

## **RECEIVED**

9:54 am, Jul 29, 2009

Alameda County Environmental Health

Anne P Conner Sr. Remediation Manager Environmental Remediation 3401 Crow Canyon Rd. San Ramon, CA 94583

(925) 415-6381 (925) 415-6852 Apb1@pge.com

July 22, 2009

Mr. Jerry Wickham

Alameda County Environmental Health Department Division of Environmental Protection 1131 Harbor Bay Parkway. 2nd Floor Alameda, California 94502

Subject:

Transmittal of Semiannual Groundwater Monitoring Report, May 2009 Sampling Event,

Pacific Gas and Electric Company, Oakland General Construction Yard,

4930 Coliseum Way, Oakland, California.

## Dear Mr.Wickham:

Please find enclosed the Semiannual Groundwater Monitoring Report, November 2008 Sampling Event, Pacific Gas and Electric Company, Oakland General Construction Yard, 4930 Coliseum Way, Oakland, California, dated January 6th 2009. PG&E has retained ENTRIX, Inc., and Geomatrix Consultants, Inc. to perform groundwater monitoring and other technical studies at the subject site. The attached report was prepared by Innovative Technical Solutions, Inc. with review by Geomatrix on behalf of PG&E.

Please contact Erin Zavarin of Geomatrix at **(510) 663-4203** with any questions or comments pertaining to this report. For any other questions or requests regarding this site, please contact me at **(925) 415-6381**.

Sincerely yours,

Anne Conner

Sr Remediation Project Manager Pacific Gas and Electric Company

Anne Conner

# SEMIANNUAL GROUNDWATER MONITORING REPORT

# **May 2009 Sampling Event**

Pacific Gas and Electric Company Oakland General Construction Yard 4930 Coliseum Way Oakland, California

Prepared For:

Pacific Gas and Electric Company 3401 Crow Canyon Road San Ramon, CA 94583

Prepared By:

Innovative Technical Solutions, Inc. 2730 Shadelands Drive, Suite 100 Walnut Creek, CA 94598

July 2009 ITSI Project No: 07037.0043



# SEMIANNUAL GROUNDWATER MONITORING REPORT

**May 2009 Sampling Event** 

Pacific Gas and Electric Company Oakland General Construction Yard 4930 Coliseum Way Oakland, California

This report was prepared by the staff of Innovative Technical Solutions, Inc., under the supervision of the Geologist(s) and/or Engineer(s) whose seal(s) and signature(s) appear hereon.

The findings, recommendations, specifications, or professional opinions are presented within the limits described by the client, in accordance with generally accepted professional engineering and geologic practice. No warranty is expressed or implied.

Prepared By:

Charles Comstock, P.G., C.E.G.

Senior Geologist

Innovative Technical Solutions, Inc. 2730 Shadelands Drive, Suite 100 Walnut Creek, CA 94598

July 2009

ITSI Project No. 07037.0043

CHARLES R. COMST

# **TABLE OF CONTENTS**

1.0	Introduction	1
	Site Description	
	Site History	
	Groundwater Monitoring Activities	
	Groundwater Monitoring Results	
	Conclusions	
	References	
7.0	Kelerences	ბ



# LIST OF FIGURES

<u>Figure No</u> .	<u>Title</u>
1	Site Vicinity Map
2	Site Plan
3	Groundwater Elevation Contours (May 26, 2009)
4	Groundwater Analytical Results (May 26, 2009)

# LIST OF TABLES

Table No.	<u>Title</u>
1	Summary of Groundwater Elevation Data
2	Summary of Groundwater Analytical Results (May 26, 2009)

# LIST OF APPENDICES

Appendix A	Historical Groundwater Analytical Results
Appendix B	Field Procedures for Low-Flow Purging and Sampling
Appendix C	Groundwater Purging and Sampling Logs
Appendix D	Laboratory Analytical Reports and Chain-of-Custody Documentation



# **ACRONYMS AND ABBREVIATIONS**

AST above-ground storage tank bgs below ground surface

EPA U.S. Environmental Protection Agency ITSI Innovative Technical Solutions, Inc.

μg/l micrograms per liter

MS/MSD matrix spike and matrix spike duplicate

MTBE methyl tertiary butyl ether

PG&E Pacific Gas and Electric Company

TPHd total petroleum hydrocarbons quantified as diesel total petroleum hydrocarbons quantified as gasoline TPHmo total petroleum hydrocarbons quantified as motor oil

UST underground storage tank VOC(s) volatile organic compound(s)



## 1.0 INTRODUCTION

This report presents the results of semiannual groundwater monitoring completed on May 26, 2009, at the Pacific Gas and Electric Company (PG&E) General Construction Yard located at 4930 Coliseum Way in Oakland, California (the site, Figure 1). The groundwater monitoring program includes the following activities: (1) measuring groundwater elevations; (2) collecting groundwater samples from monitoring wells on site; and (3) performing laboratory analyses of the samples. The program objective is to monitor the distribution of select fuel-related compounds, volatile organic compounds (VOCs), and dissolved lead in shallow groundwater beneath the site. The following sections summarize the site description, site background, groundwater monitoring activities, and analytical results of samples collected on May 26, 2009. Previous analytical results are summarized in Appendix A.

## 2.0 SITE DESCRIPTION

The site consists of approximately 4 acres and is operated as a storage yard for equipment and vehicles (Figure 2). The surrounding area is primarily commercial and light industrial. The site is bounded by Coliseum Way to the south, 50<sup>th</sup> Avenue to the southeast, and commercial properties to the north (Figure 1).



## 3.0 SITE HISTORY

The following summarizes previous environmental activities associated with the site:

- **February 1987** Soil borings were advanced and soil and groundwater samples were collected in the vicinity of the former waste oil UST cluster and the diesel UST (PG&E, 1987a).
- **December 1987 -** Samples of the contents of five USTs were collected and analyzed (the four USTs in the former waste oil UST cluster and the former diesel UST [PG&E, 1987b]).
- January 1988 Five underground storage tanks (USTs) and associated piping located in the northern and eastern portions of the site were removed (Figure 2). Four of the former USTs were located in a cluster in the northern portion of the site (former UST cluster). Two of these USTs reportedly contained heavy oil and two contained mineral spirits (PG&E, 1988). The fifth former UST was located near the west corner of the yard and reportedly contained diesel fuel.
- March and April 1988 –Groundwater monitoring wells OW-1 through OW-4 installed.
   In addition, soil borings were advanced in the vicinities of the former waste oil UST cluster and the former diesel UST.
- May 1990 One natural gas, above ground storage tank (AST) was removed from the central portion of the site (Figure 2). Following demolition of the former natural gas AST, paint chips were reported to have been observed in shallow soil in the vicinity of the former natural gas AST (CSS, 2005).
- **April 1991**—Groundwater monitoring well OW-5 was installed along the northeast property line. A groundwater sample was collected from well OW-5 on April 17, 1991.
- November and December 1991 Approximately 2,000 cubic yards of soil were excavated to a depth of approximately 4 to 9 feet below ground surface (bgs) as a remedial action for the petroleum hydrocarbons identified in the soil in the vicinity of the former UST cluster. Groundwater monitoring wells OW-6 and OW-7 were installed, and well OW-3 was abandoned. The concentrations of total petroleum hydrocarbons quantified as diesel (TPHd) and oil and grease in the soil samples collected along the site boundaries during soil excavation activities were greater than soil cleanup target levels, while concentrations of TPHd and oil and grease in each of the remaining confirmatory samples were less than the cleanup target levels. Oil was visible in the soils in the northeast wall of the excavation along the property line, and a pipe that contained a similar petroleum product was also exposed in the northeastern wall of the excavation. The conclusions of the February 1992 Site Remediation and Closure Report, Former Tank Cluster Area prepared by Earth Technology Corporation suggested that off-site sources of petroleum hydrocarbons may exist in both the northeast and northwest directions (ETC, 1992).
- **December 1991** Installation of groundwater monitoring wells OW-6 and OW-7.



- **September and October 1992** An asphaltic concrete cap was constructed on lead-affected surface soil in the vicinity of the former natural gas AST. Lead, believed to have originated from lead-based paint chips generated from sandblasting of the former natural gas AST, was found in soil samples collected from this area.
- **February 1993** Groundwater monitoring well OW-8 was installed in the southern area of the yard near the location of the former natural gas AST to monitor lead concentrations in the groundwater.
- **July 1994** Groundwater sampling frequency reduced from quarterly to a semiannual basis
- January through March 2008 A soil and groundwater investigation was conducted to further define TPHd, TPHmo, and chlorobenzenes impact to groundwater in the northern portion of the site; further assess the potential for chlorobenzenes to be in shallow soil in the northern portion of the site; assess the presence of PAHs, PCBs, and metals in soil in the vicinity of the former waste oil UST cluster; and further assess the potential presence of TPHd and TPHmo in soil in the vicinity of the former diesel UST and waste oil UST.



## 4.0 GROUNDWATER MONITORING ACTIVITIES

Blaine Tech Services, Inc. performed the groundwater-monitoring event on May 26, 2009. Groundwater sampling was performed using low-flow purging and sampling methods in accordance with the Low-Flow Purging and Sampling Protocol (Appendix B). Depth to groundwater measurements were collected from OW-1, OW-2, OW-4, OW-5, OW-6, OW-7, and OW-8, and were recorded in the Groundwater Purging and Sampling Logs (Appendix C). The groundwater elevation measurements were used to prepare a groundwater elevation map to determine the direction and magnitude of the groundwater gradient. Purge water generated during the groundwater monitoring activities was temporarily stored on site in 55-gallon steel drums pending disposal.

Groundwater samples were collected from OW-1, OW-2, OW-4, OW-5, OW-6, OW-7, and OW-8 in laboratory supplied containers. The samples were shipped on ice to Creek Environmental Laboratories, Inc., of San Luis Obispo, California, a State of California certified laboratory, for analysis under chain-of-custody protocol. Groundwater samples collected from site monitoring wells were analyzed for petroleum constituents and dissolved lead as outlined below.

- Wells OW-1 and OW-4 through OW-7: total petroleum hydrocarbons quantified as gasoline (TPHg) using U. S. Environmental Protection Agency (EPA) Method 8015B
- Wells OW-1, OW-2, and OW-4 through OW-8: TPHd and total petroleum hydrocarbons quantified as motor oil using EPA Method 8015B following silica gel cleanup
- Wells OW-2, OW-5, and OW-8: dissolved lead using EPA Method 6010B
- Wells OW-1 and OW-4 through OW-7: VOCs using EPA Method 8260B

Appendix D includes the laboratory analytical reports and chain-of-custody documentation. All analyses were performed within the holding times specified by the EPA. None of the tested analytes were detected in the field blank or laboratory reagent blank. The surrogate recoveries were within the laboratory acceptance limits. With the exception of the TPHd matrix spike performed following silica gel cleanup, recoveries of matrix spike/matrix spike duplicates (MS/MSDs) were within the laboratory acceptance limits. The recovery for the TPHd MS sample was slightly below the lower QC limit due to matrix effects. The data was reported on



Semiannual Groundwater Monitoring Report Pacific Gas and Electric Oakland General Construction Yard Oakland, California

the basis of acceptable recovery of the laboratory control sample and the MSD result (Appendix D). The relative percent differences of MS/MSD results were within the laboratory acceptance limits.



## 5.0 GROUNDWATER MONITORING RESULTS

Groundwater level measurements collected during the May 26, 2009 monitoring event indicate that depth to water ranged from 3.11 to 5.65 feet below the top of casing. Based on these groundwater level measurements, the predominant groundwater flow direction was towards the south with an approximate hydraulic gradient of 0.004 ft/ft. Table 1 summarizes the depth to water measurements and groundwater elevation data. Figure 3 shows the groundwater elevation map.

Laboratory analytical results for the groundwater samples collected from the seven monitoring wells sampled during the May 26, 2009 monitoring event indicate the following:

- TPHg was not detected above the reporting limit of 50 micrograms per liter (μg/l) in any sample collected from the five wells sampled at the site.
- TPHd after silica gel cleanup was not detected above the reporting limit of  $50 \mu g/l$  in samples collected from the seven wells sampled at the site.
- TPHmo after silica gel cleanup was not detected above the laboratory reporting limit of 100 μg/l in samples collected from the seven wells sampled at the site.
- Dissolved lead was not detected above the laboratory reporting limit of  $20 \mu g/l$  in any of the three samples collected at the site.
- MTBE was not detected above the laboratory reporting limit of 0.5 μg/l in any of the five samples collected at the site. Benzene was detected in only one of the five samples (OW-5) at a concentration of 1.6 μg/l.
- VOCs were detected in samples collected from wells OW-1, OW-5, OW-6, and OW-7. The highest concentrations of VOCs were found in the sample collected from well OW-7, located in the northern (upgradient) portion of the property.
- DIPE was detected in wells OW-5, OW-6, and OW-7 at concetrations of 0.7 μg/L, 3.6 μg/L, and 0.6 μg/L, respectively.

Table 2 and Figure 4 present the laboratory analytical results for the May 26, 2009 sampling event.



Page 6

# 6.0 CONCLUSIONS

The direction of groundwater flow is generally consistent with the results of previous monitoring events, while groundwater elevations are generally lower. Overall, the analytical results of the May 26, 2009 groundwater monitoring event are consistent with the results of previous groundwater monitoring events.



## 7.0 REFERENCES

- Aqua Resources (Aqua), 1991, Remedial Investigation Report, Pacific Gas and Electric General Construction Yard, 4930 Coliseum Way, Oakland, California, July 23.
- Aqua, 1992, Site Remediation and Closure Report Former Tank Cluster Area, Pacific Gas and Electric General Construction Yard, 4930 Coliseum Way, Oakland, California, February.
- Aqua, 1992, Preliminary Site Assessment and Workplan for Additional Investigation Former Gas Holder Tank Pacific Gas and Electric General Construction Yard, 4930 Coliseum Way, Oakland, California, March 6.
- CSS Environmental Services, Inc., 2005, Semi-Annual Groundwater Monitoring Report, Pacific Gas and Electric General Construction Yard, 4930 Coliseum Way, Oakland, California, September 2.
- Earth Technology Corporation (ETC), 1992, Site Remediation and Closure Report Former Tank Cluster Area, Pacific Gas and Electric General Construction Yard, 4930 Coliseum Way, Oakland, California, February.
- Geomatrix Consultants, Inc., 2008, Additional Investigation Report for 4930 Coliseum Way, Oakland, California, April 18,
- Innovative Technical Solustions, Inc., 2008, May 2008 Sampling Event for 4930 Coliseum Way, Oakland, California, July 8.
- Pacific Gas and Electric Company (PG&E), 1987, Underground Tanks Investigation, PG&E General Construction Yard, 4930 Coliseum Way, Oakland, California, July.
- PG&E, 1988, Underground Tanks Investigation, PG&E General Construction Yard, 4930 Coliseum Way, Oakland, California, July.
- PG&E, 1992, Summary of Extent Verification Samples and Submitted of Cap Construction Plan for 4930 Coliseum Way, Oakland, California, September 28.PG&E, 1993, Completion of Lead Contamination Cap, 4930 Coliseum Way, Oakland, California, April 12.

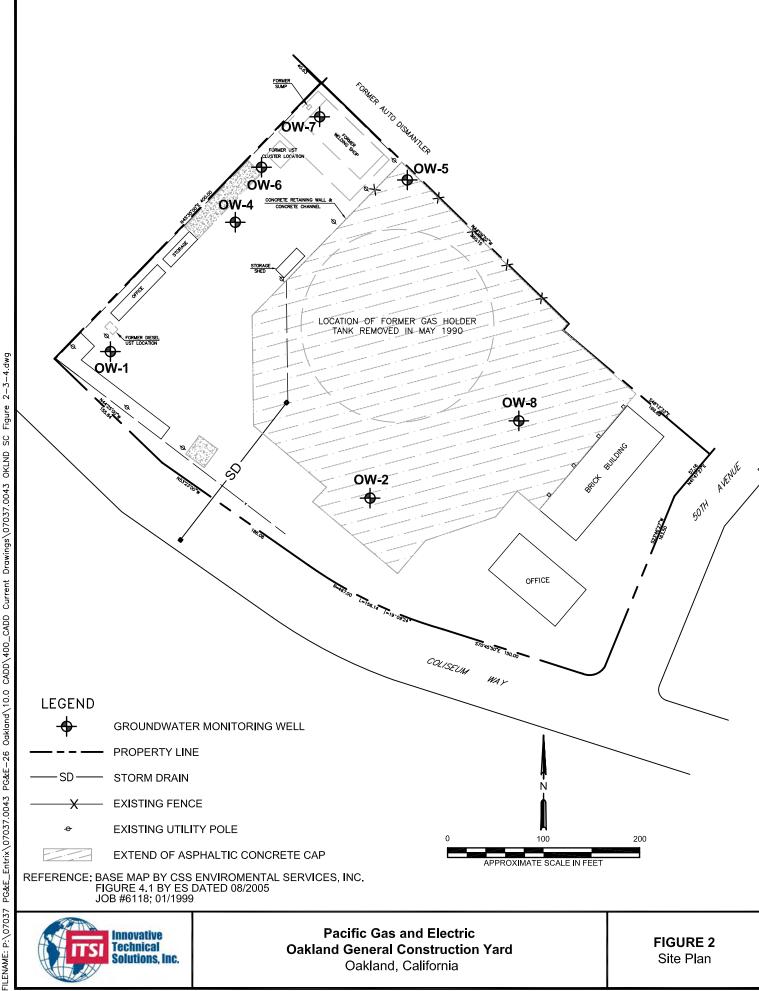


## **FIGURES**



Figure

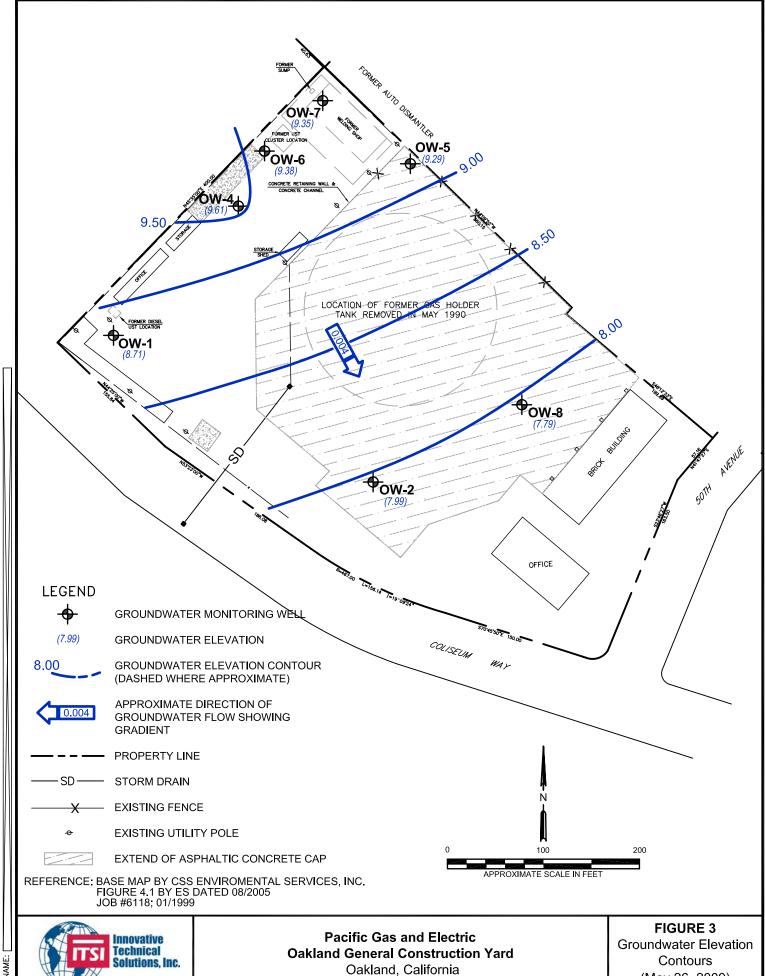
FILENAME: P:\07037 PG&E\_Entrix\07037.0043 PG&E-26 Oakland\10.0 CADD\400\_CADD Current Drawings\07037.0043 OKLND SC



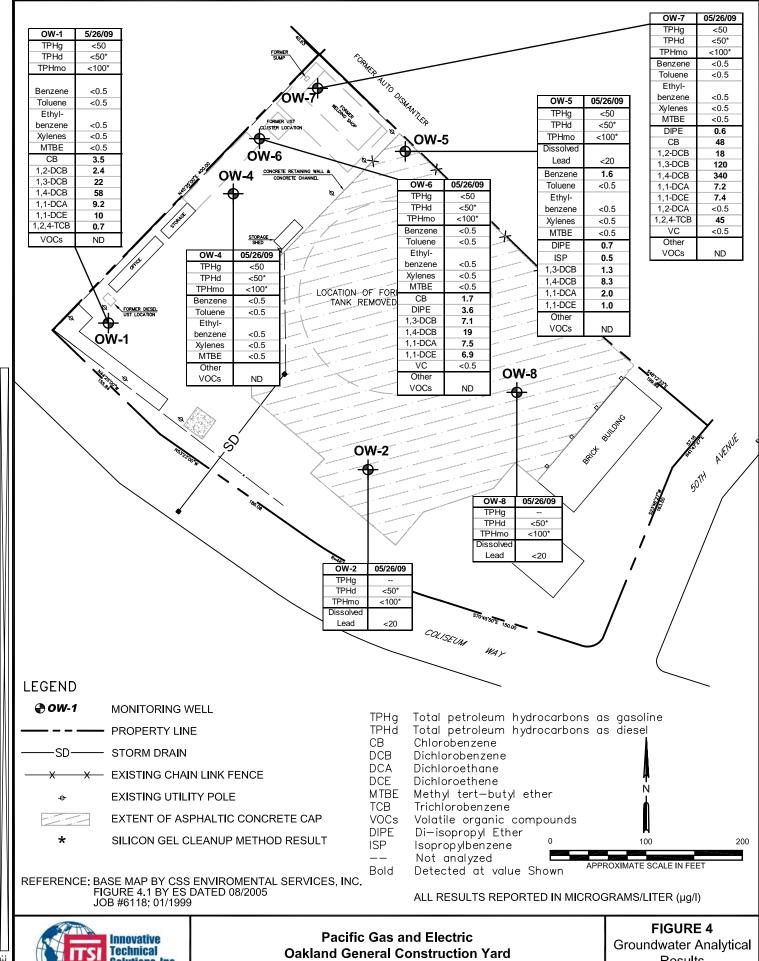


**Oakland General Construction Yard** Oakland, California

FIGURE 2 Site Plan



(May 26, 2009)





Oakland, California

Results (May 26, 2009)

## **TABLES**



# TABLE 1 Summary of Groundwater Elevation Data

## Pacific Gas and Electric Company Oakland General Construction Yard 4930 Coliseum Way, Oakland, CA

Well Number	Sample Date	TOC Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Groundwater Elevation (feet above MSL)
OW-1 OW-2 OW-4 OW-5 OW-6 OW-7 OW-8	5/26/2009 5/26/2009 5/26/2009 5/26/2009 5/26/2009 5/26/2009	11.82 11.24 12.82 13.24 13.61 15.00 11.19	3.11 3.25 3.21 3.95 4.23 5.65 3.40	8.71 7.99 9.61 9.29 9.38 9.35 7.79

## Notes:

TOC = top of casing

MSL = Mean Sea Level

bgs = below ground surface

TOC elevation data were referenced from Figure 4.2-Historical Groundwater Elevations, (Semi-Annual Groundwater Monitoring Report, September 2, 2005, CSS Environmental Services, Inc.).



## Table 2 Summary of Groundwater Analytical Results (May 26, 2009)

Pacific Gas and Electric Oakland General Construction Yard Oakland, California

		-	otal Petrol ocarbons 8015M	Method	Dissolved Lead Method 6010B								Vola	tile Orgai	nic Compoun	ds-Metho	od 8260B									
Sample	Sample	TPHq	TPHd	TPHmo		Benzene	Toluene	Ethyl- benzene	Xylenes	Isopropyl- benzene	Naphthalene	MTBE	1,2,3- TCB	1,2,4- TCB	1,3,5-TMB	1,2-DCA	1,2-DCB	1,3-DCB	1,4-DCB	СВ	1,1,1- TCA	1,1-DCA	1,1-DCE	DIPE	vc	Other VOCs
Name	Date	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
OW-1	05/26/09	<50	<50*	<100*		<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	0.7	<0.5	<0.5	2.4	22	58	3.5	<0.5	9.2	10.0		<0.5	ND
OW-2	05/26/09		<50*	<100*	<20																					
OW-4	05/26/09	<50	<50*	<100*		< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5		< 0.5	ND
OW-5	05/26/09	<50	<50*	<100*	<20	1.6	<0.5	< 0.5	< 0.5	0.5	<5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.3	8.3	< 0.5	<0.5	2.0	1.0	0.7	< 0.5	ND
OW-6	05/26/09	<50	<50*	<100*		<0.5	<0.5	< 0.5	< 0.5	<0.5	<5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	7.1	19	1.7	<0.5	7.5	6.9	3.6	< 0.5	ND
OW-7	05/26/09	<50	<50*	<100*		< 0.5	<0.5	< 0.5	< 0.5	<0.5	<5	< 0.5	< 0.5	45	< 0.5	< 0.5	18	120	340	48	<0.5	7.2	7.4	0.6	< 0.5	ND
OW-8	05/26/09		<50*	<100*	<20																					
FIELD	·									_	_															
BLANK	05/26/09				<20	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	ND

#### Notes:

μg/L = Micrograms per liter.

< = Not detected at or above the practical quantitation limit.

-- = Not analyzed

ND = Not detected above laboratory reporting limits. See laboratory analytical report for individual reporting limits (Appendix C).

J = Estimated result. Result is less than the laboratory practical quantitation limit.

MTBE = Methyl tertiary-butyl ether

CB = Chlorobenzene

1,2-DCB = 1,2-Dichlorobenzene

1,3-DCB = 1,3-Dichlorobenzene

1,4-DCB = 1,4-Dichlorobenzene

1,2-DCA = 1,2-Dichloroethane

1,1-DCA = 1,1-Dichloroethane

1,1-DCE = 1,1-Dichloroethene

1,1,1-TCA = 1,1,1-Trichloroethane

1,2,3-TCB = 1,2,3-Trichlorobenzene

1,2,4-TCB = 1,2,4-Trichlorobenzene DIPE = Diisopropyl Ether

TCE = Trichloroethene

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

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

VC = Vinyl Chloride

\* = TPHd/TPHmo analyzed using silica gel cleanup



OaklandMay09 Tables1-3-edited.xls Page 1 of 1

# APPENDIX A

Historical Groundwater Analytical Results



#### Table A1 Summary of Historical Groundwater Analytical Results for TPH, Dissolved Lead, and PAHs December 2005 to Present

Pacific Gas and Electric Oakland General Construction Yard Oakland, California

	ſ				Dissolved										
					Lead										
				drocarbons	Method										
			Method 801	5M	6010B	O Mathed		Poly	nuclear Aromat	ic Hydrocarbons-	Method 827	OC - SIM			
Sample	Sample	TPHq	TPHd	TPHmo		2-Methyl Naphthalene	Acenapthene	Acenapthylene	Anthracene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Other PAHs
Name	Date	μg/l	μg/l	μg/l	μg/l	μg/L	μg/L	µg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
OW-1	12/20/05	53 <sup>1</sup>	390 <sup>2</sup>	470J	-										
OW-1	12/20/06	<50	200		-										
OW-1	04/12/07	<50 <b>80</b>	110	200	<4										
OW-1 OW-1	11/06/07 05/06/08	<b>80</b> <50	<b>260/</b> <50*	<100/<100* <b>200</b> /<100*	<8 										
OW-1	11/04/08	<50	150/90*	<b>200/</b> <100*											
OW-1	05/26/09	<50	<50*	<100*											
OW-2	12/20/05	<20	200 <sup>2</sup>	610	<3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	ND
OW-2	12/20/06				<20										
OW-2	04/12/07	<50	120	300	<4										
OW-2 OW-2	11/06/07 05/06/08		<b>210</b> /<50* <b>350</b> /<50*	<100/<100* <b>400/</b> <100*	<8										
OW-2	11/04/08		<b>350</b> /<50* <b>260/70</b> *	<b>400/</b> <100° <b>400/140</b> °	<4 <4	 									
OW-2	05/26/09		<50*	<100*	<20										
OW-4	11/06/07	<50	<b>310/</b> <50*	<b>100/</b> <100*	<8										
OW-4	05/06/08	<50	<b>640/</b> <50*	<b>700/</b> <100*											
OW-4	11/04/08	<50	100/90*	<b>200/&lt;</b> 100*											
OW-4	05/26/09	<50	<50*	<100*											
OW-5 OW-5	12/20/05 12/20/06	33 <sup>3</sup> 90	300 <sup>2</sup> 300	610 	<3 <20	0.96	0.31	0.26	0.24	0.70	0.67	13 	0.13J 	1.4	ND 
OW-5	04/12/07	<50	180	500	<4										
OW-5	11/06/07	50	<b>360/</b> <50*	<b>200/</b> <100*	<8										
OW-5	05/06/08	<50	<b>610/</b> <50*	<b>600/</b> <100*	<4										
OW-5	11/04/08	<50	240/190*	<b>300/</b> <100*	<4										
OW-5	05/26/09	<50	<50*	<100*	<20										
OW-6	12/20/05	<20	440 2	760		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	ND
OW-6 OW-6	12/20/06 04/12/07	<50 <50	<100 160	400	 <4	 									
OW-6	11/06/07	<50	<b>220/</b> <50*	<b>100/</b> <100*	<8										
OW-6	05/06/08	50	<b>460/</b> <50*	<b>400/</b> <100*											
OW-6	11/04/08	<50	240/110*	<b>300/</b> <100*											
OW-6	05/26/09	<50	<50*	<100*											
OW-7	12/20/05	330 <sup>1</sup>	510 <sup>2,4</sup>	860		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	ND
OW-7	12/20/06	<50	400	400											
OW-7 OW-7	04/12/07 11/06/07	<50 <b>250</b>	210 <b>400/</b> <50*	400 <b>200/</b> <100*	<4 <8										
OW-7	05/06/08	560	<b>610/</b> <50*	<b>600/</b> <100*											
OW-7	11/04/08	<50	320/130*	<b>300/</b> <100*											
OW-7	05/26/09	<50	<50*	<100*											
OW-8	12/20/05	<20	250 <sup>2</sup>	690	<3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	ND
OW-8	12/20/06				<20										
OW-8 OW-8	04/12/07 11/06/07	<50	150 <b>280/</b> <50*	400 <b>100/</b> <100*	<4										
OW-8	11/06/07 05/06/08		<b>390/</b> <50*	<b>100/</b> <100* <b>400/</b> <100*	<8 <4	 									
OW-8	11/04/08		230/100*	<b>300/</b> <100*	<4										
OW-8	05/26/09		<50*	<100*	<20										
FIELD															
BLANK	12/20/05	<20	<50	<500	<3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	ND
FIELD	10/02/25				60										
BLANK	12/20/06				<20	-					-				-



#### Table A1 Summary of Historical Groundwater Analytical Results for TPH, Dissolved Lead, and PAHs December 2005 to Present

Pacific Gas and Electric Oakland General Construction Yard
Oakland, California

			roleum Hyd lethod 801	drocarbons 5M	Dissolved Lead Method 6010B			Poly	nuclear Aromat	ic Hydrocarbons-	Method 827	OC - SIM			
Sample Name	Sample Date	TPHg µg/l	TPHd μg/l	TPHmo μg/l	μg/l	2-Methyl Naphthalene μg/L	Acenapthene µg/L	Acenapthylene μg/L	Anthracene μg/L	Fluoranthene µg/L	Fluorene µg/L	Naphthalene µg/L	Phenanthrene µg/L	Pyrene µg/L	Other PAHs µg/L
FIELD															
BLANK FIELD	04/12/07				<4	-	-	-			-		-		-
BLANK FIELD	11/06/07				<8	-		-					-		-
BLANK	05/06/08				<4			-							
FIELD BLANK FIELD	11/04/08				<4	-		-					-		-
BLANK	05/26/09				<20					-					

#### Notes:

OW-4 could not be sampled because a shipping container is located on the well.

TPH = Total petroleum hydrocarbons

TPHg = Total petroleum hydrocarbons quantified as gasoline

TPHd = Total petroleum hydrocarbons quantified as diesel

TPHmo = Total petroleum hydrocarbons quantified as motor oil

PAH = Polynuclear aromatic hydrocarbons

 $\mu$ g/I = Micrograms per liter.

- < = Not detected at or above the practical quantitation limit.
- -- = Not analyzed
- ND = Not detected
- J = Estimated result. Result is less than the practical quantitation limit.
- (1) = The laboratory notes that the chromatogram is mainly a dominant peak(s) which is not indicative of petroleum hydrocarbons.
- (2) = The laboratory notes that the chromatogram is mainly higher boiling hydrocarbons such as asphaltene, waste oil, motor oil, weathered diesel, and hydraulic fluid.
- (3) = The laboratory notes that the chromatogram includes higher boiling hydrocarbons such as diesel
- (4) = The laboratory notes that the chromatogram contains a recognizable contaminant peak(s) that has been removed from quantitation.



#### Table A2 Summary of Historical Groundwater Analytical Results for VOCs December 2005 to Present

Pacific Gas and Electric Oakland General Construction Yard Oakland, California

#### Volatile Organic Compounds-Method 8260B

										VOIA	the Organi	ic Compour	ido Mictife	u ozoob									
Sample Name	Sample Date	Benzene µg/l	μg/l	μg/l	μg/l	1,2,4-TMB μg/l	1,3,5-TMB µg/l	4-Isopropyl- benzene µg/I		μg/l	1,2,3-TCB µg/l	1,2,4-TCB μg/l	μg/l	μg/l	μg/l	μg/l	1,1,1-TCA μg/l	TCE µg/l	1,1-DCA µg/l	μg/l	DIPE μg/l	VC µg/l	Other VOCs µg/l
OW-1	12/20/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		0.96	<0.5	<0.5	4.6	37	110	8.8	0.66	<0.5	7.6	8.3	<0.5	<0.5	ND
OW-1	12/20/06	<0.5	<0.5	<0.5	<0.5																		
OW-1	04/12/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	1.0	<0.5	1.6	1.8	19	64	4.6	0.8	<0.5	10	11	<0.5	<0.5	ND
OW-1 OW-1	11/06/07 05/06/08	<0.5	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<5 0.6	1.0	<0.5	1.6	2.2	21 45	68 2.9	<b>4.2</b> <0.5	<0.5	<0.5 <b>4.5</b>	5.1	<0.5	6.0	ND ND
OW-1	11/04/08	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5 <0.5	0.6 0.8	<0.5 <0.5	1.1 1.8	1.7 3.3	15 25	45 42	2.9 4.1	<0.5 <0.5	<0.5 <0.5	4.5 7.3	6.8 8.0	<0.5 	<0.5 <0.5	ND ND
OW-1	05/26/09	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	0.7	2.4	22	58	3.5	<0.5	<0.5	9.2	10.0		<0.5	ND
OW-2	12/20/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	ND
OW-2	12/20/06																						
OW-2	04/12/07	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
OW-2	11/06/07																						
OW-2	05/06/08																						
OW-2	11/04/08																						
OW-2	05/26/09																						
OW-4	11/06/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
OW-4	05/06/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
OW-4	11/04/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
OW-4	05/26/09	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
OW-5	12/20/05	4.4	<0.5	<0.5	0.56	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	1.0	3.9	0.63	<0.5	0.33J	2.2	0.49J	<0.5	0.6	ND
OW-5	12/20/06	0.7	<0.5	<0.5	<0.5	3.2	1.9	0.8	50	<0.5	<0.5	<0.5	<0.5	1.0	4.3	<0.5	<0.5	<0.5	2.2	0.6	<0.5	<0.5	ND
OW-5	04/12/07	4.7	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	5.3	<0.5	<0.5	<0.5	<0.5	0.8	5.0	<0.5	<0.5	<0.5	1.6	0.6	<0.5	<0.5	ND
OW-5	11/06/07	6.8	<0.5	<0.5	<0.5	1.2	1.4	<0.5	1.6	32	<0.5	<0.5	<0.5	<0.5	8.0	3.9	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	ND
OW-5	05/06/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	1.3	8.4	<0.5	<0.5	<0.5	2.8	1.0	<0.5	<0.5	ND (a)
OW-5	11/04/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	0.6	3.8	<0.5	<0.5	<0.5	1.6	0.7		<0.5	1.5 <sup>(a)</sup>
OW-5	05/26/09	1.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	8.3	<0.5	<0.5	<0.5	2.0	1.0	0.7	<0.5	0.5 <sup>(b)</sup>
OW-6	12/20/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	0.53	<0.5	<0.5	1.4	8.6	25	5.8	<0.5	<0.5	7.0	3.1	<0.5	<0.5	ND
OW-6	12/20/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	1.2	11	44	3.4	<0.5	<0.5	8.1	4	<0.5	<0.5	ND
OW-6 OW-6	04/12/07	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	<5	<0.5	< 0.5	<0.5	0.6	6.6	22	8.1 28	< 0.5	< 0.5	12.0	9.6	< 0.5	< 0.5	ND ND
OW-6	11/06/07 05/06/08	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<5 -E	<0.5 <0.5	<0.5 <0.5	<0.5 <b>1.3</b>	0.6 11	8.1 30	12	<b>3.2</b> <0.5	<0.5 <0.5	<0.5 <b>15</b>	8.4 18.0	<0.5 <b>5.0</b>	5.2 0.9	(2)
					<0.5					<5 .r													(2)
OW-6	11/04/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	0.9	11	34	4.6	<0.5	<0.5	9	5.6		0.9	. ,
OW-6	05/26/09	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.1	19	1.7	<0.5	<0.5	7.5	6.9	3.6	<0.5	ND
OW-7 OW-7	12/20/05 12/20/06	< 0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5		0.26J	<0.5	<0.5	26	190 120	490	84 51	<0.5	0.53	7.0	6.3	<0.5	0.39J	ND ND
OW-7	04/12/07	<0.5 <0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5 <0.5	6.8	<0.5	<b>0.8</b> <0.5	25 32	21 16	130	330 460	70	<0.5 <0.5	<0.5 <0.5	3.6 6.5	3.1 6.8	<0.5 <0.5	<0.5 <0.5	(1)
OW-7	11/06/07	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5	< 0.5	<0.5	<0.5	<5 <0.5	<0.5	<0.5	<0.5	22	12	56	200	<0.5 <b>40</b>	<0.5	<0.5	5.5	<0.5		ND
OW-7						<0.5				<5 .r									<0.5 <b>10</b>			3.3	
	05/06/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5 .r	<0.5	34	21	170	820	76 77	<0.5	<0.5		14.0	0.6	0.6	ND ND
OW-7	11/04/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	50	37	190	620		<0.5	<0.5	11	13.0		0.5	
OW-7	05/26/09	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	45	18	120	340	48	<0.5	<0.5	7.2	7.4	0.6	<0.5	ND
OW-8 OW-8	12/20/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.55	<0.5	<0.5	<0.5	ND 
OW-8	12/20/06 04/12/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	 <5	 <0.5	<0.5	 <0.5	<0.5	<0.5	 <0.5	<0.5	<0.5	 <0.5	<0.5	<0.5	<0.5	<0.5	ND
OW-8	11/06/07	<0.5	<0.5	<0.5	<0.5			<0.5				<0.5			<0.5				<0.5		<0.5		
OW-8	05/06/08																						
OW-8	11/04/08																						
OW-8	05/26/09																						
FIELD																							
BLANK FIELD	12/20/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	ND
BLANK	12/20/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
FIELD BLANK	04/12/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND



#### Table A2 Summary of Historical Groundwater Analytical Results for VOCs December 2005 to Present

Pacific Gas and Electric Oakland General Construction Yard Oakland, California

#### Volatile Organic Compounds-Method 8260B

Sample Name	Sample Date	Benzene µg/l	Toluene µg/l	Ethyl- benzene µg/l	Xylenes μg/l	1,2,4-TMB μg/l	1,3,5-TMB µg/l	4-Isopropyl- benzene μg/I		MTBE μg/l	1,2,3-TCB µg/l	1,2,4-TCB μg/l	1,2-DCB µg/l	1,3-DCB µg/l	1,4-DCB μg/l	CB µg/l	1,1,1-TCA μg/l	TCE μg/l	1,1-DCA μg/l	1,1-DCE µg/l	DIPE µg/l	VC µg/l	Other VOCs µg/l
FIELD																							
BLANK	11/06/07	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
FIELD																							
BLANK	05/06/08	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
FIELD																							
BLANK	11/04/08	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
FIELD																							
BLANK	05/26/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

#### Notes:

OW-4 could not be sampled because a shipping container is located on the well.

μg/I = Micrograms per liter.

< = Not detected at or above the practical quantitation limit.

-- = Not analyzed

ND = Not detected above laboratory reporting limits. See laboratory analytical report for individual reporting limits (Appendix C).

J = Estimated result. Result is less than the laboratory practical quantitation limit.

MTBE = Methyl tertiary-butyl ether

CB = Chlorobenzene

1,2-DCB = 1,2-Dichlorobenzene

1,3-DCB = 1,3-Dichlorobenzene

1,4-DCB = 1,4-Dichlorobenzene DIPE = Diisopropyl Ether 1,1-DCA = 1,1-Dichloroethane

1,1-DCE = 1,1-Dichloroethene

1,1,1-TCA = 1,1,1-Trichloroethane

1,2,3-TCB = 1,2,3-Trichlorobenzene

1,2,4-TCB = 1,2,4-Trichlorobenzene

TCE = Trichloroethene

1,2,4-TMB = 1,2,4-Trimethylbenzene 1,3,5-TMB = 1,3,5-Trimethylbenzene

VC = Vinyl Chloride

 $^{(1)}$  = 1,2-Dichloroethane was detected at 0.5  $\mu$ g/l

(2) =1,2-Dichloroethane was detected at 0.5

(a) = Isopropylbenzene was detected at 1.5 ug/L

(b) = Isopropylbenzene was detected at 0.5 ug/L



# APPENDIX B

Field Procedures for Low-Flow Purging and Sampling



### FIELD PROCEDURES FOR LOW-FLOW PURGING AND SAMPLING

The following sections describe field procedures followed during groundwater monitoring at the site.

## **EQUIPMENT CALIBRATION**

At the beginning of each sampling day, water quality meters for pH, specific electrical conductance (SEC), dissolved oxygen (DO), oxidation reduction potential (ORP), and turbidity are calibrated. Calibration data are recorded on the first Well Sampling Record. A CHEMetrics, or other appropriate, field test kit is used if there is a problem with DO meter calibration.

## DOWNHOLE PARAMETER AND GROUNDWATER LEVEL MEASUREMENTS

After opening the wells and allowing time for equilibration to atmospheric conditions, and prior to purging and sampling activities, a complete round of downhole parameter and depth to groundwater measurements are collected from all monitoring wells. Downhole DO and ORP are measured first using a Horiba U-22, or other appropriate, water quality meter. Depth to water is then measured using an electric water level sounder to the nearest 0.01 foot from the top of casing.

#### FREE PRODUCT MEASUREMENT

The wells are inspected for free product, and if free product is observed, the depths to top and bottom of free product is measured using an interface probe to the nearest 0.01 foot from the top of casing.

#### SAMPLING ORDER

To minimize potential cross-contamination between wells, the wells are sampled in reverse order of target analyte concentration as measured during the previous sampling event.

## GROUNDWATER PURGING AND SAMPLING

Groundwater sampling is performed following EPA low-flow purging and sampling procedures<sup>1</sup>. A minimum of three equipment volumes are purged at each well using an electric pump. Typical pump types may include peristaltic, 2-inch stainless steel submersible and/or bladder pumps.

Dedicated tubing and, where necessary, submersible pumps are used to minimize disturbance. When dedicated equipment cannot be used, sufficient time is allowed after equipment installation to allow groundwater conditions to return to equilibrium. The pump inlet is placed in the center of the screened interval. Each well is purged at a flow rate of approximately 200 milliliters per minute (ml/min); flow rate is not to exceed 500 ml/min at any time during purging or sampling. Drawdown in the well is not to exceed 0.3 ft. During purging, temperature, pH, SEC, turbidity, DO, and ORP are monitored using a Horbia U-22, or other appropriate, water quality meter approximately every one equipment volume purged, or every 3 to 5 minutes. Each well is purged until the field parameters are relatively stable for three successive readings. Three successive readings should be within:

- 0.1 for pH
- 3% for SEC
- 10% for temperature
- 10 mV for ORP if practical
- 10% for DO if practical
- 10% for turbidity if practical

If applicable, the ferrous ion concentration is measured using a CHEMetrics, or other appropriate, test kit during the last reading of the field parameters. Immediately after purging, a groundwater sample is collected directly through the pump discharge tubing. Depth to water after sample collection is measured and recorded on the Well Sampling Record.

## **EQUIPMENT CLEANING**

All downhole equipment is cleaned with an Alconox-water solution and double-rinsed with deionized water before use at each well and at the end of each sampling day.

#### WASTE WATER CONTAINMENT

Waste water including purged groundwater and equipment cleaning water is contained in labeled, DOT-approved, 55-gallon steel drums, or other appropriate containers, and placed at a designated on-site location for future offsite disposal or recycling.

Puls, R.W. and Barcelona, M.J, 1996, Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedure, U.S. Environmental Protection Agency, Office of Research and Development, Publication #EPA/540/5-95/504.

# APPENDIX C

Groundwater Purging and Sampling Logs



# SPH or Purge Water Drum Log

Client:	Geomatrix	의 등을 보고 있는 것이 되는 것을 받는다. 일본 등 전 기를 받는 것을 받는다. 그 것이 되었다. 일본 등 한 기를 받는 것을 받는다. 그는 것이 되었다.		
Cita Address		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<b>5</b>	

STATUS OF DRUM(S) UPON	ARRIVAL					
Date	12-20-06	4.12.07	11/6/07	05/06/08	11/4/08	म् २६००१
Number of drum(s) empty:						
Number of drum(s) 1/4 full:						
Number of drum(s) 1/2 full:				/		
Number of drum(s) 3/4 full:						
Number of drum(s) full:			2	0		
Total drum(s) on site:		0	3		0	2
Are the drum(s) properly labeled?	y		Y	9		9
Drum ID & Contents:			purguetor	punge with		projecun
If any drum(s) are partially or totally filled, what is the first use date:			12/06	0		walot

- If you add any SPH to an empty or partially filled drum, drum must have at least 20 gals. of Purgewater or DI Water.
- -If drum contains SPH, the drum MUST be steel AND labeled with the appropriate label.
- -All BTS drums MUST be labeled appropriately.

STATUS OF DRUM(S) UPON	DEPARTL	JRE				
Date	19-20-06	4-12-07		05/06/08	11/4/08	Fleelor
Number of drums empty:						
Number of drum(s) 1/4 full:					1	
Number of drum(s) 1/2 full:		1	30			
Number of drum(s) 3/4 full:			The last in			
Number of drum(s) full:			2			
Total drum(s) on site:	2	2	3			2
Are the drum(s) properly labeled?		Ч	7	l y	N	M
Drum ID & Contents:		Purce vater		- -	-3	Ruge 1/20

# LOCATION OF DRUM(S)

Describe location of drum(s):

Near Makeria Room 30 gal incide 65 gal Drum 1/4/06

FINAL STATUS		57 (1) (1) (1)			100 mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/m	e il constitution della constitu
Number of new drum(s) left on site this event	2 (1.309)	) > (155 gl)	0		1 %	0
Date of inspection:	19-30-06	4.12-07	+011/6/07	65/06/08	cilatos	5/26/04
Drum(s) labelled properly:	U	Ч	Y	n	Υ	4
Logged by BTS Field Tech:	DIV)	กป	CF	mb	BU	36_
Office reviewed by:	1/	M	NY	8	V	R

# TEST EQUIPMENT CALIBRATION LOG

PROJECT NAM	/IE			PROJECT NUMBER						
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS			
951 556	090101697	5/26/69 1030	19 7,10,4 3900 ms 160% de	6.98, 10.01, 4.03 7899.05 99.0 237.5		w°c	50			
tach Terbodah	040100025694	5(26(09	5/50/5000	4.8/52/498	yes	Zoe	30			
	·		-	e ,						
_										

# WELL GAUGING DATA

Proje	ct#_ <i>0°05</i> 5	26-101	Date _	5/26/09	Client	AMEC	Greomatiy
Site _	4930	colliseun	Wng	Ochland	CA.		

		Well Size	Sheen /	Depth Immiso		Thickness of Immiscible	Volume of Immiscibles Removed	Depth to water	Depth to well	Survey Point: TOB or	
Well ID	Time	(in.)	Odor	E .		Liquid (ft.)		(ft.)	bottom (ft.)	(TOC)	Notes
	0949	2	No s	pit	P	etect en		3.11	18.09		SPHU
nw-2	1015	2		1				3.25	20.29		SPHV
ow-4	1002	2						3.2(	17.52		SPHU SPH V SPH V
0W-4 0W-5 0W-6 0W-7	1000	2			e <sup>e</sup>			4-23.76	19.65		Spyc
0W-6	1016	2		· ·				4.23	17.24		Spire
0W-7	1025	2		and the second s				5.65	18.20	of the last of the	3/04/
OW-8	1023	2		A	7			3.40	17.93		タサレ
								,			
- N.W.   - N											
		`									
				ł							

# WELLHEAD INSPECTION CHECKLIST

Page \_\_\_\_\_\_of \_\_\_\_

Date	5126	09	y ,		Client	AME	C G	communication	1¢		
Site Ad	ddress	Ĺ	430	C	olliseun	War	/ 0	aldord	CA		
Job Nu	ımber	0	0576	,	JOL	/	Тес	eomn Walderch chnician	<u>(2)</u>		·
	II ID		Well Inspected No Correctiv Action Require	d - l	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
Oh	)		X								
OW			X				Č				
Oω			X					- Lon			
OW			<			Sta	rel:	ane			
Ow-			6								
Ow-	7		X								
0w-	-g		X								
				_		•					
-										-	
	1.										
					÷						
A 2											
			W-1-2-0/W-W-7-2-1-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0								
ТОИ	ES:										
										A M Marian	
	,								<u> </u>	:	
		<del></del>								+	

LOW FLOW WELL MONITORING DATA SHEET

		LUWI	LUVV VVI		LLUKLING	JUALA	SHEELI					
Project #	: 09052	6-bl		Client: Geo Matrix								
Sampler:				Start Date: 5/26/09								
Well I.D	: 0W	La parametria		Well Dian	Well Diameter: (2) 3 4 6 8							
Total We	ell Depth:	K5.0°	7	Depth to V	Water	Pre: ٤	l( Post:	: 3.18				
Depth to	Free Produ		•	Thickness	of Free P	roduct (f	eet):	***************************************				
Referenc	ed to:	PVC	Grade	Flow Cell	Type: 4	'SI 556	2					
Purge Meth Sampling M		2" Grundf Dedicated	Tubing	(	Peristaltic I	g	Bladder Pump Other					
Tiow Rate.	1	1	—— Stw	t 11	Pump Dept	n: <u> </u>						
Time	Temp. ( <sup>6</sup> C)or <sup>o</sup> F)	рН	Cond. (mS or $\widehat{\mathfrak{aS}}$ )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations				
1(60	21-02	6.94	912	7	1.51	188	, parameter and the second	cleur				
1103	21.00	6.85	914	7	2.50	127	600	devs				
1106	21.10	6.83	913	6	2-17	97.6	1200	dew				
1109	21.15	6.83	913	S	2.07	91.4	1800	deur				
412	267	6.83	913	5	2.02	88.7	2400	clev				
1115	21.16	6.84	912	6	2.01	83.9	3,000	cen				
···												
· · · · · · · · · · · · · · · · · · ·												
Did well	dewater?	Yes	No		Amount	actually e	evacuated:	3000 mL				
Sampling	Time:	(20		***************************************	Sampling	g Date:	5126109					
Sample I.	D.: Ou	1-1	-052009		Laborato	ry: W	eek Lubi	vatery				
Analyzed	for:	TPH-G	BTEX MTE	BE TPH-D		Other:	See Cox					
Equipmer	nt Blank I.l	D.:	@ Time		Duplicate	e I.D.:						

	-0-11	H. 44 CP LE	. ILIVAA AA E			D M.P.C.A. M.C.A.	日本 日					
Project #	: 09052	6-50		Client: Geo Medris								
Sampler:				Start Date	: 5/26/6	79						
Well I.D.	: 0W	- 2		Well Dian	neter: (2)	3 4	6 8					
Total We	ell Depth:	20.0	27	Depth to V	Water	Pre: 3	-25 Post	: 332				
Depth to	Free Produ	ıct:		Thickness	of Free P	roduct (fe	eet):					
Referenc	ed to:	PVC	Grade	Flow Cell Type: 431 556								
Purge Meth Sampling M Flow Rate:		2" Grundf Dedicated	Tubing	8	Peristaltic I New Tubin Pump Dept	Pump	Bladder Pump Other					
Time	Temp.	рН	Cond. (mS or (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations				
1355	22.84	7.56	2766	6	0.79	-64.	* Ald Start State Control of State Contr	cleup ?				
1358	22,80	7-58	2763	5	1.07	~50	600	2				
件的	278	7.58	2761	S	1.10	150.3	1200	3				
1404	22.77	7.57	7762	4	**************************************	-50.1	1800					
HOF	22.75	7.58		5	1.13	-497	2400					
14(0	22.73	•	2763	4	1.13	-48.6	3000	<b>V</b>				
- AMERICAN AND ADDRESS OF THE PROPERTY OF THE		No.					All controls of the control of the c					
Did well	dewater?	Yes	No		Amount a	actually e	vacuated: 3	ocom				
Sampling	Time:	1415			Sampling	g Date:	5126(09					
Sample I.	D.: () i	1-2-	052009		Laborato	ry: W	eek Lubi	vatery				
Analyzed	for:	TPH-G	втех мте	BE TPH-D		Other:	See Co	0 ]				
Equipmer	nt Blank I.]	D.:	(i) Time		Duplicate	e I.D.:						

				T					7	
Project #	: 09052	6-bl		Client:	teo Mail	V.Š				
Sampler:	10			Start Date	: 5/26/0	19				
Well I.D.	: 0W	-4		Well Dian	neter: (2)	3 4	6 8			
Total We	ll Depth:	17,52		Depth to V	Water	Pre: 3	, 2( Post:	3.29		
Depth to	Free Produ	ıct:		Thickness	of Free Pi	oduct (fe	eet):			
Reference	ed to:	(PVC)	Grade	Flow Cell	Type: ц	3× 556	7		1	
Purge Methors Sampling M	lethod:	2" Grundfo Dedicated	-		Peristaltic I New Tubing	Simb)	Bladder Pump Other_		-	
Flow Rate:	700ml 1	ny		<b>.</b>	Pump Deptl	1: <u> </u>				
Time	Temp.	рН	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or/mL)	Observations	DIW)	
1150	20.82	7-02	1406	76	1.80	61		perbulites	3,2	
1153	20.62	6.93	1430	68	1.76	9.4	600	A STATE OF THE STA	n.C	
1156	70.67	6.90	1432	66	1.73	-2.5	1200		3,31	
11.59	20-79	6.89	1434	67	1.70	~5.S	1800		3.20	
1202	20.84	6.88	1437	61	1.70	-40	2400		3.2	
1205	20.91	6-88	1440	62	1.67	-3,9	3000	V	22	
									-	
									-	
									_	
Did well	dewater?	Yes (	No)		Amount a	actually e	vacuated:	8000 mL		
Sampling Time: (210 Sampling Date:							5126109			
Sample I.	D.: Ou	1 - 4	-052029		Laborato	ry: an	eek Lubo	vatery		
Analyzed	for:	BTEX MTE	BE TPH-D	-D Other: See Cig						
Equipme	nt Blank I.	D.:	(1) Time		Duplicate I.D.:					

Project #	: 09052	6-301		Client: (700 Medri)							
Sampler:		William I		Start Date	: 5/26/d	09					
Well I.D.	: 0W	5		Well Dian	neter: (2)	3 4	6 8				
Total We	ll Depth:	descentant (	1.09	Depth to V	Water	Pre: 3.	95 Post:	:401			
Depth to	Free Prod	uct:		Thickness	of Free P	roduct (fe	eet):				
Reference	ed to:	(PVC)	Grade	Flow Cell	Type: 4	'SI 55E	, )				
Purge Metho Sampling M	ethod:	2" Grundf Dedicated	•	(	Peristaltic New Tubin	g)	Bladder Pump Other				
Flow Rate:	200 m	1/in	<u></u>	<u> </u>	Pump Dept	h: <u>u.S</u>		<del></del>			
Time	Temp.	рН	Cond. (mS of µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or nL)	Observations			
1225	20.05	7.26	867	12	1.14	21		dev			
1228	20.05	7.20	867	M	1-27	-25.3	600				
1236	202-(7	7-17	867	10	1,23	-37.(	1200				
1234	20-17	7.13	866	10	1.21	-394	1800				
1237	20.19	7.09	867	7	1.17	-41.6	2400				
1240	20.23	7.08	866	8	1013	-44.3	3,500	-			
:						ţ.	**************************************				
Did well	dewater?	Yes (	No		Amount	actually e	vacuated: 🚜	is left			
Sampling	Time: \	245			Sampling	g Date:	5126(09				
Sample I.		ر مسو	-052007		Laborato	ry: Or	eek Lubi	Nortona			
Analyzed		ТРН-G	втех мте	BE TPH-D	Laboratory: Week Lubaratory  D Other: See Cot						
Equipmer	nt Blank I.	D.:	(a) Time		Duplicate I.D.:						

				11,201			L. P. B. B. B. J. B. J. J. B.		
Project #	: 09052	6 - b l		Client:	treo mui	VIŽ			
Sampler:				Start Date	: 5/26/d	94			
Well I.D	: 0W	-6		Well Diar	neter: $(2)$	3 4	6 8		
Total We	ell Depth:	17,	.24	Depth to	Water	Pre:\ 4	Post:	: 4.33	
Depth to	Free Prod	act:		Thickness	of Free P	roduct (fe	eet):		
Referenc	ed to:	PVC	Grade	Flow Cell	Type: 4	SI 556	2		
Purge Meth Sampling M Flow Rate:		2" Grundf Dedicated	•		Peristaltic I New Tubin Pump Dept	g) 13 (	Bladder Pump Other		<b>-</b> -
					T	<u>.</u>		T	7
Time	Temp.	рН	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. of mL)	Observations	Di4
1315	19.68	7.81	1141	127	1.36	-19.2	~~~	partables	4-2
1378	19.66	7.99	1142	133	1.34	-27.1	600	1	4-2
1321	19.88	8047	1147	137	1-29	-337	1200		4.2
1324	19,89	8.49	1142	135	1.28	- 39.8	1800	No. of the Control of	4,3
1327	19,90	6.50	1145	137	1,27	-37.9	24000		4.3
13 30	19.91	8.51	1145	136	1,24	-43.5	3600WL	V	4.3
		·							_
							Section 1. Company of the section 1. Company		
			<u> </u>						
Did well	dewater?	Yes (	No)		Amount a	actually e	vacuated: 30	DUCK	
Sampling	ampling Time: 13 35				Sampling	; Date:	5126(09		
Sample I.	ample I.D.: () W - 6 -05 2009				Laborator	ry: W	eek Lubo	vatory	
Analyzed	for:	ТРН-G	втех мте	BE TPH-D			See Cor	vatory	
Equipmer	nt Blank I.I	D.:	(i) Time		Duplicate				

Project #:	0905	126-	557	Client: (	Greomb	547	***************************************		
Sampler:	SO			Start Date:					
Well I.D.	: Ow	7		Well Dian	neter: (2)	3 4	6 8		
Total We	ll Depth:	18.2	<u> </u>	Depth to V	Vater	Pre: 5. (	S Post:	5.71	
	Free Produ	ıct:		Thickness	of Free P	roduct (fe		1	
Reference	ed to:	<del>PVC</del>	Grade	Flow Cell	Type:	451 556	<u> </u>		
Purge Metho Sampling M	ethod:	2" Grundf Dedicated	Tubing	(	Peristaltic I New Tubin	g g	Bladder Pump Other_		-
Flow Rate: _	200 L	mL(ini		ye.	Pump Depti	h:	75		<del>-</del>
Time	Temp. (°C or °F)	рН	Cond. (mS or (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL)	Observations	W.
ISEO	21,98	7.58	957	5	0.39	-36.0	- The state of the	deur	5.65
1503	2198	7.56	955	4	0.38	-49.1	600	egy mensor or an indicate	F. 65
1506	2207	7.54	756	- Jane	0.37	-47.3	1200	BEATT STEEL	526
ાડ્ડ વ	27.18	7.48	946	5	0.39	-44.6	1500	War a side to the state of the	5.6
1512	27.17	7.47	144	4	0.38	-45.1	2400	CHATTER COMMUNICATION OF THE PARTY OF THE PA	5.65
1515	27.20	7.45	943	4	0.39	-46.1	3000	<u>}</u>	5.7
				de					-
							The transfer of the second sec		
									-
			^						
Did well	lewater?	Yes	No		Amount	actually e	vacuated: 3-e	×90	
Sampling	Sampling Time: 512609								
Sample I.	D.: Ou	1-4-05	2009		Laborato	ry: Cr	eele Labo	ruhy	
Analyzed		ТРН-G	BTEX MTE			Other:	cele Lulo Sere coc US 150		
Equipmer	ıt Blank I.	D.: 七光	e (5	,25	Duplicate	e I.D.:	WS 150		

Project #	: 0905 <u>24</u>	s-fd		Client: Geomatrix								
Sampler:				Start Date								
Well I.D.	: ow - ;	8		Well Dian	neter: 2	3 4	6 8					
Total We	ll Depth:	17.9	3	Depth to V	Water	Pre: 3	40 Post:	3.50				
Depth to	Free Prod	uct:		Thickness								
Reference	ed to:	Ø\$C	Grade	Flow Cell	Type: 4	ot ssc	3					
Sampling M		Dedicated	Tubing	,	Peristaltic F	g	Bladder Pump Other_	1				
Flow Rate:	2004	1 Com	 		Pump Deptl	1:			7			
Time	Temp.	рН	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. of mL)	Observations	DV.			
1425	21.18	7.30	1249	4	1.79	-10.1	me and produced the street of	den	3.4			
1428	21,99	7.24	1257	3	1.76	-4.7	600	en e	3,4			
14 31	22.12	7.23	1257	3	1-7/	-12.3	1200	NAME OF THE PROPERTY OF THE PR	3,4			
1434	22.17	7-21	(255	2	1.67	-15.7	(507)	en Elizabeth de la constantia del constantia della consta	3.			
1437	22.18	7.21	1256	3	1.65	18.9	1400	A CALALAN TO THE STATE OF THE S	3.			
1440	22.(1	7.70		3	1.4	21.3	3 <i>6</i> 0V	4	3.			
									1			
									-			
Did well	dewater?	Yes	(No)		Amount a	actually e	evacuated: 30	00 W				
Sampling	Time:	1445			Sampling	Date: 5						
Sample I.D.: NW-8-052009				Laboratory: creek Laboratory								
Analyzed		TPH-G	BTEX MTE	BE TPH-D		Other: \$ @	reco					
Equipmer	nt Blank I.	D.:	@ Time		Duplicate							

# APPENDIX D

Laboratory Analytical Reports and Chain-of-Custody Documentation



CHAIN OF CUSTODY  CLIENT AMEC ( SITE PG&E  4930 Col  Oakland,	BTS#Geomat		FAX PHONE	NIA 95112-1 (408) 573-77 (408) 573-08	771 555		gel	,	2/5%					ALL ANALYSES MUS LIMITS SET BY CALIF	Creek ( TMEET SPECII	FICATIONS AN	DHS#
CLIENT AMEC ( SITE PG&E 4930 Col	Geomat liseum	. 090° rix			7		gel		બે ( <u>દ્</u> રે)					ILIVIIIO OEI DI CALIF	CIDNIN DUC VI		
AMEC ( SITE PG&E  4930 Col	Geomat liseum	rix			1 %		18 3	2 g.	<u>{</u> ا		Filtered			EPA LIA OTHER		ND RWQCB RE	:GION
PG&E 4930 Col	liseum				1 9		(Sili		37		Filte						2.5
4930 Col					CONTAINERS		5m)	Conceled			eld			SPECIAL INSTRUCTI	ONS		
							(801	ر کر اور اور کر اور		(F)	Lead (6010)Field			Invoice to: AMEC	Geomatrix		
Oakland,	^ ^	Way			\ \ \ \ \ \ \ \	3	Q i	4	1	(8015M)	010			Report to: AMEC		ni Vanda II.	
	CA				발	(8260B)	HI i			80	1 (6				and the second second	n. Yemia Ha	shimot
		MATRIX	CON	NTAINERS	J ŏ	(82	& T			as (	eac	Œ.		cc: ITSI Attn: Kin	1 Tom		
SAMPLE I.D. DATE	TIME	S= SOIL W=H <sub>2</sub> 0	TOTAL		C = COMPOSITE	VOCs	TPH-D & TPHMO (8015m) (Silica gel			TPH-Gas	Diss. I	MS/MSD		Project: PG&E Co	liseum Way		
W-1-052009 5/26/69	1(20)	4)	7	mixed	0	X			-	<u> </u>	<del>Ω,</del>	2		ADD'L INFORMATION  6xvV/Hc1 40mm	STATUS	CONDITION	LAB SAMPLE #
U-2-057009	1.0	3	2	ou key	-	_	1	H	14	X				IXAGIUM 76			-818 813:
	1415						X	X	1		X			AG1/UNIP 11 P/HA707 250			813°
1-4-057009	1210		1-			X	X	1		X				6× HC1/VV/401M 1× ABN/UND2L			
1-5-052009	1245		8			X	7		1	X	X		1	EXAMILE I STHO	3250		813
-6-052009	1335		17			\_\	X			V				GEVELLES MONAS		+	8131
1-7-057009	1520		17					1	11	10	<u> </u>		11 E	1x AGI/DAO 1/.			813
1-K-057007 V	1445		2	b		X		$\mathbb{H}$	11	X		X		3×AGIUND 16			813
			4				X	x	K		X			AG/UNP) L P/250/41003			8139
-1-052007 V	1525	1	4	وال		X					X			3/ VV/HC1			8140
											. j. v. . j.			Primos esc			4.
																	1814
						4. 1. 4.				-							
SAMPLING DATE	TIME	SAMPLIN	NG						<u> </u>								
COMPLETED /512609	1525	PERFOR	MED BY	' S. (	)(h	12								RESULTS NEEDED NO LATER THAN			
RELEASED BY					DATE	.,		TIME			RECE	VED B		THE MAIN	Standard TAT		·
RELEASED BY					ग्र	26/0	1	TIME [72]			17/	Mon	M	NO S		DATE	TIME
LLEASEDBY					DATE			TIME		٦	RECEI	VED B	Y	NSS (		5.27.09 DATE	TIME TIME
ELEASED BY			*		DATE												CLUMP
					DATE		- 1	TIME			RECE	VED B	Υ			DATE	TIME
HIPPED VIA					DATE	SEN	F 1	TIME	SENT	7	COOLE	D#	· ·				

Date: June 10, 2009

# CASE NARRATIVE Q2770

Client:

**AMEC Geomatrix** 

Project:

PG&E Oakland Coliseum Way

Sample(s):

09-C8133 to 09-C8140

Sampled:

05/26/09

Received:

05/27/09

Aqueous samples 09-C8133 to 09-C8140 were received at the laboratory at 2.5 °C. All samples were intact and there was no anomaly in sample receipt.

BTEX was analyzed by PAT/GC/MS method (EPA 5030B/8260B). TPH-gasoline was analyzed by PAT/GC/FID method (EPA 5030B/8015M). TPH-diesel was extracted with liquid-liquid extraction method (EPA 3510C), treated with silica gel (EPA 3630C), and analyzed by GC/FID (EPA 8015M). Dissolved Lead on the field-filtered samples was analyzed directly by ICP-AES method (EPA 6010B).

All samples were extracted and analyzed within holding time. All analytical quality control parameters were within acceptable limits except for the following remarks:

MS recovery for silica gel treated TPH-diesel on sample 09-C8138 (OW-7-052009)
was below QC limits due to matrix effects. The matrix effect was confirmed by the
MSD result, which was similarly low in recovery although it was within QC limits.
The TPH-diesel SGT results for this batch were reported on the basis of acceptable
CCV and LCS results.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

This report pertains only to the samples submitted to the Laboratory. This report is provided for the exclusive use of the client to whom it is addressed. This report shall not be reproduced, except in full, without written permission from Creek Environmental Laboratories. Any reproduction of this report, or use of the Laboratory's name for advertising or publicity purpose without authorization is prohibited.

Page 1

Yemia Hashimoto AMEC Geomatrix

2101 Webster St., 12th Floor

Oakland, CA 94612

Log Number: 09-C8133 Order:

Q2770

Project: PG&E Oakland Coliseum Way

Received: 05/27/09 Printed: 06/10/09

#### REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Date a		Matrix			
ow-1 052009	S. Ortiz		05/26/0	9a11:20	Aqueous			
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
TPH as Diesel, SGT	Not Detected	0.05	1	mg/L	EPA 8015/LUFT	06/05/09	06/02/09	9287
TPH as Motor Oil, SGT	Not Detected	0.1	1	mg/L	EPA 8015/LUFT	06/05/09	06/02/09	9287
TPH as Gasoline	Not Detected	0.05	1	mg/L	EPA 8015/LUFT	06/08/09		9299
Benzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Toluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Ethylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
m,p-Xylene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
o-Xylene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Methyl t-Butyl Ether (MTBE)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
t-Amyl Methyl Ether (TAME)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
t-Butyl Alcohol (TBA)	Not Detected	2	1	ug/L	EPA 8260	06/04/09		9235
Diisopropyl Ether (DIPE)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Ethyl t-Butyl Ether (ETBE)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Chlorobenzene	3.5	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,2-Dichlorobenzene	2.4	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,3-Dichlorobenzene	22	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,4-Dichlorobenzene	58	5	10	ug/L	EPA 8260	06/05/09		9244
1,2-Dichloroethane (EDC)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,2-Dibromoethane (EDB)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Bromobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Bromochloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Bromodichloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Bromoform	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Bromomethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
n-Butylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
sec-Butyl Benzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
t-Butylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Carbon Tetrachloride	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Chloroethane	Not Detected	0.5	. 1	ug/L	EPA 8260	06/04/09		9235

Page 2

Yemia Hashimoto AMEC Geomatrix

2101 Webster St., 12th Floor

Oakland, CA 94612

Log Number: 09-C8133 Order: Q2770

Project:

PG&E Oakland Coliseum Way

Received: 05/27/09

Printed: 06/10/09

# REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Sampled Date 0	Time	Matrix			
ow-1 052009	S. Ortiz		05/26/0	9a11:20	Aqueous			
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
2-Chloroethylvinyl ether	Not Detected	20	1	ug/L	EPA 8260	06/04/09		9235
Chloroform	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Chloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
2-Chlorotoluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
4-Chlorotoluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,2-Dibromo-3-Chloropropane	Not Detected	1	1	ug/L	EPA 8260	06/04/09		9235
Dibromochloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Dibromomethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Dichlorodifluoromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,1-Dichloroethane	9.2	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,1-Dichloroethene	10	0.5	1	ug/L	EPA 8260	06/04/09		9235
cis-1,2-Dichloroethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
trans-1,2-Dichloethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,2-Dichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,3-Dichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
2,2-Dichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,1-Dichloropropene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
cis-1,3-Dichloropropene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
trans-1,3-Dichloropropene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Hexachlorobutadiene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Isopropylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
4-Isopropyltoluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Methylene Chloride	Not Detected	5	1	ug/L	EPA 8260	06/04/09		9235
Naphthalene	Not Detected	5	1	ug/L	EPA 8260	06/04/09		9235
n-Propylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Styrene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,1,1,2-Tetrachloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,1,2,2-Tetrachloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Tetrachloroethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235

Page 3

Yemia Hashimoto AMEC Geomatrix

2101 Webster St., 12th Floor

Oakland, CA 94612

Log Number: 09-C8133

Order:

Q2770

Project:

PG&E Oakland Coliseum Way

Received:

05/27/09

06/10/09 Printed:

# REPORT OF ANALYTICAL RESULTS

Sampled

Sample Description	Sampled By		Date @		Matrix		
ow-1 052009	S. Ortiz		05/26/0	99911:20	Aqueous		
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Batch Prepared
1,2,3-Trichlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,2,4-Trichlorobenzene	0.7	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,1,1-Trichloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,1,2-Trichloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
Trichloroethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
Trichlorofluoromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,2,3-Trichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,2,4-Trimethylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,3,5-Trimethylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
Vinyl Chloride	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Page 4

Yemia Hashimoto AMEC Geomatrix

2101 Webster St., 12th Floor

Oakland, CA 94612

Log Number: 09-C8134 Order: Q2770

Project: PG&E

: PG&E Oakland Coliseum Way

Received: 05/27/09 Printed: 06/10/09

#### REPORT OF ANALYTICAL RESULTS

Sampled

Sample Description	Sampled By		Date ລ	Time	Matrix			
ow-2 052009	S. Ortiz		05/26/0	.======= )9a14:15	Aqueous			
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, Dissolved	Not Detected	0.02	1	mg/L	EPA 6010	05/29/09		9087
TPH as Diesel, SGT	Not Detected	0.05	1	mg/L	EPA 8015/LUFT	06/05/09	06/02/09	9287
TPH as Motor Oil, SGT	Not Detected	0.1	1	mg/L	EPA 8015/LUFT	06/05/09	06/02/09	9287

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Page 5

Yemia Hashimoto AMEC Geomatrix

2101 Webster St., 12th Floor

Oakland, CA 94612

Log Number: 09-C8135

Order:

Q2770

Project:

PG&E Oakland Coliseum Way

Received: 05/27/09

Printed: 06/10/09

# REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Date 0		Matrix 			
OW-4 052009	S. Ortiz		05/26/0	9a12:10	Aqueous			
Analyte	Result	DLR	Dilution Factor	Units Units	Method	Date Analyzed	Date Prepared	Batch
TPH as Diesel, SGT	Not Detected	0.05	1	mg/L	EPA 8015/LUFT	06/05/09	06/02/09	9287
TPH as Motor Oil, SGT	Not Detected	0.1	1	mg/L	EPA 8015/LUFT	06/05/09	06/02/09	9287
TPH as Gasoline	Not Detected	0.05	1	mg/L	EPA 8015/LUFT	06/08/09		9299
Benzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Toluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Ethylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
m,p-Xylene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
o-Xylene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Methyl t-Butyl Ether (MTBE)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
t-Amyl Methyl Ether (TAME)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
t-Butyl Alcohol (TBA)	Not Detected	2	1	ug/L	EPA 8260	06/04/09		9235
Diisopropyl Ether (DIPE)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Ethyl t-Butyl Ether (ETBE)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Chlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,2-Dichlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,3-Dichlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,4-Dichlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,2-Dichloroethane (EDC)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,2-Dibromoethane (EDB)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Bromobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Bromochloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Bromodichloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Bromoform	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Bromomethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
n-Butylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
sec-Butyl Benzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
t-Butylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Carbon Tetrachloride	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Chloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235

Page 6

Yemia Hashimoto AMEC Geomatrix

2101 Webster St., 12th Floor

Oakland, CA 94612

Log Number: 09-C8135 Order: Q2770

Project:

PG&E Oakland Coliseum Way

Received: 05/27/09 Printed: 06/10/09

# REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Date a	Time	Matrix		
======================================	S. Ortiz		05/26/0	9a12:10	Aqueous		
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Batc Prepared
2-Chloroethylvinyl ether	Not Detected	20	1	ug/L	EPA 8260	06/04/09	923
Chloroform	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
Chloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
2-Chlorotoluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
4-Chlorotoluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
1,2-Dibromo-3-Chloropropane	Not Detected	1	1	ug/L	EPA 8260	06/04/09	923
Dibromochloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
Dibromomethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
Dichlorodifluoromethane	Not Detected	0.5	.1	ug/L	EPA 8260	06/04/09	923
1.1-Dichloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
1.1-Dichloroethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
cis-1,2-Dichloroethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
trans-1,2-Dichloethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
1,2-Dichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
1,3-Dichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
2,2-Dichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
1,1-Dichloropropene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
cis-1,3-Dichloropropene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
trans-1,3-Dichloropropene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
Hexachlorobutadiene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
Isopropylbenzene	Not Detected	0.5	. 1	ug/L	EPA 8260	06/04/09	923
4-Isopropyltoluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
Methylene Chloride	Not Detected	5	1	ug/L	EPA 8260	06/04/09	923
Naphthalene	Not Detected	5	1	ug/L	EPA 8260	06/04/09	923
n-Propylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
Styrene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
1,1,1,2-Tetrachloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
1,1,2,2-Tetrachloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923
Tetrachloroethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923

Page 7

Yemia Hashimoto AMEC Geomatrix

2101 Webster St., 12th Floor

Oakland, CA 94612

Log Number: 09-C8135

Order:

Q2770

Project: PG&E Oakland Coliseum Way

05/27/09 Received:

Printed:

06/10/09

#### REPORT OF ANALYTICAL RESULTS

Sampled

Sample Description	Sampled By		Date a		Matrix			=====
OW-4 052009	S. Ortiz	S. Ortiz 0			Aqueous			======
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
1,2,3-Trichlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1.2.4-Trichlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,1,1-Trichloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,1,2-Trichloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Trichloroethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Trichlorofluoromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,2,3-Trichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,2,4-Trimethylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,3,5-Trimethylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Vinyl Chloride	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Page 8

Yemia Hashimoto AMEC Geomatrix

2101 Webster St., 12th Floor

Oakland, CA 94612

Log Number: 09-C8136 Q2770

Order: Project:

PG&E Oakland Coliseum Way

Received: Printed:

05/27/09 06/10/09

#### REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Date @ 1		Matrix					
ow-5 052009	S. Ortiz		05/26/09	9a12:45	Aqueous	Aqueous				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch		
Lead, Dissolved	Not Detected	0.02	1	mg/L	EPA 6010	05/29/09		9087		
TPH as Diesel, SGT	Not Detected	0.05	1	mg/L	EPA 8015/LUFT	06/05/09	06/02/09	9287		
TPH as Motor Oil, SGT	Not Detected	0.1	1	mg/L	EPA 8015/LUFT	06/05/09	06/02/09	9287		
TPH as Gasoline	Not Detected	0.05	1	mg/L	EPA 8015/LUFT	06/08/09		9299		
Benzene	1.6	0.5	1	ug/L	EPA 8260	06/04/09		9235		
Toluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235		
Ethylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235		
m,p-Xylene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235		
o-Xylene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235		
Methyl t-Butyl Ether (MTBE)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235		
t-Amyl Methyl Ether (TAME)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235		
t-Butyl Alcohol (TBA)	Not Detected	2	1	ug/L	EPA 8260	06/04/09		9235		
Diisopropyl Ether (DIPE)	0.7	0.5	1	ug/L	EPA 8260	06/04/09		9235		
Ethyl t-Butyl Ether (ETBE)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235		
Chlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235		
1,2-Dichlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235		
1,3-Dichlorobenzene	1.3	0.5	1	ug/L	EPA 8260	06/04/09		9235		
1,4-Dichlorobenzene	8.3	0.5	1	ug/L	EPA 8260	06/04/09		9235		
1,2-Dichloroethane (EDC)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235		
1,2-Dibromoethane (EDB)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235		
Bromobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235		
Bromochloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235		
Bromodichloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235		
Bromoform	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235		
Bromomethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235		
n-Butylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235		
sec-Butyl Benzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235		
t-Butylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235		
Carbon Tetrachloride	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235		

Page 9

Yemia Hashimoto AMEC Geomatrix

2101 Webster St., 12th Floor

Oakland, CA 94612

Log Number: 09-C8136 02770

Order: Project:

PG&E Oakland Coliseum Way

Received:

05/27/09

Printed:

06/10/09

#### REPORT OF ANALYTICAL RESULTS

Factor   Factor   Analyte   Fa	pate Date yzed Prepared	9235 9235 9235
Analyte Result DLR Dilution Units Method Day Factor Analyte Factor Analyte Pactor Pactor Analyte Pactor Pac	nte Date yzed Prepared 14/09 14/09 14/09 14/09 14/09	9235 9235 9235
2-Chloroethylvinyl ether Not Detected 20 1 ug/L EPA 8260 06/0 Chloroform Not Detected 0.5 1 ug/L EPA 8260 06/0 Chloromethane Not Detected 0.5 1 ug/L EPA 8260 06/0 2-Chlorotoluene Not Detected 0.5 1 ug/L EPA 8260 06/0 4-Chlorotoluene Not Detected 0.5 1 ug/L EPA 8260 06/0 1,2-Dibromo-3-Chloropropane Not Detected 1 1 ug/L EPA 8260 06/0 Dibromoethoromethane Not Detected 0.5 1 ug/L EPA 8260 06/0 Dibromomethane Not Detected 0.5 1 ug/L EPA 8260 06/0 Dichlorodifluoromethane Not Detected 0.5 1 ug/L EPA 8260 06/0 Dichlorodifluoromethane Not Detected 0.5 1 ug/L EPA 8260 06/0 1,1-Dichloroethane 2.0 0.5 1 ug/L EPA 8260 06/0 1,1-Dichloroethene 1.0 0.5 1 ug/L EPA 8260 06/0 1,1-Dichloroethene 0.5 1 ug/L EPA 8260 06/0 1,1-Dichloroethene 0.5 1 ug/L EPA 8260 06/0 1,1-Dichloroethene 0.5 1 ug/L EPA 8260 06/0 1,2-Dichloroethene Not Detected 0.5 1 ug/L EPA 8260 06/0 1,2-Dichloropropane Not Detected 0.5 1 ug/L EPA 8260 06/0 1,2-Dichloropropane Not Detected 0.5 1 ug/L EPA 8260 06/0 1,3-Dichloropropane Not Detected 0.5 1 ug/L EPA 8260 06/0 1,3-Dichloropropane Not Detected 0.5 1 ug/L EPA 8260 06/0	14/09 14/09 14/09 14/09	9235 9235
2-Chloroethylvinyl ether         Not Detected         20         1         ug/L         EPA 8260         06/00           Chloroform         Not Detected         0.5         1         ug/L         EPA 8260         06/00           Chloromethane         Not Detected         0.5         1         ug/L         EPA 8260         06/00           2-Chlorotoluene         Not Detected         0.5         1         ug/L         EPA 8260         06/00           4-Chlorotoluene         Not Detected         0.5         1         ug/L         EPA 8260         06/00           1,2-Dibromo-3-Chloropropane         Not Detected         1         1         ug/L         EPA 8260         06/00           Dibromochloromethane         Not Detected         0.5         1         ug/L         EPA 8260         06/00           Dibromomethane         Not Detected         0.5         1         ug/L         EPA 8260         06/00           1,1-Dichloroethane         2.0         0.5         1         ug/L         EPA 8260         06/00           1,1-Dichloroethane         1.0         0.5         1         ug/L         EPA 8260         06/00           1,2-Dichloropethane         Not Detected         0.5         1<	4/09 4/09 4/09	9235
Chloromethane Not Detected 0.5 1 ug/L EPA 8260 06/0 2-Chlorotoluene Not Detected 0.5 1 ug/L EPA 8260 06/0 4-Chlorotoluene Not Detected 0.5 1 ug/L EPA 8260 06/0 1,2-Dibromo-3-Chloropropane Not Detected 1 1 ug/L EPA 8260 06/0 Dibromochloromethane Not Detected 0.5 1 ug/L EPA 8260 06/0 Dibromomethane Not Detected 0.5 1 ug/L EPA 8260 06/0 Dibromomethane Not Detected 0.5 1 ug/L EPA 8260 06/0 Dichlorodifluoromethane Not Detected 0.5 1 ug/L EPA 8260 06/0 1,1-Dichloroethane 2.0 0.5 1 ug/L EPA 8260 06/0 1,1-Dichloroethene 1.0 0.5 1 ug/L EPA 8260 06/0 1,1-Dichloroethene Not Detected 0.5 1 ug/L EPA 8260 06/0 1,2-Dichloropropane Not Detected 0.5 1 ug/L EPA 8260 06/0 1,2-Dichloropropane Not Detected 0.5 1 ug/L EPA 8260 06/0 1,2-Dichloropropane Not Detected 0.5 1 ug/L EPA 8260 06/0 1,3-Dichloropropane Not Detected 0.5 1 ug/L EPA 8260 06/0 1,3-Dichloropropane Not Detected 0.5 1 ug/L EPA 8260 06/0	4/09 4/09	
2-Chlorotoluene         Not Detected         0.5         1         ug/L         EPA         8260         06/0           4-Chlorotoluene         Not Detected         0.5         1         ug/L         EPA         8260         06/0           1,2-Dibromo-3-Chloropropane         Not Detected         1         1         ug/L         EPA         8260         06/0           Dibromochloromethane         Not Detected         0.5         1         ug/L         EPA         8260         06/0           Dibromomethane         Not Detected         0.5         1         ug/L         EPA         8260         06/0           1,1-Dichloroethane         2.0         0.5         1         ug/L         EPA         8260         06/0           1,1-Dichloroethane         1.0         0.5         1         ug/L         EPA         8260         06/0           1,1-Dichloroethane         1.0         0.5         1         ug/L         EPA         8260         06/0           cis-1,2-Dichloroethane         Not Detected         0.5         1         ug/L         EPA         8260         06/0           trans-1,2-Dichloropropane         Not Detected         0.5         1         ug/L         EPA<	4/09	9235
4-Chlorotoluene Not Detected 0.5 1 ug/L EPA 8260 06/0 1,2-Dibromo-3-Chloropropane Not Detected 1 1 ug/L EPA 8260 06/0 Dibromochloromethane Not Detected 0.5 1 ug/L EPA 8260 06/0 Dibromomethane Not Detected 0.5 1 ug/L EPA 8260 06/0 Dichlorodifluoromethane Not Detected 0.5 1 ug/L EPA 8260 06/0 1,1-Dichloroethane 2.0 0.5 1 ug/L EPA 8260 06/0 1,1-Dichloroethane 2.0 0.5 1 ug/L EPA 8260 06/0 1,1-Dichloroethane 1.0 0.5 1 ug/L EPA 8260 06/0 1,1-Dichloroethane 0.5 1 ug/L EPA 8260 06/0 1,1-Dichloroethane 0.5 1 ug/L EPA 8260 06/0 1,2-Dichloroethane Not Detected 0.5 1 ug/L EPA 8260 06/0 1,2-Dichloropropane Not Detected 0.5 1 ug/L EPA 8260 06/0 1,2-Dichloropropane Not Detected 0.5 1 ug/L EPA 8260 06/0 1,3-Dichloropropane Not Detected 0.5 1 ug/L EPA 8260 06/0 1,3-Dichloropropane Not Detected 0.5 1 ug/L EPA 8260 06/0		
1,2-Dibromo-3-Chloropropane       Not Detected       1       1       ug/L       EPA 8260       06/0         Dibromochloromethane       Not Detected       0.5       1       ug/L       EPA 8260       06/0         Dibromomethane       Not Detected       0.5       1       ug/L       EPA 8260       06/0         Dichlorodifluoromethane       Not Detected       0.5       1       ug/L       EPA 8260       06/0         1,1-Dichloroethane       2.0       0.5       1       ug/L       EPA 8260       06/0         1,1-Dichloroethane       1.0       0.5       1       ug/L       EPA 8260       06/0         cis-1,2-Dichloroethane       Not Detected       0.5       1       ug/L       EPA 8260       06/0         trans-1,2-Dichloethane       Not Detected       0.5       1       ug/L       EPA 8260       06/0         1,2-Dichloropropane       Not Detected       0.5       1       ug/L       EPA 8260       06/0         1,3-Dichloropropane       Not Detected       0.5       1       ug/L       EPA 8260       06/0		9235
1,2-Dibromo-3-Chloropropane       Not Detected       1       1       ug/L       EPA 8260       06/0         Dibromochloromethane       Not Detected       0.5       1       ug/L       EPA 8260       06/0         Dibromomethane       Not Detected       0.5       1       ug/L       EPA 8260       06/0         Dichlorodifluoromethane       Not Detected       0.5       1       ug/L       EPA 8260       06/0         1,1-Dichloroethane       2.0       0.5       1       ug/L       EPA 8260       06/0         1,1-Dichloroethane       1.0       0.5       1       ug/L       EPA 8260       06/0         cis-1,2-Dichloroethane       Not Detected       0.5       1       ug/L       EPA 8260       06/0         trans-1,2-Dichloroethane       Not Detected       0.5       1       ug/L       EPA 8260       06/0         1,2-Dichloropropane       Not Detected       0.5       1       ug/L       EPA 8260       06/0         1,3-Dichloropropane       Not Detected       0.5       1       ug/L       EPA 8260       06/0		9235
Dibromochloromethane         Not Detected         0.5         1         ug/L         EPA         8260         06/0           Dibromomethane         Not Detected         0.5         1         ug/L         EPA         8260         06/0           Dichlorodifluoromethane         Not Detected         0.5         1         ug/L         EPA         8260         06/0           1,1-Dichloroethane         2.0         0.5         1         ug/L         EPA         8260         06/0           1,1-Dichloroethane         1.0         0.5         1         ug/L         EPA         8260         06/0           cis-1,2-Dichloroethane         Not Detected         0.5         1         ug/L         EPA         8260         06/0           trans-1,2-Dichloropropane         Not Detected         0.5         1         ug/L         EPA         8260         06/0           1,2-Dichloropropane         Not Detected         0.5         1         ug/L         EPA         8260         06/0           1,3-Dichloropropane         Not Detected         0.5         1         ug/L         EPA         8260         06/0	4/09	9235
Dichlorodifluoromethane         Not Detected         0.5         1         ug/L         EPA 8260         06/0           1,1-Dichloroethane         2.0         0.5         1         ug/L         EPA 8260         06/0           1,1-Dichloroethane         1.0         0.5         1         ug/L         EPA 8260         06/0           cis-1,2-Dichloroethane         Not Detected         0.5         1         ug/L         EPA 8260         06/0           trans-1,2-Dichloropropane         Not Detected         0.5         1         ug/L         EPA 8260         06/0           1,2-Dichloropropane         Not Detected         0.5         1         ug/L         EPA 8260         06/0           1,3-Dichloropropane         Not Detected         0.5         1         ug/L         EPA 8260         06/0	4/09	9235
1,1-Dichloroethane       2.0       0.5       1       ug/L       EPA 8260       06/0         1,1-Dichloroethane       1.0       0.5       1       ug/L       EPA 8260       06/0         cis-1,2-Dichloroethane       Not Detected       0.5       1       ug/L       EPA 8260       06/0         trans-1,2-Dichloethane       Not Detected       0.5       1       ug/L       EPA 8260       06/0         1,2-Dichloropropane       Not Detected       0.5       1       ug/L       EPA 8260       06/0         1,3-Dichloropropane       Not Detected       0.5       1       ug/L       EPA 8260       06/0	4/09	9235
1,1-Dichloroethene       1.0       0.5       1       ug/L       EPA 8260       06/0         cis-1,2-Dichloroethene       Not Detected       0.5       1       ug/L       EPA 8260       06/0         trans-1,2-Dichloropropane       Not Detected       0.5       1       ug/L       EPA 8260       06/0         1,2-Dichloropropane       Not Detected       0.5       1       ug/L       EPA 8260       06/0         1,3-Dichloropropane       Not Detected       0.5       1       ug/L       EPA 8260       06/0	4/09	9235
cis-1,2-Dichloroethene         Not Detected         0.5         1         ug/L         EPA 8260         06/0           trans-1,2-Dichloropropane         Not Detected         0.5         1         ug/L         EPA 8260         06/0           1,2-Dichloropropane         Not Detected         0.5         1         ug/L         EPA 8260         06/0           1,3-Dichloropropane         Not Detected         0.5         1         ug/L         EPA 8260         06/0	4/09	9235
trans-1,2-Dichloethene Not Detected 0.5 1 ug/L EPA 8260 06/0 1,2-Dichloropropane Not Detected 0.5 1 ug/L EPA 8260 06/0 1,3-Dichloropropane Not Detected 0.5 1 ug/L EPA 8260 06/0	4/09	9235
1,2-Dichloropropane       Not Detected       0.5       1       ug/L       EPA 8260       06/0         1,3-Dichloropropane       Not Detected       0.5       1       ug/L       EPA 8260       06/0	4/09	9235
1,3-Dichloropropane Not Detected 0.5 1 ug/L EPA 8260 06/0	4/09	923
T,3-D telled opi opinie	4/09	9235
2.2-Dichloropropane Not Detected 0.5 1 ug/L EPA 8260 06/0	4/09	9235
	4/09	923
1,1-b tentor opropere Not beteeted 015	4/09	9235
C1S-1,3-b1chtoropropere Not beteeted 013	4/09	9235
trans-1,5-bicitor opi opene Not betested ois	4/09	9235
nexacitoroputadiene Not beteeted ois	4/09	9235
1 Sopropy (Derizerie 0.5	4/09	923
4-Isopropyltoluene Not Detected 0.5 1 ug/L EPA 8260 06/0	4/09	923
Methytelle chtoride Not beteeted	4/09	9235
Napircilatene Roc Secesced	4/09	9235
n-Propylbenzene Not Detected 0.5 1 ug/L EPA 8260 06/0	4/09	9235
Styrene Not Detected 0.5 1 ug/L EPA 8260 06/0	4/09	9235
	4/09	9235
	4/09	9235

Page 10

Yemia Hashimoto AMEC Geomatrix

2101 Webster St., 12th Floor

Oakland, CA 94612

Log Number: 09-C8136

Order:

Q2770

Project:

PG&E Oakland Coliseum Way

Received: 05/27/09

Printed: 06/10/09

# REPORT OF ANALYTICAL RESULTS

Sampled

Sample Description	Sampled By		Date a	Time	Matrix		
ow-5 052009	S. Ortiz	S. Ortiz			Aqueous		
Analyte	Result	DLR	Dilution Factor	Uniţs	Method	Date Analyzed	Date Batch Prepared
Tetrachloroethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,2,3-Trichlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,2,4-Trichlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,1,1-Trichloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,1,2-Trichloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
Trichloroethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
Trichlorofluoromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,2,3-Trichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,2,4-Trimethylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,3,5-Trimethylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
Vinyl Chloride	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Page 11

Yemia Hashimoto AMEC Geomatrix

2101 Webster St., 12th Floor

Oakland, CA 94612

Log Number: 09-C8137 Order: Q2770

Project: PG8

PG&E Oakland Coliseum Way

Received: 05/27/09 Printed: 06/10/09

# REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Date a		Matrix			
ow-6 052009	S. Ortiz	S. Ortiz			Aqueous			
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
TPH as Diesel, SGT	Not Detected	0.05	1	mg/L	EPA 8015/LUFT	06/05/09	06/02/09	9287
TPH as Motor Oil, SGT	Not Detected	0.1	1	mg/L	EPA 8015/LUFT	06/05/09	06/02/09	9287
TPH as Gasoline	Not Detected	0.05	1	mg/L	EPA 8015/LUFT	06/08/09		9299
Benzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Toluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Ethylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
m,p-Xylene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
o-Xylene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Methyl t-Butyl Ether (MTBE)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
t-Amyl Methyl Ether (TAME)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
t-Butyl Alcohol (TBA)	Not Detected	2	1	ug/L	EPA 8260	06/04/09		9235
Diisopropyl Ether (DIPE)	3.6	0.5	1	ug/L	EPA 8260	06/04/09		9235
Ethyl t-Butyl Ether (ETBE)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Chlorobenzene	1.7	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,2-Dichlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,3-Dichlorobenzene	7.1	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,4-Dichlorobenzene	19	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,2-Dichloroethane (EDC)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,2-Dibromoethane (EDB)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Bromobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Bromochloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Bromodichloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Bromoform	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Bromomethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
n-Butylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
sec-Butyl Benzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
t-Butylbenzene	Not Detected	0.5	1 .	ug/L	EPA 8260	06/04/09		9235
Carbon Tetrachloride	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Chloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235

Page 12

Yemia Hashimoto AMEC Geomatrix

2101 Webster St., 12th Floor

Oakland, CA 94612

Log Number: 09-C8137 Order: Q2770

Project:

PG&E Oakland Coliseum Way

Received: 05/27/09

Printed: 06/10/09

# REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Date a		Matrix		
======================================	S. Ortiz 05/26/09a1			9a13:35	Aqueous		
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Batch Prepared
2-Chloroethylvinyl ether	Not Detected	20	1	ug/L	EPA 8260	06/04/09	9235
Chloroform	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
Chloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
2-Chlorotoluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
4-Chlorotoluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,2-Dibromo-3-Chloropropane	Not Detected	1	1	ug/L	EPA 8260	06/04/09	9235
Dibromochloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
Dibromomethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
Dichlorodifluoromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,1-Dichloroethane	7.5	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,1-Dichloroethene	6.9	0.5	1	ug/L	EPA 8260	06/04/09	9235
cis-1,2-Dichloroethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
trans-1,2-Dichloethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,2-Dichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,3-Dichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
2,2-Dichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,1-Dichloropropene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
cis-1,3-Dichloropropene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
trans-1,3-Dichloropropene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
Hexachlorobutadiene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
Isopropylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
4-Isopropyltoluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
Methylene Chloride	Not Detected	5	1	ug/L	EPA 8260	06/04/09	9235
Naphthalene	Not Detected	5	1	ug/L	EPA 8260	06/04/09	9235
n-Propylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
Styrene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,1,1,2-Tetrachloroethane	Not Detected	0.5	1 .	ug/L	EPA 8260	06/04/09	9235
1,1,2,2-Tetrachloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
Tetrachloroethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235

Page 13

Yemia Hashimoto AMEC Geomatrix

2101 Webster St., 12th Floor

Oakland, CA 94612

Log Number: 09-C8137

Order:

02770

Project:

PG&E Oakland Coliseum Way

Received: Printed:

05/27/09 06/10/09

#### REPORT OF ANALYTICAL RESULTS

Sampled

Sample Description	Description Sampled By		Date a	Time	Matrix			
ow-6 052009	S. Ortiz	:	05/26/0	05/26/09a13:35				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date B Prepared	atch
1,2,3-Trichlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,2,4-Trichlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,1,1-Trichloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,1,2-Trichloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Trichloroethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Trichlorofluoromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,2,3-Trichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,2,4-Trimethylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,3,5-Trimethylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Vinyl Chloride	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Page 14

Yemia Hashimoto AMEC Geomatrix

2101 Webster St., 12th Floor

Oakland, CA 94612

Log Number: 09-C8138 Order: Q2770

Project: PG

PG&E Oakland Coliseum Way

Received: 05/27/09 Printed: 06/10/09

# REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Date a		Matrix				
OW-7 052009	S. Ortiz				Aqueous				
Analyte	Result	DLR	Dilution Factor	Units	# ========= Method	Date Analyzed	Date Prepared	Batch	
TPH as Diesel, SGT	Not Detected	0.05	1	mg/L	EPA 8015/LUFT	06/05/09	06/02/09	9287	
TPH as Motor Oil, SGT	Not Detected	0.1	1	mg/L	EPA 8015/LUFT	06/05/09	06/02/09	9287	
TPH as Gasoline	Not Detected	0.05	1	mg/L	EPA 8015/LUFT	06/08/09		9299	
Benzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235	
Toluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235	
Ethylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235	
m,p-Xylene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235	
o-Xylene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235	
Methyl t-Butyl Ether (MTBE)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235	
t-Amyl Methyl Ether (TAME)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235	
t-Butyl Alcohol (TBA)	Not Detected	2	1	ug/L	EPA 8260	06/04/09		9235	
Diisopropyl Ether (DIPE)	0.6	0.5	1	ug/L	EPA 8260	06/04/09		9235	
Ethyl t-Butyl Ether (ETBE)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235	
Chlorobenzene	48	. 5	10	ug/L	EPA 8260	06/05/09		9244	
1,2-Dichlorobenzene	18	0.5	1	ug/L	EPA 8260	06/04/09		9235	
1,3-Dichlorobenzene	120	5	10	ug/L	EPA 8260	06/05/09		9244	
1,4-Dichlorobenzene	340	5	10	ug/L	EPA 8260	06/05/09		9244	
1,2-Dichloroethane (EDC)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235	
1,2-Dibromoethane (EDB)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235	
Bromobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235	
Bromochloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235	
Bromodichloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235	
Bromoform	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235	
Bromomethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235	
n-Butylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235	
sec-Butyl Benzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235	
t-Butylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235	
Carbon Tetrachloride	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235	
Chloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235	

Page 15

Yemia Hashimoto AMEC Geomatrix

2101 Webster St., 12th Floor

Oakland, CA 94612

Log Number: 09-C8138 Q2770

Order: Project:

PG&E Oakland Coliseum Way

Received:

05/27/09

Printed: 06/10/09

# REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Date 0	Time	Matrix			
ow-7 052009	S. Ortiz	05/26/0	9015:20	Aqueous				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
2-Chloroethylvinyl ether	Not Detected	20	1	ug/L	EPA 8260	06/04/09		9235
Chloroform	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Chloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
2-Chlorotoluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
4-Chlorotoluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,2-Dibromo-3-Chloropropane	Not Detected	1	1	ug/L	EPA 8260	06/04/09		9235
Dibromochloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Dibromomethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Dichlorodifluoromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,1-Dichloroethane	7.2	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,1-Dichloroethene	7.4	0.5	1	ug/L	EPA 8260	06/04/09		9235
cis-1,2-Dichloroethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
trans-1,2-Dichloethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,2-Dichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,3-Dichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
2,2-Dichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,1-Dichloropropene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
cis-1,3-Dichloropropene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
trans-1,3-Dichloropropene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Hexachlorobutadiene	Not Detected	0.5	1	ug/L .	EPA 8260	06/04/09		9235
Isopropylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
4-Isopropyltoluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Methylene Chloride	Not Detected	5	1	ug/L	EPA 8260	06/04/09		9235
Naphthalene	Not Detected	5	1	ug/L	EPA 8260	06/04/09		9235
n-Propylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Styrene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,1,1,2-Tetrachloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
1,1,2,2-Tetrachloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235
Tetrachloroethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09		9235

Page 16

Yemia Hashimoto AMEC Geomatrix

2101 Webster St., 12th Floor

Oakland, CA 94612

Log Number: 09-C8138

Order:

02770

Project:

PG&E Oakland Coliseum Way

Received:

05/27/09

Printed:

06/10/09

#### REPORT OF ANALYTICAL RESULTS

Sampled

Sample Description	Sampled By	Sampled By ====================================			Matrix		
ow-7 052009	S. Ortiz				Aqueous		
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Batch Prepared
1,2,3-Trichlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,2,4-Trichlorobenzene	45	5	10	ug/L	EPA 8260	06/05/09	9244
1,1,1-Trichloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,1,2-Trichloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
Trichloroethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
Trichlorofluoromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,2,3-Trichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,2,4-Trimethylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,3,5-Trimethylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
Vinyl Chloride	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Page 17

Yemia Hashimoto AMEC Geomatrix

2101 Webster St., 12th Floor

Oakland, CA 94612

Log Number: 09-C8139 Order: Q2770

Project: PG

PG&E Oakland Coliseum Way

Received: 05/27/09 Printed: 06/10/09

#### REPORT OF ANALYTICAL RESULTS

#### Sampled

Sample Description	Sampled By	Date a	Time	Matrix				
ow-8 052009	S. Ortiz	05/26/0	09a14:45	Aqueous				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, Dissolved	Not Detected	0.02	1	mg/L	EPA 6010	05/29/09		9087
TPH as Diesel, SGT	Not Detected	0.05	1	mg/L	EPA 8015/LUFT	06/05/09	06/02/09	9287
TPH as Motor Oil, SGT	Not Detected	0.1	1	mg/L	EPA 8015/LUFT	06/05/09	06/02/09	9287

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Page 18

Yemia Hashimoto AMEC Geomatrix

2101 Webster St., 12th Floor

Oakland, CA 94612

Log Number: 09-C8140 Order: Q2770

Project: I

PG&E Oakland Coliseum Way

Received:

05/27/09

Printed: 06/10/09

#### REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Date @		Matrix				
FB-1 052009	S. Ortiz 05/26/09@15:25				Aqueous			
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Bat Prepared	
Lead, Dissolved	Not Detected	0.02	1	mg/L	EPA 6010	05/29/09	90	
Benzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	92	
Toluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	92:	
Ethylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	92:	
m,p-Xylene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	92:	
o-Xylene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	92:	
Methyl t-Butyl Ether (MTBE)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923	
t-Amyl Methyl Ether (TAME)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	92:	
t-Butyl Alcohol (TBA)	Not Detected	2	1	ug/L	EPA 8260	06/04/09	92.	
Diisopropyl Ether (DIPE)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923	
Ethyl t-Butyl Ether (ETBE)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923	
Chlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923	
1,2-Dichlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923	
1,3-Dichlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923	
1,4-Dichlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923	
1,2-Dichloroethane (EDC)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923	
1,2-Dibromoethane (EDB)	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923	
Bromobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923	
Bromochloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923	
Bromodichloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923	
Bromoform	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923	
Bromomethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923	
n-Butylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923	
sec-Butyl Benzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923	
t-Butylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923	
Carbon Tetrachloride	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923	
Chloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923	
2-Chloroethylvinyl ether	Not Detected	20	1	ug/L	EPA 8260	06/04/09	923	
Chloroform	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	923	

Page 19

Yemia Hashimoto AMEC Geomatrix

2101 Webster St., 12th Floor

Oakland, CA 94612

Log Number: 09-C8140 Order: Q2770

Project:

PG&E Oakland Coliseum Way

Received: Printed:

05/27/09 06/10/09

#### REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Date @		Matrix == ==================================				
FB-1 052009	S. Ortiz		05/26/0	9015:25	Aqueous			
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Batch Prepared	
Chloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
2-Chlorotoluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
4-Chlorotoluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
1,2-Dibromo-3-Chloropropane	Not Detected	1	1	ug/L	EPA 8260	06/04/09	9235	
Dibromochloromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
Dibromomethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
Dichlorodifluoromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
1,1-Dichloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
1,1-Dichloroethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
cis-1,2-Dichloroethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
trans-1,2-Dichloethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
1,2-Dichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
1,3-Dichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
2,2-Dichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
1,1-Dichloropropene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
cis-1,3-Dichloropropene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
trans-1,3-Dichloropropene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
Hexachlorobutadiene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
Isopropylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
4-Isopropyltoluene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
Methylene Chloride	Not Detected	5	1	ug/L	EPA 8260	06/04/09	9235	
Naphthalene	Not Detected	5	1	ug/L	EPA 8260	06/04/09	9235	
n-Propylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
Styrene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
1,1,1,2-Tetrachloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
1,1,2,2-Tetrachloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
Tetrachloroethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
1,2,3-Trichlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	
1,2,4-Trichlorobenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235	

Page 20

Yemia Hashimoto AMEC Geomatrix

2101 Webster St., 12th Floor

Oakland, CA 94612

Log Number: 09-C8140

Order:

Q2770

Project:

PG&E Oakland Coliseum Way

Received:

05/27/09

Printed:

06/10/09

#### REPORT OF ANALYTICAL RESULTS

Sampled

Sample Description	Sampled By	Sampled By  S. Ortiz			Matrix		
FB-1 052009	S. Ortiz				Aqueous	<b></b>	
Analyte	Result	DLR	Dilution Factor	Units	= ========= Method	Date Analyzed	Date Batch Prepared
1,1,1-Trichloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,1,2-Trichloroethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
Trichloroethene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
Trichlorofluoromethane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,2,3-Trichloropropane	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,2,4-Trimethylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
1,3,5-Trimethylbenzene	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235
Vinyl Chloride	Not Detected	0.5	1	ug/L	EPA 8260	06/04/09	9235

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES



# Quality Control Results

Page 21

Order No.: Q2770

Laboratory Reagent Blank

Analyte	Method	Results	Ųnits	Batch
Lead, Dissolved	EPA 6010	< 0.02	mg/L	9087
TPH as Diesel, SGT	EPA 8015/LUFT	< 0.05	mg/L	9287
TPH as Motor Oil, SGT	EPA 8015/LUFT	< 0.1	mg/L	9287
TPH as Gasoline	EPA 8015/LUFT	< 0.05	mg/L	9299
Benzene	EPA 8260	< 0.5	ug/L	9235
Toluene	EPA 8260	< 0.5	ug/L ug/L	9235
Ethylbenzene	EPA 8260	< 0.5	ug/L	9235
m,p-Xylene	EPA 8260	< 0.5	ug/L	9235
o-Xylene	EPA 8260	< 0.5	ug/L	9235
Methyl t-Butyl Ether (MTBE)	EPA 8260	< 0.5	ug/L	9235
t-Amyl Methyl Ether (TAME)	EPA 8260	< 0.5	ug/L	9235
t-Butyl Alcohol (TBA)	EPA 8260	< 2	ug/L	9235
Diisopropyl Ether (DIPE)	EPA 8260	< 0.5	ug/L	9235
Ethyl t-Butyl Ether (ETBE)	EPA 8260	< 0.5	ug/L	9235
Chlorobenzene	EPA 8260	< 0.5	ug/L	9235
Chlorobenzene	EPA 8260	< 0.5	ug/L	9244
1,2-Dichlorobenzene	EPA 8260	< 0.5	ug/L	9235
1,3-Dichlorobenzene	EPA 8260	< 0.5	ug/L	9235
1,3-Dichlorobenzene	EPA 8260	< 0.5	ug/L	9244
1,4-Dichlorobenzene	EPA 8260	< 0.5	ug/L	9235
1,4-Dichlorobenzene	EPA 8260	< 0.5	ug/L	9244
1,2-Dichloroethane (EDC)	EPA 8260	< 0.5	ug/L	9235
1,2-Dibromoethane (EDB)	EPA 8260	< 0.5	ug/L	9235
Bromobenzene	EPA 8260	< 0.5	ug/L	9235
Bromochloromethane	EPA 8260	< 0.5	ug/L	9235
Bromodichloromethane	EPA 8260	< 0.5	ug/L	9235
Bromoform	EPA 8260	< 0.5	ug/L	9235
Bromomethane	EPA 8260	< 0.5	ug/L	9235
n-Butylbenzene	EPA 8260	< 0.5	ug/L	9235
sec-Butyl Benzene	EPA 8260	< 0.5	ug/L	9235
t-Butylbenzene	EPA 8260	< 0.5	ug/L	9235
Carbon Tetrachloride	EPA 8260	< 0.5	ug/L	9235
Chloroethane	EPA 8260	< 0.5	ug/L	9235
2-Chloroethylvinyl ether	EPA 8260	< 20	ug/L	9235
Chloroform	EPA 8260	< 0.5	ug/L	9235
Chloromethane	EPA 8260	< 0.5	ug/L	9235
2-Chlorotoluene	EPA 8260	< 0.5	ug/L	9235
4-Chlorotoluene	EPA 8260	< 0.5	ug/L	9235
1,2-Dibromo-3-Chloropropane Dibromochloromethane	EPA 8260	< 1	ug/L	9235
	EPA 8260	< 0.5	ug/L	9235
Dibromomethane Dichlorodifluoromethane	EPA 8260 EPA 8260	< 0.5 < 0.5	ug/L	9235 9235
1,1-Dichloroethane	EPA 8260	< 0.5	ug/L ug/L	9235 9235
1,1-Dichloroethene	EPA 8260	< 0.5	ug/L ug/L	9235
cis-1,2-Dichloroethene	EPA 8260	< 0.5	ug/L ug/L	9235
010 1/L Diditor occinene	LIA OLOO	. 0.5	45/ <b>-</b>	,

Quality Control Results

Page 22

Order No.: Q2770

Laboratory Reagent Blank (continued)

Analyte	Method	Result	Units	Batch
trans-1,2-Dichloethene	EPA 8260	< 0.5	ug/L	9235
1,2-Dichloropropane	EPA 8260	< 0.5	ug/L	9235
1,3-Dichloropropane	EPA 8260	< 0.5	ug/L	9235
2,2-Dichloropropane	EPA 8260	< 0.5	ug/L	9235
1,1-Dichloropropene	EPA 8260	< 0.5	ug/L	9235
cis-1,3-Dichloropropene	EPA 8260	< 0.5	ug/L	9235
trans-1,3-Dichloropropene	EPA 8260	< 0.5	ug/L	9235
Hexachlorobutadiene	EPA 8260	< 0.5	ug/L	9235
Isopropylbenzene	EPA 8260	< 0.5	ug/L	9235
4-Isopropyltoluene	EPA 8260	< 0.5	ug/L	9235
Methylene Chloride	EPA 8260	< 5	ug/L	9235
Naphthalene	EPA 8260	< 5	ug/L	9235
n-Propylbenzene	EPA 8260	< 0.5	ug/L	9235
Styrene	EPA 8260	< 0.5	ug/L	9235
1,1,1,2-Tetrachloroethane	EPA 8260	< 0.5	ug/L	9235
1,1,2,2-Tetrachloroethane	EPA 8260	< 0.5	ug/L	9235
Tetrachloroethene	EPA 8260	< 0.5	ug/L	9235
1,2,3-Trichlorobenzene	EPA 8260	< 0.5	ug/L	9235
1,2,4-Trichlorobenzene	EPA 8260	< 0.5	ug/L	9235
1,2,4-Trichlorobenzene	EPA 8260	< 0.5	ug/L	9244
1,1,1-Trichloroethane	EPA 8260	< 0.5	ug/L	9235
1,1,2-Trichloroethane	EPA 8260	< 0.5	ug/L	9235
Trichloroethene	EPA 8260	< 0.5	ug/L	9235
Trichlorofluoromethane	EPA 8260	< 0.5	ug/L	9235
1,2,3-Trichloropropane	EPA 8260	< 0.5	ug/L	9235
1,2,4-Trimethylbenzene	EPA 8260	< 0.5	ug/L	9235
1,3,5-Trimethylbenzene	EPA 8260	< 0.5	ug/L	9235
Vinyl Chloride	EPA 8260	< 0.5	ug/L	9235

Laboratory Known Analysis (LCS)

Analyte	Method	Recovery	Spike Amount	Units	Recovery Limits	Batch
		0404	4.0			
Lead, Dissolved	EPA 6010	96%	1.0	mg/L	75 - 125	9087
TPH as Diesel, SGT	EPA 8015/LUFT	62%	5.0	mg/L	50 - 150	9287
TPH as Gasoline	EPA 8015/LUFT	117%	0.1	mg/L	60 - 140	9299
Benzene	EPA 8260	106%	10	ug/L	80 - 120	9235
Toluene	EPA 8260	107%	10	ug/L	80 - 120	9235
Ethylbenzene	EPA 8260	104%	10	ug/L	80 - 120	9235
m,p-Xylene	EPA 8260	104%	20	ug/L	80 - 120	9235
o-Xylene	EPA 8260	102%	10	ug/L	80 - 120	9235
Methyl t-Butyl Ether (MTBE)	EPA 8260	100%	10	ug/L	70 - 130	9235
Chlorobenzene	EPA 8260	111%	10	ug/L	81 - 115	9244
1,2-Dichlorobenzene	EPA 8260	106%	10	ug/L	80 - 120	9235

**Quality Control Results** 

Page 23

Order No.: Q2770

Laboratory Known Analysis (LCS)

Analyte	Method	Recovery	Spike Amount	Units	Recovery Limits	Batch
1,3-Dichlorobenzene	EPA 8260	113%	10	ug/L	80 - 120	9244
1,4-Dichlorobenzene	EPA 8260	110%	10	ug/L	80 - 120	9244
1,1-Dichloroethane	EPA 8260	100%	10	ug/L	75 - 130	9235
1,1-Dichloroethene	EPA 8260	104%	10	ug/L	63 - 129	9235
1,2,4-Trichlorobenzene	EPA 8260	115%	10	ug/L	50 - 150	9244

# Matrix Spike/Matrix Spike Duplicates

,		MS	MSD	Matrix	Spike			RPD	
Analyte	Method	Rec.	Rec.	RPD Sample	Amount	Units	Recovery Limits	Limit	Batch
TPH as Diesel, SGT	EPA 8015/LUFT	46%	52%	12 09-c8138	5.0	mg/L	50 - 150	30	9287
TPH as Gasoline	EPA 8015/LUFT	104%	102%	2 09-08109	0.5	mg/L	60 - 140	30	9299
Benzene	EPA 8260	107%	102%	5 09-c8138	10	ug/L	80 - 120	20	9235
Toluene	EPA 8260	105%	102%	3 09-c8138	10	ug/L	80 - 120	20	9235
Ethylbenzene	EPA 8260	108%	104%	4 09-c8138	10	ug/L	80 - 120	20	9235
m,p-Xylene	EPA 8260	106%	101%	5 09-c8138	20	ug/L	80 - 120	20	9235
o-Xylene	EPA 8260	106%	102%	4 09-c8138	10	ug/L	80 - 120	20	9235
Methyl t-Butyl Ether (MTBE)	EPA 8260	100%	103%	3 09-c8138	10	ug/L	70 - 130	30	9235
Chlorobenzene	EPA 8260	96%	104%	8 09-08126	10	ug/L	74 - 131	20	9244
1,2-Dichlorobenzene	EPA 8260	99%	106%	2 09-08138	10	ug/L	80 - 120	20	9235
1,3-Dichlorobenzene	EPA 8260	98%	106%	8 09-08126	10	ug/L	80 - 120	20	9244
1,4-Dichlorobenzene	EPA 8260	97%	105%	8 09-08126	10	ug/L	80 - 120	20	9244
1,1-Dichloroethane	EPA 8260	91%	104%	8 09-08138	10	ug/L	75 - 130	20	9235
1,1-Dichloroethene	EPA 8260	102%	106%	2 09-c8138	10	ug/L	59 - 145	20	9235
1,2,4-Trichlorobenzene	EPA 8260	97%	105%	8 09-c8126	10	ug/L	50 - 150	30	9244

# Sample Duplicate

			Sample	Sample					
Analyte	Method	Sample ID	Value	Duplicate	RPD	Units	RPD Limit	Batch	
Lead, Dissolved	EPA 6010	09-C7852	< 0.02	< 0.02	0	mg/L	20.	9087	

# Surrogate Report

Sample Number	Batc	h M	ethod		Surrogate	% Recovery	QC Limits
09-08133	9244	4 EI	PA 8260		Dibromofluoromethane	101.	81-123
09-C8133	9244	4 EI	PA 8260		Toluene-d8	99.	78-116
09-C8133	9244	¥ EI	PA 8260		4-BFB	94.	60-116
09-08133	9299	E	A 8015M/LUF	T GRO	a,a,a-Trifluorotoluene	107.	50-150
09-c8133	9244	E E	PA 8260		1,2-Dichloroethane-d4	99.	70-130
09-c8133	9287	' EF	A 8015M/LUF	T DRO	Hexacosane Silica Gel	66.	50-150
09-C8134	9287	<b>E</b> F	A 8015M/LUF	T DRO	Hexacosane.Silica Gel	79.	50-150
09-C8135	9235	EP	A 8260		Dibromofluoromethane	99.	81-123
09-08135	9235	EP	A 8260		Toluene-d8	98.	78-116
09-c8135	9235	EP	A 8260		4-BFB	97.	60-116
09-c8135	9299	EP	A 8015M/LUFT	T GRO	a,a,a-Trifluorotoluene	109.	50-150
09-c8135	9235	EP	A 8260		1,2-Dichloroethane-d4	107.	70-130
09-C8135	9287	EP	A 8015M/LUF1	T DRO	Hexacosane.Silica Gel	69.	50-150
09-08136	9235	EP	A 8260		Dibromofluoromethane	103.	81-123
09-C8136	9235	EP	A 8260		Toluene-d8	99.	78-116
09-C8136	9235	EP.	A 8260		4-BFB	101.	60-116
09-C8136	9299	EP.	A 8015M/LUFT	GRO	a,a,a-Trifluorotoluene	108.	50-150
09-C8136	9235	EP.	A 8260		1,2-Dichloroethane-d4	111.	70-130
09-C8136	9287	EP	A 8015M/LUFT	DRO	Hexacosane.Silica Gel	68.	50-150
09-08137	9235	EP	A 8260		Dibromofluoromethane	102.	81-123
09-08137	9235	EP/	A 8260		Toluene-d8	98.	78-116
09-c8137	9235	EP/	A 8260		4-BFB	95.	60-116
09-C8137	9299	EP/	A 8015M/LUFT	GRO	a,a,a-Trifluorotoluene	109.	50-150
09-08137	9235	EP/	8260		1,2-Dichloroethane-d4	111.	70-130
09-c8137	9287	EP/	8015M/LUFT	DRO	Hexacosane.Silica Gel	70.	50-150
09-c8138	9244	EP#	8260		Dibromofluoromethane	100.	81-123
09-c8138	9244	EP#	8260		Toluene-d8	97.	78-116
09-c8138	9244	EP#	8260		4-BFB	95.	60-116
09-c8138	9299	EPA	8015M/LUFT	GRO	a,a,a-Trifluorotoluene	109.	50-150
09-c8138	9244	EPA	8260		1,2-Dichloroethane-d4	99.	70-130
09-c8138	9287	EPA	8015M/LUFT	DRO	Hexacosane.Silica Gel	66.	50-150
09-08139	9287	EPA	8015M/LUFT	DRO	Hexacosane.Silica Gel	74.	50-150
09-C8140	9235	EPA	8260		Dibromofluoromethane	102.	81-123
09-c8140	9235	EPA	8260		Toluene-d8	98.	78-116
09-C8140	9235	EPA	8260		4-BFB	100.	60-116
09-08140	9235	EPA	8260		1,2-Dichloroethane-d4	108.	70-130
blank	9235	EPA	8260		Dibromofluoromethane	99.	81-123
blank	9244	EPA	8260		Dibromofluoromethane	101.	81-123
LCS	9235	EPA	8260		Dibromofluoromethane	97.	81-123
LCS	9244	EPA	8260		Dibromofluoromethane	100.	81-123
09-C8138 MS	9235	EPA	8260		Dibromofluoromethane	104.	81-123
09-C8138 MSD	9235		8260		Dibromofluoromethane	98.	81-123
blank	9235		8260		Toluene-d8	100.	78-116
blank	9244		8260		Toluene-d8	99.	78-116
LCS	9235		8260		Toluene-d8	100.	78-116
LCS	9244	EPA	8260		Toluene-d8	99.	78-116

# Surrogate Report

Sample Number	Batch	Method	Surrogate	% Recovery	QC Limits
09-C8138 MS	9235	EPA 8260	Toluene-d8	102.	78-116
09-C8138 MSD	9235	EPA 8260	Toluene-d8	102.	78-116
blank	9235	EPA 8260	4-BFB	97.	60-116
blank	9244	EPA 8260	4-BFB	97.	60-116
LCS	9235	EPA 8260	4-BFB	97.	60-116
LCS	9244	EPA 8260	4-BFB	102.	60-116
09-C8138 MS	9235	EPA 8260	4-BFB	112.	60-116
09-C8138 MSD	9235	EPA 8260	4-BFB	113.	60-116
blank	9299	EPA 8015M/LUFT GRO	a,a,a-Trifluorotoluene	104.	50-150
LCS	9299	EPA 8015M/LUFT GRO	a,a,a-Trifluorotoluene	103.	50-150
09-C8109 MS	9299	EPA 8015M/LUFT GRO	a,a,a-Trifluorotoluene	104.	50-150
09-C8109 MSD	9299	EPA 8015M/LUFT GRO	a,a,a-Trifluorotoluene	104.	50-150
blank	9235	EPA 8260	1,2-Dichloroethane-d4	101.	70-130
blank	9244	EPA 8260	1,2-Dichloroethane-d4	98.	70-130
LCS	9235	EPA 8260	1,2-Dichloroethane-d4	94.	70-130
LCS	9244	EPA 8260	1,2-Dichloroethane-d4	99.	70-130
09-C8138 MS	9235	EPA 8260	1,2-Dichloroethane-d4	104.	70-130
09-C8138 MSD	9235	EPA 8260	1,2-Dichloroethane-d4	112.	70-130
blank	9287	EPA 8015M/LUFT DRO	Hexacosane.Silica Gel	77.	50-150
LCS	9287	EPA 8015M/LUFT DRO	Hexacosane.Silica Gel	82.	50-150
09-C8138 MS	9287	EPA 8015M/LUFT DRO	Hexacosane.Silica Gel	62.	50-150
09-C8138 MSD	9287	EPA 8015M/LUFT DRO	Hexacosane.Silica Gel	67.	50-150