior to drilling, Underground Service Alert (USA) was notified as required by law and a private utility locator was employed to clear each boring location for underground utilities. In



addition, a hand auger was used to clear each boring location to a depth of 5 feet bgs prior borehole advancement.

3.2 Soil Borings

On September 22 and 23, 2014, Gregg Drilling and Testing Inc., (Gregg) under the supervision of an Antea Group geologist, advanced three (3) soil borings (SB-13 through SB-15) using a direct push drill rig. Soil samples were collected continuously beginning at a depth of approximately 5 feet bgs and logged using the Unified Soil Classification System (USCS) for lithologic interpretation and field screened for the presence of volatile organic compounds by headspace analysis using a pre-calibrated PID. Soil samples from the borings retained for laboratory analysis were chosen based on PID readings, changes in lithology, groundwater elevation, and the total depth of the boring. Soil borings SB-13, SB-14, and SB-15 were advanced to depths of 20, 15, and 16 feet bgs, respectively. Subsequent to groundwater sampling, each boring was backfilled with neat cement. Soil borings SB-13 and SB-15 were capped with concrete and SB-14 was capped with soil to match surrounding conditions. Boring logs are presented as **Appendix C**.

3.3 Soil Sampling Analysis

Soil samples retained for analysis were analyzed for TPHg , benzene, toluene, ethylbenzene, and total xylenes (collectively BTEX), methyl tertiary-butyl ether (MTBE), tertiary-butyl alcohol (TBA), and ethanol by Environmental Protection Agency (EPA) Method 8260B; and TPHd by EPA Method 8015M; with silica gel treatment. The samples were submitted with chain-of-custody (COC) documentation to Kiff Analytical LLC. (Kiff), a National Environmental Laboratory Accreditation Program (NELAP) certified laboratory (Certification No. 08263CA). The complete analytical report, COC, and Antea Group's laboratory data validation checklist are presented as **Appendix D**.

3.4 Grab-Groundwater Sampling

Grab-groundwater samples were collected from each of the soil borings. Subsequent to the completion of each soil boring, a temporary casing was lowered into each boring and the groundwater was allowed to stabilize before the grab-groundwater samples were collected using disposable bailers. Grab-groundwater samples retained for analysis were analyzed for TPHg, BTEX, MTBE, TBA, and ethanol by EPA Method 8260B; and TPHd with silica gel treatment by EPA Method 8015M. The samples were



submitted with chain-of-custody documentation to Kiff. The complete analytical report, COC, and Antea Group's laboratory data validation checklist are presented as **Appendix D**.

3.5 Quality Assurance / Quality Control

Antea Group's Quality Assurance / Quality Control (QA/QC) measures included a detailed QA/QC data validation check on the Kiff analytical report for the September 2014 site investigation. Antea Group's laboratory data validation checklist, the Kiff analytical report, and COC are presented as **Appendix D**.

Laboratory QA/QC Performed:	Yes (validated by Antea Group)
Laboratory Data Qualifiers:	Yes – three qualifiers*
Are the data valid for their intended purpose?	Yes, the data are valid

- * The Method Blank associated with sample SB-13GW contained 56 μg/L TPH as Diesel (Silica Gel). Since TPH as Diesel (Silica Gel) was reported at a concentration greater than 10 times this value, no data were flagged.
- * Recoveries for some Matrix Spike/ Matrix Spike Duplicate analytes were outside control limits. This may indicate a bias for the samples that were spiked. Since the LCS recoveries were within control limits, no data are flagged.
- * LCS and Matrix Spike/Matrix Spike Duplicate results associated with samples SB-13GW and SB-15GW for the analyte Ethanol were outside of control limits, indicating a possible high bias for this analyte. Since Ethanol was not detected above the Method Reporting Limit in the associated samples, no data are flagged.

3.6 Disposal of Drill Cuttings and Wastewater

Drill cuttings generated during soil boring advancement activities were placed into a properly labeled 55-gallon Department of Transportation (DOT) approved steel drum. A sample of the drill cuttings was collected, properly labeled, placed on ice, and submitted to a California-certified laboratory for analysis of TPHg, BTEX, and MTBE by EPA Method 8260, and CAM 17 Metals by EPA Method 6010. Chain-of-custody documentation accompanied the sample during transportation to the laboratory. The complete analytical report, COC and laboratory data validation checklist are presented as **Appendix D**. The generated waste has been removed from the site and disposed of at an approved waste facility. A copy of the waste manifest is presented as **Appendix E**.



4.0 RESULTS OF THE INVESTIGATION

4.1 Soil Analytical Results

Analytical results from the soil samples collected during this investigation reported concentrations of TPHd with silica gel ranging from 1.2 milligrams per kilogram (mg/kg) (SB-15d13.5) to 1,800 mg/kg (SB-13d8.5). However, the laboratory indicated that the "hydrocarbons are higher-boiling than typical diesel fuel" for each of the soil samples. All other constituents analyzed for were below the laboratory's indicated reporting limits. The soil analytical results are presented in **Table 1** and on **Figure 3**. A copy of the laboratory report, COC, and a laboratory validation checklist are presented as **Appendix D**.

4.2 Grab Groundwater Analytical Results

Analytical results from the grab groundwater samples collected during this investigation reported a concentration of toluene at 5.9 micrograms per liter (μ g/L) (SB-15GW) and concentrations of TPHd with silica gel treatment ranging from 280 μ g/L (SB-15GW) to 480 μ g/L (SB-14GW). However, the laboratory indicated that the "hydrocarbons are higher-boiling than typical diesel fuel" for each of the groundwater samples. All other constituents analyzed for were below the laboratory's indicated reporting limits. The grab groundwater analytical results are presented in **Table 2** and on **Figure 3**. A copy of the laboratory report, COC, and a laboratory validation sheet are presented as **Appendix D**.

5.0 DISSCUSSION

With the exception of toluene in the grab groundwater sample from soil boring SB-15, the only reported petroleum hydrocarbon during this investigation was TPHd. TPHd was reported in each of the eight soil and three grab groundwater samples submitted for analysis. The laboratory indicated that the "hydrocarbons are higher-boiling than typical diesel fuel". This is indicative of heavier lubricating oils (motor oil). According to EPA's report *How To Effectively Recover Free Product At Leaking Underground Storage Tank Sites* published in September 1996, middle distillates such as diesel are "more dense, much less volatile, less water soluble, and less mobile than the compounds found in gasolines." Given that, it is unlikely that diesel would migrate to the off-site boring locations without being accompanied by gasoline compounds especially MTBE. Since no MTBE or TPHg were reported in the soil and groundwater samples collected during this investigation it is unlikely that the TPHd reported during this



investigation migrated from the site. Another possibility is that the TPHd found in the off-site soil boring locations is naturally occurring in the bay mud or from another off-site source in this area.

Toluene was reported in the grab groundwater sample from SB-15 at 5.9 μ g/L which is below the San Francisco Bay, Regional Water Quality Control Board's, Environmental Screening Levels for toluene (40 μ g/L) in groundwater that is a current or potential drinking water resource.

6.0 CONCLUSIONS

Included in this report, **Appendix D**, are the chromatograms from each of the eight soil and three groundwater samples analyzed for diesel. Also included is a chromatogram of a typical motor oil sample. These chromatograms indicate that the diesel samples collected during this investigation are most likely motor oil and not diesel. The former waste-oil UST was exhumed and removed from the site in September 1994 and all constituents tested in the soil sample collected beneath this UST were below the laboratory's indicated reporting limits.

Based on the results from this investigation, the soil and groundwater at the off-site soil boring locations do not appear to be affected by the petroleum hydrocarbon impact with the exception of toluene in the groundwater in SB-15 and TPHd in each of the soil and groundwater samples. However, the diesel reported by the laboratory does not meet the laboratory standards for diesel. It is possible, however unlikely, due to the silica gel treatment performed during the analysis of these samples, that the diesel reported during this investigation is the result of naturally occurring decomposed organics in the bay mud.

Based on this data, Antea Group does not believe the diesel, most likely motor oil, reported in the soil and groundwater samples collected during this investigation originated from a release from this site.

In addition, based on the data, the extent of the petroleum hydrocarbon and fuel oxygenate impact down-gradient of the site, to the south and southeast, appears to be defined.



7.0 REMARKS

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this report.

Prepared by:

Jonathan Fillingame

Staff Geologist

Information, conclusions, and recommendations provided by Antea Group in this document regarding the site have been prepared under the supervision of and reviewed by the licensed professional whose signature appears below.

DENNIS SHANNON DETTLOFF No. 7480

PRE OF CALIF

Licensed Approver:

Dennis S. Dettloff, P.G.

Senior Project Manager

California Registered Professional Geologist No. 7480

9

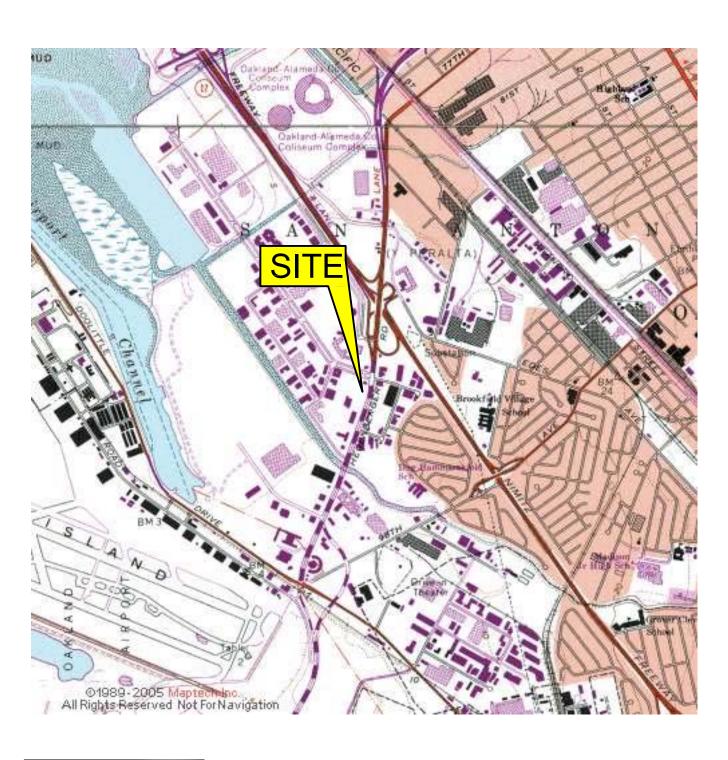


Figures

Figure 1 Site Location Map

Figure 2 Site Plan

Figure 3 Current Soil and Grab Groundwater Analytical Data



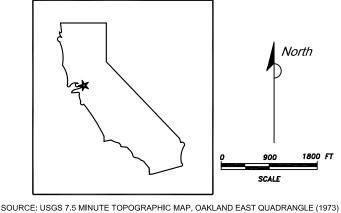
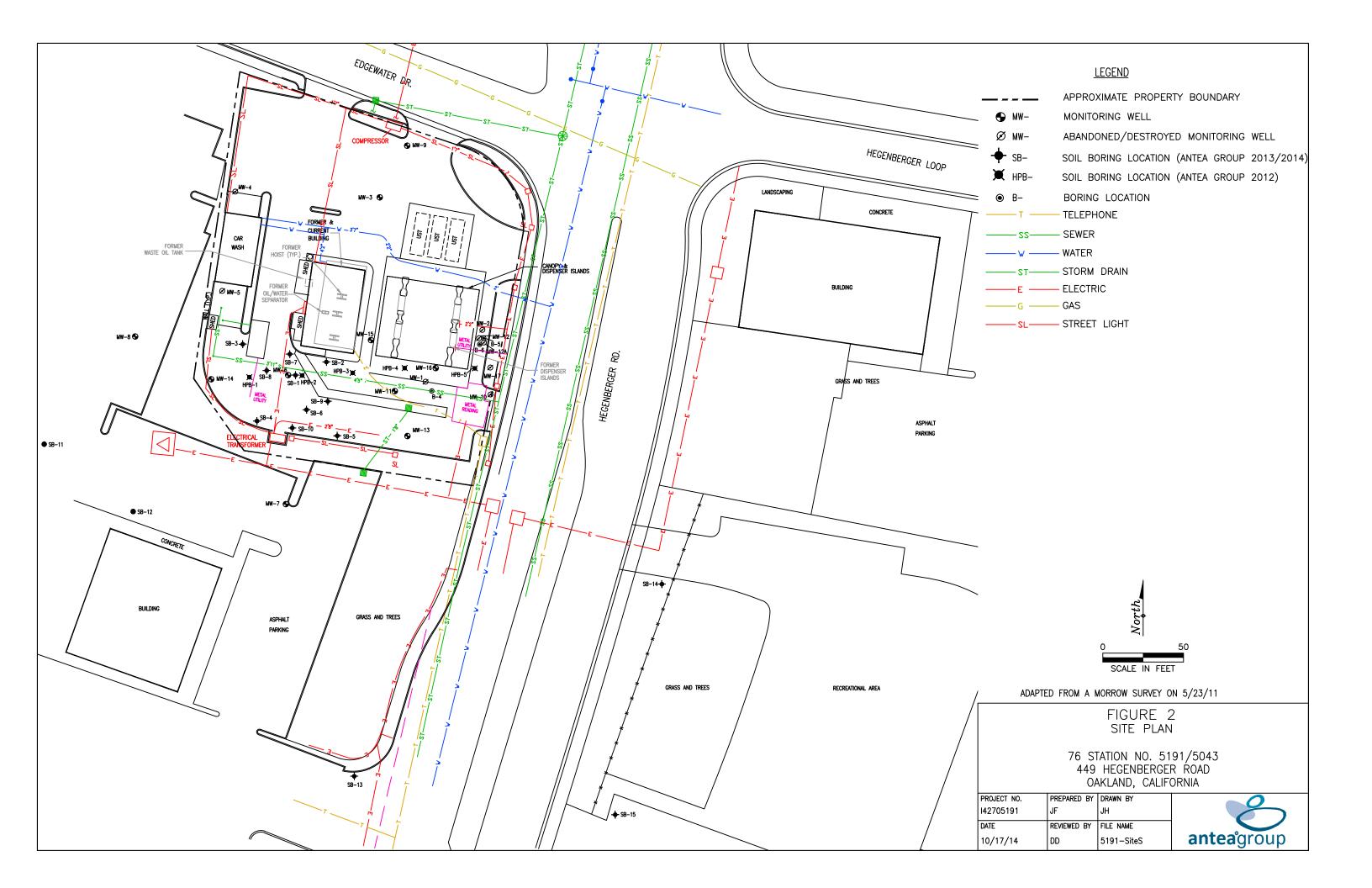


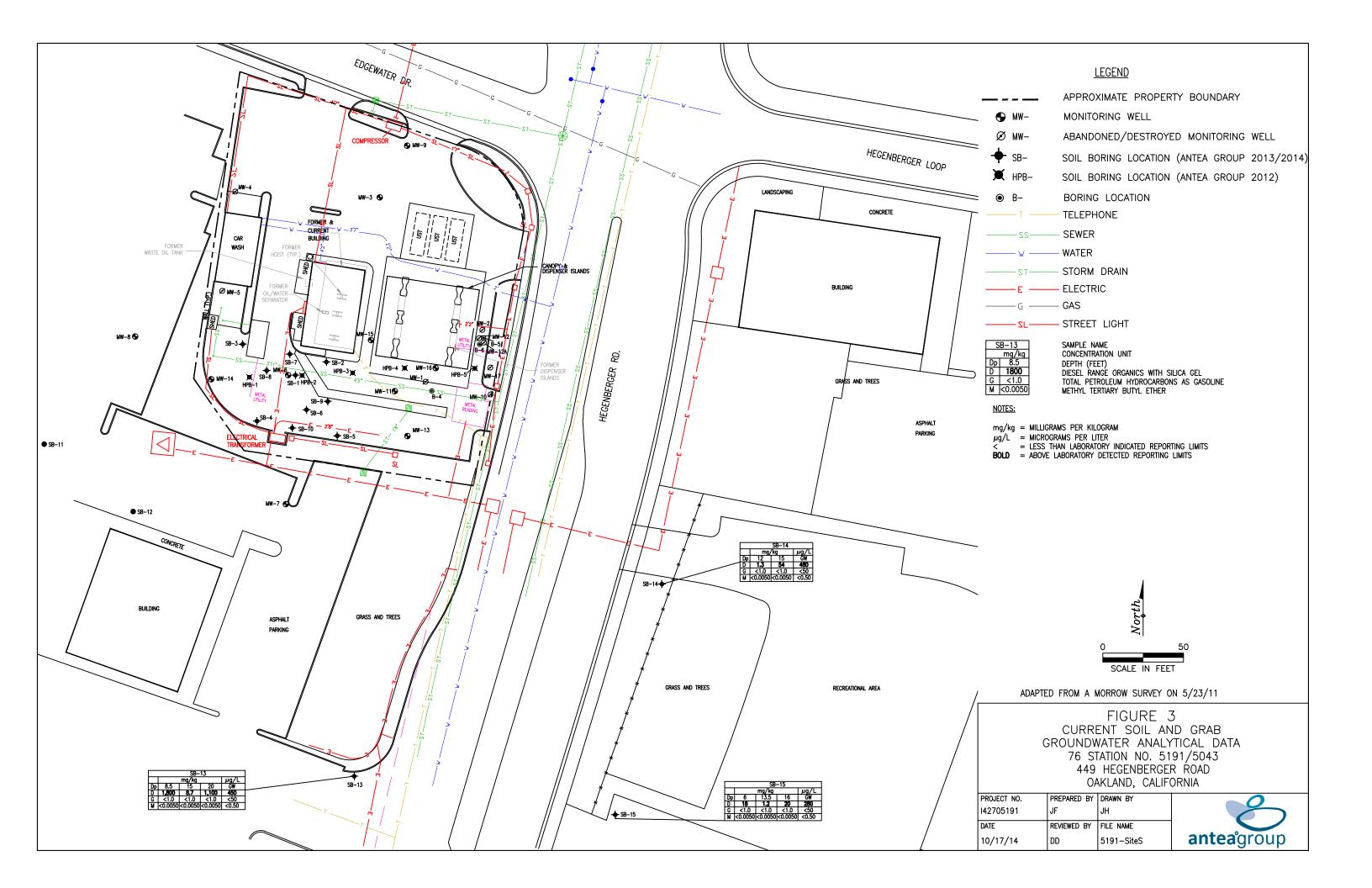
FIGURE 1 SITE LOCATION MAP

76 STATION NO. 5191/5043 449 HEGENBERGER ROAD OAKLAND, CALIFORNIA

			_
PROJECT NO.	PREPARED BY	DRAWN BY	l
142705191	EW	DR/JH	
DATE	REVIEWED BY	FILE NAME	
1/31/11	DD	5043-SiteLocator	









Tables

Table 1 Historical Soil Analytical ResultsTable 2 Groundwater Analytical Results

TABLE 1

HISTORICAL SOIL ANALYTICAL RESULTS

76 Station No. 5191/5043 449 Hegenberger Raod, Oakland, California

-										-				-	-	-	-		-	
Sample ID	Date	Sample Depth (feet)	TPHg (mg/kg)	TPHg* (mg/kg)	TPHd (mg/kg)	TPHd* (mg/Kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	TAME (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	Ethanol (mg/kg)	EDB (mg/kg)	1,2-DCA (mg/kg)	Naphthalene (mg/kg)	Lead (mg/kg)
P1	10/25/1991	3	3,200		420		33	120	110	540										
P2	10/25/1991	3	9,000		8,400		46	120	330	1,500										
Р3	10/25/1991	3	7,100		1,100		48	410	220	1,200										
P4	10/25/1991	3	370		460		7.4	39	12	77										
MW1(2.5)	2/5/1992	2.5	14,000		1,200		160	680	470	2,400										
MW2(3.5)	2/5/1992	3.5	9,000		2,400		74	440	280	1,400										
MW2(4.5)	2/5/1992	4.5	31		29		2.4	0.14	3.0	9.0										
MW3(3)	2/5/1992	3	<1.0		49		<0.005	<0.005	<0.005	0.011										
MW3(4.5)	2/5/1992	4.5	<1.0		<1.0		<0.005	<0.005	<0.005	<0.005										
MW4(5)	8/21/1992	5	<1.0		<1.0		<0.005	<0.005	<0.005	0.0066										
MW5(6)	8/21/1992	6	340		43		1.1	1.2	7.8	13										
MW6(5)	8/21/1992	5	3.7		1.2		0.9	<0.005	1.0	0.05										
WO1	9/20/1994	9	<1.0				<0.005	<0.005	<0.005	<0.005										5.0
MW9(3)	1/25/1995	3	1.7		2.6		0.016	<0.005	<0.005	<0.005										
MW10(2.5)	1/25/1995	2.5	44		17		2.0	1.5	2.3	5.4										
SW1	3/10/1995	8	11				2.8	<0.005	1.6	0.067										
SW2	3/10/1995	8	11				3.8	<0.005	0.79	0.034										
SW2(4)	3/10/1995	4	2,000		140		<0.005	53	42	240										
SW3	3/10/1995	8	1.0		<1.0		0.009	0.006	0.007	0.014										
SW4	3/10/1995	8	<1.0		1.8		<0.005	<0.005	<0.005	<0.005										
SW5	3/10/1995	8	<1.0		1.4		<0.005	<0.005	<0.005	<0.005										
SW6	3/10/1995	8	<1.0				<0.005	<0.005	<0.005	<0.005										
SW7	3/10/1995	8	<1.0				<0.005	<0.005	<0.005	<0.005										
SW8	3/10/1995	8	140				2.6	5.3	2.7	12										
D1	3/24/1995	3	760		46		1.5	19	15	73										
D2	3/24/1995	3	1,200		97		1.6	16	22	110										
B1	3/28/1995	6	<1.0		<1.0		0.13	0.026	0.0088	0.059										
B2	3/28/1995	6	3.4		<1.0		2.8	0.041	0.19	0.28										
В3	3/28/1995	6	<1.0		<1.0		<0.005	0.01	<0.005	0.017										
B4	3/28/1995	6	<1.0		<1.0		<0.005	0.017	<0.005	0.032										
BD1	3/28/1995	6	<1.0		<1.0		0.21	0.011	0.018	0.038										
BD2	3/28/1995	6	12		4.8		2.6	0.68	0.56	1.7										
BD3	3/28/1995	6	<1.0		<1.0		0.012	0.014	0.012	0.043										
BD4	3/28/1995	6	<1.0		<1.0		<0.005	0.011	0.0072	0.037										
S1	3/28/1995	4	110		<1.0		3.5	0.61	7.0	13										
S2	3/28/1995	4	1.4		9.4		0.028	0.012	0.015	0.019										
S3	3/28/1995	4	22		2.9		1.2	1.2	0.65	1.9										
S4	3/28/1995	4	150		5.8		6.8	5.6	5.3	27										
RF1	3/31/1995	3	2,000		330		8.8	68	55	280										
RF2	3/31/1995	3	3,300		230		18	160	110	550										
SW8(6)	4/3/1995	8	<1.0		<1.0		0.0085	<0.005	0.0084	0.011										
FB1	4/3/1995	4.5	25		8.6		2.1	0.058	2.2	1.3										
FB2	4/3/1995	4.5	7.1		1.6		0.4	0.018	0.81	1.7										
FB3	4/3/1995	4.5	1.6		<1.0		0.028	<0.005	0.13	0.26										

TABLE 1

HISTORICAL SOIL ANALYTICAL RESULTS

76 Station No. 5191/5043 449 Hegenberger Raod, Oakland, California

Sample ID	Date	Sample Depth (feet)	TPHg (mg/kg)	TPHg* (mg/kg)	TPHd (mg/kg)	TPHd* (mg/Kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	TAME (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	Ethanol (mg/kg)	EDB (mg/kg)	1,2-DCA (mg/kg)	Naphthalene (mg/kg)	Lead (mg/kg)
FB4	4/3/1995	4.5	1.4		<1.0		0.23	0.022	0.05	0.15										
FBSW1	4/3/1995	3	7.4		1.3		0.066	0.021	1.0	< 0.005										
FBSW2	4/3/1995	3	70		7.6		0.11	0.096	2.1	6.7				-						
FBSW3	4/3/1995	3	2.3		7.8		0.012	0.01	0.018	0.012				-						
FBSW4	4/3/1995	3	9.0		3.7		0.25	0.036	0.93	0.062				-						
MW1SW1	4/5/1995	5	25		2.8		2.1	0.025	2.4	0.19				-						
MW1SW2	4/5/1995	5	4.2		1.2		0.17	0.01	0.68	0.048										
WE1	4/5/1995	4.5	26		3.4		0.31	0.3	0.59	2.6										
WE2	4/5/1995	4.5	2.7		5.1		0.0054	0.0065	0.038	0.17				-						
WE3	4/5/1995	4.5	8.2		1.6		0.21	0.074	1.6	0.0076				-						
FS-1	4/5/1995	4	12		<1.0		0.28	<0.005	1.5	0.016										
MW8(6)	4/21/1997	6	1.3		<1.0		0.0051	<0.005	0.015	0.041	<0.005									
Delta 2009																				
B-4@6	12/17/2009	6	20.4		11.4	10.1	0.046	0.18	1.0	4.2	0.061	0.091	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029		
B-4@15	12/17/2009	15	<4.9		<5.8	<5.8	0.0036	0.0069	0.011	0.049	0.0081	0.036	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003		
B-4@20	12/17/2009	20	<4.9		<5.6	<5.6	<0.003	< 0.003	< 0.003	<0.006	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003		
B-5@8	12/17/2009	8	1,060		285	269	6.2	21.6	30.9	143	<0.0029	0.079	0.068	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029		
B-5@17.5	12/17/2009	17.5	136		27.8	26.9	0.55	1.4	2.7	15.8	< 0.003	0.035	<0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003		
B-5@26.5	12/17/2009	26.5	1,570		338	346	16.2	73.5	52.8	255	0.02	0.11	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028		
B-5@32	12/17/2009	32	<4.8		<5.9	<5.9	0.007	0.0087	0.0057	0.031	<0.0029	<0.015	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029		
Delta 2010																				
MW-11@10	6/22/2010	10		<0.18		3.2	<0.0022	<0.0022	<0.0022	<0.0066	0.011	<0.011	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022		6.1
MW-11@20	6/22/2010	20		<0.25		27.3	<0.0027	<0.0027	<0.0027	<0.0081	<0.0027	< 0.013	<0.0027	<0.0027	<0.0027	<0.0027	<0.0027	<0.0027		3.4
MW-12@8	6/22/2010	8		210		45.7	5.2	9.1	6.7	33.3	<0.0028	0.021	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028		8.6
MW-12@10	6/22/2010	10		422		73.6	4.0	3.5	11.0	31.4	<0.0029	< 0.015	0.023	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029		9.5
MW-12@20	6/22/2010	20		<0.24		<2.0	0.019	<0.0028	<0.0028	<0.0085	<0.0028	< 0.014	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028		6.6
MW-12A@26	6/23/2010	26		6,840		2,210	80.9	232	178	607	<0.0027	< 0.014	<0.0027	<0.0027	<0.0027	<0.0027	<0.0027	<0.0027		13.1
MW-12A@32	6/23/2010	32		943		267	4.9	15.5	12.0	42.6	0.045	0.044	0.048	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028		6.6
MW-12A@34	6/23/2010	34		<0.22		<1.9	<0.0027	0.0097	0.0074	0.033	<0.0027	< 0.013	<0.0027	<0.0027	<0.0027	< 0.0027	<0.0027	< 0.0027		4.9
MW-13@8	6/22/2010	8		<0.21		<2.0	<0.0026	<0.0026	<0.0026	<0.0077	0.064	<0.013	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026		3.6
MW-13@15	6/22/2010	15		<0.24		<2.0	<0.0029	<0.0029	<0.0029	<0.0087	<0.0029	<0.014	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029		5.9
Antea Group 2011	l																			
MW-14d7	5/17/2011	7		<0.23	<2.0	<2.0	<0.0027	<0.0027	<0.0027	<0.0081	<0.0027	<0.014	<0.0027	<0.0027	<0.0027	<0.36	<0.0027	<0.0027		6.6
MW-14d10	5/17/2011	10		1,740	45.5 A	45.5 A	1.8	0.2	44	140	<0.0026	< 0.013	<0.0026	<0.0026	<0.0026	<0.34	<0.0026	<0.0026		7
MW-14d13	5/17/2011	13		1.0	<2.0	<2.0	<0.0027	<0.0027	0.037	0.066	<0.0027	< 0.014	<0.0027	<0.0027	<0.0027	<0.36	<0.0027	<0.0027		6.6
MW-15d8	5/17/2011	8		2.3	6.2	6.2	0.023	<0.0038	1.9	0.25	0.19	0.16	<0.0038	<0.0038	<0.0038	<0.51	<0.0038	<0.0038		7
MW-15d13	5/17/2011	13		<0.23	<1.9	<1.9	<0.0028	<0.0028	<0.0028	<0.0083	0.015	0.022	<0.0028	<0.0028	<0.0028	<0.37	<0.0028	<0.0028		7
MW-16d8	5/17/2011	8		<0.23	<2.0	<2.0	<0.0027	<0.0027	<0.0027	<0.0081	0.15	0.014	<0.0027	<0.0027	<0.0027	<0.36	<0.0027	<0.0027		5.7
MW-16d13	5/17/2011	13		<0.23	<2.0	<2.0	<0.0028	<0.0028	<0.0028	<0.0084	<0.0028	< 0.014	<0.0028	<0.0028	<0.0028	<0.37	<0.0028	<0.0028		5.5
MW-17d9	5/18/2011	9		633	39.6 A	39.6 A	6.0	14.1	17.9	58	<0.0026	0.03	<0.0026	<0.0026	<0.0026	<0.35	<0.0026	<0.0026		16.3
MW-17d13	5/18/2011	13		5.4	2.9 A	2.9 A	2.7	0.46	1.4	2.8	<0.0027	0.029	<0.0027	<0.0027	<0.0027	<0.36	<0.0027	<0.0027		6.4
B-6d9	5/18/2011	9		2,490	72.0 A	72.0 A	26.4	73.9	58.1	230	<0.0031	<0.015	<0.0031	< 0.0031	<0.0031	<0.41	<0.0031	<0.0031		10.1
B-6d14	5/18/2011	14		194	258 A	258 A	3.6	5.1	5.1	22	<0.0025	<0.013	<0.0025	<0.0025	<0.0025	<0.33	<0.0025	<0.0025		9.2
B-6d21	5/18/2011	21		7.2	<2.0	<2.0	0.67	0.86	0.25	0.94	0.036	0.014	<0.0027	<0.0027	<0.0027	<0.37	<0.0027	<0.0027		6.8
B-6d26	5/18/2011	26		17	3.4 A	3.4 A	0.83	1.2	0.46	1.7	0.086	0.021	<0.0026	<0.0026	<0.0026	<0.34	<0.0026	<0.0026		6.6

TABLE 1

HISTORICAL SOIL ANALYTICAL RESULTS

76 Station No. 5191/5043 449 Hegenberger Raod, Oakland, California

Sample ID	Date	Sample Depth (feet)	TPHg (mg/kg)	TPHg* (mg/kg)	TPHd (mg/kg)	TPHd* (mg/Kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	TAME (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	Ethanol (mg/kg)	EDB (mg/kg)	1,2-DCA (mg/kg)	Naphthalene (mg/kg)	Lead (mg/kg)
Antea Group 201	3																			
SB-1d5.5	7/25/2013	5.5		31,000		450	85	1,000	650	3,400	<2.5								150	
SB-1d11	7/25/2013	11		73		3.1	1.2	2.5	1.7	9.3	<0.005								0.7	
SB-1d15	7/25/2013	15		5.0		3.1	0.0085	0.0072	0.048	0.13	<0.005								0.015	
SB-2d1	7/25/2013	1	1	<1.0		10	<0.005	<0.005	<0.005	< 0.005	<0.005		1			1			<0.005	
SB-2d3	7/25/2013	3		<1.0		2.1	<0.005	<0.005	<0.005	<0.005	<0.005		-			-	-		<0.005	
SB-2d5	7/25/2013	5		<1.0		5.9	<0.005	<0.005	<0.005	<0.005	<0.005		-			-	-		<0.005	
SB-2d11	7/25/2013	11	-	<1.0		<1.0	<0.005	<0.005	<0.005	<0.005	<0.005		-			-	-		<0.005	
SB-2d15	7/25/2013	15		<1.0		<1.0	<0.005	<0.005	<0.005	<0.005	0.0059		-			-			<0.005	
SB-3d7.5	7/25/2013	7.5		310		330	0.13	<0.05	7.5	30	<0.05		-			-			3.3	
SB-3d15	7/25/2013	15		<1.0		<1.0	<0.005	<0.005	<0.005	<0.005	<0.005		-			-			<0.005	
SB-4d1	7/25/2013	1		<1.0		13	<0.005	<0.005	<0.005	<0.005	<0.005								<0.005	
SB-4d3	7/25/2013	3		<1.0		2.6	<0.005	<0.005	<0.005	<0.005	<0.005								<0.005	
SB-4d5	7/25/2013	5		<1.0		4.7	<0.005	<0.005	<0.005	<0.005	<0.005								<0.005	
SB-4d8	7/25/2013	8		4,600		31	0.5	0.23	160	130	<0.025								40	
SB-4d15	7/25/2013	15		<1.0		<1.0	<0.005	<0.005	<0.005	<0.005	<0.005								<0.005	
SB-5d6	7/25/2013	6		100		52	0.02	<0.005	3.4	1.7	<0.005								3.3	
SB-5d15	7/25/2013	5		<1.0		<1.0	<0.005	<0.005	<0.005	<0.005	<0.005								<0.005	
SB-6d6.5	7/26/2013	6.5		1,900		360	0.57	1.1	44	220	<0.25								12	
SB-6d15	7/26/2013	15		<1.0		<1.0	<0.005	<0.005	<0.005	<0.005	<0.005								<0.005	
SB-7d6	7/26/2013	6		21		11	0.019	<0.005	0.13	0.012	<0.005								0.8	
SB-7d11	7/26/2013	11		57		17	0.17	0.39	1.0	4.1	<0.005								0.54	
SB-7d13	7/26/2013	13		1.8		1.5	0.018	0.0086	0.11	0.37	<0.005								0.055	
SB-8d8	7/26/2013	8		3,300		900	<0.5	<0.5	15	54	<0.5		-						4.6	
SB-8d11	7/26/2013	11		<1.0		<1.0	<0.005	<0.005	0.018	0.0075	<0.005		-						<0.005	
SB-9d6	7/26/2013	6		<1.0		5.9	<0.005	<0.005	<0.005	<0.005	<0.005		-						<0.005	
SB-9d15	7/26/2013	15		<1.0		<1.0	<0.005	<0.005	<0.005	<0.005	<0.005		-						<0.005	
SB-10d8	7/26/2013	8		<1.0		1.9	<0.005	<0.005	<0.005	<0.005	<0.005		-						<0.005	
SB-10d11	7/26/2013	11		<1.0		<1.0	<0.005	<0.005	<0.005	<0.005	<0.005								<0.005	
Antea Group 201	4																			
SB-13d8.5	9/23/2014	8.5		<1.0		1,800 B	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1			<0.050	-			
SB-13d15	7/25/2013	15		<1.0		8.7 B	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-			<0.050				
SB-13d20	7/25/2013	20		<1.0		1,100 B	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-			<0.050				
SB-14d12	7/25/2013	12		<1.0		1.3 B	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-			<0.050				
SB-14d15	7/25/2013	15		<1.0		54 B	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-			<0.050				
SB-15d6	7/25/2013	6		<1.0		18 B	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050				<0.050				
SB-15d13.5	7/25/2013	13.5		<1.0		1.2 B	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050				<0.050				
SB-15d16	7/25/2013	16		<1.0		20 B	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-			<0.050	-			

Notes:

TPHg = total petroleum hydrocarbons as gasoline by EPA Method 8015

TPHg* = total petroleum hydrocarbons as gasoline by CA LUFT

TPHd = total petroleum hydrocarbons as diesel by EPA Method 8015B

TPHd* = total petroleum hydrocarbons as diesel by EPA Method 8015 Silica Gel Treated

BTEX = benzene, toluene, ethylbenzene, total xylenes by EPA Method 8260B

MTBE = methyl tertiary-butyl ether by EPA Method 8260B

TBA = tertiary-butyl alcohol by EPA Method 8260B
TAME = tert-amyl methyl ether by EPA Method 8260B
DIPE = Diisopropyl ether by EPA Method 8260B
ETBE = Ethyl-tert-butyl-ether by EPA Method 8260B
EDB = 1,2-Dibromoethane by EPA Method 8260B

1,2-DCA = 1,2-Dichloroethane by EPA Method 8260B

mg/kg = milligrams per kilogram

- -- = not analysed
- < Below laboratory's indicated reporting limit
- A The TPHd result for this sample did not match the pattern of the laboratory standard for diesel.
- B Hydrocarbons are higher-boiling than typical Diesel Fuel.

TABLE 2

GROUNDWATER ANALYTICAL RESULTS

76 Station No. 5191

449 Hegenberger Road, Oakland, California

Sample ID	Date	Sample Depth	TPHg (μg/L)	TPHg* (μg/L)	TPHd (μg/L)	TPHd* (μg/L)	Benzene (μg/L)	Toluene (μg/L)	Ethyl-benzene (μg/L)	Total Xylenes (μg/L)	MTBE (μg/L)	TBA (μg/L)	Ethanol (μg/L)	1,2-DCA (μg/L)
B-4	12/17/2009	20	97,100		11,300	13,500	6,960	8,310	6,420	26,000	241	167		<50
B-5@20W	12/17/2009	20	23,500,000	-	19,900,000	20,400,000	324,000	1,050,000	918,000	4,120,000	<50	<500		<100
B-5@32W	12/17/2009	32	422,000	-	294,000	291,000	8,100	20,200	9,580	60,800	632	<250	-1	511
SB-13GW	9/23/2014	6		<50		450 A	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	
SB-14GW	9/23/2014	5.5	-	<50		480 A	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	
SB-15GW	9/23/2014	11		<50		280 A	<0.51	5.9	<0.50	<0.50	<0.50	<5.0	<5.0	

Notes:

TPHg = total petroleum hydrocarbons as gasoline by EPA Method 8015

TPHg* = total petroleum hydrocarbons as gasoline by CA LUFT

TPHd = total petroleum hydrocarbons as diesel by EPA Method 8015

TPHd* = total petroleum hydrocarbons as diesel by EPA Method 8015 (silica gel treated)

BTEX = benzene, toluene, ethyl-benzene, total xylenes by EPA Method 8260B

MTBE = methyl tertiary-butyl ether by EPA Method 8260B

1,2-DCA = 1,2-Dichlorethane by EPA Method 8260B

 $\mu g/L$ = micrograms per liter

NA = not applicable

< - Below laboratory's indicated reporting limit

A - Hydrocarbons are higher-boiling than typical Diesel Fuel.



Appendix A

Alameda County Health Case Service Agency Email

From: Nowell, Keith, Env. Health <Keith.Nowell@acgov.org>

Sent: Monday, December 23, 2013 5:03 PM

To: Dennis Dettloff

Cc: 'wsprague@pcandf.com'; Roe, Dilan, Env. Health

Subject: Fuel Leak Case RO219 - 76 Station at - 449 Hegenberger, Oakland

Dennis,

ACEH has reviewed the case file including the recently submitted work plan entitled *Work Plan –Monitoring Well Installation*, dated November 21, 2013 for the above referenced fuel leak case. The work plan proposes the installation of two monitoring wells across Hegenberger and down gradient of the contaminated area as identified by the on-site well MW-17. As reviewed in our phone conversation on December 17, 2013, ACEH believes the installation of monitoring wells in these locations is premature and that a preliminary investigation with the collection of grab-groundwater samples may be adequate to evaluate groundwater contaminant migration. ACEH conditionally agrees with the work plan with the understanding that grab-groundwater samples will be recovered from temporary borings in lieu of the proposed monitoring wells.

As discussed in our December 17 conversation please prepare a figure showing the proposed boring location south of the on-site well MW-13 in order to delineate the MTBE/TBA plume migrating through this area. As briefly touched on in our conversation, the contaminant plume down gradient of MW-14 and evidenced by concentrations of total petroleum hydrocarbons as gasoline in soil boring SB-4 does need to be delineated. As you have indicated below the locations of these boring should be between wells MW-7 and MW-8. Please include on your figure the proposed boring locations for the collection of soil and grab-groundwater samples to delineate this plume. Please submit the figure showing your proposed boring locations by January 4, 2014.

Thank you for your cooperation. Should you have any questions regarding this correspondence or your case, please call me at (510) 567-6764 or send an electronic mail message at keith.nowell@acgov.org.

Regards, Keith Nowell

Keith Nowell PG, CHG Hazardous Materials Specialist Alameda County Environmental Health 1131 Harbor Bay Parkway Alameda , CA 94502-6540 phone: 510 / 567 - 6764 fax: 510 / 337 - 9335

anaile kaith naccall@aanac

email: keith.nowell@acgov.org

PDF copies of case files can be reviewed/downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

From: Dennis Dettloff [mailto:Dennis.Dettloff@anteagroup.com]

Sent: Tuesday, December 17, 2013 11:45 AM

To: Nowell, Keith, Env. Health

Cc: Roe, Dilan, Env. Health; Walter T. Sprague (wsprague@pcandf.com)

Subject: RE: Fuel Leak Case RO219 - 76 Station at - 449 Hegenberger, Oakland

Mr. Nowell:

It was good talking to you this morning about the above referenced location.

I agree that a direct push boring would likely be preferable to monitoring wells MW-18 and MW-19 across Hegenberger Road. Instead of doing any in the vicinity of MW-19 we could just do one in the vicinity of the proposed MW-18 location. The additional boring could be advanced down-gradient (south-southeast) of monitoring well MW-13. It appears to me that the best location for this boring would likely be in the right hand turning lane, off of Hegenberger Road, into the Carrows parking lot. That will only work if the City of Oakland will allow us to advance a boring into the street. We can give it a shot. If not we can discuss other options.

Now south of SB-4, is monitoring well MW-7. This well is generally clean, but has indicated TPHg at low concentrations on occasion. All other constituents tested, with the exception of TBA at 7 ug/L have been below the LRL since 2005. If we can get approval from the property owner, we could advance a boring between monitoring wells MW-7 and MW-8. I believe this would be the best idea for delineation down-gradient of boring SB-4 and monitoring well MW-14.

Let me know if my ideas are acceptable to you. Don't hesitate to contact me if you have any questions.

Regards,

Dennis S. Dettloff, P.G. | Senior Project Manager | Antea Group
Direct + 916 503 1261 | USA Toll Free 800 477 7411
Dennis.Dettloff@anteagroup.com | www.anteagroup.com

Member of Inogen® | www.inogenet.com



From: Nowell, Keith, Env. Health [mailto:Keith.Nowell@acgov.org]

Sent: Tuesday, December 17, 2013 10:27 AM

To: Dennis Dettloff

Cc: Roe, Dilan, Env. Health; Walter T. Sprague (<u>wsprague@pcandf.com</u>) **Subject:** Fuel Leak Case RO219 - 76 Station at - 449 Hegenberger, Oakland

Dennis,

I would like to discuss the work plan for well installation re RO219- 449 Hegenberger in Oakland. Items for discussion include:

- 1. the possibility of recovering grab-groundwater samples prior to well installation;
- 2. delineating the area south to southwest of MW-14/ SB-4; and
- 3. the possibility of looking down gradient of MW-13.

Please contact me at 510 / 567 - 6764.

Thank you,

Keith Nowell

Keith Nowell PG, CHG Hazardous Materials Specialist Alameda County Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502-6540

phone: 510 / 567 - 6764 fax: 510 / 337 - 9335

email: keith.nowell@acgov.org

PDF copies of case files can be reviewed/downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

This e-mail is personal. For our full disclaimer, please visit http://www.anteagroup.com/confidentiality.



Appendix B

Drilling and Encroachment Permits

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 09/02/2014 By jamesy

Permit Numbers: W2014-0839

Phone: 510-899-7930

Permits Valid from 09/22/2014 to 09/23/2014

City of Project Site: Oakland Application Id: 1409330061968

Site Location: 444 Hegenberger Rd, Oakland, CA 94607

Project Start Date: 09/22/2014 Completion Date: 09/23/2014 Assigned Inspector: Contact Sam Brathwaite at (925) 570-7609 or sbrathwaite@groundzonees.com

Phone: 916-503-1277 Applicant: Antea Group - Ed Weyrens

11050 White Rock Rd #110, Rancho Cordova, CA 95670

Light Keepers LLC Brian Rogers **Property Owner:** 10 Clay St #200, Oakland, CA 94607

Client: PC&F Walter Sprague Phone: 925-931-5714

7180 Koll Ctr Pkwy, Pleasanton, CA 94566

Total Due: \$265.00

Receipt Number: WR2014-0364 Total Amount Paid: \$265.00

PAID IN FULL Payer Name: Antea Paid By: CHECK

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 3 Boreholes

Driller: Gregg Drilling - Lic #: 483165 - Method: DP Work Total: \$265.00

Specifications

Hole Diam Permit Issued Dt **Expire Dt** Max Depth Number **Boreholes** W2014-09/02/2014 12/21/2014 3 3.00 in. 15.00 ft 0839

Specific Work Permit Conditions

- 1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
- 2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
- 3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
- 4. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
- 5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

6. NOTE:

Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory

Alameda County Public Works Agency - Water Resources Well Permit

agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

- 7. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
- 8. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.



Appendix C

Boring Logs

			Project No		I42705191			Clien		COP/ELT Boring No: SB-13
)	Logged By	y:	Jonathan Fillinga	me		Locat	ion:	449 Hegenberger Road, Oakland Page 1 of 1
	(Driller:		Gregg Drilling			Date	Drilled:	9/23/2014
	TA		Drilling M	lethod:	Direct Push			Hole	Diameter	
ant	ea gr	oup	Sampling	Method	l: Continuous			Hole	Depth:	20 ft epth: 8 ft Depth: 5.85 ft
									•	
							∇	First	Water De	epth: 8 ft
									: Water D	Depth: 5.85 ft
			Elevation			Northing:		Statit	vvaler D	Easting:
Bo	ring	<u></u>	ı			Northing.				Lasting.
	oletion	Static Water Level	Moisture Content	PID Reading (ppm)	uo	£	Sar	nple		
		ter	Cor) Bu	Sample Identification	Depth (feet)	_	-	Soil Type	LITUOLOGY / DESCRIPTION
		Wa	nre	adii	am	oth	ver	/zec	l ic	LITHOLOGY / DESCRIPTION
		atic	oist) Re	lder	Del	Recovery	Analyzed	Ň	
		Sta	Σ	PII			~	∢		
]			_				= =	
					1					Poorly Graded GRAVEL with Sand (GP) - brown, 70% fine to
		1			1	1			Ţ, •	coarse gravel, 30% fine to coarse sand, dense, moist, fill materia
	_	1					Ī		Parta	Silty GRAVEL (GM) - brown, 70% fine gravel, 20% silt, 10% fine t
		1			Air Knife	2			[~] ●	coarse sand, dense, dry.
	_	1			1	-			ľ 🚣 ˈ	action during deriver diff.
	II —	1			1	3	-		<u> </u>	• Well Graded SAND (SW) - grey, 95% fine to coarse sand, 5% fine
	II -	-			1	_	<u> </u>		 	اه
- 1	_					4			•,•,•,•	gravel, dense, dry.
	_				Hand Auger					Lean CLAY (CL) - black, 98% clay, 2% fine to medium sand,
						5				medium plasticity, stiff, moist.
- 1						3-				1
- 1	_					_				
- 1						6			1///	No recovery 5 to 8 feet below ground surface (bgs)
	_					_				The recovery 3 to 0 rece below ground surface (bgs)
						7				
	_					_				
	_	\Box				8				
	_			0	SB-13d8.5	_				Lean CLAY (CL) - black, 98% clay, 2% fine to medium sand,
						9				medium plasticity, stiff, wet.
	ent			0)				Lean CLAY (CL) - grey, 98% clay, 2% roots or organics, low
	neat cemen									plasticity, stiff, moist.
	<u> </u>			0		10				
	eat —					_				
				0		11				Lean CLAY (CL) - dark grey, 98% clay, 2% roots or organics, low
				U		_				
- 1						12			////	plasticity, stiff, moist.
					1	_				
					1	13				1
					1	13-				
	_	1			1	_ ا			V///	1
		1			1	14			1///	Lean CLAY (CL) - dark grey, 100% clay, medium plasticity, stiff,
	_	1		0	SB-13d15	-				wet.
	II —	1		U	20-13013	15 —			1///	
	_	ł			1	_	 	-		Stop at 15 feet bgs, no water in boring after more than 2 hours
	II —	4			1	16				
	II —	4			1	_			1///	advance to 20 feet bgs.
					1	17				/
]			1					Lean CLAY (CL) - dark grey, 95% clay, 5% fine to medium sand,
				0	1	10				medium plasticity, stiff, moist.
		1			1	18			1///	Lean CLAY (CL) - dark grey, 95% clay, 5% fine to medium sand,
	_	1		0	1	_		<u> </u>	1///	medium plasticity, stiff, wet.
		1			1	19—			1///	Lean CLAY with Sand (CL) - dark grey, 80% clay, 20% fine to
	II —	1		^	CD 43-130	-			1///	1
		1		0	SB-13d20	20			[-/-/- -	medium sand, medium plasticity, stiff, moist.
	_				Ī	I			j	Well Graded SAND with Gravel (SW) - brown, 60% fine to coars
						_			1	I read a control of the control of t
		=				21 —				sand, 40% fine to coarse gravel, very dense, wet.
	_					21—				sand, 40% fine to coarse gravel, very dense, wet. Total Depth 20 feet bgs.
						21—				

	Project No:	I42705191		۲	lient:		COP/ELT	Boring No: SB-14	
	Logged By:	Jonathan Fillinga	ame		ocatio		449 Hegenberger Road, Oa		
0	Driller:	Gregg Drilling				orilled:	9/23/2014	/ // // // // ***	
	Drilling Metho	nd: Direct Buch)iamete		ONOS NO TREES	
nteagroup	Sampling Met	chod: Continuous				epth:	15 ft	if R RD	
						/ater De		HEGENBERGER RD	
	Elevation:		Northing:	<u>V</u> S	tatic	Water D	epth: 5.6 ft Easting:		
Boring a		<u> </u>	Northing.		T		Lasting.		
Completion Nater Level	Moisture Content	Sample Identification	Depth (feet)	Recovery	Analyzed 😇	Soil Type		LITHOLOGY / DESCRIPTION	
			1—			0::0		el (SM) - pale brown, 40% fine to coar ne gravel, dense, dry, soil.	se
		Air Knife	1						
		7 1	2-				Gravelly SILT with San 15% fine to coarse san	nd (ML) - brown, 60% silt, 25% fine gra nd, moist.	avel
			3			• 4	Silty GRAVEL (GM) - b	prown, 60% fine gravel, 30% silt, 10%	fine
					ļ		coarse sand, moist.		
		Hand Auger	4-					- dark grey, 70% clay 25% fine to coal	rse
			│				sand, 5% fine gravel, i	ow plasticity, very stiff, moist.	
			5 —						
▼	-		1 -		\dashv				
			6-						
ent			,		,		No recovery 5 to 11 fe	eet bgs	
neat cement			7—						
at c			8						
			9-	_					
			-						
			10						
			1 +						
			11		-		Lean CLAY (CL) - brow	ın, dark grey, 95% clay, 5% fine to med	diur
		SB-14d12	1,2		,		sand low plasticity, sti		
			12		,				
			13						
			13 1						
			14			///			
			-			///.		vn, dark grey, 95% clay, 5% fine to me	ediui
		SB-14d15	15			///	sand, low plasticity, st Total depth 15 feet bg		
-			1 +	-	\dashv		Total acptil 13 leet bg		
-			16	-	\dashv				
\dashv			17 +						
			17—						
			18						
ĺ			1 T						
			19—						
			4						
							I		
			20-						
			20		=				
			20						
			 						

Project No: Logged By: Driller: Drilling Method Sampling Method Elevation: (mdd) 8	Jonathan Fillinga Gregg Drilling : Direct Push od: Continuous apple under the provided of the	Northing:	\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	Hole Hole First		16 ft Quantity Qua
Driller: Drilling Method Sampling Method Elevation:	Gregg Drilling : Direct Push od: Continuous Identification	Depth (feet)	∑ ▼ San	Date Hole Hole First Statio	Drilled: Diameter Depth: Water De	9/23/2014 r: 2 in 16 ft epth: 13.2 ft Depth: 11 ft Easting:
Drilling Method Sampling Method Elevation:	Sample Sample Identification	Depth (feet)	∑ ▼ San	Hole Hole First Statio	Diameter Depth: Water De c Water D	epth: 13.2 ft Depth: 11 ft Easting:
Sampling Method	Sample Identification	Depth (feet)	∑ ▼ San	First Station	Depth: Water De	epth: 13.2 ft Depth: 11 ft Easting:
Elevation:	Sample Identification	Depth (feet)	∑ ▼ San	First Station	Water De	Easting:
		Depth (feet)	Sar	Station	c Water D	Easting:
		Depth (feet)	San	nple		Easting:
		Depth (feet)	Sar	•	oil Type	
Moisture Content		_		•	oil Type	LITHOLOGY / DESCRIPTION
	Air Knife	1		_	Š	
	Air Knife	1			, ,	2 inches Asphalt
		1			[Well Graded GRAVEL (GW) - light grey, 90% fine gravel, 10% fi
					////	to coarse sand, very dense, dry.
		٦ , -				Lean CLAY (CL) - dark grey, 90% clay, 5% gravel, 5% fine to
		2 —				medium sand, low plasticity, stiff, moist.
		, -				
	Hand Auger	3 —			1///	
		, -			1///	/
		4				Lean CLAY (CL) - dark grey, 95% clay, 5% fine to medium sand,
		l				medium plasticity, stiff, moist.
		5—				
	SB-15d6				1///	
	02 2300	6			1///	
n		-			1///	Lean CLAY (CL) - black, 85% clay, 15% fine to medium sand, lov
		7			1///	plasticity, stiff, moist.
		-			1///	Lean CLAY (CL) - black, 90% clay, 10% fine to medium sand, lov
		8				plasticity, stiff, moist.
		_			1///	plasticity, stiff, filoist.
		9—			1///	
		-	+		1///	
		10				Lean CLAY (CL) - grey, 90% clay, 10% fine to medium sand, low
.		-				
- ,		11		-		plasticity, stiff, moist.
		_		-	1///	
		12-		-		
		-				Sandy Lean CLAY (CL) - dary grey, 70% clay, 30% fine to coarse
		13				sand, low plasticity, stiff, moist.
	SB-15d13.5	-			9/9/.	700/5
		14			9/.9/	Clayey SAND (SC) - brown, 70% fine to coarse sand, medium
		_				dense, wet.
		15—			<u>//6///</u>	
		_				Lean CLAY (CL) - dark grey, 90% clay, 10% fine to medium sand
	SB-15d16	16				medium plasticity, stiff, wet.
		_				Total Depth 16 feet bgs
		17—			1	
					1	
		18	1		1	
			1		1	
		19			1	
]	
		20]	
		20				
		21				
		21			1	
		22			1	
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0 SB-15d6 6 9 9 10 10 12 13 13 13 15 14 15 15 16 16 17 18 19 19 12 19 12 19 19 19 19 19 19 19 19 19 19 19 19 19	0 SB-15d6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0 SB-15d6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7



Appendix D

Certified Laboratory Analytical Reports, Data Validation Forms, and Diesel Chromatograms



Report Number: 89218

Date: 10/01/2014

Laboratory Results

Dennis Dettloff Antea Group 11050 White Rock Rd. Suite 110 Rancho Cordova, CA 95670

Subject: 8 Soil Samples and 3 Water Samples

Project Name: I42705191 0001 Project Number: I42705191 0001

Dear Mr. Dettloff,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the Environmental Laboratory Accreditation Program (ELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Troy Turpen

Troy D. Turpen



Report Number: 89218

Date: 10/01/2014

Subject: 8 Soil Samples and 3 Water Samples

Project Name : I42705191 0001 Project Number : I42705191 0001

Case Narrative

All soil samples were reported on a total weight (wet weight) basis.

The Method Blank associated with sample SB-13GW contained 56 ug/L TPH as Diesel (Silica Gel). Since TPH as Diesel (Silica Gel) was reported at a concentration greater than 10 times this value, no data were flagged.

Recoveries for some Matrix Spike/ Matrix Spike Duplicate analytes were outside control limits. This may indicate a bias for the samples that were spiked. Since the LCS recoveries were within control limits, no data are flagged.

LCS and Matrix Spike/Matrix Spike Duplicate results associated with samples SB-13GW and SB-15GW for the analyte Ethanol were outside of control limits, indicating a possible high bias for this analyte. Since Ethanol was not detected above the Method Reporting Limit in the associated samples, no data are flagged.



Analysis Summary

Report Number: 89218

Date: 10/01/14

Attention: Dennis Dettloff

Antea Group

11050 White Rock Rd. Suite 110 Rancho Cordova, CA 95670

Project Name : I42705191 0001 Project Number: I42705191 0001

	Sai	mple Name	SB	-13d8.5	SE	3-13d15	SE	3-13d20	SE	3-14d12	SE	3-14d15	S	B-15d6	SB-	·15d13.5
	Sa	ample Date	09	9/23/14	09	9/23/14	09	9/23/14	09	9/23/14	09	9/23/14	09	9/23/14	09	9/23/14
Analyte	Method	Units	MRL	Results												
Benzene	EPA 8260B	mg/Kg	0.0050	ND												
Ethylbenzene	EPA 8260B	mg/Kg	0.0050	ND												
Toluene	EPA 8260B	mg/Kg	0.0050	ND												
Total Xylenes	EPA 8260B	mg/Kg	0.0050	ND												
Ethanol	EPA 8260B	mg/Kg	0.050	ND												
Methyl-t-butyl ether (MTBE)	EPA 8260B	mg/Kg	0.0050	ND												
Tert-Butanol	EPA 8260B	mg/Kg	0.0050	ND												
TPH as Gasoline	EPA 8260B	mg/Kg	1.0	ND												
1,2-Dichloroethane-d4 (Surr)	EPA 8260B	%		108		112		102		106		104		110		103
Toluene - d8 (Surr)	EPA 8260B	%		97.6		96.7		96.7		98.1		98.6		99.1		98.6
TPH as Diesel (Silica Gel)	M EPA 8015	mg/Kg	400	1800	1.0	8.7	200	1100	1.0	1.3	20	54	1.0	18	1.0	1.2
Octacosane (Silica Gel Surr)	M EPA 8015	%		Diluted		102		Diluted		101		Diluted		95.7		103

MRL = Method Reporting Limit



Analysis Summary

Report Number: 89218

Date: 10/01/14

Attention: Dennis Dettloff

Antea Group

11050 White Rock Rd. Suite 110 Rancho Cordova, CA 95670

Project Name : I42705191 0001 Project Number: I42705191 0001

	SE	3-15d16		
	S	ample Date	09	9/23/14
Analyte	Method	Units	MRL	Results
Benzene	EPA 8260B	mg/Kg	0.0050	ND
Ethylbenzene	EPA 8260B	mg/Kg	0.0050	ND
Toluene	EPA 8260B	mg/Kg	0.0050	ND
Total Xylenes	EPA 8260B	mg/Kg	0.0050	ND
Ethanol	EPA 8260B	mg/Kg	0.050	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	mg/Kg	0.0050	ND
Tert-Butanol	EPA 8260B	mg/Kg	0.0050	ND
TPH as Gasoline	EPA 8260B	mg/Kg	1.0	ND
1,2-Dichloroethane-d4 (Surr)	EPA 8260B	%		108
Toluene - d8 (Surr)	EPA 8260B	%		100
TPH as Diesel (Silica Gel)	M EPA 8015	mg/Kg	5.0	20
Octacosane (Silica Gel Surr)	M EPA 8015	%		86.1

MRL = Method Reporting Limit Tage e Not Detected

Page e 4

Of 2255



Analysis Summary

Report Number: 89218

Date: 10/01/14

Attention: Dennis Dettloff Antea Group

> 11050 White Rock Rd. Suite 110 Rancho Cordova, CA 95670

Project Name : I42705191 0001 Project Number: I42705191 0001

Sample Name			SB-13GW		SB-14GW		SB-15GW	
	S	ample Date	09	09/23/14		9/23/14	09/23/14	
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND
Toluene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	5.9
Total Xylenes	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND
Ethanol	EPA 8260B	ug/L	5.0	ND	5.0	ND	5.0	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	5.0	ND	5.0	ND	5.0	ND
TPH as Gasoline	EPA 8260B	ug/L	50	ND	50	ND	50	ND
1,2-Dichloroethane-d4 (Surr)	EPA 8260B	%		100		101		97.6
Toluene - d8 (Surr)	EPA 8260B	%		98.3		98.5		98.5
TPH as Diesel (Silica Gel)	M EPA 8015	ug/L	50	450	50	480	50	280
Octacosane (Silica Gel Surr)	M EPA 8015	%		103		90.8		95.9

MRL = Method Reporting Limit Table = Not Detected

Table = Not Detected

Table = Not Detected

Table = Not Detected



Date: 10/01/14

Project Name : **I42705191 0001**Project Number : **I42705191 0001**

Sample: SB-13d8.5 Matrix: Soil Lab Number: 89218-01

Sample Date :09/23/14		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 02:07
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 02:07
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 02:07
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 02:07
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 02:07
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 02:07
Ethanol	< 0.050	0.050	mg/Kg	EPA 8260B	09/30/14 02:07
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/30/14 02:07
1,2-Dichloroethane-d4 (Surr)	108		% Recovery	EPA 8260B	09/30/14 02:07
Toluene - d8 (Surr)	97.6		% Recovery	EPA 8260B	09/30/14 02:07
TPH as Diesel (Silica Gel) (Note: Hydrocarbons are higher-boiling the	1800 an typical Diese	400 I Fuel.)	mg/Kg	M EPA 8015	09/30/14 13:15
Octacosane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	09/30/14 13:15



Date: 10/01/14

Project Name : **I42705191 0001**Project Number : **I42705191 0001**

Sample: SB-13d15 Matrix: Soil Lab Number: 89218-02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 02:44
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 02:44
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 02:44
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 02:44
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 02:44
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 02:44
Ethanol	< 0.050	0.050	mg/Kg	EPA 8260B	09/30/14 02:44
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/30/14 02:44
1,2-Dichloroethane-d4 (Surr)	112		% Recovery	EPA 8260B	09/30/14 02:44
Toluene - d8 (Surr)	96.7		% Recovery	EPA 8260B	09/30/14 02:44
TPH as Diesel (Silica Gel) (Note: Hydrocarbons are higher-boiling that	8.7 an typical Diesel	1.0 Fuel.)	mg/Kg	M EPA 8015	09/29/14 17:10
Octacosane (Silica Gel Surr)	102		% Recovery	M EPA 8015	09/29/14 17:10



Date: 10/01/14

Project Name: **I42705191 0001**Project Number: **I42705191 0001**

Sample: SB-13d20 Matrix: Soil Lab Number: 89218-03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 03:20
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 03:20
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 03:20
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 03:20
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 03:20
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 03:20
Ethanol	< 0.050	0.050	mg/Kg	EPA 8260B	09/30/14 03:20
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/30/14 03:20
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	09/30/14 03:20
Toluene - d8 (Surr)	96.7		% Recovery	EPA 8260B	09/30/14 03:20
TPH as Diesel (Silica Gel) (Note: Hydrocarbons are higher-boiling th	1100 an typical Diese	200 I Fuel.)	mg/Kg	M EPA 8015	09/30/14 13:44
Octacosane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	09/30/14 13:44



Date: 10/01/14

Project Name : **I42705191 0001**Project Number : **I42705191 0001**

Sample: SB-14d12 Matrix: Soil Lab Number: 89218-04

Sample Date :09/23/14		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 03:56
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 03:56
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 03:56
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 03:56
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 03:56
Tert-Butanol ,	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 03:56
Ethanol	< 0.050	0.050	mg/Kg	EPA 8260B	09/30/14 03:56
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/30/14 03:56
1,2-Dichloroethane-d4 (Surr)	106		% Recovery	EPA 8260B	09/30/14 03:56
Toluene - d8 (Surr)	98.1		% Recovery	EPA 8260B	09/30/14 03:56
TPH as Diesel (Silica Gel) (Note: Hydrocarbons are higher-boiling the	1.3 an typical Diese	1.0 I Fuel.)	mg/Kg	M EPA 8015	09/30/14 12:46
Octacosane (Silica Gel Surr)	101		% Recovery	M EPA 8015	09/30/14 12:46



Project Name : **I42705191 0001**Project Number : **I42705191 0001**

Report Number: 89218

Date: 10/01/14

Sample: SB-14d15 Matrix: Soil Lab Number: 89218-05

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 04:36
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 04:36
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 04:36
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 04:36
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 04:36
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 04:36
Ethanol	< 0.050	0.050	mg/Kg	EPA 8260B	09/30/14 04:36
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/30/14 04:36
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	09/30/14 04:36
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	09/30/14 04:36
TPH as Diesel (Silica Gel) (Note: Hydrocarbons are higher-boiling th	54 an typical Diese	20 I Fuel.)	mg/Kg	M EPA 8015	09/30/14 13:55
Octacosane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	09/30/14 13:55



Date: 10/01/14

Project Name: **I42705191 0001**Project Number: **I42705191 0001**

Sample: SB-15d6 Matrix: Soil Lab Number: 89218-06

Sample Date :09/23/14		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 05:15
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 05:15
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 05:15
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 05:15
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 05:15
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 05:15
Ethanol	< 0.050	0.050	mg/Kg	EPA 8260B	09/30/14 05:15
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/30/14 05:15
1,2-Dichloroethane-d4 (Surr)	110		% Recovery	EPA 8260B	09/30/14 05:15
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	09/30/14 05:15
TPH as Diesel (Silica Gel) (Note: Hydrocarbons are higher-boiling the	18 an typical Diese	1.0 I Fuel.)	mg/Kg	M EPA 8015	09/29/14 17:44
Octacosane (Silica Gel Surr)	95.7		% Recovery	M EPA 8015	09/29/14 17:44



Date: 10/01/14

Report Number: 89218

Project Name: **I42705191 0001** Project Number: **I42705191 0001**

Sample : **SB-15d13.5** Matrix : Soil Lab Number: 89218-08

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 05:55
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 05:55
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 05:55
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 05:55
Mothyd t hutud othor (MTDE)	< 0.0050	0.0050	ma/l/a	EDA 9260D	00/20/44 05:55
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 05:55
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 05:55
Ethanol	< 0.050	0.050	mg/Kg	EPA 8260B	09/30/14 05:55
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/30/14 05:55
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	09/30/14 05:55
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	09/30/14 05:55
TPH as Diesel (Silica Gel) (Note: Hydrocarbons are higher-boiling th	1.2 an typical Diese	1.0 I Fuel.)	mg/Kg	M EPA 8015	09/29/14 18:54
Octacosane (Silica Gel Surr)	103		% Recovery	M EPA 8015	09/29/14 18:54



Date: 10/01/14

Project Name: **I42705191 0001**Project Number: **I42705191 0001**

Sample: SB-15d16 Matrix: Soil Lab Number: 89218-09

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 06:35
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 06:35
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 06:35
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 06:35
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/14 06:35
Tert-Butanol	< 0.0050	0.0050		EPA 8260B	09/30/14 06:35
			mg/Kg		
Ethanol	< 0.050	0.050	mg/Kg	EPA 8260B	09/30/14 06:35
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/30/14 06:35
1,2-Dichloroethane-d4 (Surr)	108		% Recovery	EPA 8260B	09/30/14 06:35
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/30/14 06:35
TPH as Diesel (Silica Gel) (Note: Hydrocarbons are higher-boiling th	20 an typical Diese	5.0 I Fuel.)	mg/Kg	M EPA 8015	09/30/14 13:21
Octacosane (Silica Gel Surr)	86.1		% Recovery	M EPA 8015	09/30/14 13:21



Project Name : **I42705191 0001**Project Number : **I42705191 0001**

Report Number: 89218

Date: 10/01/14

Sample: **SB-13GW** Matrix: Water Lab Number: 89218-10

Sample Date :09/23/14		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/27/14 07:45
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/27/14 07:45
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/27/14 07:45
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/27/14 07:45
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/27/14 07:45
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/27/14 07:45
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	09/27/14 07:45
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/27/14 07:45
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	09/27/14 07:45
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	09/27/14 07:45
TPH as Diesel (Silica Gel)	450	50	ug/L	M EPA 8015	09/25/14 01:32
(Note: Hydrocarbons are higher-boiling th	an typical Diese	l Fuel.)			
Octacosane (Silica Gel Surr)	103		% Recovery	M EPA 8015	09/25/14 01:32



Date: 10/01/14

Project Name : **I42705191 0001**Project Number : **I42705191 0001**

Sample: **SB-14GW** Matrix: Water Lab Number: 89218-11

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/30/14 23:33
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/30/14 23:33
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/30/14 23:33
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/30/14 23:33
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/30/14 23:33
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/30/14 23:33
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	09/30/14 23:33
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/30/14 23:33
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/30/14 23:33
Toluene - d8 (Surr)	98.5		% Recovery	EPA 8260B	09/30/14 23:33
TPH as Diesel (Silica Gel) (Note: Hydrocarbons are higher-boiling that	480 an typical Diese	50 I Fuel.)	ug/L	M EPA 8015	09/26/14 11:34
Octacosane (Silica Gel Surr)	90.8		% Recovery	M EPA 8015	09/26/14 11:34



Date: 10/01/14

Project Name: **I42705191 0001**Project Number: **I42705191 0001**

Sample : **SB-15GW** Matrix : Water Lab Number : 89218-12

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/27/14 04:40
Toluene	5.9	0.50	ug/L	EPA 8260B	09/27/14 04:40
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/27/14 04:40
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/27/14 04:40
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/27/14 04:40
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/27/14 04:40
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	09/27/14 04:40
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/27/14 04:40
1,2-Dichloroethane-d4 (Surr)	97.6		% Recovery	EPA 8260B	09/27/14 04:40
Toluene - d8 (Surr)	98.5		% Recovery	EPA 8260B	09/27/14 04:40
TPH as Diesel (Silica Gel) (Note: Hydrocarbons are higher-boiling th	280 nan typical Diese	50 el Fuel.)	ug/L	M EPA 8015	09/26/14 11:05
Octacosane (Silica Gel Surr)	95.9		% Recovery	M EPA 8015	09/26/14 11:05

Date: 10/01/14

QC Report : Method Blank Data

Project Name : **I42705191 0001**Project Number : **I42705191 0001**

Parameter	Measured Value	Method Reporting Limit	g Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	56	50	ug/L	M EPA 8015	09/25/14
Octacosane (Silica Gel Surr)	128		%	M EPA 8015	09/25/14
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	09/26/14
Octacosane (Silica Gel Surr)	92.6		%	M EPA 8015	09/26/14
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	09/29/14
Octacosane (Silica Gel Surr)	95.9		%	M EPA 8015	09/29/14
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/27/14
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/27/14
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/27/14
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/27/14
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	09/27/14
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/27/14
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/27/14
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/27/14
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	09/27/14
Toluene - d8 (Surr)	98.4		%	EPA 8260B	09/27/14
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/14
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/14
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/14
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/14
Ethanol	< 0.050	0.050	mg/Kg	EPA 8260B	09/29/14
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/14
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/14
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/29/14
1,2-Dichloroethane-d4 (Surr)	105		%	EPA 8260B	09/29/14
Toluene - d8 (Surr)	98.0		%	EPA 8260B	09/29/14

	Measured	Method Report	-	Analysis	Date
Parameter	Value	Limit	Units	Method	Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/30/14
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/30/14
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/30/14
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/30/14
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	09/30/14
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/30/14
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/30/14
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/30/14
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	09/30/14
Toluene - d8 (Surr)	97.3		%	FPA 8260B	09/30/14

Date: 10/01/14

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **I42705191 0001**Project Number : **I42705191 0001**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spike Sample Value	e d Units	Analysis Method	Date Analyzed		Duplicate Spiked Sample Percent Recov.	e Relative Percent Diff.		Relative Percent Diff. Limit
TPH-D (Si Gel)														
	89205-01	2000	1000	1000	2290	2420	ug/L	M EPA 8015	9/25/14	30.0	43.1	36.0	70-130	25
TPH-D (Si Gel)														
,	89236-01	<50	1000	1000	872	851	ug/L	M EPA 8015	9/26/14	87.2	85.1	2.41	70-130	25
TPH-D (Si Gel)														
(,	89218-08	1.2	19.5	20.0	19.4	21.8	mg/Kg	M EPA 8015	9/29/14	93.2	103	10.2	60-140	25
Benzene														
20.120110	89218-12	<0.50	40.0	39.1	36.6	35.8	ug/L	EPA 8260B	9/27/14	91.4	91.4	0.0890	70.0-130	25
Ethanol							J							
E.,	89218-12	<5.0	100	97.8	308	334	ug/L	EPA 8260B	9/27/14	308	341	10.2	55.0-150	25
Ethylbenzene	89218-12	<0.50	40.0	39.1	39.0	38.9	ua/l	EPA 8260B	9/27/14	97.6	99.4	1.78	70.0-130	25
Methyl-t-butyl		~ 0.50	40.0	39.1	39.0	30.9	ug/L	LFA 0200B	9/2//14	91.0	99. 4	1.70	70.0-130	25
	89218-12	<0.50	40.0	39.1	30.7	27.0	ug/L	EPA 8260B	9/27/14	76.7	69.1	10.4	70.0-130	25
P + M Xylene														
	89218-12	<0.50	40.0	39.1	36.8	36.5	ug/L	EPA 8260B	9/27/14	92.1	93.2	1.21	70.0-130	25

Date: 10/01/2014

Project Name : **I42705191 0001**Project Number : **I42705191 0001**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spike Sample Value	e d Units	Analysis Method	Date Analyzed	Percent	Duplicat Spiked Sample Percent Recov.		Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Tert-Butanol	Sample	value	LEVEI	LEVEI	value	value	Office	MEUIOG	Allalyzeu	INCCOV.	Recov.	DIII.	LIIIII	LIIIII
Toluene	89218-12	<5.0	200	196	192	193	ug/L	EPA 8260B	9/27/14	96.0	98.8	2.93	70.0-130	25
Toluche	89218-12	5.9	40.0	39.1	42.8	41.2	ug/L	EPA 8260B	9/27/14	92.2	90.1	2.30	70.0-130	25
Benzene														
Ethanol	89252-08	<0.0050	0.0398	0.0394	0.0351	0.0347	mg/Kg	EPA 8260B	9/30/14	88.4	87.9	0.503	70.0-130	25
	89252-08	<0.050	0.0994	0.0986	0.163	0.157	mg/Kg	EPA 8260B	9/30/14	164	159	2.92	25.0-180	25
Ethylbenzene	89252-08	<0.0050	0.0398	0.0394	0.0375	0.0380	mg/Kg	EPA 8260B	9/30/14	94.3	96.4	2.24	70.0-130	25
Methyl-t-butyl e	ther													
P + M Xylene	89252-08	<0.0050	0.0398	0.0394	0.0343	0.0325	mg/Kg	EPA 8260B	9/30/14	86.4	82.3	4.79	60.0-130	25
·	89252-08	0.013	0.0398	0.0394	0.0420	0.0497	mg/Kg	EPA 8260B	9/30/14	73.5	93.8	24.2	70.0-130	25
Tert-Butanol														
Toluene	89252-08	<0.0050	0.199	0.197	0.178	0.175	mg/Kg	EPA 8260B	9/30/14	89.5	88.6	1.01	70.0-130	25
. 5100110	89252-08	<0.0050	0.0398	0.0394	0.0361	0.0366	mg/Kg	EPA 8260B	9/30/14	90.7	92.8	2.22	70.0-130	25

Date: 10/01/2014

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **I42705191 0001**Project Number : **I42705191 0001**

	Spiked	Sample	Spike	Spike Dup.	Spiked Sample	Duplicate Spike Sample	e ed	Analysis	Date	Spiked Sample Percent	Duplicat Spiked Sample Percent	Relative	Spiked Sample Percent Recov.	Relative Percent Diff.
Parameter	Sample	Value	Level	Level	Value	Value	Units	Method	Analyzed	Recov.	Recov.	Diff.	Limit	Limit
Benzene														
	89282-03	< 0.50	40.0	40.0	39.6	37.1	ug/L	EPA 8260B	9/30/14	99.1	92.8	6.52	70.0-130	25
Ethanol														
	89282-03	<5.0	100	100	96.9	95.6	ug/L	EPA 8260B	9/30/14	96.9	95.6	1.41	55.0-150	25
Ethylbenzene							J							
•	89282-03	<0.50	40.0	40.0	41.9	38.5	ug/L	EPA 8260B	9/30/14	105	96.2	8.48	70.0-130	25
Methyl-t-butyl		0.00				00.0	~g/ =	/ . 0_000	0.00			00		
,	89282-03	60	40.0	40.0	106	91.5	ug/L	EPA 8260B	9/30/14	115	79.2	36.8	70.0-130	25
P + M Xylene	00202 00	00	40.0	40.0	100	01.0	ug/L	LI 7(0200B	0/00/14	110	70.2	00.0	70.0 100	20
. · · · · · · · · · · · · · · · · · · ·	89282-03	<0.50	40.0	40.0	41.3	38.1	ua/l	EPA 8260B	9/30/14	103	95.3	8.08	70.0-130	25
Tert-Butanol	09202-03	~ 0.50	40.0	40.0	41.3	30.1	ug/L	EFA 0200B	9/30/14	103	90.5	0.00	70.0-130	25
Tert-butarior	00000 00	.E.O	000	000	404	400	/1	EDA 0000D	0/00/44	07.0	00.0	0.00	70.0.400	0.5
Talvana	89282-03	<5.0	200	200	194	182	ug/L	EPA 8260B	9/30/14	97.2	90.9	6.69	70.0-130	25
Toluene														
	89282-03	<0.50	40.0	40.0	40.3	36.3	ug/L	EPA 8260B	9/30/14	101	90.7	10.5	70.0-130	25

Date: 10/01/2014

Project Name : **I42705191 0001**Project Number : **I42705191 0001**

QC Report : Laboratory Control Sample (LCS)

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
TPH-D (Si Gel)	20.0	mg/Kg	M EPA 8015	9/29/14	92.3	70-130
Benzene	40.0	ug/L	EPA 8260B	9/27/14	90.1	70.0-130
Ethanol	100	ug/L	EPA 8260B	9/27/14	248	55.0-150
Ethylbenzene	40.0	ug/L	EPA 8260B	9/27/14	96.6	70.0-130
Methyl-t-butyl ether	40.0	ug/L	EPA 8260B	9/27/14	80.9	70.0-130
P + M Xylene	40.0	ug/L	EPA 8260B	9/27/14	91.1	70.0-130
Tert-Butanol	200	ug/L	EPA 8260B	9/27/14	95.1	70.0-130
Toluene	40.0	ug/L	EPA 8260B	9/27/14	90.8	70.0-130
Benzene	0.0397	mg/Kg	EPA 8260B	9/29/14	85.4	70.0-130
Ethanol	0.0992	mg/Kg	EPA 8260B	9/29/14	118	25.0-180
Ethylbenzene	0.0397	mg/Kg	EPA 8260B	9/29/14	90.5	70.0-130
Methyl-t-butyl ether	0.0397	mg/Kg	EPA 8260B	9/29/14	85.7	60.0-130
P + M Xylene	0.0397	mg/Kg	EPA 8260B	9/29/14	86.1	70.0-130
Tert-Butanol	0.198	mg/Kg	EPA 8260B	9/29/14	83.4	70.0-130
Toluene	0.0397	mg/Kg	EPA 8260B	9/29/14	89.2	70.0-130
Benzene	40.1	ug/L	EPA 8260B	9/30/14	97.1	70.0-130
Ethanol	100	ug/L	EPA 8260B	9/30/14	95.4	55.0-150
Ethylbenzene	40.1	ug/L	EPA 8260B	9/30/14	105	70.0-130
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	9/30/14	94.2	70.0-130
-		-				

Date: 10/01/2014

QC Report : Laboratory Control Sample (LCS)

Project Name : **I42705191 0001**Project Number : **I42705191 0001**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
P + M Xylene	40.1	ug/L	EPA 8260B	9/30/14	104	70.0-130
TPH as Gasoline	494	ug/L	EPA 8260B	9/30/14	88.4	70.0-130
Tert-Butanol	200	ug/L	EPA 8260B	9/30/14	97.8	70.0-130
Toluene	40.1	ug/L	EPA 8260B	9/30/14	98.1	70.0-130

KIFF &
Project Contact (Hardcopy or PDF

2795 2nd Street Suite 300

Davis, CA 95616 Lab: 530.297.4800 Fax: 530.297.4802

SRG # / Lab No.

89218

Page / of 2

Project Contact (Hardcopy or P Dennis Dettloff	DF To):		Califo	rnia ED	F Rep	ort?		Yes	□No			Cł	ain-of-	-Custo	dy Re	cord a	nd An	alysis	Requ	est	
Company / Address: Antea Gr I 1050 White Rock Road, S Rancho Cordova, CA 95670			Samp	ling Co	mpany	Log Co	ode:							Analys	sis Req	uest			-	ТАТ	
hone #: 916) 503-1261	Fax #:			01014							TBA, &									12 hr	Only
oject #: 2705191 0001	P.O. #:		denn jonat	is.dettl han.fill	off@a ingam	nteagr e@an	Addres oup.co teagrou	m up.con	<u>n</u>		MTBE, TE	Gel								24 hr	Use
oject Name: 2705191 0001	Con	a alia a	Samp	ler Sigr Contai	nature:	tun S	Tillu Preservi	yan	2. I Ma	atrix	Btex,	- Silica (□ 48hr	For Lab
oject Address: 49 Hegenberger Road akland, CA	San	npling	AO O				resenta	ative	IVI	UIX	PHg.	8015M TPHd								48nr	
Field Pound Name	Date	Time	40 ml	Poly	Tedlar	Ę	HNO ₃		Water		EPA 8260B T	EPA 80								⊠ 1 wk	
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elinquished by:		Date	2.16	Time	Rec	eived by	Laborat					. 0			For L	ab Use (Only: S	Sample I	Receipt		
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KIFF Analytical LLC roject Contact (Hardo			x:	Fax: 5	30.2 Cal			F Rep	ort?			Yes		No				Cha	ain-of-Cu	stody Re	cord and A	nalysis	Requ	est		
Dennis Dettloff Company / Address: A 1050 White Rock F			0		Sar	mplin	g Coi	mpan	/ Log	Code										alysis Req		•	·	TAT		
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42705191 0001					1	A	W/	A JUNE	3	llι	ulo	unc				ţě		Silica							or L	
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Analytical LLC		SAM	PLE R	ECEIPT CHEC	KLIS'	T	SF	RG#: 842/8	
Sample Receipt II	nitials/Date: 💯 🥬	92314 Sto	rage Tim	e: 1610 Samp	le Logir	n Initials	s/Date: 1	JB 092314	
TAT: Standard	☐ Rush ☐	Split [None	Method of Receipt:	c	ourier 🔀	Over-the-cou	ınter	
Temp °C / 8	□ N/A Therm ID [R	ろ Time	1605	Coolant present	Yes	s □ No	☐ Water	☐ Temp Excursion	ı
For Shipments Only:	Cooler Receipt Initials	s/Date/Time	:		Cust	ody Seals	□ N/A	☐ Intact ☐ Broken	
Chain-of-Custody:		Yes	No	Documented on	coc	Labels	D	iscrepancies:	
Is COC present?				Sample ID	X	X			
Is COC signed by reli	nquisher?			Project ID	X	X			
Is COC dated by relin	quisher?			Sample Date	X	X			
Is the sampler's name	e on the COC?			Sample Time	7	4			
Are there analyses or	hold for all samples?			Does COC match	project h	nistory?	X N/A	☐ Yes ☐ No	
Samples: Are sample custody s Are sample container		N/A Y	es No	Comments: Sec	liment	- in all	WAs.	TJB 042314 2123	
Is preservation docur	nented?	4-/>	4						
In-house Analysis:		N/A, Y	es No						
Are preservatives acc	ceptable?	4 // >	۷,						
Are samples within he	olding time?								
Are sample container	types correct?	/							
Is there adequate sar	nple volume?								
Receipt Details:								<u> </u>	
Matrix	Container Type	# of Cont	ainers						
50	Sleeve	0	9						
_□ WA	VOA	18						CS Required:	
Page 25 of 25				Proceed With Ana Client Communica	_	YES []	NO Init/D	ate:	

Is the Data Valid? (circle) (Yes) / No

Preservation Temperature (if Known): __1.8____°C

Antea Group Lab Validation Sheet

Project/Client: COP/ELT Project #: 142705191		
Date of Validation10/16/14Date of Analysis: 9/30/14 Sample Date: 9/23/14 Completed By: Jon F. Signature: Filmsame Analytical Lab Used and Report # (if any): Kiff Analytical LLC 89218	Circle or Highlight Yes/No below	
1. Was the analysis the one requested?	Yes/ No	
2. Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?	Yes/ No	
3. Were samples prepared (extracted, filtered, etc.) within EPA holding times?	Yes/ No	
4. Once prepared/extracted, were the samples analyzed within the EPA holding times?	Yes/ No	
5. Were Laboratory blanks performed, if so, were they below non-detect?	Yes/ No	
6. Are the units correct? (i.e., soil samples in mg/kg or ug/g, water samples mg/L, ug/L, and air samples in volume mg/m^3,etc.)	Yes/ No	
7. Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?	Yes/ No	
8. In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples?	Yes / No	N/a
9. Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approx 80-120% depending on analyte)?	Yes /No	
10. Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?	Yes/ No	
11. Were Relative Percent Difference values within the acceptable range (i.e. ± 25%)?	Yes No	

If any answer is no, explain why and what corrective action was taken:

9. Recoveries for some Matrix Spike/ Matrix Spike Duplicate analytes were outside control limits for TPHd, MTBE. This may indicate a bias for the samples that were spiked. Since the LCS recoveries were within control limits, no data are flagged. LCS and Matrix Spike/Matrix Spike Duplicate results associated with samples SB-13GW and SB-15GW for the analyte Ethanol were outside of control limits, indicating a possible high bias for this analyte. Since Ethanol was not detected above the Method Reporting Limit in the associated samples, no data are flagged.

11. RPD results were outside control limits for TPHd and MTBE.



Date: 09/30/2014

Laboratory Results

Dennis Dettloff Antea Group 11050 White Rock Rd. Suite 110 Rancho Cordova, CA 95670

Subject: 1 Soil Sample

Project Name: I42705191 0001 Project Number: I42705191 0001

Dear Mr. Dettloff,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the Environmental Laboratory Accreditation Program (ELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Troy Turpen

Troy D. Turpen



Date: 09/30/2014

Subject : 1 Soil Sample
Project Name : 142705191 0001
Project Number : 142705191 0001

Case Narrative

All soil samples were reported on a total weight (wet weight) basis.

Recoveries for some Matrix Spike/ Matrix Spike Duplicate analytes were outside control limits. This may indicate a bias for the samples that were spiked. Since the LCS recoveries were within control limits, no data are flagged.



Analysis Summary

Report Number: 89219

Date: 09/30/14

Attention: Dennis Dettloff

Antea Group

11050 White Rock Rd. Suite 110 Rancho Cordova, CA 95670

Project Name : I42705191 0001 Project Number: I42705191 0001

	Waste Soil				
	S	ample Date	09	9/23/14	
Analyte	Method	Units	MRL	Results	
Antimony	EPA 6010B	mg/Kg	0.75	ND	
Arsenic	EPA 6010B	mg/Kg	0.75	35	
Barium	EPA 6010B	mg/Kg	0.50	82	
Beryllium	EPA 6010B	mg/Kg	0.25	0.25	
Cadmium	EPA 6010B	mg/Kg	0.50	ND	
Chromium	EPA 6010B	mg/Kg	0.25	24	
Cobalt	EPA 6010B	mg/Kg	0.25	12	
Copper	EPA 6010B	mg/Kg	0.50	14	
Lead	EPA 6010B	mg/Kg	0.50	35	
Mercury	EPA 7471A	mg/Kg	0.050	0.20	
Molybdenum	EPA 6010B	mg/Kg	0.25	1.9	
Nickel	EPA 6010B	mg/Kg	0.25	23	
Selenium	EPA 6010B	mg/Kg	0.75	ND	
Silver	EPA 6010B	mg/Kg	0.25	1.1	
Thallium	EPA 6010B	mg/Kg	0.75	ND	
Vanadium	EPA 6010B	mg/Kg	0.25	24	
Zinc	EPA 6010B	mg/Kg	1.0	100	
Benzene	EPA 8260B	mg/Kg	0.0050	ND	
Ethylbenzene	EPA 8260B	mg/Kg	0.0050	ND	
Toluene	EPA 8260B	mg/Kg	0.0050	ND	

MRL = Method Reporting Limit



Analysis Summary

Report Number: 89219

Date: 09/30/14

Attention: Dennis Dettloff Antea Group

> 11050 White Rock Rd. Suite 110 Rancho Cordova, CA 95670

Project Name : I42705191 0001 Project Number: I42705191 0001

	Wa	aste Soil		
	09	9/23/14		
Analyte	Method	Units	MRL	Results
Total Xylenes	EPA 8260B	mg/Kg	0.0050	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	mg/Kg	0.0050	ND
TPH as Gasoline	EPA 8260B	mg/Kg	1.0	ND
1,2-Dichloroethane-d4 (Surr)	EPA 8260B	%		106
Toluene - d8 (Surr)	EPA 8260B	%		101

MRL = Method Reporting Limit



Date: 09/30/14

Project Name : **I42705191 0001**Project Number : **I42705191 0001**

Sample: Waste Soil Matrix: Soil Lab Number: 89219-01

Sample Date .09/23/14		N A = 41= = =1			
Parameter	Measured Value	Method Reporting Limit	J Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	09/26/14 15:09
Arsenic	35	0.75	mg/Kg	EPA 6010B	09/26/14 15:09
Barium	82	0.50	mg/Kg	EPA 6010B	09/26/14 15:09
Beryllium	0.25	0.25	mg/Kg	EPA 6010B	09/26/14 15:09
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	09/26/14 15:09
Chromium	24	0.25	mg/Kg	EPA 6010B	09/26/14 15:09
Cobalt	12	0.25	mg/Kg	EPA 6010B	09/26/14 15:09
Copper	14	0.50	mg/Kg	EPA 6010B	09/26/14 15:09
Lead	35	0.50	mg/Kg	EPA 6010B	09/26/14 15:09
Molybdenum	1.9	0.25	mg/Kg	EPA 6010B	09/26/14 15:09
Nickel	23	0.25	mg/Kg	EPA 6010B	09/26/14 15:09
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	09/26/14 15:09
Silver	1.1	0.25	mg/Kg	EPA 6010B	09/26/14 15:09
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	09/26/14 15:09
Vanadium	24	0.25	mg/Kg	EPA 6010B	09/26/14 15:09
Zinc	100	1.0	mg/Kg	EPA 6010B	09/26/14 15:09
Mercury	0.20	0.050	mg/Kg	EPA 7471A	09/30/14 16:17
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/26/14 00:09
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/26/14 00:09
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/26/14 00:09
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/26/14 00:09
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/26/14 00:09
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/26/14 00:09
1,2-Dichloroethane-d4 (Surr)	106		% Recovery	EPA 8260B	09/26/14 00:09
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	09/26/14 00:09

Date: 09/30/14

QC Report : Method Blank Data

Project Name: **I42705191 0001**Project Number: **I42705191 0001**

		Method			
5	Measured	Reporting		Analysis	Date
Parameter	Value	Limit	Units	Method	Analyzed
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	09/30/14
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	09/26/14
Arsenic	< 0.75	0.75	mg/Kg	EPA 6010B	09/26/14
Barium	< 0.50	0.50	mg/Kg	EPA 6010B	09/26/14
Beryllium	< 0.25	0.25	mg/Kg	EPA 6010B	09/26/14
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	09/26/14
Chromium	< 0.25	0.25	mg/Kg	EPA 6010B	09/26/14
Cobalt	< 0.25	0.25	mg/Kg	EPA 6010B	09/26/14
Copper	< 0.50	0.50	mg/Kg	EPA 6010B	09/26/14
Lead	< 0.50	0.50	mg/Kg	EPA 6010B	09/26/14
Molybdenum	< 0.25	0.25	mg/Kg	EPA 6010B	09/26/14
Nickel	< 0.25	0.25	mg/Kg	EPA 6010B	09/26/14
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	09/26/14
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	09/26/14
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	09/26/14
Vanadium	< 0.25	0.25	mg/Kg	EPA 6010B	09/26/14
Zinc	< 1.0	1.0	mg/Kg	EPA 6010B	09/26/14
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/25/14
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/25/14
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/25/14
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/25/14
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/25/14
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/25/14
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	09/25/14
Toluene - d8 (Surr)	99.2		%	EPA 8260B	09/25/14

		Method			
	Measured	Reportir	ng	Analysis	Date
Parameter	Value	Limit	Units	Method	Analyzed

Date: 09/30/14

Project Name : **I42705191 0001**Project Number : **I42705191 0001**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spike Sample Value	e d Units	Analysis Method	Date Analyzed	Percent	Duplicat Spiked Sample Percent Recov.	Relative		Relative Percent Diff. Limit
Antimony														
	89219-01	< 0.75	47.6	47.6	9.25	8.96	mg/Kg	EPA 6010B	9/26/14	18.8	18.2	3.15	75-125	20
Arsenic														
	89219-01	35	47.6	47.6	81.6	85.0	mg/Kg	EPA 6010B	9/26/14	97.4	105	4.17	75-125	20
Barium														
Dom dlives	89219-01	82	47.6	47.6	148	149	mg/Kg	EPA 6010B	9/26/14	140	141	0.400	75-125	20
Beryllium	89219-01	0.25	47.6	47.6	46.2	45.0	ma/Ka	EDA 6010B	0/26/14	96.7	95.8	0.948	7E 10E	20
Cadmium	09219-01	0.25	47.0	47.0	46.3	45.9	ilig/Kg	EPA 6010B	9/26/14	96.7	95.6	0.946	75-125	20
Cadimani	89219-01	< 0.50	47.6	47.6	49.1	49.4	ma/Ka	EPA 6010B	9/26/14	102	103	0.770	75-125	20
Chromium	002.00.	0.00			10.1		9/.19	2.7100102	0,20,	.02	.00	00		
	89219-01	24	47.6	47.6	67.7	70.8	mg/Kg	EPA 6010B	9/26/14	92.3	98.9	4.50	75-125	20
Cobalt														
	89219-01	12	47.6	47.6	58.2	65.9	mg/Kg	EPA 6010B	9/26/14	96.6	113	12.3	75-125	20
Copper														
	89219-01	14	47.6	47.6	65.1	66.3	mg/Kg	EPA 6010B	9/26/14	107	109	1.80	75-125	20
Lead														
Malyhdanum	89219-01	35	47.6	47.6	71.2	73.0	mg/Kg	EPA 6010B	9/26/14	76.5	80.2	2.43	75-125	20
Molybdenum	00040 04	4.0	47.6	47.6	42.6	40.0	no a /1/ -:	EDA 6040D	0/06/44	07.6	06.0	1.54	75 405	20
	89219-01	1.9	47.6	47.6	43.6	42.9	mg/ n g	EPA 6010B	9/26/14	87.6	86.2	1.54	75-125	20

Date: 09/30/2014

Project Name : **I42705191 0001**Project Number : **I42705191 0001**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup.	Spiked Sample Value	Duplicate Spike Sample Value		Analysis Method	Date Analyzed	Percent	Duplicat Spiked Sample Percent	Relative	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Nickel	Sample	value	Levei	Level	value	value	UTILS	Method	Allalyzeu	Recov.	Recov.	DIII.	LIIIII	LIIIII
Selenium	89219-01	23	47.6	47.6	66.4	68.2	mg/Kg	EPA 6010B	9/26/14	91.6	95.4	2.68	75-125	20
	89219-01	< 0.75	47.6	47.6	45.8	46.7	mg/Kg	EPA 6010B	9/26/14	95.4	97.5	2.12	75-125	20
Silver	89219-01	1.1	23.8	23.8	26.4	26.2	mg/Kg	EPA 6010B	9/26/14	106	105	0.956	75-125	20
Thallium	89219-01	< 0.75	47.6	47.6	41.3	41.4	ma/Ka	EPA 6010B	9/26/14	85.5	85.7	0.140	75-125	20
Vanadium	03213-01	V 0.75	47.0	77.0	71.5	71.7	ilig/ixg	LI A 00 10B	3/20/14	00.0	05.7	0.140	75-125	20
	89219-01	24	47.6	47.6	76.5	79.9	mg/Kg	EPA 6010B	9/26/14	110	117	4.32	75-125	20
Zinc	89219-01	100	47.6	47.6	162	168	mg/Kg	EPA 6010B	9/26/14	124	137	3.72	75-125	20
Benzene														
	89219-01	<0.0050	0.0389	0.0385	0.0319	0.0336	mg/Kg	EPA 8260B	9/26/14	82.1	87.3	6.22	70.0-130	25
Ethylbenzene	89219-01	<0.0050	0.0389	0.0385	0.0254	0.0300	mg/Kg	EPA 8260B	9/26/14	65.2	77.9	17.8	70.0-130	25
Methyl-t-butyl e	ther													
	89219-01	<0.0050	0.0389	0.0385	0.0332	0.0353	mg/Kg	EPA 8260B	9/26/14	85.4	91.6	7.00	60.0-130	25

Date: 09/30/2014

Project Name : **I42705191 0001**Project Number : **I42705191 0001**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spike Sample Value	e d Units	Analysis Method	Date Analyzed	Percent	Duplicat Spiked Sample Percent Recov.	Relative	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
P + M Xylene														
	89219-01	<0.0050	0.0389	0.0385	0.0241	0.0287	mg/Kg	EPA 8260B	9/26/14	61.8	74.4	18.5	70.0-130	25
Toluene														
	89219-01	<0.0050	0.0389	0.0385	0.0296	0.0315	mg/Kg	EPA 8260B	9/26/14	76.2	81.8	7.13	70.0-130	25
Mercury														
	89219-01	0.20	0.100	0.100	0.300	0.355	mg/Kg	EPA 7471A	9/30/14	100	155	16.7	75-125	20

Date: 09/30/2014

Project Name : **I42705191 0001**Project Number : **I42705191 0001**

QC Report : Laboratory Control Sample (LCS)

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Mercury	0.100	mg/Kg	EPA 7471A	9/30/14	99.9	85-115
A ()	50.0	41.6	EDA 0040D	0/00/44	104	05.445
Antimony	50.0	mg/Kg	EPA 6010B	9/26/14	101	85-115
Arsenic	50.0	mg/Kg	EPA 6010B	9/26/14	101	85-115
Barium	50.0	mg/Kg	EPA 6010B	9/26/14	103	85-115
Beryllium	50.0	mg/Kg	EPA 6010B	9/26/14	102	85-115
Cadmium	50.0	mg/Kg	EPA 6010B	9/26/14	104	85-115
Chromium	50.0	mg/Kg	EPA 6010B	9/26/14	97.9	85-115
Cobalt	50.0	mg/Kg	EPA 6010B	9/26/14	99.5	85-115
Copper	50.0	mg/Kg	EPA 6010B	9/26/14	102	85-115
Lead	50.0	mg/Kg	EPA 6010B	9/26/14	96.7	85-115
Molybdenum	50.0	mg/Kg	EPA 6010B	9/26/14	99.2	85-115
Nickel	50.0	mg/Kg	EPA 6010B	9/26/14	98.0	85-115
Selenium	50.0	mg/Kg	EPA 6010B	9/26/14	103	85-115
Silver	25.0	mg/Kg	EPA 6010B	9/26/14	104	85-115
Thallium	50.0	mg/Kg	EPA 6010B	9/26/14	96.5	85-115
Vanadium	50.0	mg/Kg	EPA 6010B	9/26/14	105	85-115
Zinc	50.0	mg/Kg	EPA 6010B	9/26/14	102	85-115
Benzene	0.0400	mg/Kg	EPA 8260B	9/26/14	91.8	70.0-130
Ethylbenzene	0.0400	mg/Kg	EPA 8260B	9/26/14	97.8	70.0-130
Methyl-t-butyl ether	0.0400	mg/Kg	EPA 8260B	9/26/14	89.8	60.0-130

Date: 09/30/2014

QC Report : Laboratory Control Sample (LCS)

Project Name : **I42705191 0001**Project Number : **I42705191 0001**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
P + M Xylene	0.0400	mg/Kg	EPA 8260B	9/26/14	93.0	70.0-130
Toluene	0.0400	mg/Kg	EPA 8260B	9/26/14	92.8	70.0-130



2795 2nd Street Suite 300 Davis, CA 95616

89219

Analytical LLC		'	Lab: 53 Fax: 5										S	SRG	# / La	ab No.	-) /		· ·			Page	, of	<u>/</u>
Project Contact (Hardo Dennis Dettloff	copy or PDF	То):		Cali	iforni	a ED	F Rep	ort?]Yes		Пи	Ю			Ch	ain-of-	-Cust	ody Re	cord a	ınd Ar	nalysis	Requ	est	
Company / Address: A 11050 White Rock F Rancho Cordova, CAS	Road, Suite			Sar	nplin	g Coi	mpan	y Log	Cod	e:									Analy	rsis Req	uest				TAT	
Phone #: (916) 503-1261 Project #: 142705191 0001	Fa	ax #: .O. #:		T06	obal ID: 0600101476 DF Deliverable To (Email Address): ennis.dettloff@anteagroup.com nathan.fillingame@anteagroup.com											BE, TBA, &	<u>-</u>		BTEXMIBE						12 hr	For Lab Use Only
Project Name: l42705191 0001	L			Sar	mpler Signature: Flingung											Stex, MT	Silica G								24 hr	For Lab
Project Address: 449 Hegenberger R Oakland, CA	oad Field Point	Samı	pling		Soli Indiana Property Container Preservative Matrix None None None None None None None None							ix	EPA 8260B TPHg, Btex, MTBE, Ethanol	EPA 8015M TPHd - Silica Gel		8260B TP My	GOIO CAM 17					48hr ☐ 72 hr				
Sample Designation Waste Soil	Name	9/23/M	14.0		Sign	8 E	p P		£ £	X				X		77 13	Ш		\times	9					X _{1 wk}	01
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092314 1610 GAZ WILL						1							nt Present													



Analytical LLC SAMPLE RECEIPT CH						T		SRG #: 80	1219
Sample Receipt	Initials/Date: Gest 09	e: <i>161</i> 0 Samp	le Logir	e Login Initials/Date: MAS 192414					
TAT: Standa	ard Rush] Split	None	Method of Receipt:	c	ourier [☑ Over-the-c	ounter S	Shipped
Temp °C 1,8	□ N/A Therm ID	3 Time	1605	Coolant present	☑ Yes	s □ No	□ Wate	erTem	np Excursion
For Shipments Only: Cooler Receipt Initials/Date/			ie:		Custody Seals		□ N/A	☐ Intact	Broken
Chain-of-Custody:		Yes	No	Documented on	сос	Labels	Discrepancies:		s:
Is COC present?				Sample ID	1 /2	10			
Is COC signed by relinquisher?				Project ID	\mathcal{Y}	8		· · · · · · · · · · · · · · · · · · ·	
Is COC dated by relinquisher?				Sample Date	2	\sim			
Is the sampler's name on the COC?				Sample Time	0	\mathcal{D}			
Are there analyses or hold for all samples?				Does COC match	project h	nistory?	□ N/A	Yes	⊠ No
Samples:		N/A	Yes No	Comments:					
Are sample custody seals intact?									
Are sample containers intact?									
Is preservation documented?									
In-house Analysis:		N/A	Yes No						
Are preservatives acceptable?									
Are samples within holding time?			/,						
Are sample container types correct?						· · · · · · · · · · · · · · · · · · ·			
Is there adequate sample volume?									
Receipt Details:			•						
Matrix	Container Type	# of Co	ntainers						
So	glass	C)/						
	J J							CS R	equired: 🔀
Page 13 of 13				Proceed With Analysis: YES NO Init/Date: 704 092414 Client Communication:					
ω									

Is the Data Valid? (circle) (Yes) / No

Preservation Temperature (if Known): __1.8____°C

Antea Group Lab Validation Sheet

Project/Client: COP/ELT			
Project #:I42705191 Date of Validation:10/31/14Date of Analysis: 9/26/14 Sample Date: 9/23/14 Completed By:Jon F Signature:	Circle or Highlight Yes/No below		
1. Was the analysis the one requested?	Yes/ No		
2. Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?	Yes/ No		
3. Were samples prepared (extracted, filtered, etc.) within EPA holding times?	Yes / No		
4. Once prepared/extracted, were the samples analyzed within the EPA holding times?	Yes/ No		
5. Were Laboratory blanks performed, if so, were they below non-detect?	Yes/ No		
6. Are the units correct? (i.e., soil samples in mg/kg or ug/g, water samples mg/L, ug/L, and air samples in volume mg/m^3,etc.)	Yes/ No		
7. Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?	Yes/ No		
8. In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples?	Yes / No	N	
9. Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approx 80-120% depending on analyte)?	Yes /No		
10. Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?	Yes/ No		
11. Were Relative Percent Difference values within the acceptable range (i.e. ± 25%)?	Yes / No		

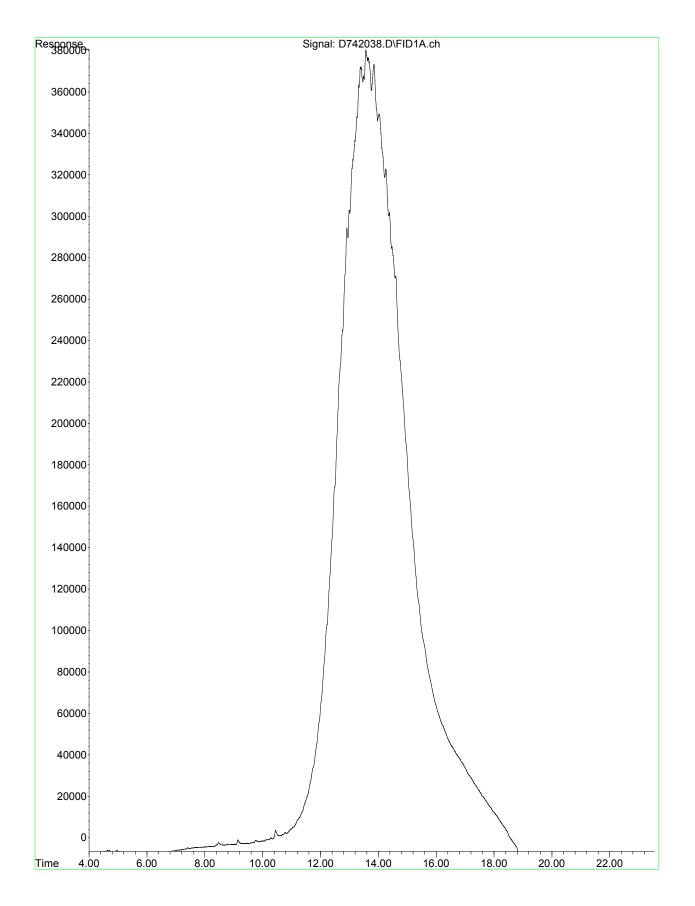
If any answer is no, explain why and what corrective action was taken:

9. Recoveries for some Matrix Spike/ Matrix Spike Duplicate analytes were outside control limits for Antimony, Barium, Mercury, Zinc, Ethylbenzene, and P+M Xylene. This may indicate a bias for the samples that were spiked. Since the LCS recoveries were within control limits, no data are flagged.

Sample ID: 89218-01 (SB-13d8.5)

Date Analyzed: 09/30/14

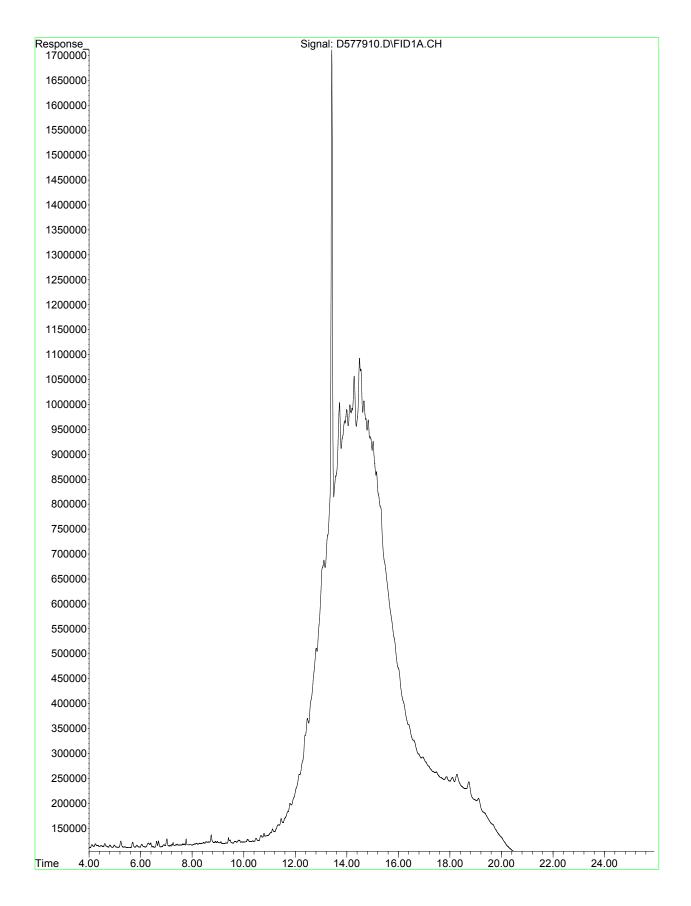
Data File : D742038



Sample ID: 89218-02 (SB-13d15)

Date Analyzed: 09/29/14

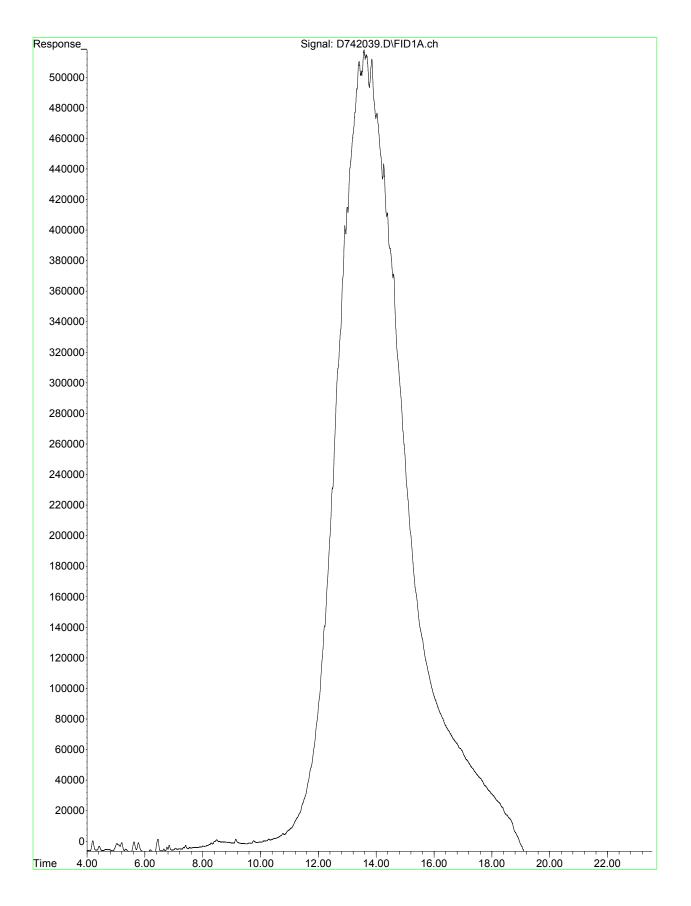
Data File: D577910



Sample ID: 89218-03 (SB-13d20)

Date Analyzed: 09/30/14

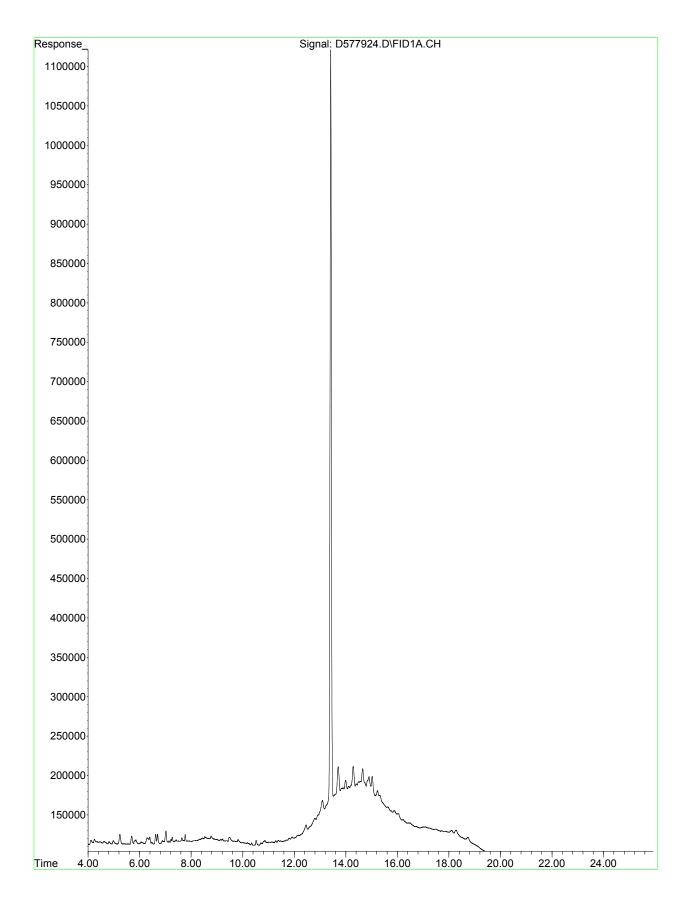
Data File: D742039



Sample ID: 89218-04 (SB-14d12)

Date Analyzed: 09/30/14

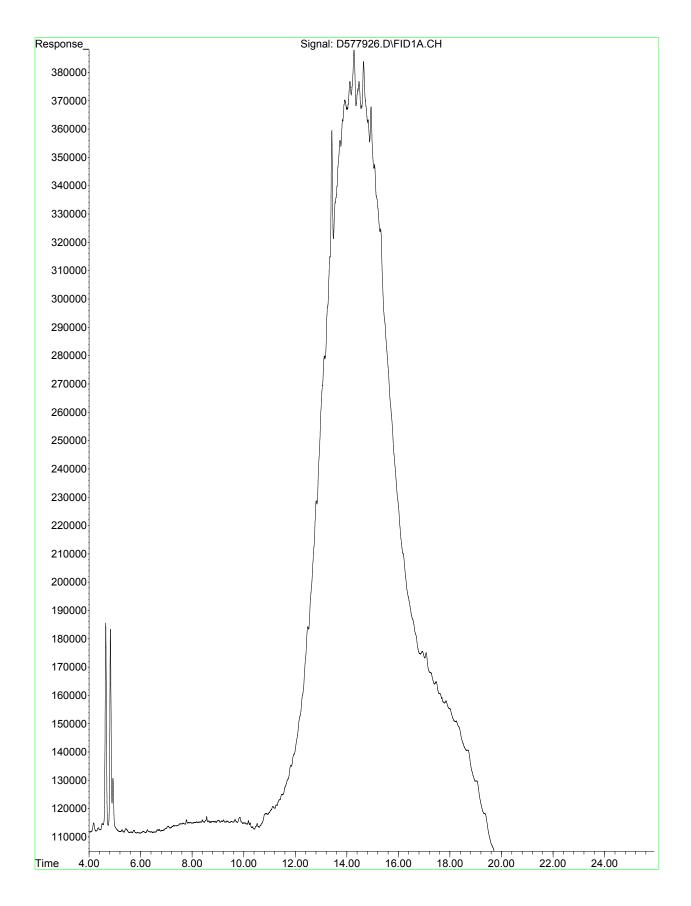
Data File: D577924



Sample ID: 89218-05 (SB-14d15)

Date Analyzed: 09/30/14

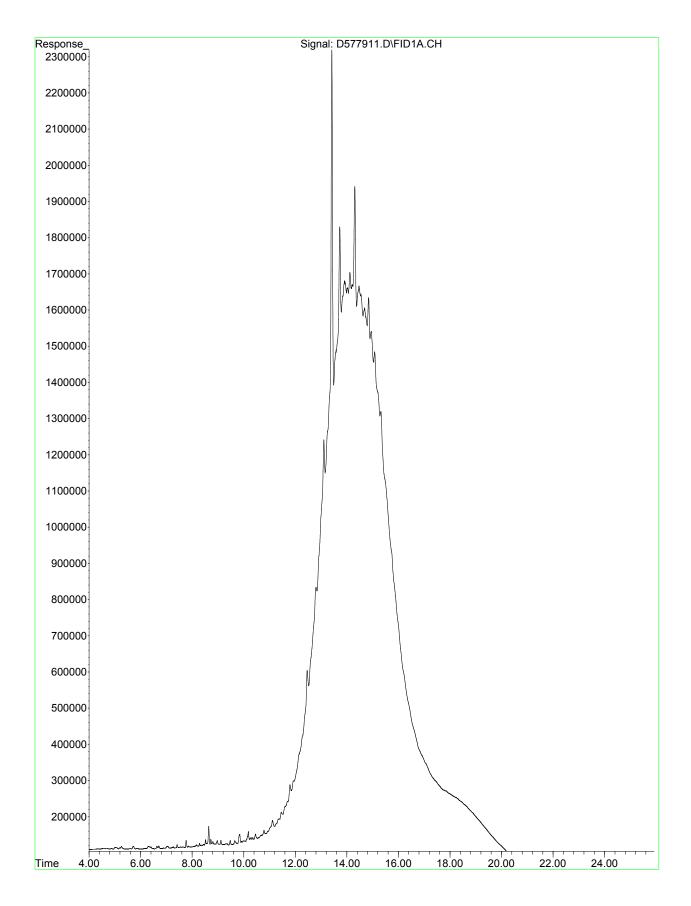
Data File : D577926



Sample ID: 89218-06 (SB-15d6)

Date Analyzed: 09/29/14

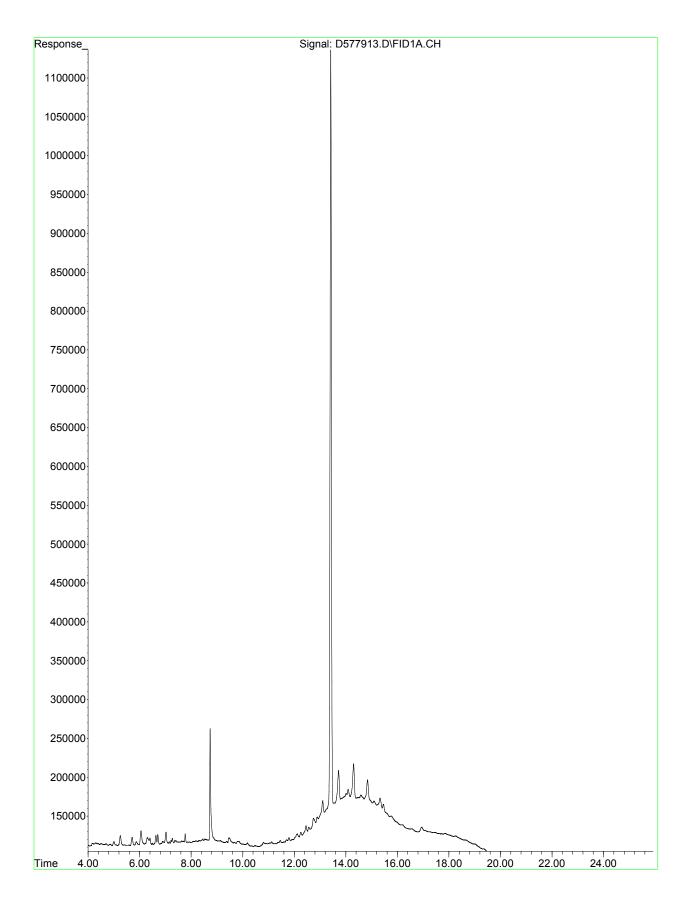
Data File: D577911



Sample ID: 89218-08 (SB-15d13.5)

Date Analyzed: 09/29/14

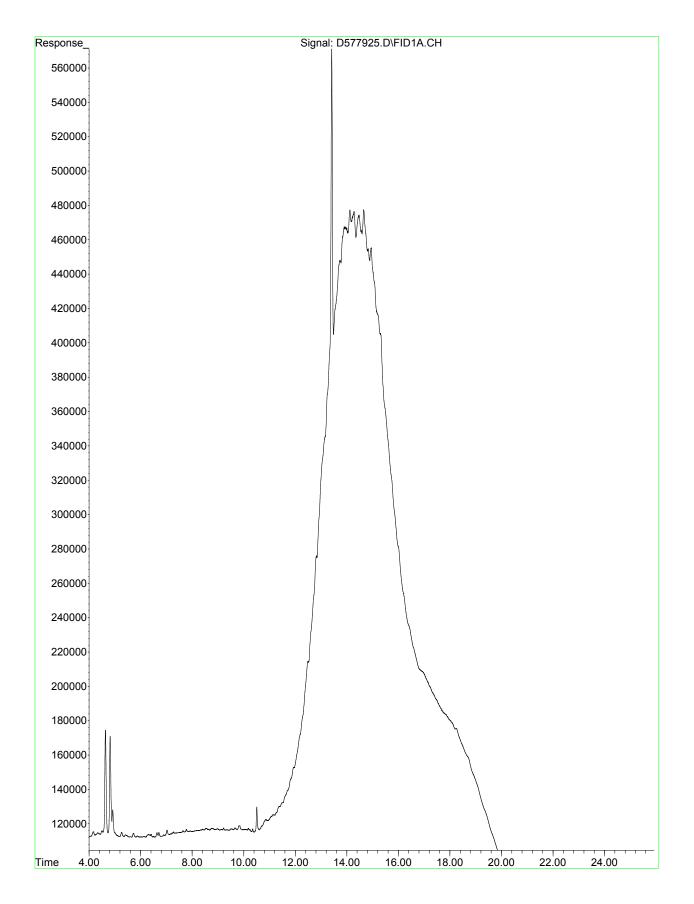
Data File: D577913



Sample ID: 89218-09 (SB-15d16)

Date Analyzed: 09/30/14

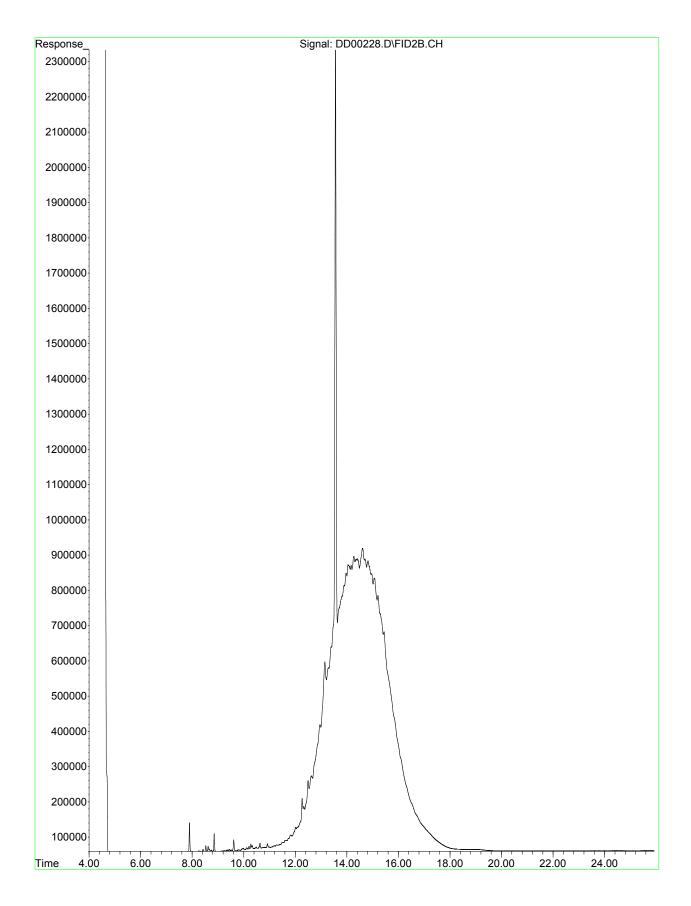
Data File : D577925



Sample ID: 89218-10 (SB-13GW)

Date Analyzed: 09/25/14

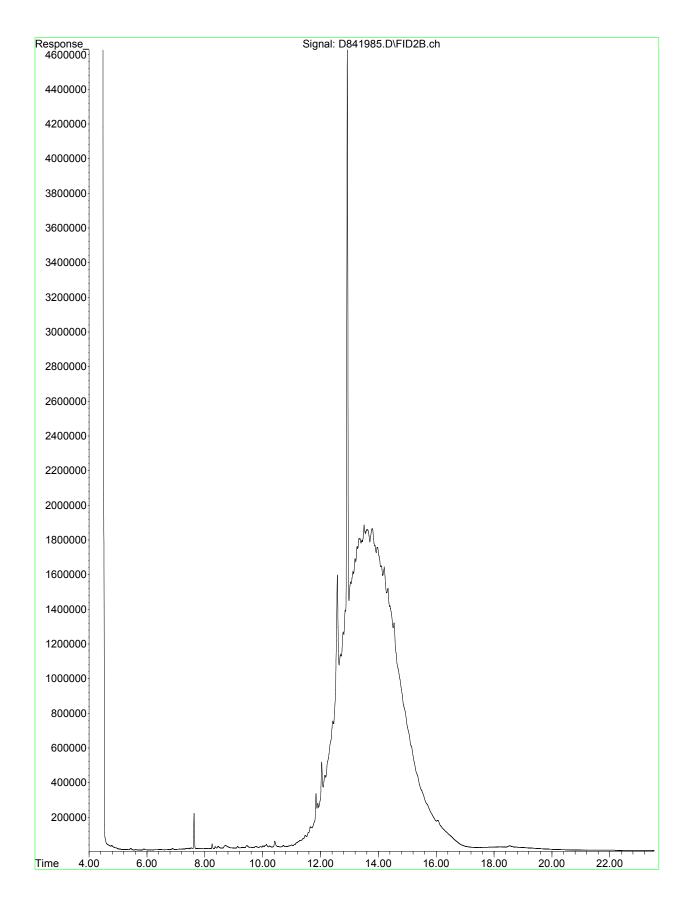
Data File : DD00228



Sample ID: 89218-11 (SB-14GW)

Date Analyzed: 09/26/14

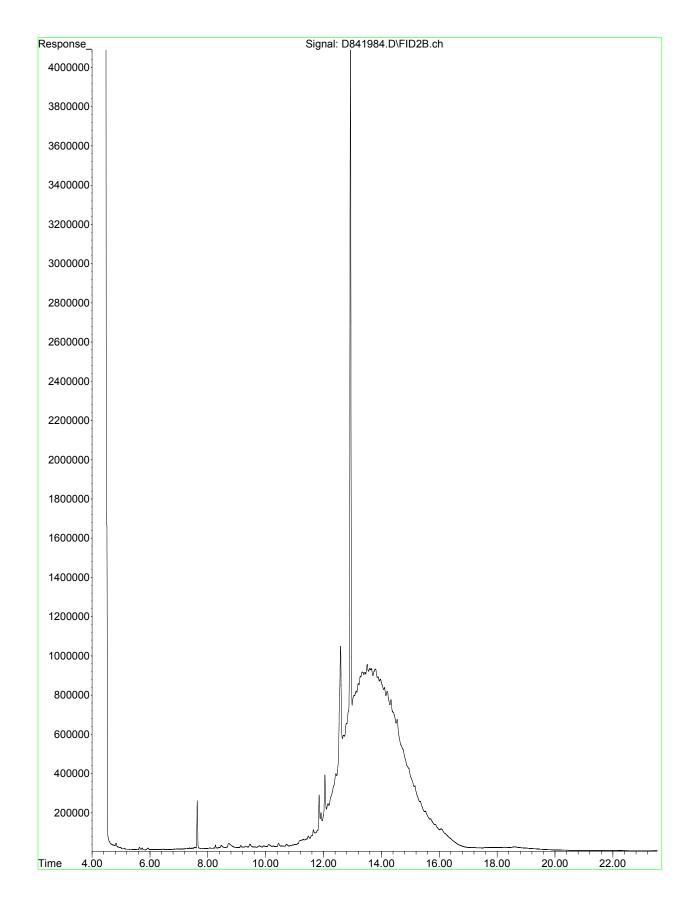
Data File : D841985



Sample ID: 89218-12 (SB-15GW)

Date Analyzed: 09/26/14

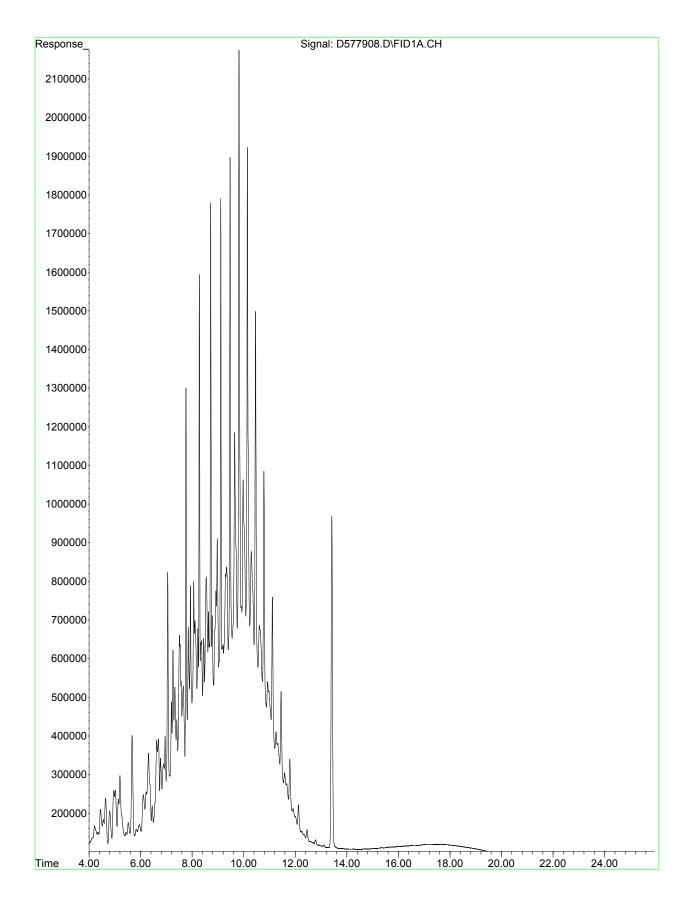
Data File : D841984



Sample ID : Typical Diesel Fuel

Date Analyzed: 09/29/14

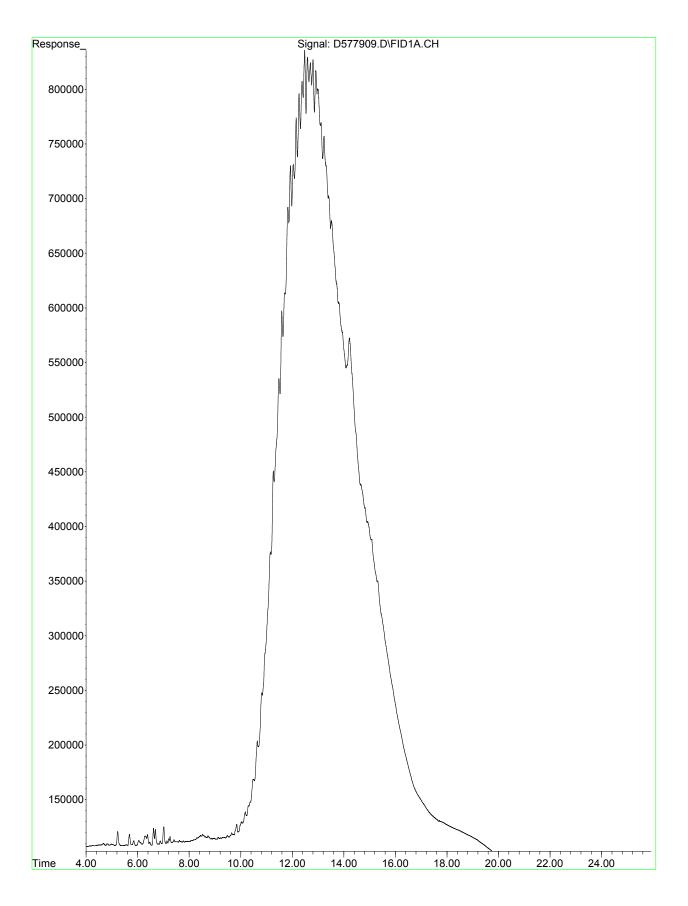
Data File: D577908



Sample ID : Typical Motor Oil

Date Analyzed: 09/29/14

Data File: D577909



Site Investigation Report 76 Station No. 5191/5043 Antea Group Project No. 142705191



Appendix E

Waste Manifest

,	<u>i Manifes</u>	t	. No		dous Soils	167 166	With the second	Motophica Program	iest# 🔻	l i
1	Date of Shipment:	Responsible for	Payment:	Transport	4.	Facility #:	Appro	val Numb		Load #
		. 1		394		A07		431	151	()()
١	Generator's Name and Billing	Address:		, (Generator's Pho 025-031-1			C.V	เกกกรร	7000
PC&F				Person to Contact:		CAL000337983				
!	ATTENTION: LINDA (7180 KOLL CENTER!	, ,	re inn		Leison to Contac					-
ı	PLEASANTON, CA 9		C IUU		FAX#:		Custo	mer Accou	nt Number	•
L	1 comes con all a first first for	71000	,							
	Consultant's Name and Billing	g Address:			Consultant's Pho	one#:			•	
	*		4			· · · · · · · · · · · · · · · · · · ·				 .
ı		. "			Person to Contac	et:		-		
				-	FAX#:	<u></u>	Custo	mer Accou	nt Number	
ı					,				in i tainioci	
ľ	Generation Site (Transport fro	m): (name & address)			Site Phone #:					
1	76 STATION NO.	. 5191	•						<u> </u>	
	440 HEGENBER	GER RD.			Person to Contac	et:				
	OAKLAND, CA 6	34621			FAX#:					
		. * .			2.000					
	Designated Facility (Transport	t to): (name & address)			Facility Phone #:					•
	SOIL SAFE	*.	•.		(800) 802			•	<u> </u>	
	12328 HIBISCUS	3 AVENUE			Person to Contac			. –	•	
	ADELANTO, CA	92301			FAX#:	A 1.21 A P.15.1/P	-			
					(760) 246	-8004			* .	
ľ	Transporter Name and Mailin	g Address:		7. 7.	Transporter's Ph	one #:				
ŀ	BELSHIRE				949-460-6			CAI	R000183	3913
ı	26971 TOWNE C		·		Person to Contac	t: IOOTHART			450847	•
	FOOTHILL RANG	CH, CA 92810	BESI: 2408	392	FAX#:	· · · · · · · · · · · · · · · · · · ·	Custo	mer Accou	nt Number	•
ŀ	Description of Soil	Moisture Content	Contaminated	hy Annes	949-460-5210 x. Qty: Description of Delivery		V Groce	Gross Weight Tare Weight Net Weig		
ŀ	Sand □ Organic □	0-10%	Gas	<u> </u>	A. Gly. Dosti	Thirds of Desires			are weight	iver weit
ı	Clay O Other O	10 - 20% 20% - over	Other	<u> 001</u>	l DIM		20	0003	3748O	526
L		0-10%		o "						12c
	Sand Organic O	10 - 20%	04	a !·	1					
	Sand O Organic O Clay O Other O List any exception to items list	20% - over □	<u> </u>	1 /	1	Scale Ticket #	2 2)	
L	Clay Other D	20% - over □ ed above:	Rin H	40C	7	Scale Ticket #		300	?	,
	Clay Other D List any exception to items list Generator's and/or consul	20% - over ced above:	RIA H I/We certify the	at the soil r	eferenced herein	ı is taken entirelı	y from thos	e soils des) scried in th	ie Soil Da
	Clay Other O List any exception to items list Generator's and/or consul Sheet completed and certif	20% - over ced above:	RIA H I/We certify the	at the soil r	eferenced herein above and nothi	ı is taken entirelı	y from thos	e soils des) scried in th oil that w	ie Soil Da ould alter
()	Clay Other O List any exception to items list Generator's and/or consult Sheet completed and certif in any way.	20% - over ed above: tant's certification: fied by me/us for the	I/We certify the	at the soil r ite shown a	above and nothi	ı is taken entirelı	y from thos	e soils des	oil that w	ould alter
	Clay Other O List any exception to items list Generator's and/or consult Sheet completed and certifin any way. Print or Type Name: Generatory	20% - over	RIA H I/We certify the e Generation S	at the soil rite shown a	above and nothi	ı is taken entirelı	y from thos ed or done	e soils des	oil that w	ould alter
	Clay Other O List any exception to items lists Generator's and/or consul. Sheet completed and certifin any way. Print or Type Name: Generatory Filling Transporter's certification	tant's certification: fied by me/us for the crator Consult It I/We acknowledge	RIA H I/We certify the e Generation S Itant OK PA Graw e receipt of the	at the soil reite shown a	nature and date: which distributes and control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of	is taken entirely ng has been add u Khlenkar ertify that such	y from thos ed or done no soil is bein	e soils des to such s	Month Month Month Month	Day Yes O 7 1 6
	Clay Other O List any exception to items lists Generator's and/or consulty. Sheet completed and certifin any way. Print or Type Name: Generatory Filling. Filling. Transporter's certification condition as when received.	tant's certification: fied by me/us for the erator Consult CALL LINVe acknowledge d. I/We further cert	I/We certify the e Generation S Itant D Example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 The example 19 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