

July 29, 2014

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

Subject: Quarterly Summary Report, Second Quarter 2014
Site: 76 Station No. 5191/5043
449 Hegenberger Road
Oakland, California
Fuel Leak Case No. RO0000219

Dear Mr. Nowell;

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

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

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Sincerely,

PACIFIC CONVENIENCE & FUEL



WALTER SPRAGUE
Director of Retail Services

Attachment

Quarterly Summary Report, Second Quarter 2014

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

*Alameda County Health Care Services
Agency Fuel Leak Case No. R00000219*

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

GeoTracker Global ID No. T0600101476

Antea Group Project No. I42705191

July 29, 2014

Prepared for:
Mr. Keith Nowell
Alameda County Health Care
Services Agency
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Suite 250
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1.0 INTRODUCTION

Antea™ Group is pleased to submit this *Quarterly Summary Report, Second Quarter 2014*, for the referenced site in Oakland, California (**Figure 1**). The subject site is an operating 76 station located on the southwestern corner of Hegenberger Road and Edgewater Drive in Oakland, CA. Station facilities include three underground storage tanks (USTs), two dispenser islands, a station building, and a carwash. A total of fourteen groundwater monitoring wells are located at or near the site (**Figures 1 and 2**). Please refer to **Appendix A** for additional site information and for the history of environmental investigations and remedial actions.

This report summarizes the data obtained from the recent groundwater monitoring and sampling event conducted on June 12, 2014. Included herein are site figures, groundwater contaminant data tables, and a discussion of trends. This report has received a technical review by Mr. Dennis Dettloff, California Professional Geologist No. 7480.

1.1 Work Performed [Second Quarter 2014]

1. Antea Group mailed out the Public Notice Fact Sheet, dated April 8, 2014 detailing the proposed soil excavation work.
2. Antea Group submitted the *Quarterly Summary Report, First Quarter 2014*, dated May 1, 2014 to the Alameda County Health Care Services Agency (ACHCSA).
3. Antea Group submitted the *Work Plan – Monitoring Well Destruction*, dated May 8, 2014 to the ACHCSA.
4. Blaine Tech Services, Inc. (Blaine Tech) conducted the second quarter 2014 groundwater monitoring and sampling event on June 12, 2014.
5. Antea Group destroyed the on-site wells as described in the *Work Plan – Monitoring Well Destruction* on June 18, 2014 in preparation for on-site excavation activities.
6. Antea Group submitted the *Remedial Design and Implementation Plan*, dated June 19, 2014 to the ACHCSA.
7. Antea Group submitted the *Work Plan – CPT Investigation*, dated June 20, 2014 to the ACHCSA.

1.2 Work Proposed [Third Quarter 2014]

1. Antea Group will submit the *Quarterly Summary Report, Second Quarter 2014* (contained herein) to the ACHCSA.
2. Antea Group will conduct the site investigation activities as outlined by the *Work Plan - Monitoring Well Installation*, dated November 21, 2013.



3. Antea Group will conduct the site investigation activities as outlined by the *Work Plan – CPT Investigation*, dated June 20, 2014.
4. Blaine Tech will conduct the third quarter 2014 monitoring and sampling event.

2.0 CURRENT PROJECT STATUS

Current phase of project:	Quarterly Groundwater Monitoring
Local Oversight Program (LOP) – Lead agency for cleanup oversight:	Alameda County Health Care Services Agency Case No. RO0000219
Secondary agency(s):	San Francisco Bay Regional Water Quality Control Board Case No. 01-1601
Monitoring well gauging schedule:	Quarterly: MW-3, MW-6 through MW-12, MW-12A, and MW-13 through MW-17
Monitoring well sampling schedule:	Quarterly: MW-6, MW-10, MW-11, MW-12, MW-12A, and MW-13 through 17 Semi-Annual (second and fourth quarters): MW-3 and MW-7 through MW-9
Total number of monitoring/remediation wells (Table 1):	Fourteen (MW-3, MW-6 through MW-12, MW-12A, and MW-13 through MW-17).
Range of well depths (total depth below ground surface, bgs) (Table 1):	Wells are set from 13 feet to 34 feet bgs.
Wells with historical measurable LNAPL (light non-aqueous phase liquid):	Former monitoring wells MW-1 and MW-2 and current monitoring well MW-6
Historical depth to water range, in feet below top of casing (BTOC):	Min: 0.07 (MW-9, Q1 2005) Max: 8.42 (MW-6, Q4 2010)
Historical groundwater elevation range (ft) for monitoring wells MW-1 through MW-17	Min: 2.77 (MW-3, Q3 1994) Max: 9.70 (MW-9, Q3 2012)
Local receptors:	See Appendix A
Current remediation technique	None

2.1 Regulatory Correspondence

Antea Group received an email from ACHCSA dated April 3, 2014. The email detailed ACHCSA's approval of the draft Public Notice Fact Sheet and detailed the distribution timeline for mailing out the fact sheet and the public comment period. The email also outlined a timeline for submitting documents requested in the email. Antea Group received a letter from ACHCSA dated June 12, 2014. The letter detailed ACHCSA's denial of a request made by Beretta Property Management to destroy monitoring wells MW-7 and MW-8 which are located on the property owned by Beretta Property Management adjacent to the site to the south.

2.2 Remedial Activities

No remedial activities took place during the second quarter 2014.

2.3 Groundwater Monitoring

During the second quarter 2014 groundwater monitoring and sampling event, fourteen monitoring wells were gauged, purged, and sampled by Blaine Tech per standard sampling protocol (**Appendix B**). Copies of Blaine Tech’s field data sheets are presented as **Appendix C**. The recent gauging and sampling data are summarized below and in **Table 2**. Historical gauging and sampling data are summarized in **Tables 3, 3a, 3b, 3c, and 3d**.

Well gauging and sampling date:	June 12, 2014
Wells gauged:	MW-3, MW-6 through MW-12, MW-12A, and MW-13 through MW-17
Wells sampled:	MW-3, MW-6 through MW-12, MW-12A, and MW-13 through MW-17
Purge method:	3 well casing volumes via electric, submersible pump
Sample collection method:	Disposable bailers
Groundwater parameters measured (Attachment C):	Temperature, pH, Conductivity, Dissolved Oxygen (DO), Oxidation Reduction Potential (ORP), and Turbidity
Wells with measurable LNAPL:	None
Current depth to water range (ft BTOC):	Min: 2.39 (MW-9) Max: 5.76 (MW-7)
Current groundwater elevation range (ft):	Min: 5.88 (MW-7) Max: 8.55 (MW-9)
Change in water depths from previous event (average change for all gauged wells):	0.74 foot increase
Groundwater flow direction and gradient in foot per foot (ft/ft):	South at 0.02 ft/ft

2.3.1 Groundwater Flow Gradient and Directional Trends

The second quarter 2014 groundwater monitoring and sampling event was performed by Blaine Tech on June 12, 2014. The average groundwater elevation decreased 0.74 feet from the March 2014 event. Depth to groundwater in the site monitoring wells ranged from 2.39 feet (MW-9) to 5.76 feet (MW-7) BTOC during the current event. The groundwater flow direction and gradient were interpreted to be to the south at 0.02 ft/ft during the current event (**Table 4**).

2.3.2 Groundwater Quality Data

Groundwater samples collected during the second quarter 2014 monitoring and sampling event were submitted with chain-of-custody (COC) documentation to Kiff Analytical LLC (Kiff), a state of California Environmental Laboratory Accreditation Program (ELAP) certified laboratory (Certification No. 08263CA). The complete analytical report and Antea Group’s laboratory data validation checklist is presented as **Appendix D**. Groundwater samples were analyzed for one or more of the following:

- Total petroleum hydrocarbons as diesel (TPHd) [silica gel treated] by Environmental Protection Agency (EPA) Method 8015M;

- Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary-butyl ether (MTBE), tertiary-butyl alcohol (TBA), and ethanol by EPA Method 8260B.

Groundwater analytical results are presented in **Table 2** (current) and **Tables 3, 3a, 3b, 3c, and 3d** (historical). The following ranges of contaminant concentrations were reported in the specified site wells, groundwater samples collected on June 12, 2014. Only the reported contaminants are listed in the table below.

Constituents	Number of Reported Samples Above LRL of the Samples Collected	Minimum Reported Concentration, in µg/L (Sample ID)	Maximum Reported Concentration, in µg/L (Sample ID)
TPHg	5 of 14	200 (MW-12)	36,000 (MW-14)
TPHd	3 of 14	64 (MW-14)	570 (MW-6)
Benzene	5 of 14	4.4 (MW-10)	3,600 (MW-17)
Toluene	4 of 14	3.3 (MW-12)	410 (MW-17)
Ethylbenzene	4 of 14	4.2 (MW-12)	3,000 (MW-14)
Total Xylenes	5 of 14	0.91 (MW-10)	6,500 (MW-14)
MTBE	8 of 14	3.3 (MW-9)	920 (MW-12)
TBA	7 of 14	8.6 (MW-12)	440 (MW-16)

Explanations:

µg/L = Micrograms per liter

LRL = Laboratory reporting limit

2.3.3 Groundwater Contaminant Trends

During the second quarter 2014, analytical results from the groundwater sample collected from monitoring well MW-3 indicated that TPHg decreased in concentration and MTBE and TBA increased in concentration. Analytical results from the groundwater sample collected from monitoring well MW-6 indicated that TPHd, benzene, toluene, total xylenes, and MTBE decreased in concentration and TPHg, ethylbenzene, and TBA increased in concentration. Analytical results from the groundwater sample collected from monitoring well MW-9 indicated that MTBE increased in concentration. Analytical results from the groundwater sample collected from monitoring well MW-10 indicated that benzene and total xylenes increased in concentration. Analytical results from the groundwater sample collected from monitoring well MW-11 indicated that MTBE decreased in concentration. Analytical results from the groundwater sample collected from monitoring well MW-12 indicated that MTBE decreased in concentration and TPHg, BTEX, and TBA increased in concentration. MTBE concentrations decreased in monitoring well MW-13 and TBA concentrations increased. Analytical results from the groundwater sample collected from monitoring well MW-14 indicated a decrease in TPHd, TPHg, and total xylenes concentrations and an increase in toluene and ethylbenzene concentrations. Analytical results from the groundwater sample collected from monitoring well MW-15 indicated a decrease in TBA concentrations and an increase in MTBE concentrations. Analytical results from the groundwater sample collected from monitoring well MW-16 indicated a decrease in



MTBE concentration and an increase in TBA concentrations. Analytical results from the groundwater sample collected from monitoring well MW-17 indicated a decrease in TPHd, TBA, and ethanol concentrations and an increase in TPHg and BTEX concentrations. Isoconcentration maps for TPHg, benzene, MTBE, and TPHd are presented on **Figures 4** through **7** and historical groundwater flow directions are shown on **Figure 8**. Concentration vs. Time graphs for monitoring wells MW-6, MW-12, MW-13, MW-14, and MW-17 are presented as **Appendix E**. Based on the graphs, concentrations of TPHd, TPHg, and benzene in monitoring wells MW-6 and MW-12 are decreasing over time and MTBE is stable. Concentrations of TPHd, TPHg, and MTBE are decreasing in monitoring well MW-13 and benzene is stable. Concentrations of TPHg, benzene, and MTBE are relatively stable in monitoring well MW-14 and TPHd is decreasing. Concentrations of TPHg and benzene are increasing in monitoring well MW-17 while TPHd concentrations are decreasing and MTBE concentrations are stable.

2.3.4 Waste Disposal Summary

Approximately 133 gallons of waste water were generated during well purging/sampling and equipment cleaning during the fourth quarter event. The waste water was transported to Blaine Tech’s bulk facility in San Jose, California. After the batching process, the wastewater will be transported to Seaport Environmental in Redwood City, California for disposal.

2.3.5 Quality Assurance / Quality Control

Antea Group’s QA/QC measures included use of a field duplicate and a detailed QA/QC data validation check on the Kiff laboratory analytical results for the June 2014 sampling event. Antea Group’s laboratory data validation checklist and the Kiff laboratory report are presented as **Appendix D**.

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

*The Method Reporting Limit (MRL) for Ethanol has been increased due to the presence of an interfering compound for sample MW-10_20140630.

*At the time of receipt by the laboratory, the temperature of the sample was -0.8 degrees C.

Based on a review of the laboratory’s analytical report, including their QA/QC procedures and those implemented by Antea Group, we conclude that the laboratory data obtained during this groundwater sampling event are valid for their intended purpose.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Antea Group recommends that all monitoring wells MW-3 and MW-6, MW-11, MW-13, MW-14, MW-15, and MW-16 be purged and sampled on a semi-annual basis during the second and fourth quarters of each year. In addition, Antea Group recommends that monitoring wells MW-7 and MW-8 be purged and sampled annually during the second quarter of each year. As indicated above, monitoring wells MW-10, MW-12, MW-12A, and MW-17 were destroyed in preparation of the upcoming site excavation activities.

4.0 REMARKS

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. For any reports cited that were not generated by Delta or Antea Group, the data from those reports is used "as is" and is assumed to be accurate. Antea Group does not guarantee the accuracy of this data for the referenced work performed nor the inferences or conclusions stated in these reports. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this report.

Prepared by:



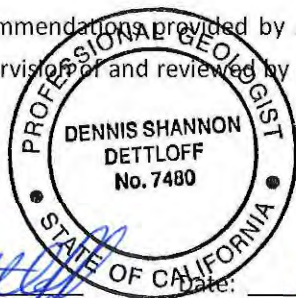
Edward T. Weyrens, G.I.T.
Project Professional

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

Licensed Approver:



Dennis S. Dettloff
Senior Project Manager
California Registered Professional Geologist No. 7480



Date: 7/29/14

cc: GeoTracker (upload)

Figures

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- Figure 2 Site Plan
- Figure 3 Groundwater Elevation Contour Map – June 12, 2014
- Figure 4 Dissolved Phase TPHg Isoconcentration Map – June 12, 2014
- Figure 5 Dissolved Phase Benzene Isoconcentration Map – June 12, 2014
- Figure 6 Dissolved Phase MTBE Isoconcentration Map – June 12, 2014
- Figure 7 Dissolved Phase TPHd Isoconcentration Map – June 12, 2014
- Figure 8 Historical Groundwater Flow Directions

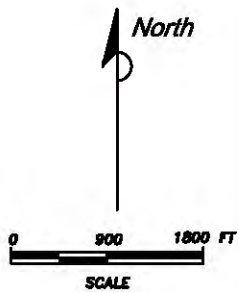
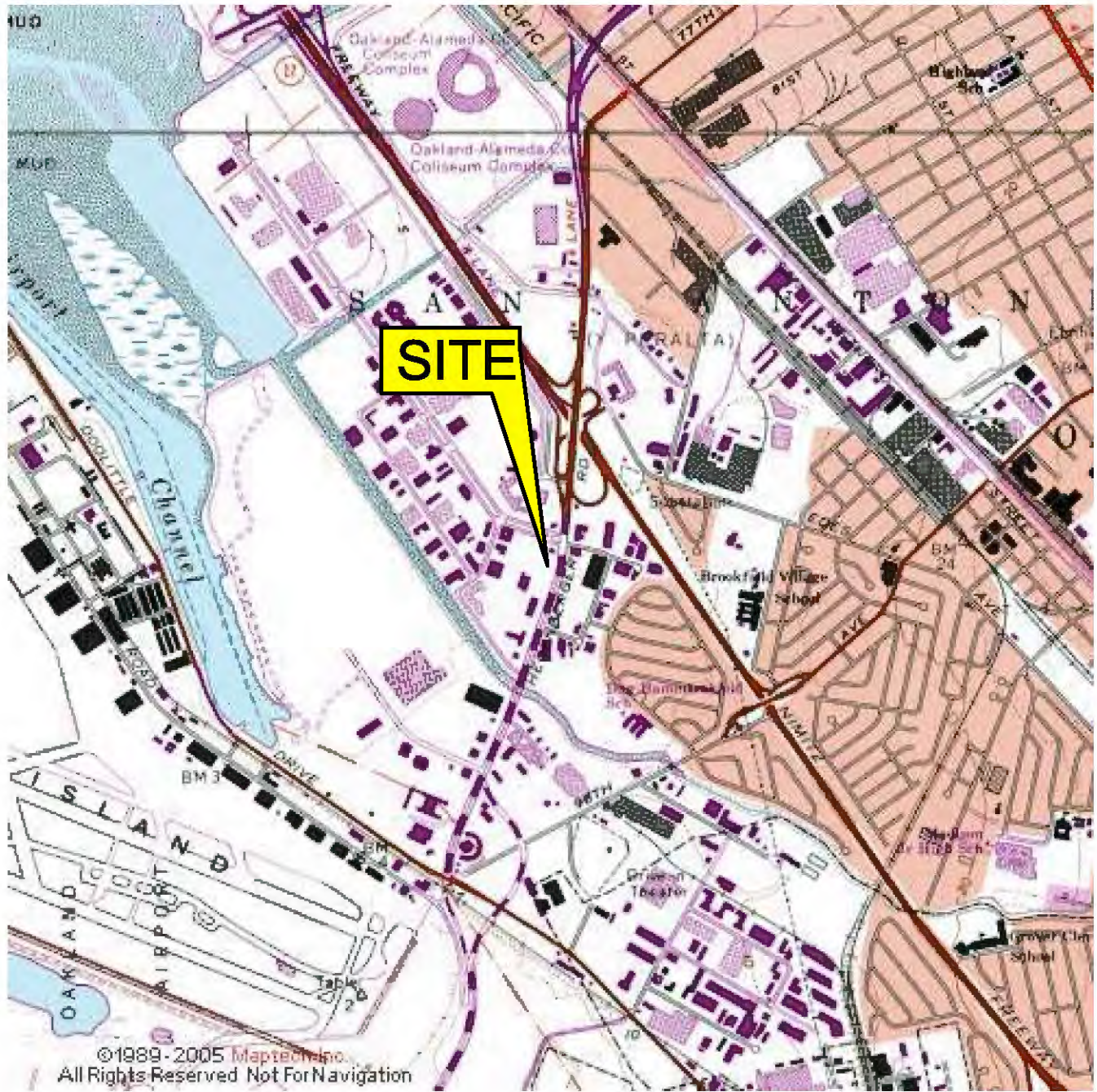


FIGURE 1
SITE LOCATION MAP
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

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



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, OAKLAND EAST QUADRANGLE (1973)

EDGEWATER DR.

LEGEND

- MW- MONITORING WELL
- ⊘ MW- ABANDONED MONITORING WELL

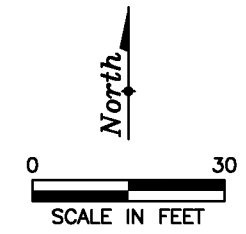
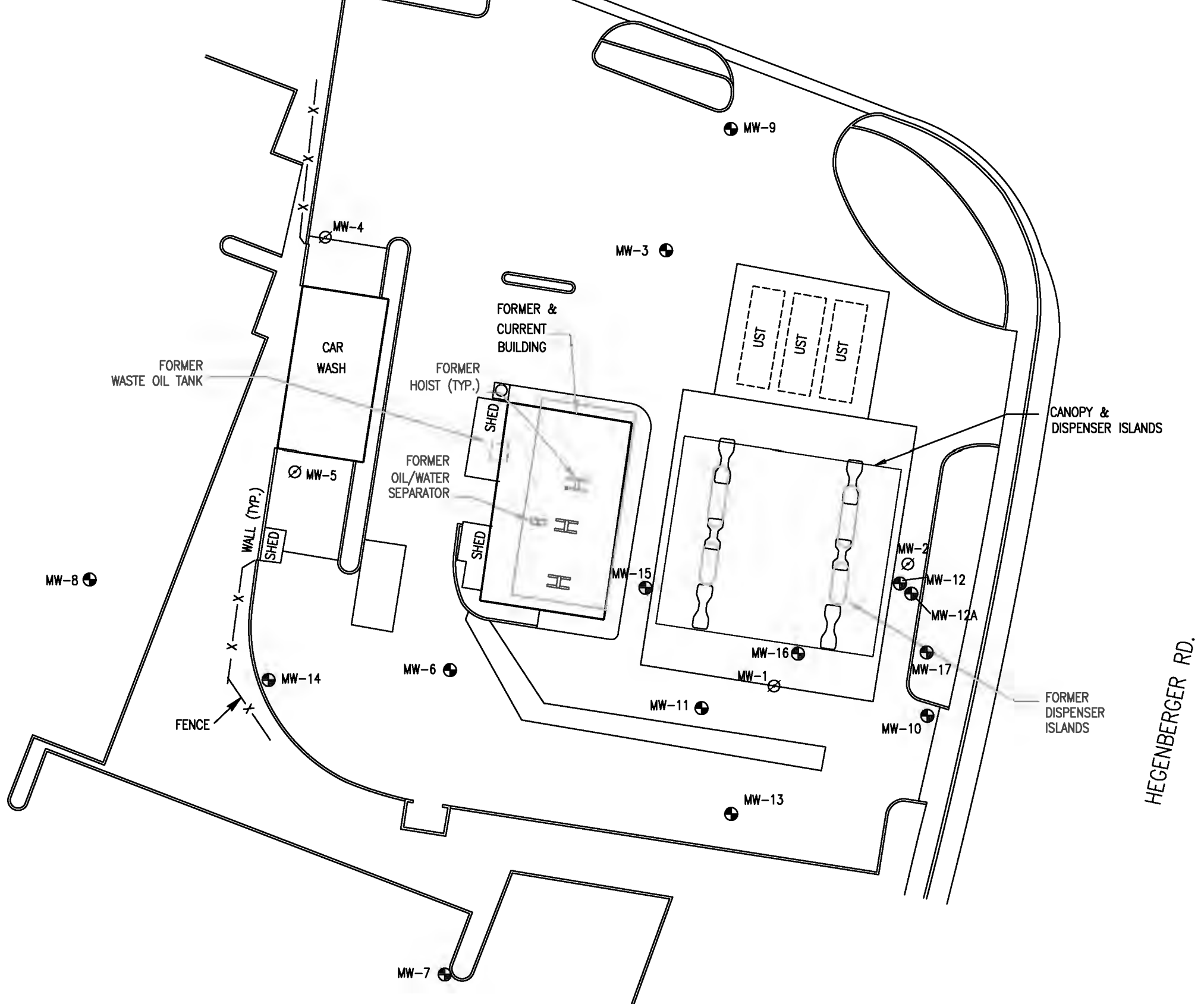

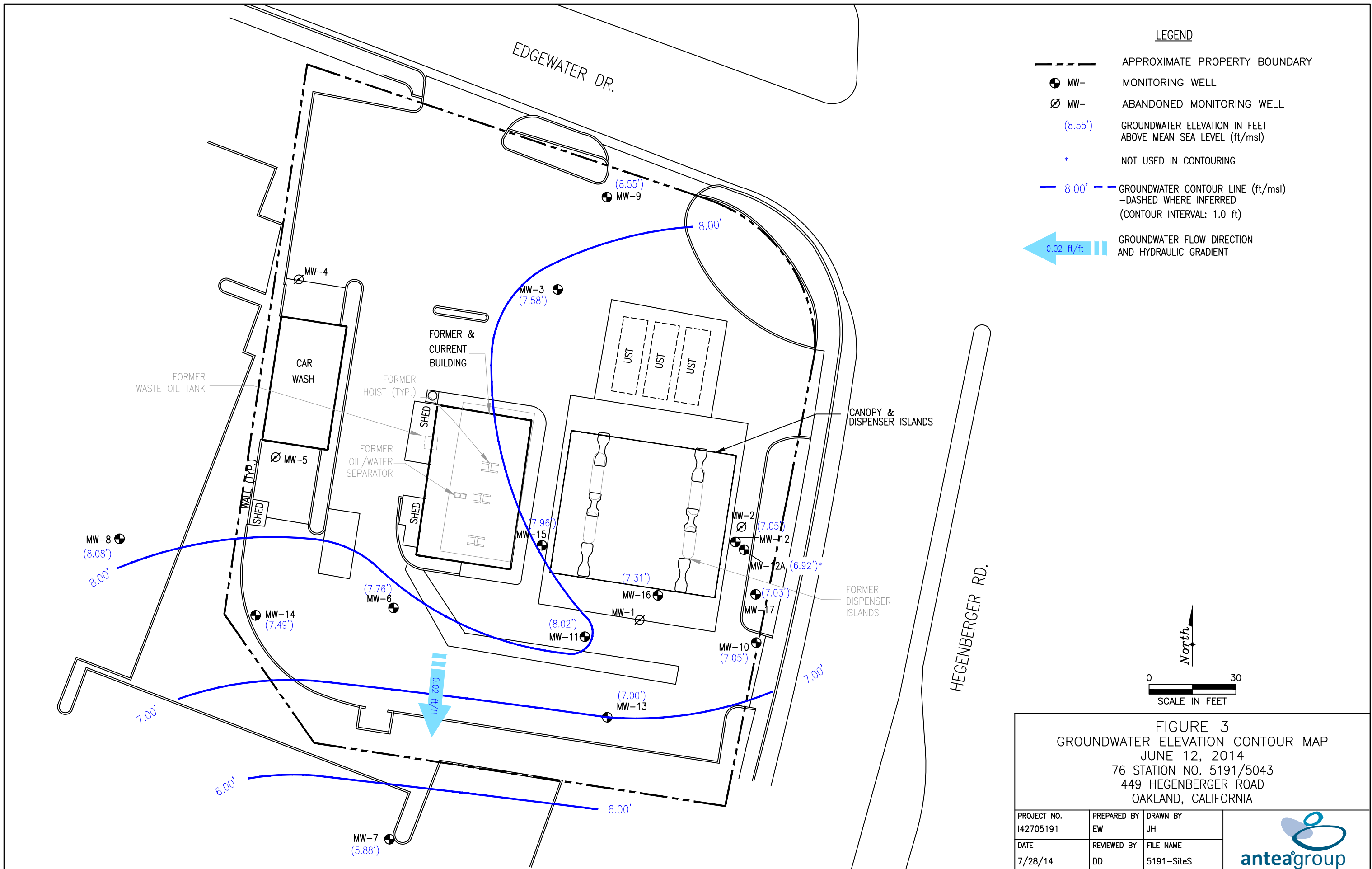


FIGURE 2
SITE PLAN

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

PROJECT NO. 142705191	PREPARED BY DD	DRAWN BY JH	 anteagroup
DATE 5/26/11	REVIEWED BY DD	FILE NAME 5191-SiteS	



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- MW- MONITORING WELL
- MW- ABANDONED MONITORING WELL
- (8.55') GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (ft/msl)
- * NOT USED IN CONTOURING
- 8.00' — GROUNDWATER CONTOUR LINE (ft/msl) —DASHED WHERE INFERRED (CONTOUR INTERVAL: 1.0 ft)
- ← 0.02 ft/ft GROUNDWATER FLOW DIRECTION AND HYDRAULIC GRADIENT

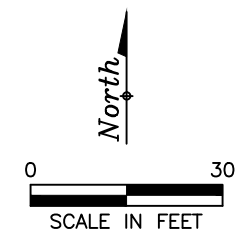

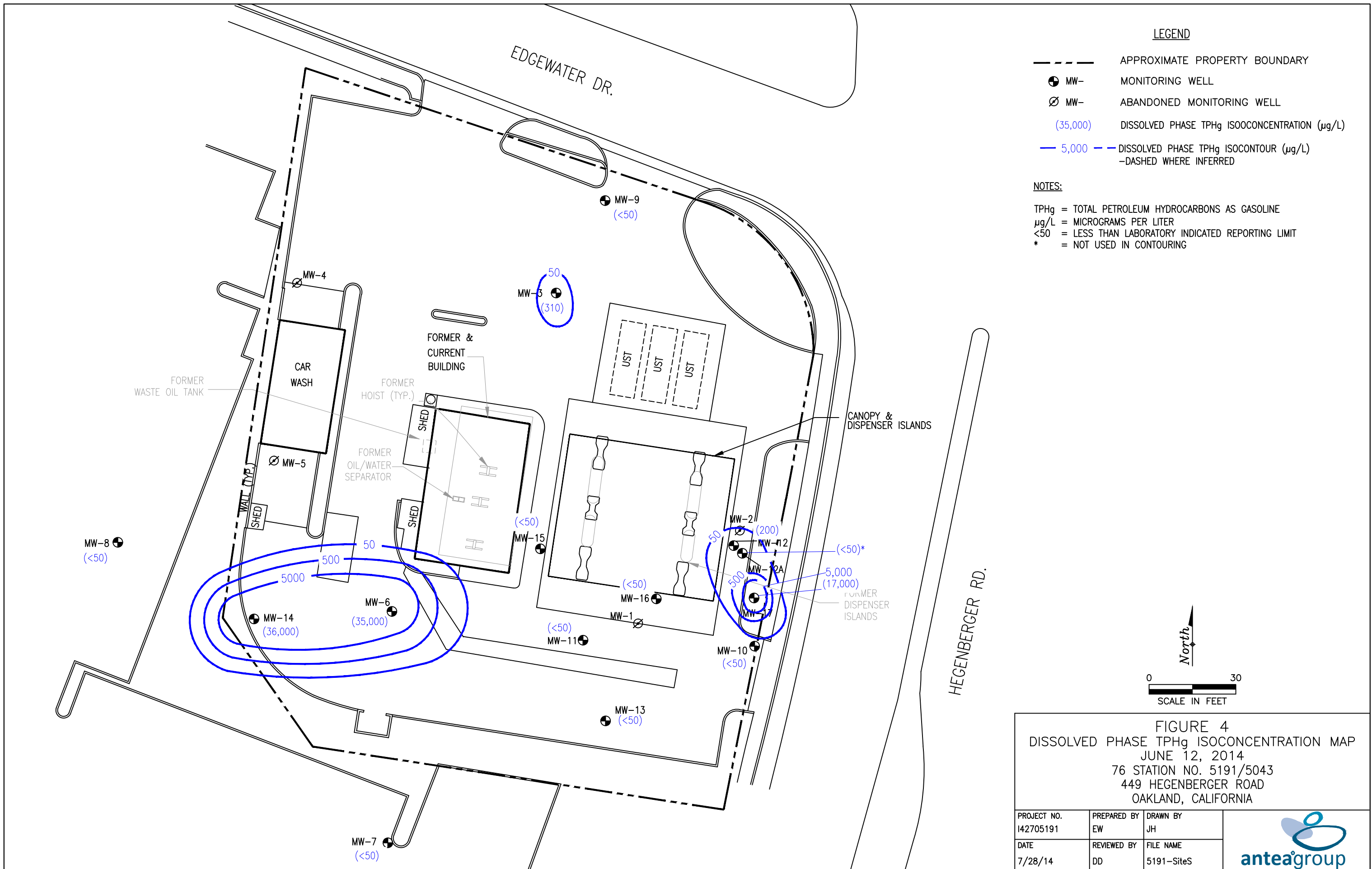


FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
 JUNE 12, 2014
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

PROJECT NO. I42705191	PREPARED BY EW	DRAWN BY JH	
DATE 7/28/14	REVIEWED BY DD	FILE NAME 5191-SiteS	



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- MW- MONITORING WELL
- MW- ABANDONED MONITORING WELL
- (35,000) DISSOLVED PHASE TPHg ISOCONCENTRATION (µg/L)
- 5,000 — DISSOLVED PHASE TPHg ISOCONTOUR (µg/L)
-DASHED WHERE INFERRED

NOTES:

TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 µg/L = MICROGRAMS PER LITER
 <50 = LESS THAN LABORATORY INDICATED REPORTING LIMIT
 * = NOT USED IN CONTOURING

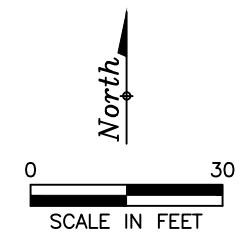
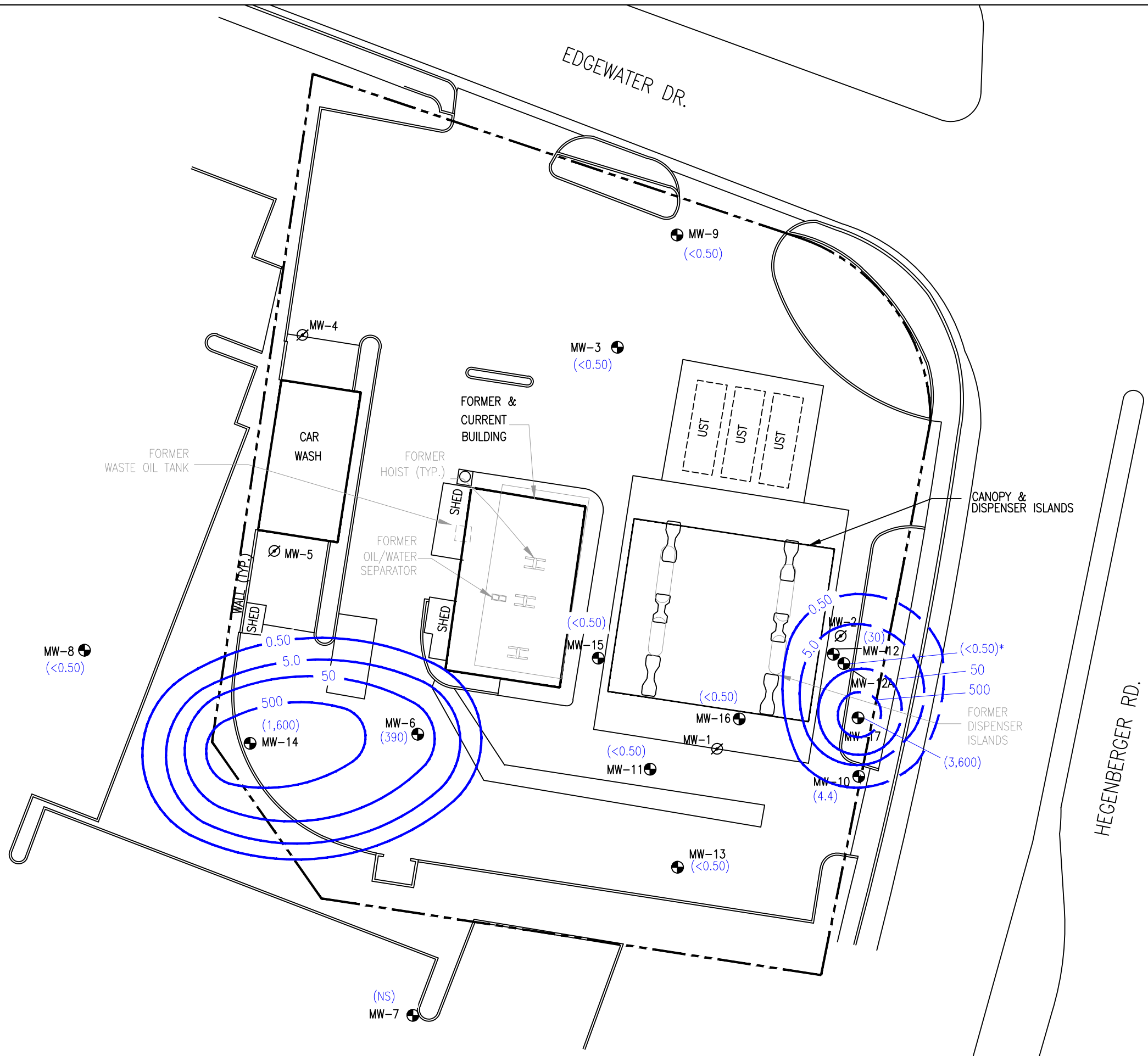


FIGURE 4
 DISSOLVED PHASE TPHg ISOCONCENTRATION MAP
 JUNE 12, 2014
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

PROJECT NO. I42705191	PREPARED BY EW	DRAWN BY JH	
DATE 7/28/14	REVIEWED BY DD	FILE NAME 5191-SiteS	



- LEGEND**
- APPROXIMATE PROPERTY BOUNDARY
 - MW- MONITORING WELL
 - ⊘ MW- ABANDONED MONITORING WELL
 - (390) DISSOLVED PHASE BENZENE ISOCONCENTRATION (µg/L)
 - 500 — DISSOLVED PHASE BENZENE ISOCONTOUR (µg/L) —DASHED WHERE INFERRED

NOTES:

µg/L = MICROGRAMS PER LITER
 <0.50 = LESS THAN LABORATORY INDICATED REPORTING LIMIT
 * = NOT USED IN CONTOURING

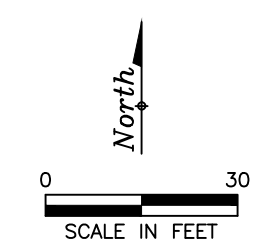


FIGURE 5
 DISSOLVED PHASE BENZENE ISOCONCENTRATION MAP
 JUNE 12, 2014
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

PROJECT NO. I42705191	PREPARED BY EW	DRAWN BY JH	
DATE 7/28/14	REVIEWED BY DD	FILE NAME 5191-SiteS	

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- ⊕ MW- MONITORING WELL
- ⊘ MW- ABANDONED MONITORING WELL
- (920) DISSOLVED PHASE MTBE ISOCONCENTRATION (µg/L)
- 500 DISSOLVED PHASE MTBE ISOCONTOUR (µg/L) -DASHED WHERE INFERRED

NOTES:

MTBE = METHYL TERTIARY BUTYL ETHER
 µg/L = MICROGRAMS PER LITER
 <0.50= LESS THAN LABORATORY INDICATED REPORTING LIMIT
 * = NOT USED IN CONTOURING

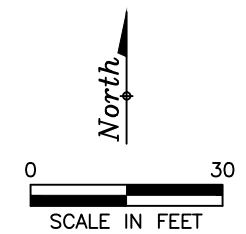
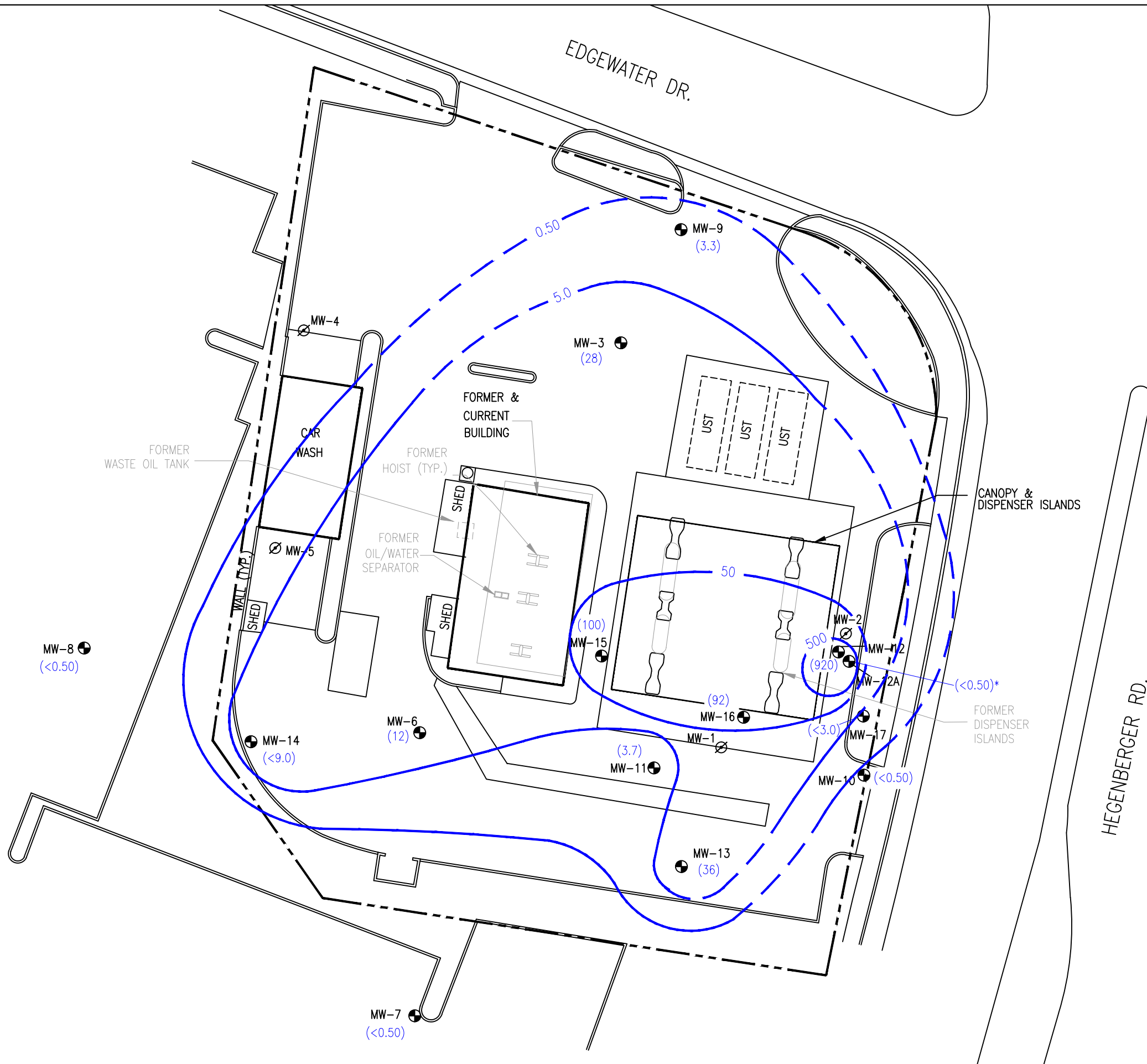


FIGURE 6
 DISSOLVED PHASE MTBE ISOCONCENTRATION MAP
 JUNE 12, 2014
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

PROJECT NO. I42705191	PREPARED BY EW	DRAWN BY JH	
DATE 7/28/14	REVIEWED BY DD	FILE NAME 5191-SiteS	

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- MW- MONITORING WELL
- ⊘ MW- ABANDONED MONITORING WELL
- (570) DISSOLVED PHASE TPHd ISOCONCENTRATION (µg/L)
- 50 — DISSOLVED PHASE TPHd ISOCONTOUR (µg/L)

NOTES:

TPHd = TOTAL PETROLEUM HYDROCARBONS AS DIESEL
 µg/L = MICROGRAMS PER LITER
 <50 = LESS THAN LABORATORY INDICATED REPORTING LIMIT
 * = NOT USED IN CONTOURING

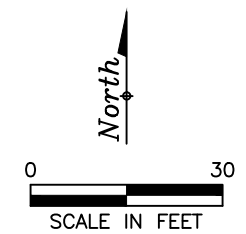
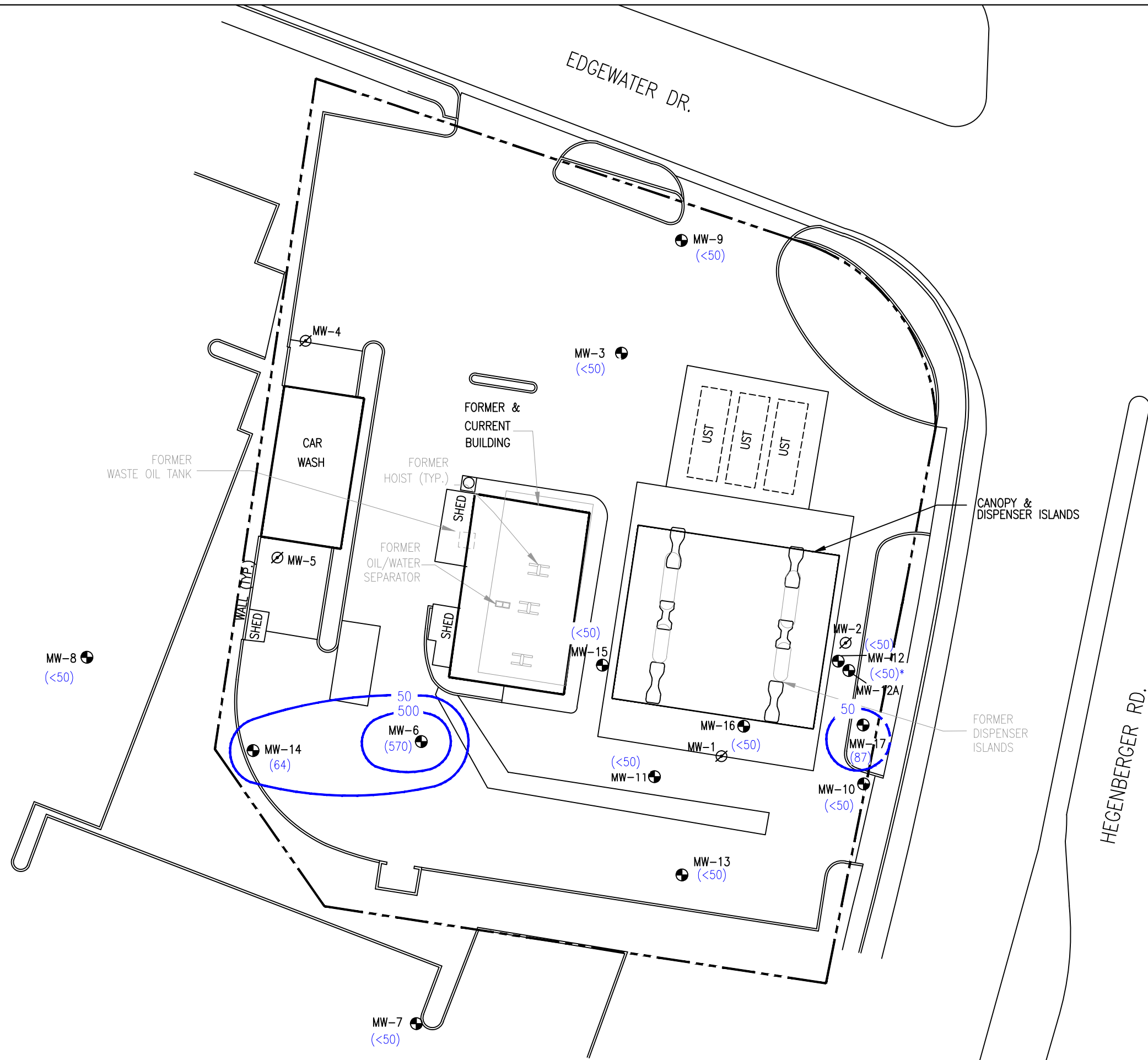
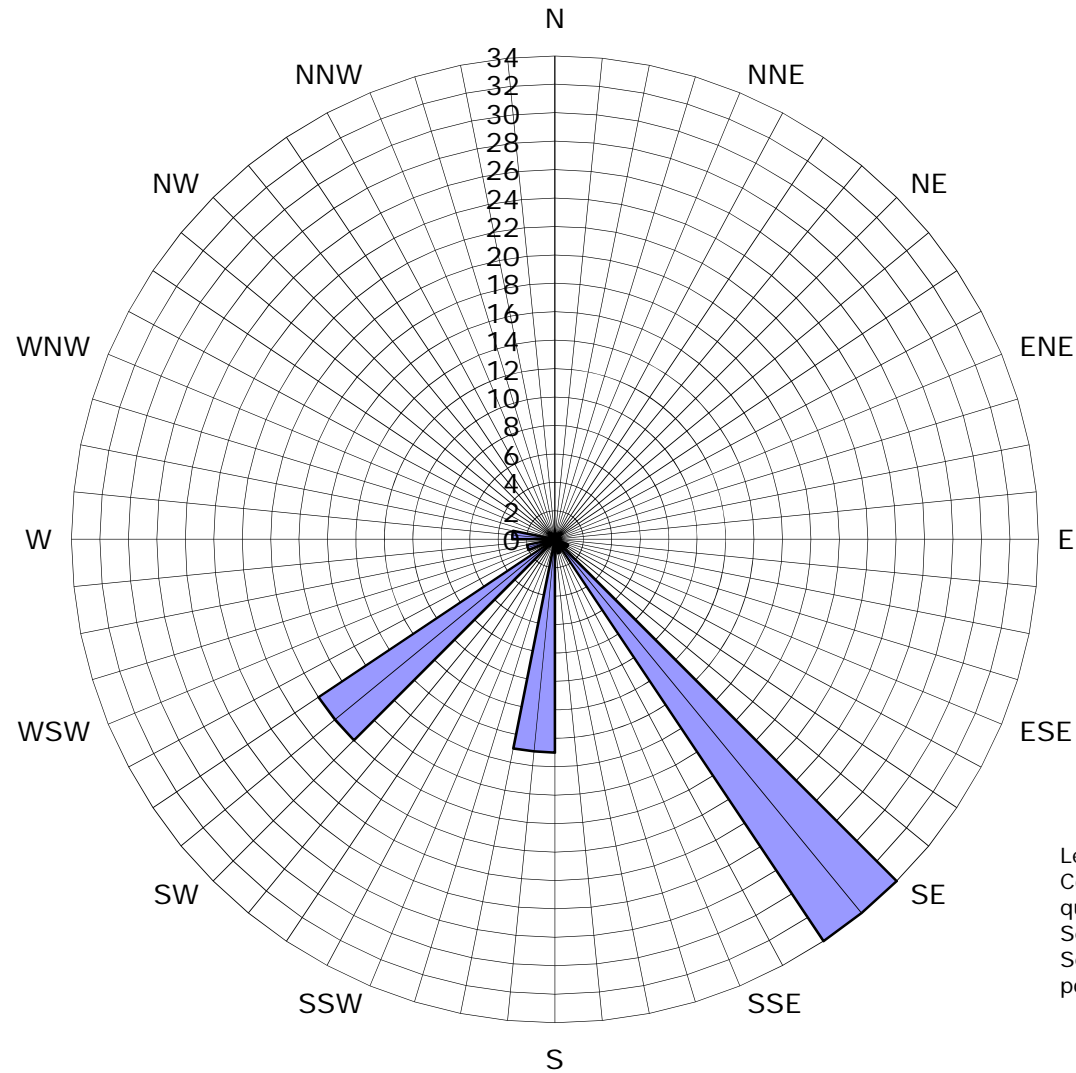


FIGURE 7
 DISSOLVED PHASE TPHd ISOCONCENTRATION MAP
 JUNE 12, 2014
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

PROJECT NO. I42705191	PREPARED BY EW	DRAWN BY JH	
DATE 7/28/14	REVIEWED BY DD	FILE NAME 5191-SiteS	

Figure 8
Historical Groundwater Flow Directions
76 Station No. 5191/5043
449 Hegenberger Road
Oakland, California



Legend
Concentric circles represent
quarterly monitoring events
Second Quarter 1992 through
Second Quarter 2014. 76 data
points shown

■ Groundwater Flow Direction

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Table 1
Well Construction Details
 76 Station No. 5191/5043
 449 Hegenberger Road
 Oakland, CA

Well I.D.	Drill Date	Well		Screen		Screen Length (feet)	Comments
		Depth (feet bgs)	Diameter (inches)	Top (feet bgs)	Bottom (feet bgs)		
Monitoring Wells							
MW-1	02/05/91	13.5	2	2.0	13.0	11.0	Destroyed
MW-2	02/05/91	15.0	2	3.0	15.0	12.0	Destroyed
MW-3	02/05/91	14.0	2	2.0	14.0	12.0	
MW-4	08/21/92	13.5	2	2.5	13.5	11.0	Destroyed
MW-5	08/21/92	13.5	2	2.5	13.5	11.0	Destroyed
MW-6	08/21/92	13.5	2	2.5	13.5	11.0	
MW-7	04/21/97	13.0	2	3.0	13.0	10.0	
MW-8	04/21/97	15.0	2	3.0	15.0	12.0	
MW-9	01/25/95	13.0	2	3.0	13.0	10.0	
MW-10	01/25/95	13.0	2	3.0	13.0	10.0	
MW-11	06/22/10	20.0	4	5.0	20.0	15.0	
MW-12	06/22/10	20.0	4	5.0	20.0	15.0	
MW-12A	06/23/10	34.0	2	30.0	34.0	4.0	
MW-13	06/22/10	15.0	2	5.0	15.0	10.0	
MW-14	05/17/11	13.0	2	3.0	13.0	10.0	
MW-15	05/17/11	13.0	2	3.0	13.0	10.0	
MW-16	05/17/11	13.0	2	3.0	13.0	10.0	
MW-17	05/18/11	13.0	2	3.0	13.0	10.0	
Explanation							
Wells are of poly-vinyl-chloride (PVC) construction							
bgs = Below ground surface							

TABLE 2
CURRENT GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA								
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	TBA (ug/L)	Ethanol (ug/L)
MW-3	6/12/2014	10.81	3.23	NP	7.58	<50	310	<0.50	<0.50	<0.50	<0.50	28	74	<5.0
MW-6	6/12/2014	11.55	3.79	NP	7.76	570	35,000	390	17	690	1,600	12	180	<50
MW-7	6/12/2014	11.64	5.76	NP	5.88	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0
MW-8	6/12/2014	11.32	3.24	NP	8.08	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0
MW-9	6/12/2014	10.94	2.39	NP	8.55	<50	<50	<0.50	<0.50	<0.50	<0.50	3.3	<5.0	<5.0
MW-10	6/12/2014	10.97	3.92	NP	7.05	<50	<50	4.4	<0.50	<0.50	0.91	<0.50	<5.0	<8.0
MW-11	6/12/2014	10.53	2.51	NP	8.02	<50	<50	<0.50	<0.50	<0.50	<0.50	3.7	<5.0	<5.0
MW-12	6/12/2014	11.01	3.96	NP	7.05	<50	200	30	3.3	4.2	6.1	920	8.6	<9.0
MW-12A	6/12/2014	11.29	4.37	NP	6.92	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0
MW-13	6/12/2014	11.08	4.08	NP	7.00	<50	<50	<0.50	<0.50	<0.50	<0.50	36	43	<5.0
MW-14	6/12/2014	12.00	4.51	NP	7.49	64	36,000	1,600	43	3,000	6,500	<9.0	<50	<90
MW-15	6/12/2014	11.11	3.15	NP	7.96	<50	<50	<0.50	<0.50	<0.50	<0.50	100	31	<5.0
MW-16	6/12/2014	10.98	3.67	NP	7.31	<50	<50	<0.50	<0.50	<0.50	<0.50	92	440	<5.0
MW-17	6/12/2014	11.52	4.49	NP	7.03	87	17,000	3,600	410	650	1,100	<3.0	300	<30

Gauging Notes:

TOS - Top of Screen
ft - Feet
NP - LNAPL not present
LNAPL - Light non-aqueous phase liquid
* - Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.75)
--- No information available

Analytical Notes:

< - Below laboratory's indicated reporting limit
ug/L - micrograms/liter
TPHd- Total petroleum hydrocarbons as diesel (silica gel treated)
TPHg- Total petroleum hydrocarbons as gasoline
MTBE- Methyl tertiary-butyl ether
TBA- Tertiary-butyl alcohol
Bold - Above the laboratory's indicated reporting limit
J - TBA result may be biased slightly high due to MTBE converting to TBA during analysis

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA															
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	
MW-1	2/18/1992	NSVD	NG	NG	NG	13,000	150,000	17,000	26,000	5,200	26,000	--	--	--	--	--	--	--	--	--	
	5/20/1992	NSVD	NG	NG	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	8/31/1992	NSVD	NG	NG	NG	8,900	64,000	13,000	12,000	2,500	22,000	--	--	--	--	--	--	--	--	--	
	11/30/1992	NSVD	NG	NG	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	2/4/1993	NSVD	NG	NG	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5/4/1993	8.96	2.13	0.10	6.91	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	8/4/1993	8.96	2.92	0.03	6.06	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	11/3/1993	7.38	3.04	NP	4.34	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	2/7/1994	7.38	2.55	0.03	4.85	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	5/19/1994	7.38	2.23	0.01	5.16	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/25/1994	7.38	2.49	0.01	4.90	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	7/27/1994	7.38	3.10	NP	4.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/15/1994	7.38	2.85	0.11	4.61	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	11/14/1994	7.38	2.97	0.12	4.50	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
2/21/1995	7.38	1.53	0.02	5.87	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
5/18/1995	NSVD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	
MW-2	2/18/1992	NSVD	NG	NG	NG	4,300	29,000	1,000	5,300	260	7,900	--	--	--	--	--	--	--	--	--	
	5/20/1992	NSVD	NG	NG	NG	4,300	24,000	2,200	7,600	630	11,000	--	--	--	--	--	--	--	--	--	
	8/31/1992	NSVD	NG	NG	NG	1,600	9,000	1,800	640	140	2,000	--	--	--	--	--	--	--	--	--	
	11/30/1992	NSVD	NG	NG	NG	5,700	29,000	2,000	3,400	1,200	6,900	--	--	--	--	--	--	--	--	--	
	2/4/1993	NSVD	NG	NG	NG	6,100	18,000	1,600	3,000	ND	6,900	--	--	--	--	--	--	--	--	--	
	5/4/1993	8.96	2.48	NP	6.48	7,100	63,000	3,200	17,000	470	17,000	--	--	--	--	--	--	--	--	--	
	8/4/1993	8.96	3.20	NP	5.76	1,800	45,000	2,100	6,600	1,400	12,000	--	--	--	--	--	--	--	--	--	
	11/3/1993	8.58	3.37	NP	5.21	2,600	72,000	3,700	16,000	3,700	20,000	--	--	--	--	--	--	--	--	--	
	2/7/1994	8.58	2.40	NP	6.18	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
	5/19/1994	8.58	2.13	NP	6.45	3,000	42,000	2,500	1,300	2,300	13,000	--	--	--	--	--	--	--	--	--	
	6/25/1994	8.58	2.65	NP	5.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	7/27/1994	8.58	3.44	NP	5.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	8/15/1994	8.58	3.25	NP	5.33	2,800	35,000	2,400	850	1,700	15,000	--	--	--	--	--	--	--	--	--	
	11/14/1994	8.58	2.13	NP	6.45	10,000	43,000	2,200	6,500	1,800	14,000	--	--	--	--	--	--	--	--	--	
2/21/1995	8.58	1.65	NP	6.93	2,000	44,000	2,200	3,200	1,300	1,500	--	--	--	--	--	--	--	--	--		
5/18/1995	NSVD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD		
MW-3	2/18/1992	NSVD	NG	NG	NG	ND	230	4.8	22	1.8	33	--	--	--	--	--	--	--	--		
	5/20/1992	NSVD	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	
	8/31/1992	NSVD	NG	NG	NG	92	210	1	ND	ND	ND	--	--	--	--	--	--	--	--		
	11/30/1992	NSVD	NG	NG	NG	94	790	ND	ND	ND	ND	--	--	--	--	--	--	--	--		
	2/4/1993	NSVD	NG	NG	NG	550	3,300	320	ND	96	6.1	--	--	--	--	--	--	--	--		
	5/4/1993	7.84	4.32	NP	3.52	250	1,800	95	ND	ND	ND	--	--	--	--	--	--	--	--		
	8/4/1993	7.84	4.94	NP	2.90	100	210	ND	ND	ND	ND	--	--	--	--	--	--	--	--		
	11/3/1993	7.42	4.53	NP	2.89	160	640	ND	ND	ND	ND	--	--	--	--	--	--	--	--		
	2/7/1994	7.42	2.40	NP	5.02	620	2,700	110	ND	17	ND	--	--	--	--	--	--	--	--		
	5/19/1994	7.42	3.60	NP	3.82	480	1,800	83	ND	6.2	9.1	--	--	--	--	--	--	--	--		
	6/25/1994	7.42	4.58	NP	2.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	7/27/1994	7.42	4.58	NP	2.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	8/15/1994	7.42	4.65	NP	2.77	110	130	1.1	0.54	ND	0.97	--	--	--	--	--	--	--	--		
	11/14/1994	7.42	3.18	NP	4.24	150	1,600	ND	ND	ND	ND	--	--	--	--	--	--	--	--		
	2/21/1995	7.42	1.81	NP	5.61	850	3,800	350	ND	130	22	--	--	--	--	--	--	--	--		
	5/18/1995	7.42	4.56	NP	2.86	150	1,300	42	ND	ND	ND	--	--	--	--	--	--	--	--		
8/17/1995	7.42	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI		
7/26/1996	7.42	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI		
10/28/1996	7.42	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO		
1/29/1997	7.42	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI		

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA															
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	
MW-3	4/15/1997	7.42	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI
	5/27/1997	7.42	3.45	NP	3.97	--	670	6.5	ND	ND	ND	250	--	--	--	--	--	--	--	--	--
	6/1/1997	7.42	3.50	NP	3.92	610	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/1997	8.04	3.71	NP	4.33	240	240	ND	ND	ND	ND	490	--	--	--	--	--	--	--	--	--
	10/9/1997	8.04	3.70	NP	4.34	500	270	1.1	ND	2.4	1.4	910	--	--	--	--	--	--	--	--	--
	1/14/1998	8.04	2.16	NP	5.88	340	310	ND	ND	0.62	0.65	140	--	--	--	--	--	--	--	--	--
	4/1/1998	8.04	2.20	NP	5.84	320	370	5.7	ND	ND	ND	93	--	--	--	--	--	--	--	--	--
	7/15/1998	8.04	3.38	NP	4.66	510	460	ND	ND	ND	ND	230	--	--	--	--	--	--	--	--	--
	10/16/1998	8.04	2.30	NP	5.74	67	330	4.7	ND	ND	ND	60	--	--	--	--	--	--	--	--	--
	1/25/1999	8.04	2.42	NP	5.62	120	420	1.5	ND	ND	ND	180	--	--	--	--	--	--	--	--	--
	4/15/1999	8.04	2.16	NP	5.88	170	290	0.54	ND	ND	ND	160	--	--	--	--	--	--	--	--	--
	7/14/1999	8.04	2.35	NP	5.69	420	290	3.2	ND	ND	ND	160	--	--	--	--	--	--	--	--	--
	10/21/1999	8.04	2.49	NP	5.55	350	360	0.77	ND	ND	ND	82	--	--	--	--	--	--	--	--	--
	1/20/2000	8.04	2.38	NP	5.66	2,060	ND	0.81	ND	ND	ND	54	--	--	--	--	--	--	--	--	--
	4/13/2000	8.04	2.76	NP	5.28	200	250	0.69	ND	ND	ND	91	150	ND	ND	ND	ND	ND	ND	ND	ND
	7/14/2000	8.04	3.26	NP	4.78	423	345	ND	ND	ND	ND	95	--	--	--	--	--	--	--	--	--
	10/26/2000	8.04	3.12	NP	4.92	330	480	6.0	ND	ND	ND	120	--	--	--	--	--	--	--	--	--
	1/3/2001	8.04	3.65	NP	4.39	287	364	1.59	ND	ND	ND	118	--	--	--	--	--	--	--	--	--
	4/4/2001	8.04	3.98	NP	4.06	360	417	1.24	ND	ND	0.802	237	--	--	--	--	--	--	--	--	--
	7/17/2001	8.04	3.12	NP	4.92	270	480	ND	ND	ND	ND	150	--	--	--	--	--	--	--	--	--
	10/1/2001	8.04	3.25	NP	4.79	270	310	1.0	<0.50	<0.50	<0.50	53	--	--	--	--	--	--	--	--	--
	1/31/2002	8.04	2.27	NP	5.77	250	250	3.5	<1.0	<1.0	<1.0	110	--	--	--	--	--	--	--	--	--
	4/18/2002	8.04	3.55	NP	4.49	320	300	<2.0	<2.0	<2.0	<2.0	--	59	--	--	--	--	--	--	--	--
	7/28/2002	8.04	2.55	NP	5.49	310	500	<0.50	<0.50	<0.50	<1.0	--	130	--	--	--	--	--	--	--	--
	10/9/2002	8.04	2.47	NP	5.57	700	690	<5	<5	<5	<10	--	120	--	--	--	--	--	--	--	--
	1/2/2003	8.04	1.70	NP	6.34	210	310	<0.50	<0.50	<0.50	<1.0	--	110	<2.0	<2.0	<2.0	<100	<500	<2.0	<2.0	<2.0
	4/1/2003	8.04	3.48	NP	4.56	200	250	<1.0	<1.0	<1.0	<2.0	--	210	--	--	--	--	--	--	--	--
	7/1/2003	8.04	2.65	NP	5.39	380	450	<2.5	<2.5	<2.5	<5.0	--	70	--	--	--	--	<2500	--	--	--
	10/2/2003	8.04	3.12	NP	4.92	300	<250	<2.5	<2.5	<2.5	<5.0	--	210	--	--	--	--	<2500	--	--	--
	1/9/2004	8.04	2.39	NP	5.65	200	300	<0.50	0.53	0.53	1.5	--	66	--	--	--	--	<500	--	--	--
	4/26/2004	8.04	3.11	NP	4.93	160	440	2.5	5.50	2.90	9.4	--	81	--	--	--	--	<50	--	--	--
	7/22/2004	8.04	2.51	NP	5.53	330	420	<0.5	<0.5	<0.5	<1	--	72	--	--	--	--	<1000	--	--	--
	10/29/2004	8.04	2.00	NP	6.04	200	460	5.6	15	10	46	--	48	--	--	--	--	<50	--	--	--
1/10/2005	8.04	1.52	NP	6.52	250	280	<0.50	0.62	<0.50	2.4	--	64	--	--	--	--	<50	--	--	--	
6/15/2005	8.04	2.00	NP	6.04	360	460	<0.50	0.70	0.56	1.9	--	110	--	--	--	--	<50	--	--	--	
9/27/2005	8.04	1.90	NP	6.14	<200	210	<0.50	0.60	<0.50	<1.0	--	100	<0.50	<0.50	<0.50	79	<250	--	--	--	
12/13/2005	8.04	2.35	NP	5.69	230	230	<0.50	<0.50	<0.50	<1.0	--	92	--	--	--	--	<250	--	--	--	
3/23/2006	8.04	1.84	NP	6.20	260	290	<0.50	<0.50	<0.50	<1.0	--	88	--	--	--	--	<250	--	--	--	
6/23/2006	8.04	2.26	NP	5.78	330	500	<0.50	<0.50	<0.50	<1.0	--	75	--	--	--	--	<250	--	--	--	
9/26/2006	8.04	2.08	NP	5.96	260	270	<0.50	<0.50	<0.50	<0.50	--	73	--	--	--	--	<250	--	--	--	
12/22/2006	8.04	1.88	NP	6.16	250	260	<0.50	<0.50	<0.50	1.2	--	71	--	--	--	--	<250	--	--	--	
3/30/2007	8.04	2.47	NP	5.57	210	390	<0.50	<0.50	<0.50	<0.50	--	120	--	--	--	--	<250	--	--	--	
6/28/2007	8.04	2.54	NP	5.50	290	370	<0.50	<0.50	<0.50	<0.50	--	55	--	--	--	--	<250	--	--	--	
9/25/2007	8.04	2.56	NP	5.48	210	350	<0.50	<0.50	<0.50	<0.50	--	61	--	--	--	--	<250	--	--	--	
12/28/2007	8.04	2.29	NP	5.75	150	260	<0.50	<0.50	<0.50	<1.0	--	66	--	--	--	--	<250	--	--	--	
3/22/2008	8.04	3.26	NP	4.78	230	390	<0.50	<0.50	<0.50	<1.0	--	39	--	--	--	--	<250	--	--	--	
6/23/2008	8.04	2.60	NP	5.44	130	200	<0.50	<0.50	<0.50	<1.0	--	46	--	--	--	--	<250	--	--	--	
9/19/2008	8.04	3.45	NP	4.59	93	180	<0.50	<0.50	<0.50	<1.0	--	120	--	--	--	--	<250	--	--	--	
12/31/2008	8.04	2.55	NP	5.49	110	190	<0.50	<0.50	<0.50	<1.0	--	38	--	--	--	--	<250	--	--	--	
3/27/2009	8.04	2.37	NP	5.67	130	150	<0.50	<0.50	<0.50	<1.0	--	50	--	--	--	--	<250	--	--	--	
5/28/2009	8.04	3.32	NP	4.72	120	190	<0.50	<0.50	<0.50	<1.0	--	60	--	--	--	--	<250	--	--	--	

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA															
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	
MW-3	9/17/2009	8.04	2.63	NP	5.41	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/17/2009	8.04	2.13	NP	5.91	338	300	<0.50	<0.50	0.78	<1.5	--	43	--	--	--	--	<250	--	--	
	3/29/2010	8.04	2.22	NP	5.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	10.81	2.91	NP	7.90	90	261	<0.50	<0.50	<0.50	<1.5	--	89.0	--	--	--	--	<250	--	--	--
	7/6/2010	10.81	2.66	NP	8.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	10.81	3.12	NP	7.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/2010	10.81	2.37	NP	8.44	137	306	<0.50	<0.50	<0.50	<1.5	--	58.8	--	--	--	--	<250	--	--	--
	3/14/2011	10.81	2.26	NP	8.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/2/2011	10.81	2.43	NP	8.38	155	283	0.58	1.3	<0.50	2.2	--	42.1	--	--	--	--	55.7	<250	--	--
	9/7/2011	10.81	2.36	NP	8.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	10.81	2.55	NP	8.26	81.7	381	<0.50	<0.50	<0.50	<1.5	--	41.8	--	--	--	--	<250	--	--	--
	3/6/2012	10.81	2.63	NP	8.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	10.81	2.99	NP	7.82	87.9	371	<0.50	<0.50	<0.50	<1.5	--	55.7	--	--	--	--	77.2	<250	--	--
	9/6/2012	10.81	2.50	NP	8.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/2012	10.81	2.50	NP	8.31	<50	130	<0.50	<0.50	<0.50	<0.50	--	28	--	--	--	--	77	<5.0	--	--
	3/14/2013	10.81	2.63	NP	8.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2013	10.81	3.31	NP	7.50	<50	190	<0.50	<0.50	<0.50	<0.50	--	44	--	--	--	--	97	<5.0	--	--
9/10/2013	10.81	3.25	NP	7.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/12/2013	10.81	2.60	NP	8.21	<50	400	<0.50	<0.50	<0.50	<0.50	--	22	--	--	--	--	46	<5.0	--	--	
3/4/2014	10.81	2.38	NP	8.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6/12/2014	10.81	3.23	NP	7.58	<50	310	<0.50	<0.50	<0.50	<0.50	--	28	--	--	--	--	74	<5.0	--	--	
MW-4	8/31/1992	NSVD	NG	NG	NG	90	240	ND	ND	ND	0.54	--	--	--	--	--	--	--	--	--	
	11/30/1992	NSVD	NG	NG	NG	61	420	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	2/4/1993	NSVD	NG	NG	NG	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	5/4/1993	9.00	4.09	NP	4.91	ND	110	0.95	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	8/4/1993	9.00	5.01	NP	3.99	81	250	ND	3.5	ND	4.1	--	--	--	--	--	--	--	--	--	
	11/3/1993	8.41	4.23	NP	4.18	68	130	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	2/7/1994	8.41	3.35	NP	5.06	ND	56	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	5/19/1994	8.41	3.92	NP	4.49	90	140	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	6/25/1994	8.41	4.35	NP	4.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/27/1994	8.41	4.28	NP	4.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/15/1994	8.41	4.27	NP	4.14	72	59	ND	0.6	ND	ND	--	--	--	--	--	--	--	--	--	--
	11/14/1994	8.41	4.05	NP	4.36	ND	130	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
2/21/1995	NSVD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	
MW-5	8/31/1992	NSVD	NG	NG	NG	690	78	0.89	ND	ND	13	--	--	--	--	--	--	--	--	--	
	11/30/1992	NSVD	NG	NG	NG	470	930	70	290	0.79	14	--	--	--	--	--	--	--	--	--	
	2/4/1993	NSVD	NG	NG	NG	5,500	5,700	38	ND	620	170	--	--	--	--	--	--	--	--	--	
	5/4/1993	8.95	4.37	NP	4.58	4,600	7,400	41	ND	1,000	35	--	--	--	--	--	--	--	--	--	
	8/4/1993	8.95	5.81	NP	3.14	970	1,500	130	1	460	11	--	--	--	--	--	--	--	--	--	
	11/3/1993	8.95	5.68	NP	3.27	2,100	13,000	350	ND	3,500	530	--	--	--	--	--	--	--	--	--	
	2/7/1994	8.95	5.11	NP	3.84	830	2,000	87	ND	370	110	--	--	--	--	--	--	--	--	--	
	5/19/1994	8.95	5.09	NP	3.86	600	260	44	ND	32	4.1	--	--	--	--	--	--	--	--	--	
	6/25/1994	8.95	4.55	NP	4.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/27/1994	8.95	5.72	NP	3.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/15/1994	8.95	5.68	NP	3.27	860	1,600	110	ND	340	72	--	--	--	--	--	--	--	--	--	--
11/14/1994	8.95	5.63	NP	3.32	290	250	40	ND	ND	5	--	--	--	--	--	--	--	--	--	--	
2/21/1995	NSVD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	
MW-6	8/31/1992	NSVD	NG	NG	NG	750	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	11/30/1992	NSVD	NG	NG	NG	1,400	9,200	550	ND	740	1,600	--	--	--	--	--	--	--	--	--	
	2/4/1993	NSVD	NG	NG	NG	890	3,600	340	ND	290	550	--	--	--	--	--	--	--	--	--	
	5/4/1993	9.12	3.72	NP	5.40	1,800	4,900	360	18	450	430	--	--	--	--	--	--	--	--	--	

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA															
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	
MW-6	8/4/1993	9.12	5.15	NP	3.97	1,100	3,400	390	ND	440	190	--	--	--	--	--	--	--	--	--	
	11/3/1993	8.87	5.25	NP	3.62	390	1,400	320	ND	200	7.7	--	--	--	--	--	--	--	--	--	
	2/7/1994	8.87	4.55	NP	4.32	970	4,900	650	ND	250	35	--	--	--	--	--	--	--	--	--	
	5/19/1994	8.87	4.62	NP	4.25	1,400	3,600	300	1.7	210	41	--	--	--	--	--	--	--	--	--	
	8/15/1994	8.87	5.08	NP	3.79	790	1,300	130	6.7	54	57	--	--	--	--	--	--	--	--	--	
	11/14/1994	8.87	5.30	NP	3.57	800	730	50	ND	ND	39	--	--	--	--	--	--	--	--	--	
	2/21/1995	8.87	5.37	NP	3.50	730	2,000	250	4.6	25	30	--	--	--	--	--	--	--	--	--	
	5/18/1995	8.87	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI
	8/17/1995	8.87	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI
	7/26/1996	8.87	6.40	3.33	4.97	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	10/28/1996	8.87	4.10	0.21	4.93	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	11/13/1996	8.87	4.02	0.25	5.04	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	11/25/1996	8.87	4.01	0.75	5.42	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	12/4/1996	8.87	3.65	0.50	5.60	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	12/19/1996	8.87	4.80	2.20	5.72	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	1/8/1997	8.87	4.84	1.75	5.34	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	1/14/1997	8.87	4.51	1.15	5.22	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	1/27/1997	8.87	4.00	1.75	6.18	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	1/29/1997	8.87	3.24	0.31	5.86	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	2/11/1997	8.87	4.65	1.20	5.12	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	2/24/1997	8.87	4.81	1.10	4.89	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	3/10/1997	8.87	4.60	0.95	4.98	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	3/17/1997	8.87	4.50	0.89	5.04	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	3/31/1997	8.87	4.65	1.00	4.97	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	4/15/1997	8.87	4.90	1.03	4.74	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	4/28/1997	8.87	4.78	0.03	4.11	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	5/15/1997	8.87	4.60	0.25	4.46	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	5/27/1997	8.87	4.50	0.25	4.56	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/9/1997	8.87	4.60	0.20	4.42	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/24/1997	8.87	4.50	0.25	4.56	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	7/9/1997	8.87	4.80	0.60	4.52	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	7/15/1997	8.87	4.63	0.42	4.56	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
7/21/1997	8.87	4.75	0.25	4.31	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
8/6/1997	8.87	4.50	0.10	4.45	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
8/20/1997	8.87	4.55	0.10	4.40	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
9/2/1997	8.87	4.75	0.05	4.16	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
10/9/1997	8.87	4.84	0.04	4.06	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
1/14/1998	8.87	3.90	0.94	5.68	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
2/12/1998	8.87	3.35	0.64	6.00	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
3/3/1998	8.87	4.51	0.02	4.38	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
4/1/1998	8.87	3.67	1.60	6.40	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
5/26/1998	8.87	4.11	0.50	5.14	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
6/15/1998	8.87	5.03	0.30	4.07	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
7/15/1998	8.87	4.56	0.05	4.35	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
8/21/1998	8.87	4.77	0.02	4.12	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
9/30/1998	8.87	5.08	0.03	3.81	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
10/16/1998	8.87	4.31	2.40	6.36	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
11/6/1998	8.87	3.98	0.17	5.02	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
11/25/1998	8.87	3.92	0.10	5.03	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
12/28/1998	8.87	3.90	0.20	5.12	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
1/25/1999	8.87	4.18	0.60	5.14	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA															
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	
MW-6	2/22/1999	8.87	4.07	0.22	4.97	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	3/22/1999	8.87	4.32	0.15	4.66	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	4/15/1999	8.87	4.23	0.95	5.35	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	5/28/1999	8.87	4.38	0.39	4.78	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/29/1999	8.87	4.12	0.02	4.77	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	7/14/1999	8.87	4.20	0.03	4.69	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	8/23/1999	8.87	4.51	0.24	4.54	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	9/30/1999	8.87	4.17	0.17	4.83	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	10/21/1999	8.87	4.27	0.12	4.69	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	11/29/1999	8.87	4.18	NP	4.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/20/1999	8.87	4.26	0.01	4.62	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	1/20/2000	8.87	4.31	NP	4.56	67,600	130,000	2,900	8,600	2,000	16,000	ND	--	--	--	--	--	--	--	--	--
	2/26/2000	8.87	3.98	NP	4.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/31/2000	8.87	4.14	NP	4.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/13/2000	8.87	4.04	NP	4.83	8,700	140,000	5,000	14,000	3,600	27,000	7,700	--	--	--	--	--	--	--	--	--
	5/26/2000	8.87	4.41	NP	4.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/2000	8.87	4.35	NP	4.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/2000	8.87	4.47	NP	4.40	133,000	259,000	7,670	13,700	6,860	40,700	ND	ND	--	--	--	--	--	--	--	--
	8/24/2000	8.87	3.71	NP	5.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/27/2000	8.87	4.33	NP	4.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/26/2000	8.87	4.32	NP	4.55	61,000	110,000	7,000	6,200	3,700	12,000	670	43	--	--	--	--	--	--	--	--
	1/3/2001	8.87	4.52	NP	4.35	929	84,700	3,950	4,130	3,650	11,800	ND	ND	--	--	--	--	--	--	--	--
	4/4/2001	8.87	4.29	NP	4.58	18,000	69,800	2,060	2,840	3,650	10,900	ND	48	ND	ND	ND	ND	ND	ND	ND	ND
	7/17/2001	8.87	4.37	NP	4.50	20,000	100,000	3,200	3,300	3,400	12,000	ND	--	--	--	--	--	--	--	--	--
	10/1/2001	8.87	4.45	NP	4.42	24,000	110,000	3,200	2,400	4,500	13,000	<1000	--	--	--	--	--	--	--	--	--
	1/31/2002	8.87	4.03	NP	4.84	11,000	230,000	2,400	1,800	5,400	16,000	<2500	--	--	--	--	--	--	--	--	--
	4/18/2002	8.87	3.45	NP	5.42	3,500	94,000	6,800	13,000	3,000	19,000	<500	--	--	--	--	--	--	--	--	--
	7/28/2002	8.87	2.24	NP	6.63	27,000	110,000	530	170	3,200	7,300	--	<100	--	--	--	--	--	--	--	--
	10/9/2002	8.87	3.53	NP	5.34	170,000	970,000	10,000	39,000	13,000	94,000	--	<2000	--	--	--	--	--	--	--	--
	1/2/2003	8.87	2.34	NP	6.53	66,000	270,000	6,100	15,000	5,400	37,000	--	<200	--	--	--	--	--	--	--	--
	4/1/2003	8.87	3.17	NP	5.70	35,000	3,000,000	8,000	39,000	37,000	260,000	--	<2000	--	--	--	--	--	--	--	--
	7/1/2003	8.87	3.55	NP	5.32	11,000	38,000	2,100	990	2,700	6,500	--	<100	--	--	--	--	--	--	<25000	--
	10/2/2003	8.87	3.82	NP	5.05	<50	100,000	5,600	6,900	4,700	18,000	--	<800	--	--	--	--	--	--	<200000	--
	1/9/2004	8.87	2.80	NP	6.07	20,000	170,000	2,800	3,300	4,700	16,000	--	<200	--	--	--	--	--	--	<50000	--
	4/26/2004	8.87	3.40	NP	5.47	13,000	97,000	5,900	9,000	5,100	23,000	--	<50	--	--	--	--	--	--	<5000	--
	7/22/2004	8.87	3.54	NP	5.33	33,000	110,000	4,100	5,100	4,000	16,000	--	<200	--	--	--	--	--	--	<300000	--
	10/29/2004	8.87	3.03	NP	5.84	78,000	100,000	5,200	6,100	4,200	15,000	--	<50	--	--	--	--	--	--	<5000	--
	1/10/2005	8.87	2.35	NP	6.52	12,000	71,000	1,600	3,700	2,100	9,900	--	<50	--	--	--	--	--	--	<5000	--
	6/15/2005	8.87	2.47	NP	6.40	16,000	130,000	800	1,800	2,200	9,300	--	<50	--	--	--	--	--	--	<5000	--
	9/27/2005	8.87	2.55	NP	6.32	2,500	13,000	82	120	430	990	--	1	2	<0.50	<0.50	<10	<250	--	--	--
12/13/2005	8.87	3.28	NP	5.59	18,000	68,000	1,500	1,100	2,200	7,700	--	<50	--	--	--	--	--	--	<25000	--	
3/23/2006	8.87	2.87	NP	6.00	73,000	41,000	290	140	1,500	2,700	--	<50	--	--	--	--	--	--	<25000	--	
6/23/2006	8.87	3.15	NP	5.72	35,000	50,000	2,200	1,400	1,900	5,700	--	<12	--	--	--	--	--	--	<6200	--	
9/26/2006	8.87	3.08	NP	5.79	22,000	130,000	2,200	1,000	2,900	8,800	--	<50	--	--	--	--	--	--	<25000	--	
12/22/2006	8.87	2.90	NP	5.97	62,000	90,000	940	610	1,900	4,700	--	<50	--	--	--	--	--	--	<25000	--	
3/30/2007	8.87	3.26	NP	5.61	62,000	210,000	1,100	560	3,400	12,000	--	<10	--	--	--	--	--	--	<5000	--	
6/28/2007	8.87	3.46	NP	5.41	71,000	67,000	2,200	1,300	2,700	10,000	--	<25	--	--	--	--	--	--	<12000	--	
9/25/2007	8.87	3.52	NP	5.35	58,000	56,000	2,900	720	2,400	9,000	--	<25	--	--	--	--	--	--	<12000	--	
12/28/2007	8.87	3.27	NP	5.60	18,000	78,000	28,000	2,700	4,000	8,100	--	16,000	--	--	--	--	--	--	<12000	--	
3/22/2008	8.87	2.48	NP	6.39	68,000	66,000	380	150	1,500	2,400	--	<25	--	--	--	--	--	--	<12000	--	
6/23/2008	8.87	3.54	NP	5.33	68,000	59,000	1,600	130	1,800	4,100	--	25	--	--	--	--	--	--	<12000	--	

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA															
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	
MW-6	9/19/2008	8.87	4.06	NP	4.81	180,000	65,000	2,000	230	2,000	4,500	--	<12	--	--	--	--	<6200	--	--	
	12/31/2008	8.87	3.45	NP	5.42	68,000	91,000	2,000	320	5,300	13,000	--	<50	--	--	--	--	<25000	--	--	
	3/27/2009	8.87	3.09	NP	5.78	170,000	150,000	1,300	240	2,800	7,200	--	<50	--	--	--	--	<25000	--	--	
	5/28/2009	8.87	3.49	NP	5.38	78,000	53,000	1,700	200	2,300	5,400	--	<50	--	--	--	--	<25000	--	--	
	9/17/2009	8.87	3.64	NP	5.23	250,000 T4	77,000	2,100	1,400	2,600	8,500	--	<12	--	--	--	--	<6200	--	--	
	12/17/2009	8.87	3.14	NP	5.73	30,300	59,100	1,730	199	2,260	5,460	--	20	--	--	--	--	<250	--	--	
	3/29/2010	8.87	3.16	NP	5.71	106,000	48,400	1,980	208	3,070	8,070	--	12	--	--	--	--	<250	--	--	
	6/30/2010	11.55	3.50	NP	8.05	170,000	78,700	2,130	281	2,860	8,400	--	6	--	--	--	--	<250	--	--	
	7/6/2010	11.55	3.49	NP	8.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	11.55	3.75	NP	7.80	18,800	64,500	2,300	170	2,770	6,260	--	19	--	--	--	--	<250	--	--	
	12/8/2010	11.55	8.42	NP	3.13	28,700	78,400	1,300	1,680	3,490	20,600	--	11	--	--	--	--	<250	--	--	
	3/14/2011	11.55	3.40	NP	8.15	93,000	44,600	912	338	728	3,670	--	16	--	--	--	134	<250	--	--	
	6/2/2011	11.55	2.76	NP	8.79	33,700 T4	56,200	780	262	651	3,890	--	7	--	--	--	81.0	<250	--	--	
	9/7/2011	11.55	2.83	NP	8.72	6,780 T4	16,600	16	11	90	339	--	<0.50	--	--	--	--	<250	--	--	
	12/5/2011	11.55	3.56	NP	7.99	20,200 T4	64,600	646	95	924	4,050	--	15	--	--	--	--	<250	--	--	
	3/6/2012	11.55	3.43	NP	8.12	14,800 T4	55,000	1,020	131	1,320	4,730	--	19	--	--	--	316	<1250	--	--	
	6/11/2012	11.55	3.33	NP	8.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	47,100 T4	33,400	773	61	840	3,110	--	11	--	--	--	123	<250	--	--	
	9/6/2012	11.55	2.85	NP	8.70	<1000	24,000	450	51	610	1,800	--	6	<4.0	<4.0	<4.0	82	<40	<4.0	<4.0	
	9/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2012	11.55	2.90	NP	8.65	470	20,000	200	16	350	1,100	--	<4.0	--	--	--	22	<40	--	--		
3/14/2013	11.55	3.69	NP	7.86	680	24,000	500	25	540	1,700	--	8	--	--	--	110	<40	--	--		
6/11/2013	11.55	3.86	NP	7.69	2,400	87,000	1,800	250	2,000	9,400	--	13	--	--	--	230	<40	--	--		
9/10/2013	11.55	4.11	NP	7.44	470	28,000	440	19	530	1,500	--	10	--	--	--	170	<40	--	--		
12/12/2013	11.55	3.55	NP	8.00	100	15,000	220	13	270	660	--	9.5	--	--	--	120	<25	--	--		
3/4/2014	11.55	3.07	NP	8.48	580	33,000	490	19	620	1,800	--	13	--	--	--	160	<50	--	--		
6/12/2014	11.55	3.79	NP	7.76	570	35,000	390	17	690	1,600	--	12	--	--	--	180	<50	--	--		
MW-7	5/27/1997	8.83	4.50	NP	4.33	--	68	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	6/1/1997	8.83	4.54	NP	4.29	69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	7/15/1997	8.83	4.70	NP	4.13	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	10/9/1997	8.83	4.30	NP	4.53	190	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	1/14/1998	8.83	2.88	NP	5.95	65	ND	ND	ND	ND	ND	36	--	--	--	--	--	--	--	--	
	4/1/1998	8.83	3.13	NP	5.70	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	7/15/1998	8.83	4.45	NP	4.38	74	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	10/16/1998	8.83	3.45	NP	5.38	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	1/25/1999	8.83	3.22	NP	5.61	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	4/15/1999	8.83	3.11	NP	5.72	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	7/14/1999	8.83	3.34	NP	5.49	69	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	10/21/1999	8.83	3.43	NP	5.40	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	1/20/2000	8.83	3.29	NP	5.54	ND	ND	ND	ND	ND	ND	4.2	--	--	--	--	--	--	--	--	
	4/13/2000	8.83	3.39	NP	5.44	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	7/14/2000	8.83	4.42	NP	4.41	68.0	ND	ND	ND	ND	ND	7.83	--	--	--	--	--	--	--	--	
	7/17/2001	8.83	5.06	NP	3.77	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	10/1/2001	8.83	4.98	NP	3.85	<51	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--	--	
	1/31/2002	8.83	3.88	NP	4.95	90	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	
	4/18/2002	8.83	4.03	NP	4.80	78	<50	<0.50	<0.50	<0.50	<0.50	5.7	--	--	--	--	--	--	--	--	
	7/28/2002	8.83	3.59	NP	5.24	<50	<50	<0.50	<0.50	<0.50	<1.0	--	3.9	--	--	--	--	--	--	--	
10/9/2002	8.83	4.53	NP	4.30	<96	<50	<0.50	<0.50	<0.50	<1.0	--	3.9	--	--	--	--	--	--	--		
1/3/2003	8.83	3.36	NP	5.47	78	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--		
4/1/2003	8.83	3.94	NP	4.89	67	71	<0.50	<0.50	0.71	<1.0	--	3.4	--	--	--	--	--	--	--		
7/1/2003	8.83	4.60	NP	4.23	68	64	<0.50	<0.50	0.77	2.0	--	35	--	--	--	--	<500	--	--		



**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**

Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA															
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	
MW-7	10/2/2003	8.83	5.46	NP	3.37	82	<50	<0.50	<0.50	<0.50	<1.0	--	4.9	--	--	--	--	<500	--	--	
	1/9/2004	8.83	3.55	NP	5.28	75	54	<0.50	<0.50	<0.50	<1.0	--	2.4	--	--	--	--	<500	--	--	
	4/26/2004	8.83	4.49	NP	4.34	<50	<50	<0.50	<0.50	<0.50	1.5	--	2.3	--	--	--	--	<50	--	--	
	7/22/2004	8.83	4.93	NP	3.90	<200	82	0.90	2.0	3.5	9.9	--	1.4	--	--	--	--	<1000	--	--	
	10/29/2004	8.83	3.71	NP	5.12	54	210	0.67	1.6	1.7	5.8	--	<0.50	--	--	--	--	<50	--	--	
	1/10/2005	8.83	2.77	NP	6.06	<50	74	0.51	2.2	1.7	7.0	--	<0.50	--	--	--	--	<50	--	--	
	6/15/2005	8.83	3.40	NP	5.43	<50	<50	<0.50	<0.50	<0.50	<1.0	--	0.88	--	--	--	--	<50	--	--	
	9/27/2005	8.83	3.44	NP	5.39	<200	<50	0.59	1.2	<0.50	<1.0	--	0.96	<0.50	<0.50	<0.50	<10	<250	--	--	
	12/13/2005	8.83	3.98	NP	4.85	<200	<50	<0.50	<0.50	<0.50	<1.0	--	0.65	--	--	--	--	<250	--	--	
	3/23/2006	8.83	3.37	NP	5.46	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	6/23/2006	8.83	5.25	NP	3.58	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	9/26/2006	8.83	4.13	NP	4.70	<50	<50	<0.50	<0.50	<0.50	<0.50	--	0.77	--	--	--	--	<250	--	--	
	12/22/2006	8.83	3.63	NP	5.20	630	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--	
	3/30/2007	8.83	4.31	NP	4.52	94	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--	
	6/28/2007	8.83	4.62	NP	4.21	<50	<50	<0.50	<0.50	<0.50	<0.50	--	0.54	--	--	--	--	<250	--	--	
	9/25/2007	8.83	4.65	NP	4.18	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--	
	12/28/2007	8.83	3.99	NP	4.84	75	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	3/22/2008	8.83	4.08	NP	4.75	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	6/23/2008	8.83	4.10	NP	4.73	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	9/19/2008	8.83	4.86	NP	3.97	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	12/31/2008	8.83	4.17	NP	4.66	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	3/27/2009	8.83	4.00	NP	4.83	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	5/28/2009	8.83	4.71	NP	4.12	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	9/17/2009	8.83	4.87	NP	3.96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/29/2010	8.83	WI	WI	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	11.64	4.45	NP	7.19	66.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
	7/6/2010	11.64	4.63	NP	7.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	11.64	4.85	NP	6.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/2010	11.64	3.99	NP	7.65	57.7	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
	3/14/2011	11.64	3.81	NP	7.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/2/2011	11.64	3.90	NP	7.74	63.0 T4	--	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--	
	9/7/2011	11.64	3.72	NP	7.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/5/2011	11.64	4.60	NP	7.04	<50.0	--	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--		
3/6/2012	11.64	4.54	NP	7.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6/11/2012	11.64	4.93	NP	6.71	<37.9	--	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--		
9/6/2012	11.64	4.03	NP	7.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/13/2012	11.64	3.43	NP	8.21	<50	--	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<5.0	<5.0	--	--	--	
3/14/2013	11.64	4.9	NP	6.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6/11/2013	11.64	6.92	NP	4.72	96	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	7	<5.0	--	--	--	
9/10/2013	11.64	6.54	NP	5.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/12/2013	11.64	4.60	NP	7.04	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<5.0	<5.0	--	--	--	
3/4/2014	11.64	3.42	NP	8.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6/12/2014	11.64	5.76	NP	5.88	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<5.0	<5.0	--	--	--	
MW-8	5/27/1997	8.52	3.42	NP	5.10	--	310	0.88	0.67	15	70	ND	--	--	--	--	--	--	--	--	
	6/1/1997	8.52	3.46	NP	5.06	320	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	7/15/1997	8.52	3.49	NP	5.03	ND	ND	ND	ND	2.7	3.8	ND	--	--	--	--	--	--	--	--	
	10/9/1997	8.52	3.73	NP	4.79	390	590	1.4	ND	32	4.1	ND	--	--	--	--	--	--	--	--	
	1/14/1998	8.52	1.92	NP	6.60	230	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	4/1/1998	8.52	2.38	NP	6.14	510	ND	ND	ND	ND	ND	4.7	--	--	--	--	--	--	--	--	--
	7/15/1998	8.52	3.53	NP	4.99	140	ND	ND	ND	ND	0.56	1.1	ND	--	--	--	--	--	--	--	--
10/16/1998	8.52	3.04	NP	5.48	170	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-8	1/25/1999	8.52	2.92	NP	5.60	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	4/15/1999	8.52	2.40	NP	6.12	91	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	7/14/1999	8.52	3.03	NP	5.49	120	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	10/21/1999	8.52	3.11	NP	5.41	110	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	1/20/2000	8.52	3.06	NP	5.46	583	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	4/13/2000	8.52	2.84	NP	5.68	80	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	7/14/2000	8.52	3.39	NP	5.13	113	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	7/17/2001	8.52	3.46	NP	5.06	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	10/1/2001	8.52	3.51	NP	5.01	<50	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--	--	--
	1/31/2002	8.52	2.75	NP	5.77	260	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--
	4/18/2002	8.52	2.98	NP	5.54	160	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--
	7/28/2002	8.52	2.41	NP	6.11	140	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	10/9/2002	8.52	2.09	NP	6.43	120	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	1/2/2003	8.52	1.98	NP	6.54	210	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	4/1/2003	8.52	2.66	NP	5.86	220	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	7/1/2003	8.52	3.08	NP	5.44	170	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	<500	--	--
	10/2/2003	8.52	3.89	NP	4.63	350	540	3.9	15	29	80	--	<2.0	--	--	--	--	<500	--	--
	1/9/2004	8.52	2.38	NP	6.14	180	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	<500	--	--
	4/26/2004	8.52	2.89	NP	5.63	100	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<50	--	--
	7/22/2004	8.52	3.25	NP	5.27	250	<50	<0.5	<0.5	<0.5	<1	--	<0.5	--	--	--	--	<1000	--	--
	10/29/2004	8.52	3.06	NP	5.46	120	<50	<0.50	<0.50	0.82	2.5	--	<0.50	--	--	--	--	<50	--	--
	1/10/2005	8.52	1.92	NP	6.60	140	58	<0.50	0.61	1.2	4.0	--	<0.50	--	--	--	--	<50	--	--
	6/15/2005	8.52	2.22	NP	6.30	140	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<50	--	--
	9/27/2005	8.52	2.43	NP	6.09	<200	<50	<0.50	<0.50	1.2	<1.0	--	<0.50	<0.50	<0.50	<0.50	<10	<250	--	--
	12/13/2005	8.52	2.89	NP	5.63	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/23/2006	8.52	2.12	NP	6.40	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	6/23/2006	8.52	2.65	NP	5.87	<230	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/26/2006	8.52	2.75	NP	5.77	110	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	12/22/2006	8.52	2.58	NP	5.94	100	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	3/30/2007	8.52	2.74	NP	5.78	120	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	6/28/2007	8.52	2.90	NP	5.62	140	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	9/25/2007	8.52	3.26	NP	5.26	110	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	12/28/2007	8.52	2.64	NP	5.88	110	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/22/2008	8.52	2.31	NP	6.21	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	6/23/2008	8.52	3.13	NP	5.39	<58	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/19/2008	8.52	3.72	NP	4.80	79	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	12/31/2008	8.52	2.98	NP	5.54	110	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/27/2009	8.52	2.49	NP	6.03	89	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	5/28/2009	8.52	3.12	NP	5.40	91	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/17/2009	8.52	3.63	NP	4.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/29/2010	8.52	WI	WI	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6/30/2010	11.32	2.60	NP	8.72	182	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
7/6/2010	11.32	3.03	NP	8.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
9/20/2010	11.32	3.33	NP	7.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/8/2010	11.32	2.82	NP	8.50	116	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
3/14/2011	11.32	3.84	NP	7.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6/2/2011	11.32	2.77	NP	8.55	--	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--	
9/7/2011	11.32	2.84	NP	8.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/5/2011	11.32	2.68	NP	8.64	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
3/6/2012	11.32	3.07	NP	8.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6/11/2012	11.32	3.08	NP	8.24	<37.9	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	8.3	<250	--	--	

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA																
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)		
MW-8	9/6/2012	11.32	2.91	NP	8.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/13/2012	11.32	2.31	NP	9.01	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<5.0	<5.0	--	--	--	
	3/14/2013	11.32	3.19	NP	8.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2013	11.32	3.4	NP	7.92	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<5.0	<5.0	--	--	--	--
	9/10/2013	11.32	3.54	NP	7.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/2013	11.32	2.80	NP	8.52	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<5.0	<5.0	--	--	--	--
	3/4/2014	11.32	2.88	NP	8.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/12/2014	11.32	3.24	NP	8.08	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<5.0	<5.0	--	--	--	--	
MW-9	2/21/1995	8.29	1.98	NP	6.31	71	70	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
	5/18/1995	8.29	3.47	NP	4.82	ND	52	ND	1.1	ND	1.9	--	--	--	--	--	--	--	--	--	--	--
	8/17/1995	8.29	1.49	NP	6.80	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--
	7/26/1996	8.29	0.28	NP	8.01	98	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
	10/28/1996	8.29	1.15	NP	7.14	99	ND	ND	ND	ND	ND	7.6	--	--	--	--	--	--	--	--	--	--
	1/29/1997	8.29	1.05	NP	7.24	54	ND	ND	ND	ND	ND	5.4	--	--	--	--	--	--	--	--	--	--
	4/15/1997	8.29	1.88	NP	6.41	94	ND	ND	ND	ND	ND	5.4	--	--	--	--	--	--	--	--	--	--
	5/27/1997	8.29	1.05	NP	7.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/1997	8.29	1.90	NP	6.39	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
	10/9/1997	8.29	1.76	NP	6.53	160	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
	1/14/1998	8.29	1.26	NP	7.03	110	ND	ND	ND	ND	ND	3.0	--	--	--	--	--	--	--	--	--	--
	4/1/1998	8.29	0.85	NP	7.44	110	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
	7/15/1998	8.29	1.52	NP	6.77	200	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
	10/16/1998	8.29	0.81	NP	7.48	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
	1/25/1999	8.29	0.92	NP	7.37	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
	4/15/1999	8.29	0.90	NP	7.39	ND	75	21	ND	ND	1.1	680	--	--	--	--	--	--	--	--	--	--
	7/14/1999	8.29	1.04	NP	7.25	140	ND	1.9	ND	ND	ND	260	--	--	--	--	--	--	--	--	--	--
	10/21/1999	8.29	1.23	NP	7.06	210	ND	ND	ND	ND	ND	170	--	--	--	--	--	--	--	--	--	--
	1/20/2000	8.29	1.18	NP	7.11	519	ND	1.1	ND	ND	ND	35	--	--	--	--	--	--	--	--	--	--
	4/13/2000	8.29	1.08	NP	7.21	81	160	0.64	ND	ND	ND	53	--	--	--	--	--	--	--	--	--	--
	7/14/2000	8.29	1.43	NP	6.86	107	ND	ND	ND	ND	ND	20.2	--	--	--	--	--	--	--	--	--	--
	10/26/2000	8.29	1.38	NP	6.91	240	240	2.9	ND	ND	ND	56	--	--	--	--	--	--	--	--	--	--
	1/3/2001	8.29	1.66	NP	6.63	164	166	0.763	0.776	ND	1.28	50.2	--	--	--	--	--	--	--	--	--	--
	4/4/2001	8.29	1.27	NP	7.02	240	296	0.738	ND	ND	0.907	135	--	--	--	--	--	--	--	--	--	--
	7/17/2001	8.29	1.38	NP	6.91	ND	ND	ND	ND	ND	ND	13	--	--	--	--	--	--	--	--	--	--
	10/1/2001	8.29	1.93	NP	6.36	<52	51	<0.50	<0.50	<0.50	<0.50	5.0	--	--	--	--	--	--	--	--	--	--
	1/31/2002	8.29	2.08	NP	6.21	200	<50	<0.50	<0.50	<0.50	<0.50	5.8	--	--	--	--	--	--	--	--	--	--
	4/18/2002	8.29	1.76	NP	6.53	<50	<50	<0.50	<0.50	<0.50	<0.50	5.1	--	--	--	--	--	--	--	--	--	--
	7/28/2002	8.29	1.57	NP	6.72	<50	<50	<0.50	<0.50	<0.50	<1.0	--	3.5	--	--	--	--	--	--	--	--	--
	10/9/2002	8.29	1.45	NP	6.84	100	<50	<0.50	<0.50	<0.50	<1.0	--	17	--	--	--	--	--	--	--	--	--
	1/2/2003	8.29	1.18	NP	7.11	<50	<50	<0.50	<0.50	<0.50	<1.0	--	8.6	--	--	--	--	--	--	--	--	--
	4/1/2003	8.29	2.04	NP	6.25	56	<50	<0.50	<0.50	<0.50	<1.0	--	9.4	--	--	--	--	--	--	--	--	--
7/1/2003	8.29	2.80	NP	5.49	<50	<50	<0.50	<0.50	<0.50	<1.0	--	3.2	--	--	--	--	--	--	<500	--	--	
10/2/2003	8.29	2.70	NP	5.59	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	<500	--	--	
1/9/2004	8.29	1.90	NP	6.39	91	74	<0.50	0.98	2.3	6.2	--	<2.0	--	--	--	--	--	--	<500	--	--	
4/26/2004	8.29	1.62	NP	6.67	<50	51	<0.50	<0.50	<0.50	<1.0	--	0.51	--	--	--	--	--	--	<50	--	--	
7/22/2004	8.29	1.88	NP	6.41	<200	<50	<0.5	<0.5	<0.5	<1	--	0.78	--	--	--	--	--	--	<1000	--	--	
10/29/2004	8.29	1.28	NP	7.01	76	<50	<0.50	<0.50	<0.50	1.0	--	<0.50	--	--	--	--	--	--	<50	--	--	
1/10/2005	8.29	0.07	NP	8.22	77	93	0.60	2.3	2.4	9.0	--	<0.50	--	--	--	--	--	--	<50	--	--	
6/15/2005	8.29	1.70	NP	6.59	67	<50	<0.50	<0.50	<0.50	<1.0	--	6.6	--	--	--	--	--	--	<50	--	--	
9/27/2005	8.29	1.98	NP	6.31	<200	<50	<0.50	0.73	<0.50	<1.0	--	2.3	<0.50	<0.50	<0.50	<10	<250	--	--	--	--	
12/13/2005	8.29	2.26	NP	6.03	<200	<50	<0.50	<0.50	<0.50	<1.0	--	2.9	--	--	--	--	--	--	<250	--	--	
3/23/2006	8.29	1.32	NP	6.97	<200	<50	<0.50	<0.50	<0.50	<1.0	--	2.7	--	--	--	--	--	--	<250	--	--	

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA															
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	
MW-9	6/23/2006	8.29	1.98	NP	6.31	<200	<50	<0.50	<0.50	<0.50	<1.0	--	1.9	--	--	--	--	<250	--	--	
	9/26/2006	8.29	2.52	NP	5.77	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--	
	12/22/2006	8.29	1.98	NP	6.31	150	<50	<0.50	0.57	1.8	4.6	--	1.6	--	--	--	--	<250	--	--	
	3/30/2007	8.29	2.01	NP	6.28	72	<50	<0.50	<0.50	<0.50	<0.50	--	3.4	--	--	--	--	<250	--	--	
	6/28/2007	8.29	1.90	NP	6.39	1000	<50	<0.50	<0.50	<0.50	<0.50	--	4.9	--	--	--	--	<250	--	--	
	9/25/2007	8.29	1.57	NP	6.72	100	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--	
	12/28/2007	8.29	1.98	NP	6.31	56	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	3/22/2008	8.29	0.80	NP	7.49	<50	<50	<0.50	<0.50	<0.50	<1.0	--	0.61	--	--	--	--	<250	--	--	
	6/23/2008	8.29	1.80	NP	6.49	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	9/19/2008	8.29	2.43	NP	5.86	56	<50	<0.50	<0.50	<0.50	<1.0	--	3.9	--	--	--	--	<250	--	--	
	12/31/2008	8.29	2.66	NP	5.63	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	3/27/2009	8.29	2.01	NP	6.28	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	5/28/2009	8.29	2.20	NP	6.09	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	9/17/2009	8.29	1.83	NP	6.46	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/17/2009	8.29	1.52	NP	6.77	105	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
	3/29/2010	8.29	2.21	NP	6.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	10.94	2.32	NP	8.62	95.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	0.85	--	--	--	--	<250	--	--	
	7/6/2010	10.94	2.02	NP	8.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	10.94	2.03	NP	8.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/2010	10.94	1.77	NP	9.17	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
	3/14/2011	10.94	2.24	NP	8.70	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--	
	6/2/2011	10.94	2.24	NP	8.70	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--	
	9/7/2011	10.94	2.46	NP	8.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	10.94	2.43	NP	8.51	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	4.0	--	--	--	--	<250	--	--	
	3/6/2012	10.94	3.03	NP	7.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	10.94	1.75	NP	9.19	<37.9	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<5.0	<250	--	--
9/6/2012	10.94	1.24	NP	9.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/13/2012	10.94	1.80	NP	9.14	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<5.0	<5.0	--	--	
3/14/2013	10.94	2.38	NP	8.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6/11/2013	10.94	2.81	NP	8.13	<50	<50	<0.50	<0.50	<0.50	<0.50	--	4.2	--	--	--	--	<5.0	<5.0	--	--	
9/10/2013	10.94	2.63	NP	8.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/12/2013	10.94	1.78	NP	9.16	<50	<50	<0.50	<0.50	<0.50	<0.50	--	0.56	--	--	--	--	<5.0	<5.0	--	--	
3/4/2014	10.94	1.93	NP	9.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6/12/2014	10.94	2.39	NP	8.55	<50	<50	<0.50	<0.50	<0.50	<0.50	--	3.3	--	--	--	--	<5.0	<5.0	--	--	
MW-10	2/21/1995	8.62	4.69	NP	3.93	270	1500	250	26	9.1	160	--	--	--	--	--	--	--	--	--	
	5/18/1995	8.62	4.92	NP	3.70	75	810	520	ND	18	23	--	--	--	--	--	--	--	--	--	
	8/17/1995	8.62	4.05	NP	4.57	ND	67	25	ND	2.4	ND	--	--	--	--	--	--	--	--	--	
	7/26/1996	8.62	4.08	NP	4.54	ND	ND	3.7	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	10/28/1996	8.62	4.09	NP	4.53	ND	ND	1.1	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	1/29/1997	8.62	2.94	NP	5.68	ND	210	41	0.67	7.2	4.8	11	--	--	--	--	--	--	--	--	
	4/15/1997	8.62	4.07	NP	4.55	ND	110	12	ND	0.77	ND	9.7	--	--	--	--	--	--	--	--	
	5/27/1997	8.62	4.40	NP	4.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/1997	8.62	4.19	NP	4.43	ND	ND	2.1	ND	0.67	0.73	ND	--	--	--	--	--	--	--	--	--
	10/9/1997	8.62	4.75	NP	3.87	ND	190	38	0.92	6.6	7.6	ND	--	--	--	--	--	--	--	--	--
	1/14/1998	8.62	2.66	NP	5.96	--	59	9.5	0.85	1.2	1.7	4.5	--	--	--	--	--	--	--	--	--
	4/1/1998	8.62	3.45	NP	5.17	62	230	66	1.7	12	17	6.4	--	--	--	--	--	--	--	--	--
	7/15/1998	8.62	4.21	NP	4.41	78	290	98	45	21	38	21	--	--	--	--	--	--	--	--	--
	10/16/1998	8.62	4.11	NP	4.51	ND	160	44	0.96	2.5	10	17	--	--	--	--	--	--	--	--	--
	1/25/1999	8.62	3.26	NP	5.36	ND	140	27	ND	2.8	6.8	23	--	--	--	--	--	--	--	--	--
4/15/1999	8.62	3.63	NP	4.99	ND	120	18	ND	1.8	5.1	14	--	--	--	--	--	--	--	--	--	
7/14/1999	8.62	3.89	NP	4.73	180	280	55	3.2	11	31	6.1	--	--	--	--	--	--	--	--	--	

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-10	10/21/1999	8.62	4.09	NP	4.53	96	140	22	0.59	1.7	7.7	5.3	--	--	--	--	--	--	--	--
	1/20/2000	8.62	3.92	NP	4.70	252	ND	0.73	0.86	ND	ND	5.2	--	--	--	--	--	--	--	--
	4/13/2000	8.62	3.85	NP	4.77	69	67	54	ND	2.6	ND	3.8	--	--	--	--	--	--	--	--
	7/14/2000	8.62	4.18	NP	4.44	149	ND	0.547	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	10/26/2000	8.62	3.96	NP	4.66	83	ND	3.3	ND	0.83	1.5	ND	--	--	--	--	--	--	--	--
	1/3/2001	8.62	4.14	NP	4.48	126	52.7	5.15	ND	0.823	1.57	ND	--	--	--	--	--	--	--	--
	4/4/2001	8.62	3.88	NP	4.74	75	129	28.1	1.67	4.97	10.1	ND	--	--	--	--	--	--	--	--
	7/17/2001	8.62	4.08	NP	4.54	ND	ND	4.1	ND	1.0	1.8	ND	--	--	--	--	--	--	--	--
	10/1/2001	8.62	4.22	NP	4.40	100	140	30	0.51	4.0	12	<5.0	--	--	--	--	--	--	--	--
	1/31/2002	8.62	3.68	NP	4.94	170	110	16	<0.50	2.3	5.6	<2.5	--	--	--	--	--	--	--	--
	4/18/2002	8.62	4.01	NP	4.61	130	<50	11	<0.50	1.4	4.5	<2.5	--	--	--	--	--	--	--	--
	7/28/2002	8.62	4.11	NP	4.51	58	67	15	<0.50	0.94	7.3	--	<2.0	--	--	--	--	--	--	--
	10/9/2002	8.62	3.97	NP	4.65	<94	<50	0.67	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	1/2/2003	8.62	3.03	NP	5.59	64	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	4/1/2003	8.62	3.83	NP	4.79	76	<50	11	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	7/1/2003	8.62	4.13	NP	4.49	87	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	<500	--	--
	10/2/2003	8.62	4.05	NP	4.57	160	77	9.9	0.78	2.3	4.9	--	<2.0	--	--	--	--	<500	--	--
	1/9/2004	8.62	3.40	NP	5.22	74	53	1.2	<0.50	0.70	1.6	--	<2.0	--	--	--	--	<500	--	--
	4/26/2004	8.62	3.89	NP	4.73	<50	<50	2.8	1.3	1.0	2.9	--	<0.50	--	--	--	--	<50	--	--
	7/22/2004	8.62	3.73	NP	4.89	<200	<50	<0.5	<0.5	<0.5	<1	--	<0.5	--	--	--	--	<1000	--	--
	10/29/2004	8.62	3.41	NP	5.21	<50	100	2.0	1.2	1.1	3.6	--	<0.50	--	--	--	--	<50	--	--
	1/10/2005	8.62	2.68	NP	5.94	94	84	7.8	2.7	2.2	8.9	--	<0.50	--	--	--	--	<50	--	--
	6/15/2005	8.62	4.63	NP	3.99	62	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<50	--	--
	9/27/2005	8.62	3.96	NP	4.66	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<0.50	<0.50	<0.50	<10	<250	--	--
	12/13/2005	8.62	3.75	NP	4.87	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/23/2006	8.62	3.13	NP	5.49	<200	50	13	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	6/23/2006	8.62	3.90	NP	4.72	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/26/2006	8.62	3.66	NP	4.96	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	12/22/2006	8.62	3.56	NP	5.06	81	<50	<0.50	<0.50	<0.50	1.8	--	<0.50	--	--	--	--	<250	--	--
	3/30/2007	8.62	3.93	NP	4.69	82	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	6/28/2007	8.62	4.03	NP	4.59	57	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	9/25/2007	8.62	3.91	NP	4.71	82	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	12/28/2007	8.62	3.64	NP	4.98	62	<50	2.1	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/22/2008	8.62	4.00	NP	4.62	<50	64	13	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	6/23/2008	8.62	3.90	NP	4.72	<50	94	30	0.53	3.4	3.5	--	<0.50	--	--	--	--	<250	--	--
	9/19/2008	8.62	3.85	NP	4.77	<50	130	15	1.7	5.7	11	--	<0.50	--	--	--	--	<250	--	--
	12/31/2008	8.62	3.69	NP	4.93	<50	82	11	<0.50	0.81	1.7	--	<0.50	--	--	--	--	<250	--	--
	3/27/2009	8.62	3.75	NP	4.87	730	210	28	1.4	1.2	3.9	--	<0.50	--	--	--	--	<250	--	--
	5/28/2009	8.62	3.66	NP	4.96	<50	<50	0.91	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/17/2009	8.62	3.85	NP	4.77	65	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
12/17/2009	8.62	3.00	NP	5.62	57.7	<50.0	1.2	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
3/29/2010	8.62	3.81	NP	4.81	82.2	<50.0	0.77	<0.50	<0.50	3.4	--	<0.50	--	--	--	--	<250	--	--	
6/30/2010	10.97	3.90	NP	7.07	53.4	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
7/6/2010	10.97	3.73	NP	7.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
9/20/2010	10.97	3.85	NP	7.12	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
12/8/2010	10.97	3.63	NP	7.34	<50.0	<50.0	1.8	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
3/14/2011	10.97	3.46	NP	7.51	63.3	<50.0	1.1	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--	
6/2/2011	10.97	3.92	NP	7.05	<50.0	58.7	4.8	4.2	0.96	5.1	--	<0.50	--	--	--	<5.0	<250	--	--	
9/7/2011	10.97	4.06	NP	6.91	<50.0	<50.0	4.1	<0.50	0.66	2.4	--	<0.50	--	--	--	--	<250	--	--	
12/5/2011	10.97	3.82	NP	7.15	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
3/6/2012	10.97	3.74	NP	7.23	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	58.7	<250	--	--	

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-10	6/11/2012	10.97	3.99	NP	6.98	<37.9	<50.0	0.79	<0.50	<0.50	<1.5	--	0.72	--	--	--	17.2	<250	--	--
	9/6/2012	10.97	4.00	NP	6.97	110	64	6.9	0.89	1.8	3.9	--	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50
	9/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/2012	10.97	3.40	NP	7.57	<50	120	15	1.1	1.7	5.2	--	<0.50	--	--	--	<5.0	<5.0	--	--
	3/14/2013	10.97	4.00	NP	6.97	<50	86	25	<0.50	0.6	0.8	--	<0.50	--	--	--	<5.0	<5.0	--	--
	6/11/2013	10.97	4.20	NP	6.77	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<5.0	<8.0	--	--
	9/10/2013	10.97	3.92	NP	7.05	<50	<50	<0.50	<0.50	<0.50	1.2	--	<0.50	--	--	--	<5.0	<5.0	--	--
	12/12/2013	10.97	3.85	NP	7.12	<50	<50	2.4	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<5.0	<5.0	--	--
	3/4/2014	10.97	3.38	NP	7.59	<50	<50	1.5	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<5.0	<5.0	--	--
6/12/2014	10.97	3.92	NP	7.05	<50	<50	4.4	<0.50	<0.50	0.91	--	<0.50	--	--	--	<5.0	<8.0	--	--	
MW-11	7/6/2010	10.53	2.44	NP	8.09	226	99.2	<0.50	<0.50	<0.50	<1.5	--	165	<0.50	<0.50	<0.50	174	<250	<1.0	<1.0
	9/20/2010	10.53	2.80	NP	7.73	<50.0	76.4 1n	<0.50	<0.50	<0.50	<1.5	--	82.7	--	--	--	--	<250	--	--
	12/8/2010	10.53	1.90	NP	8.63	52.7	<50.0	<0.50	<0.50	<0.50	<1.5	--	59.1	--	--	--	--	<250	--	--
	3/14/2011	10.53	1.89	NP	8.64	67.8	<50.0	<0.50	<0.50	<0.50	<1.5	--	44.0	--	--	--	<5.0	<250	--	--
	6/2/2011	10.53	1.75	NP	8.78	69.0 T4	<50.0	<0.50	0.61	<0.50	<1.5	--	24.9	--	--	--	7.1	<250	--	--
	9/7/2011	10.53	1.56	NP	8.97	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	3.8	--	--	--	--	<250	--	--
	12/5/2011	10.53	2.05	NP	8.48	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	26.4	--	--	--	--	<250	--	--
	3/6/2012	10.53	2.31	NP	8.22	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	35.3	--	--	--	5.7	<250	--	--
	6/11/2012	10.53	2.24	NP	8.29	<37.9	<50.0	<0.50	<0.50	<0.50	<1.5	--	20.9	--	--	--	10.4	<250	--	--
	9/6/2012	10.53	1.70	NP	8.83	64	<50	<0.50	<0.50	<0.50	<0.50	--	7.7	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50
	12/13/2012	10.53	1.56	NP	8.97	<50	<50	<0.50	<0.50	<0.50	<0.50	--	27	--	--	--	<5.0	<5.0	--	--
	3/14/2013	10.53	2.20	NP	8.33	<50	<50	<0.50	<0.50	<0.50	<0.50	--	20	--	--	--	<5.0	<5.0	--	--
	6/11/2013	10.53	2.92	NP	7.61	<50	<50	<0.50	<0.50	<0.50	<0.50	--	32	--	--	--	<5.0	<5.0	--	--
	9/10/2013	10.53	2.98	NP	7.55	<50	<50	<0.50	<0.50	<0.50	<0.50	--	22	--	--	--	<5.0	<5.0	--	--
12/12/2013	10.53	2.20	NP	8.33	<50	<50	<0.50	<0.50	<0.50	<0.50	--	20	--	--	--	<5.0	<5.0	--	--	
3/4/2014	10.53	1.75	NP	8.78	<50	<50	<0.50	<0.50	<0.50	<0.50	--	12	--	--	--	<5.0	<5.0	--	--	
6/12/2014	10.53	2.51	NP	8.02	<50	<50	<0.50	<0.50	<0.50	<0.50	--	3.7	--	--	--	<5.0	<5.0	--	--	
MW-12	7/6/2010	11.01	4.00	NP	7.01	990	20,300	1,030	955	311	2,450	--	1,650	<0.50	<0.50	1.0	1,430	<250	<1.0	<1.0
	9/20/2010	11.01	4.18	NP	6.83	5,220	73,700	6,020	6,390	2,970	18,300	--	894	--	--	--	--	<250	--	--
	12/8/2010	11.01	3.92	NP	7.09	428	3,350	249	117	90	558	--	1,470	--	--	--	--	<2500	--	--
	3/14/2011	11.01	3.70	NP	7.31	283	2,420	287	81	49	243	--	1,020	--	--	--	70	<250	--	--
	6/2/2011	11.01	4.40	NP	6.61	1,330 T4	12,200	688	71	225	619	--	824	--	--	--	110	<250	--	--
	9/7/2011	11.01	4.37	NP	6.64	1,270 T4	7,900	920	25	187	267	--	896	--	--	--	--	<2500	--	--
	12/5/2011	11.01	4.32	NP	6.69	286 T4	2,240	296	38	38.0	122	--	1,040	--	--	--	--	<250	--	--
	3/6/2012	11.01	4.01	NP	7.00	272 T4	1,260	193	23	29	81	--	835	--	--	--	78	<250	--	--
	6/11/2012	11.01	4.20	NP	6.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	957 T4	1,030	178	17.0	24	69	--	993	--	--	--	448	<250	--	--
	9/6/2012	11.01	4.15	NP	6.86	<200	580	120	10	15	37	--	840	<1.5	<1.5	<1.5	15	<15	<1.5	14
	12/13/2012	11.01	3.35	NP	7.66	<50	480	70	4.60	7.20	19	--	820	--	--	--	19	<15	--	--
	3/14/2013	11.01	4.11	NP	6.90	<50	370	76	3.40	12.00	18	--	810	--	--	--	21	<15	--	--
	6/11/2013	11.01	4.30	NP	6.71	62	290	51	<1.5	4.30	6	--	840	--	--	--	19	<15	--	--
9/10/2013	11.01	3.96	NP	7.05	<50	340	52	1.90	6.40	4.5	--	820	--	--	--	17	<15	--	--	
12/12/2013	11.01	4.00	NP	7.01	<50	180	18	<1.5	1.60	<1.5	--	940	--	--	--	14	<15	--	--	
3/4/2014	11.01	3.46	NP	7.55	<50	<200	19	<2.0	<2.0	<2.0	--	990	--	--	--	<9.0	<20	--	--	
6/12/2014	11.01	3.96	NP	7.05	<50	200	30	3.3	4.2	6.1	--	920	--	--	--	8.6	<9.0	--	--	
MW-12A	7/6/2010	11.29	4.22	NP	7.07	89	664	18	0.78	2.30	50	--	14	<0.50	<0.50	<0.50	12	<250	<1.0	<1.0
	9/20/2010	11.29	4.39	NP	6.90	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	8.50	--	--	--	--	<250	--	--
	12/8/2010	11.29	4.00	NP	7.29	76	<50.0	<0.50	<0.50	<0.50	<1.5	--	9.40	--	--	--	--	<250	--	--
	3/14/2011	11.29	3.81	NP	7.48	62	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--
	6/2/2011	11.29	4.20	NP	7.09	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--
	9/7/2011	11.29	4.42	NP	6.87	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	0.74	--	--	--	--	<250	--	--

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA															
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	
MW-12A	12/5/2011	11.29	4.30	NP	6.99	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
	3/6/2012	11.29	4.32	NP	6.97	52.0 T4	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--	
	6/11/2012	11.29	4.36	NP	6.93	<37.9	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--	
	9/6/2012	11.29	4.45	NP	6.84	300	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	
	12/13/2012	11.29	3.80	NP	7.49	62	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<5.0	<5.0	--	--	
	3/14/2013	11.29	4.36	NP	6.93	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<5.0	<5.0	--	--	
	6/11/2013	11.29	4.53	NP	6.76	<50	<50	<0.50	<0.50	<0.50	<0.50	--	0.78	--	--	--	<5.0	<5.0	--	--	
	9/10/2013	11.29	4.40	NP	6.89	<50	<50	<0.50	<0.50	<0.50	<0.50	--	6.3	--	--	--	<5.0	<5.0	--	--	
	12/12/2013	11.29	4.35	NP	6.94	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<5.0	<5.0	--	--	
	3/4/2014	11.29	3.73	NP	7.56	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<5.0	<5.0	--	--	
6/12/2014	11.29	4.37	NP	6.92	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<5.0	<5.0	--	--		
MW-13	7/6/2010	11.08	4.26	NP	6.82	469	122	<0.50	<0.50	<0.50	<1.5	--	217	<0.50	<0.50	<0.50	199	<250	<1.0	<1.0	
	9/20/2010	11.08	4.81	NP	6.27	<50.0	250 1n	<0.50	<0.50	<0.50	<1.5	--	272	--	--	--	--	<250	--	--	
	12/8/2010	11.08	5.02	NP	6.06	97.0	177 1n	<0.50	<0.50	<0.50	<1.5	--	390	--	--	--	--	<250	--	--	
	3/14/2011	11.08	4.32	NP	6.76	162	127	<0.50	<0.50	<0.50	<1.5	--	241	--	--	--	125	<250	--	--	
	6/2/2011	11.08	3.98	NP	7.10	89.9 T4	260 1n	<0.50	<0.50	<0.50	<1.5	--	228	--	--	--	45	<250	--	--	
	9/7/2011	11.08	5.74	NP	5.34	<50.0	167	<0.50	<0.50	<0.50	<1.5	--	207	--	--	--	--	<250	--	--	
	12/5/2011	11.08	5.00	NP	6.08	<50.0	166 1n	<0.50	<0.50	<0.50	<1.5	--	215	--	--	--	--	<250	--	--	
	3/6/2012	11.08	5.37	NP	5.71	<50.0	63.9 1n	<0.50	<0.50	<0.50	<1.5	--	110	--	--	--	39	<250	--	--	
	6/11/2012	11.08	5.73	NP	5.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	<37.9	118 1n	<0.50	<0.50	<0.50	<1.5	--	220	--	--	--	--	82	<250	--	--
	9/6/2012	11.08	4.14	NP	6.94	87	<50	<0.50	<0.50	<0.50	<0.50	--	140	<0.50	<0.50	<0.50	10	<5.0	<0.50	<0.50	
	12/13/2012	11.08	3.80	NP	7.28	<50	<50	<0.50	<0.50	<0.50	<0.50	--	130	--	--	--	14	<5.0	--	--	
	3/14/2013	11.08	4.20	NP	6.88	<50	<50	<0.50	<0.50	<0.50	<0.50	--	110	--	--	--	24	<5.0	--	--	
	6/11/2013	11.08	4.10	NP	6.98	<50	<50	<0.50	<0.50	<0.50	<0.50	--	97	--	--	--	31	<5.0	--	--	
	9/10/2013	11.08	4.20	NP	6.88	<50	<50	<0.50	<0.50	<0.50	0.62	--	64	--	--	--	47	<5.0	--	--	
12/12/2013	11.08	4.05	NP	7.03	<50	<50	<0.50	<0.50	<0.50	<0.50	--	63	--	--	--	43	<5.0	--	--		
3/4/2014	11.08	3.51	NP	7.57	<50	<50	<0.50	<0.50	<0.50	<0.50	--	54	--	--	--	30	<5.0	--	--		
6/12/2014	11.08	4.08	NP	7.00	<50	<50	<0.50	<0.50	<0.50	<0.50	--	36	--	--	--	43	<5.0	--	--		
MW-14	6/2/2011	12.00	3.58	NP	8.42	4,180 T4	51,600	2,750	67.9	1,790	13,400	--	1.9	--	--	--	27.2	<250	--	--	
	9/7/2011	12.00	3.02	NP	8.98	2,970 T4	42,600	1,050	28.1	2,990	7,300	--	<25.0	--	--	--	--	<12500	--	--	
	12/5/2011	12.00	4.05	NP	7.95	3,980 T4	14,000	709	9.1	1,420	2,530	--	0.97	--	--	--	--	<250	--	--	
	3/6/2012	12.00	3.94	NP	8.06	3,640 T4	16,600	959	15.0	2,330	3,830	--	<2.5	--	--	--	28.1	<1250	--	--	
	6/11/2012	12.00	3.91	NP	8.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	4,580	15,700	1,200	14.0	1,580	3,010	--	1.4	--	--	--	23.3	<250	--	--	
	9/6/2012	12.00	3.35	NP	8.65	<2000	12,000	210	9.1	1,100	1,800	--	<4.0	<4.0	<4.0	<4.0	<20	<40	<4.0	<4.0	
	9/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/2012	12.00	3.26	NP	8.74	<50	10,000	72	5.8	610	780	--	<1.5	--	--	--	<7.0	<15	--	--	
	3/14/2013	12.00	4.16	NP	7.84	<50	5,700	290	11	750	960	--	<1.5	--	--	--	12	<15	--	--	
	6/11/2013	12.00	7.37	NP	7.37	<50	6,900	630	5.3	480	680	--	<1.5	--	--	--	24	<15	--	--	
	9/10/2013	12.00	4.88	NP	7.12	120	31,000	1,500	39	2,300	5,200	--	<1.5	--	--	--	32	<15	--	--	
12/12/2013	12.00	4.35	NP	7.65	<50	27,000	1,400	32	2,200	4,800	--	<9.0	--	--	--	<50	<90	--	--		
3/4/2014	12.00	3.60	NP	8.40	250	40,000	1,600	41	2,900	6,700	--	<9.0	--	--	--	<50	<90	--	--		
6/12/2014	12.00	4.51	NP	7.49	64	36,000	1,600	43	3,000	6,500	--	<9.0	--	--	--	<50	<90	--	--		
MW-15	6/2/2011	11.11	2.50	NP	8.61	124 T4	357	<0.50	<0.50	<0.50	<1.5	--	15	--	--	--	6.4	<250	--	--	
	9/7/2011	11.11	2.54	NP	8.57	<50.0	412	6.2	<0.50	43	<1.5	--	128	--	--	--	--	<250	--	--	
	12/5/2011	11.11	2.70	NP	8.41	50.5 T4	201	6.6	<0.50	0.93	<1.5	--	142	--	--	--	--	<250	--	--	
	3/6/2012	11.11	2.69	NP	8.42	56.2 T4	<50.0	<0.50	<0.50	<0.50	<1.5	--	106	--	--	--	101	<250	--	--	
	6/11/2012	11.11	2.84	NP	8.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	<37.9	74.3 1n	<0.50	<0.50	<0.50	<1.5	--	114	--	--	--	91	<250	--	--	
9/6/2012	11.11	2.24	NP	8.87	64	59	<0.50	<0.50	<0.50	<0.50	--	76	<0.50	<0.50	<0.50	45	<5.0	<0.50	<0.50		

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**

Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-15	12/13/2012	11.11	2.51	NP	8.60	<50	<50	<0.50	<0.50	<0.50	<0.50	--	33	--	--	--	7.4	<5.0	--	--
	3/14/2013	11.11	2.91	NP	8.20	<50	<50	<0.50	<0.50	<0.50	<0.50	--	46	--	--	--	21	<5.0	--	--
	6/11/2013	11.11	3.36	NP	7.75	<50	<50	<0.50	<0.50	<0.50	<0.50	--	73	--	--	--	31	<5.0	--	--
	9/10/2013	11.11	3.28	NP	7.83	<50	68	<0.50	<0.50	<0.50	<0.50	--	120	--	--	--	39	<5.0	--	--
	12/12/2013	11.11	3.00	NP	8.11	<50	<50	<0.50	<0.50	<0.50	<0.50	--	130	--	--	--	59	<10	--	--
	3/4/2014	11.11	2.34	NP	8.77	<50	<50	<0.50	<0.50	<0.50	<0.50	--	96	--	--	--	45	<5.0	--	--
6/12/2014	11.11	3.15	NP	7.96	<50	<50	<0.50	<0.50	<0.50	<0.50	--	100	--	--	--	31	<5.0	--	--	
MW-16	6/2/2011	10.98	3.00	NP	7.98	509 T4	1,420 1n	79	<0.50	4.2	<1.5	--	1,200	--	--	--	257	<250	--	--
	9/7/2011	10.98	2.65	NP	8.33	90.0 T4	934	<0.50	<0.50	<0.50	<1.5	--	1,240	--	--	--	--	<250	--	--
	12/5/2011	10.98	3.18	NP	7.80	196 T4	948 1n	<0.50	<0.50	<0.50	<1.5	--	1,320	--	--	--	--	<250	--	--
	3/6/2012	10.98	2.91	NP	8.07	204 T4	392 1n	<0.50	<0.50	<0.50	<1.5	--	1,090	--	--	--	134	<250	--	--
	6/11/2012	10.98	3.04	NP	7.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	48.1 T4	430 1n	<0.50	<0.50	<0.50	<1.5	--	1,100	--	--	--	374	<250	--	--
	9/6/2012	10.98	2.61	NP	8.37	390	<150	<1.5	<1.5	<1.5	<1.5	--	960	<1.5	<1.5	<1.5	70	<15	<1.5	<1.5
	12/13/2012	10.98	2.50	NP	8.48	52	<150	<1.5	<1.5	<1.5	<1.5	--	980	--	--	--	55	<20	--	--
	3/14/2013	10.98	3.15	NP	7.83	<50	<200	<2.0	<2.0	<2.0	<2.0	--	950	--	--	--	67	<20	--	--
	6/11/2013	10.98	3.19	NP	7.79	<50	<150	<1.5	<1.5	<1.5	<1.5	--	820	--	--	--	70	<15	--	--
	9/10/2013	10.98	3.44	NP	7.54	<50	<50	<0.50	<0.50	<0.50	<0.50	--	240	--	--	--	440	<5.0	--	--
	12/12/2013	10.98	2.90	NP	8.08	<50	<50	<0.50	<0.50	<0.50	<0.50	--	62	--	--	--	530	<5.0	--	--
3/4/2014	10.98	3.25	NP	7.73	<50	60	<0.50	<0.50	<0.50	<0.50	--	440	--	--	--	400	<5.0	--	--	
6/12/2014	10.98	3.67	NP	7.31	<50	<50	<0.50	<0.50	<0.50	<0.50	--	92	--	--	--	440	<5.0	--	--	
MW-17	6/2/2011	11.52	5.78	NP	5.74	687 T4	9,130	2,530	960	35	907	--	0.74	--	--	--	366	<250	--	--
	9/7/2011	11.52	4.56	NP	6.96	1,900 T4	47,200	9,620	5,510	1,210	4,510	--	<25.0	--	--	--	--	<12500	--	--
	12/5/2011	11.52	4.70	NP	6.82	1,790 T4	17,300	4,720	511	238	747	--	<2.5	--	--	--	--	<1250	--	--
	3/6/2012	11.52	4.64	NP	6.88	1,530 T4	1,580	2,090	24	39	166	--	1.1	--	--	--	481	<250	--	--
	6/11/2012	11.52	4.67	NP	6.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	1,090 T4	4,950	2,340	123	153	610	--	<2.5	--	--	--	411	<1250	--	--
	9/6/2012	11.52	4.39	NP	7.13	<1000	18,000	4,300	170	370	1,100	--	<10	<10	<10	<10	300	<100	<10	110
	9/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/2012	11.52	4.20	NP	7.32	<100	55,000	7,300	2,700	1,700	4,600	--	<10	--	--	--	300	<100	--	--
	3/14/2013	11.52	4.70	NP	6.82	<200	63,000	13,000	5,400	3,100	8,800	--	<15	--	--	--	260	<150	--	--
	6/11/2013	11.52	4.83	NP	6.69	710	110,000	10,000	11,000	3,100	12,000	--	<25	--	--	--	<150	<250	--	--
	9/10/2013	11.52	4.60	NP	6.92	160	36,000	8,200	510	1,200	2,400	--	<15	--	--	--	320	<150	--	--
	12/12/2013	11.52	5.00	NP	6.52	<50	92,000	17,000	9,000	2,900	9,100	--	<15	--	--	--	250	<150	--	--
3/4/2014	11.52	3.99	NP	7.53	400	13,000	1,600	270	260	540	--	<3.0	--	--	--	330	48	--	--	
6/12/2014	11.52	4.49	NP	7.03	87	17,000	3,600	410	650	1,100	--	<3.0	--	--	--	300	<30	--	--	

Gauging Notes:
TOS - Top of Screen
ft - Feet
NP - LNAPL not present
LNAPL - Light non-aqueous phase liquid
* - Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.75)
-- - No information available

Analytical Notes:
< - Below laboratory's indicated reporting limit
ug/L - micrograms/liter
DRO- diesel range organics
TPHd- Total petroleum hydrocarbons as diesel
TPHg- Total petroleum hydrocarbons as gasoline
MTBE- Methyl tertiary-butyl ether
TBA- Tertiary-butyl alcohol
Bold - Above the laboratory's indicated reporting limit
1n - The TPHg result for this sample did not match the laboratory standard for gasoline. This is likely due to the presence of MTBE in the sample.
T4- Result reported for the hydrocarbons within the method-specific range that do not match pattern of laboratory standard.

TABLE 3a
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER ANALYTICAL DATA																			
		Acetone (ug/L)	Alkalinity, Bicarbonate (mg/L)	Alkalinity, Hydroxide (CaCO) (mg/L)	Alkalinity, Total A2320B (mg/L)	Alkalinity, Total as CaCO3 A2320B (mg/L)	Antimony (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Beryllium (ug/L)	Biochemical Oxygen Demand (ug/L)	Bromate (mg/L)	Bromide (mg/L)	Cadmium S(ug/L)	Chemical Oxygen Demand (ug/L)	Chloride (ug/L)	Chromium (ug/L)	Chromium, Hexavalent (ug/L)	Cobalt (ug/L)	Coliform, Total (MPN/100ML)	E. Coli (MPN/100ML)
MW-6	3/14/2011	18	--	--	--	--	<60.0	23	216	<5.0	32,200	--	--	<5.0	173,000	204,000	--	--	<50.0	--	--
	6/2/2011	<5.0	828	<1	828	<1	<60.0	22.0	191	<5.0	45,100	<0.005	2	<5.0	121,000	149,000	4	<2	<50.0	42,000	<100
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/6/2012	--	--	--	--	650	--	--	--	--	--	--	--	--	--	--	<5.0	<10	--	--	--
	9/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
3/4/2014	--	--	--	--	--	--	31	--	--	--	--	--	--	<1.0	--	--	<5.0	--	--	--	
MW-9	3/14/2011	<5.0	--	--	--	--	<60.0	<20.0	<100	<5.0	7,160.0	--	--	<5.0	11,500.0	34,700.0	--	--	<50.0	--	--
	6/2/2011	<5.0	226.0	<1	226.0	<1	<60.0	<20.0	<100	<5.0	4,170.0	<0.005	2.0	<5.0	15,100.0	32,400.0	2.4	<0.2	<50.0	2.0	<1
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	9/6/2012	--	--	--	--	561	--	--	--	--	--	--	--	--	--	--	17	<10	--	--	--
	9/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	3/14/2011	<5.0	--	--	--	--	<60.0	<20.0	<100	<5.0	<2000	--	--	<5.0	80,100	8,240,000	--	--	<50.0	--	--
	6/2/2011	<5.0	905	<1	905	<1	<60.0	<20.0	<100	<5.0	7,240	<0.05	33	<5.0	191,000	7,260,000	3	<2	<50.0	210	<1
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/6/2012	--	--	--	--	806	--	--	--	--	--	--	--	--	--	--	<5.0	<10	--	--	--
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
3/4/2014	--	--	--	--	--	--	<15	--	--	--	--	--	1.8	--	--	<5.0	--	--	--	--	
MW-14	9/6/2012	--	--	--	--	1,720	--	--	--	--	--	--	--	--	--	--	24	<10	--	--	--
	9/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17	9/6/2012	--	--	--	--	2,820	--	--	--	--	--	--	--	--	--	--	38	<10	--	--	--
	9/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analytical Notes:
 < - Below laboratory's indicated reporting limit
 mg/L - milligrams per liter
 MPN/100ML - most probable number per 100 ml
 ug/L - micrograms/liter
Bold - Above the laboratory's indicated reporting limit

TABLE 3b
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/504
 449 HEGENERBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUND WATER ANALYTICAL DATA																		
		Copper (ug/L)	Inorganic Carbon (mg/L)	Iron SW6010 D (ug/L)	Iron SW6010 T (ug/L)	Iron, Ferric (ug/L)	Iron, Ferrous (ug/L)	Lead (ug/L)	Manganese (ug/L)	Mercury (ug/L)	Methane (ug/L)	Molybdenum (ug/L)	Nickel (ug/L)	Nitrate as N E300.0 (mg/L)	Nitrate as N E353/E351 (ug/L)	Nitrite as N (ug/L)	Nitrogen, Ammonia (mg/L)	Nitrogen, NO2 plus NO3 (ug/L)	Nitrogen, Total Kjeldahl (mg/L)	Oil and Grease (ug/L)
MW-3	12/17/2009	--	--	--	12,300	--	--	--	--	--	--	--	--	--	<50.0	<50.0	--	<50.0	--	--
	3/29/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	--	--	5,550	10,700	--	--	--	--	--	--	--	--	--	<50.0	95.0	--	76	--	--
	7/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/2/2011	--	--	--	13,600	--	--	--	--	--	--	--	--	--	<50.0	<10.0	--	53	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	10,900	--	--	--	--	--	--	--	--	--	<50.0	<10	--	<50.0	--	--
	9/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	9/17/2009	--	--	--	1,500	--	--	--	--	--	--	--	--	<0.00044	<0.44	--	--	--	--	--
	12/17/2009	--	--	--	2,460	--	--	--	--	--	--	--	--	--	<50.0	<50.0	--	<50.0	--	--
	3/29/2010	--	--	1,790	1,510	--	--	--	--	--	--	--	--	--	<50.0	41	--	55	--	--
	6/30/2010	--	--	946	2,310	--	--	--	--	--	--	--	--	--	<50.0	58	--	69	--	--
	7/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	--	--	2,730	2,600	--	--	--	--	--	--	--	--	--	<50.0	<10.0	--	52	--	--
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/2011	--	--	--	4,900	3,900	1,000	27	1,270	<0.20	474	<20.0	<40.0	--	50	<10.0	--	54	--	--
	6/2/2011	--	870	--	4,320	2,520	1,800	23	1,510	<0.20	445	<20.0	<40.0	--	<50.0	<10.0	3	51	5	1,500
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	1,240	--	--	--	--	--	--	--	--	--	<50.0	<10	--	<50.0	--	--
	9/6/2012	--	--	--	--	1,000	--	--	--	--	2,890	--	--	--	--	--	--	--	--	--
	9/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	<0.10	--	--	--	--	--	--
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
3/4/2014	<5.0	--	--	2,000	--	--	14	--	<0.5	--	--	17	--	--	--	--	--	--	--	
MW-7	6/30/2010	--	--	836	7,550	--	--	--	--	--	--	--	--	<50.0	74	--	74	--	--	
	7/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/14/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/2/2011	--	--	--	7,800	--	--	--	--	--	--	--	--	--	233	<10.0	--	239	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	264	--	--	--	--	--	--	--	--	--	<50.0	67	--	111	--	--
	9/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	6/30/2010	--	--	4,710	8,000	--	--	--	--	--	--	--	--	<50.0	68	--	60	--	--	
	7/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/14/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/2/2011	--	--	--	24,900	--	--	--	--	--	--	--	--	--	61	<10.0	--	61	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	21,000	--	--	--	--	--	--	--	--	--	<50.0	48	--	<50.0	--	--
9/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	12/17/2009	--	--	--	2,270	--	--	--	--	--	--	--	--	<50.0	<50.0	--	<50.0	--	--	
	3/29/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/30/2010	--	--	3,210	8,820	--	--	--	--	--	--	--	--	<50.0	15	--	<50.0	--	--	
	7/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE 3b
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/504
 449 HEGENERBERG ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUND WATER ANALYTICAL DATA																			
		Copper (ug/L)	Inorganic Carbon (mg/L)	Iron SW6010 D (ug/L)	Iron SW6010 T (ug/L)	Iron, Ferric (ug/L)	Iron, Ferrous (ug/L)	Lead (ug/L)	Manganese (ug/L)	Mercury (ug/L)	Methane (ug/L)	Molybdenum (ug/L)	Nickel (ug/L)	Nitrate as N E300.0 (mg/L)	Nitrate as N E353/E351 (ug/L)	Nitrite as N (ug/L)	Nitrogen, Ammonia (mg/L)	Nitrogen, NO2 plus NO3 (ug/L)	Nitrogen, Total Kjeldahl (mg/L)	Oil and Grease (ug/L)	Salinity (mg/L)
MW-9	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/14/2011	--	--	--	1,560	157	1,400	<10.0	148	<0.20	419	<20.0	<40.0	--	<50.0	<10.0	--	<50.0	--	--	
	6/2/2011	--	240	--	1,260	1,060	200	<10.0	92	<0.20	673	<20.0	<40.0	--	<50.0	<10.0	1	<50.0	1	--	405
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	731	--	--	--	--	--	--	--	--	--	<50.0	<10	--	<50.0	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	9/17/2009	--	--	--	9,800	--	--	--	--	--	--	--	--	0	12	--	--	--	--	--	
	12/17/2009	--	--	--	3,410	--	--	--	--	--	--	--	--	--	1,970	60	--	2,030	--	--	
	3/29/2010	--	--	365	2,410	--	--	--	--	--	--	--	--	--	1,960	19	--	1,970	--	--	
	6/30/2010	--	--	216	1,860	--	--	--	--	--	--	--	--	--	2,120	68	--	2,190	--	--	
	7/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2010	--	--	280	3,080	--	--	--	--	--	--	--	--	--	2,690	68	--	2,750	--	--	
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/14/2011	--	--	--	2,620	--	--	--	--	--	--	--	--	--	--	--	--	2,350	--	--	
	6/2/2011	--	--	--	9,870	--	--	--	--	--	--	--	--	--	1,290	49	--	1,340	--	--	
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2012	--	--	--	11,300	--	--	--	--	--	--	--	--	--	1,510	57	--	1,570	--	--	
	9/6/2012	--	--	--	--	11,000	--	--	--	--	467	--	--	--	--	--	--	--	--	--	
9/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--		
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-11	7/6/2010	--	--	<100	3,510	--	--	--	--	--	--	--	--	<50.0	31.0	--	--	67	--	--	
	9/20/2010	--	--	<100	1,690	--	--	--	--	--	--	--	--	--	167	<10.0	--	172	--	--	
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/14/2011	--	--	--	756	--	--	--	--	--	--	--	--	--	--	--	--	<50.0	--	--	
	6/2/2011	--	--	--	1,040	--	--	--	--	--	--	--	--	--	110	<10.0	--	115	--	--	
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2012	--	--	--	1,300	--	--	--	--	--	--	--	--	--	89	<10	--	94	--	--	
	9/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-12	7/6/2010	--	--	<100	30,200	--	--	--	--	--	--	--	--	<50.0	61	--	<50.0	--	--	--	
	9/20/2010	--	--	552	3,890	--	--	--	--	--	--	--	--	--	72	<10.0	--	75	--	--	
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/14/2011	--	--	--	793	593	200	<10.0	12,400	<0.20	114	<20.0	151	--	<50.0	61	--	54	--	--	
	6/2/2011	--	1,100	--	9,340	8,740	600	<10.0	12,800	<0.20	287	<20.0	119	--	<50.0	<10.0	0	58.0	1	--	15,600
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	497	--	--	--	--	--	--	--	--	--	<50.0	<10	--	<50.0	--	--	--
9/6/2012	--	--	--	--	190	--	--	--	--	64	--	--	--	--	--	--	--	--	--	--	
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
3/4/2014	<5.0	--	--	680	--	--	<5.0	--	<0.5	--	--	120	--	--	--	--	--	--	--	--	
MW-12A	7/6/2010	--	--	716	57,300	--	--	--	--	--	--	--	--	3,680	164	--	3,840	--	--	--	
	9/20/2010	--	--	<100	523	--	--	--	--	--	--	--	--	4,680	10	--	4,690	--	--	--	
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/14/2011	--	--	--	523	--	--	--	--	--	--	--	--	--	--	--	--	4,790	--	--	
	6/2/2011	--	--	--	754	--	--	--	--	--	--	--	--	--	4,710	<10.0	--	4,720	--	--	
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2012	--	--	--	859	--	--	--	--	--	--	--	--	--	4,250	<10	--	4,260	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE 3b
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/504
 449 HEGENERBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUND WATER ANALYTICAL DATA																			
		Copper (ug/L)	Inorganic Carbon (mg/L)	Iron SW6010 D (ug/L)	Iron SW6010 T (ug/L)	Iron, Ferric (ug/L)	Iron, Ferrous (ug/L)	Lead (ug/L)	Manganese (ug/L)	Mercury (ug/L)	Methane (ug/L)	Molybdenum (ug/L)	Nickel (ug/L)	Nitrate as N E300.0 (mg/L)	Nitrate as N E353/E351 (ug/L)	Nitrite as N (ug/L)	Nitrogen, Ammonia (mg/L)	Nitrogen, NO2 plus NO3 (ug/L)	Nitrogen, Total Kjeldahl (mg/L)	Oil and Grease (ug/L)	Salinity (mg/L)
MW-13	7/6/2010	--	--	116	92,600	--	--	--	--	--	--	--	--	--	<50.0	65	--	70	--	--	--
	9/20/2010	--	--	279	59,500	--	--	--	--	--	--	--	--	--	<50.0	<10.0	--	<50.0	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/2011	--	--	--	44,600	--	--	--	--	--	--	--	--	--	--	--	--	<50.0	--	--	--
	6/2/2011	--	--	--	36,700	--	--	--	--	--	--	--	--	--	72	15	--	86.0	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	3,760	--	--	--	--	--	--	--	--	--	<50.0	19	--	<50.0	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	6/2/2011	--	--	--	47,500	--	--	--	--	--	--	--	--	<50.0	10	--	50	--	--	--	
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/12/2012	--	--	--	1,150	--	--	--	--	--	--	--	--	--	<50.0	<10	--	<50.0	--	--	--
	9/6/2012	--	--	--	--	8,900	--	--	--	718	--	--	--	--	--	--	--	--	--	--	--
	9/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	<0.10	--	--	--	--	--	--	--
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-15	6/2/2011	--	--	--	11,700	--	--	--	--	--	--	--	--	890	38.0	--	928	--	--	--	
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/12/2012	--	--	--	2,920	--	--	--	--	--	--	--	--	--	<50.0	<10	--	<50.0	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-16	6/2/2011	--	--	--	34,200	--	--	--	--	--	--	--	--	<50.0	<10.0	--	<50.0	--	--	--	
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/12/2012	--	--	--	1,730	--	--	--	--	--	--	--	--	--	<50.0	<10	--	<50.0	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-17	6/2/2011	--	--	--	109,000	--	--	--	--	--	--	--	--	<50.0	30	--	<50.0	--	--	--	
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/12/2012	--	--	--	44,300	--	--	--	--	--	--	--	--	--	<50.0	39	--	<50.0	--	--	--
	9/6/2012	--	--	--	--	21,000	--	--	--	182	--	--	--	--	--	--	--	--	--	--	--
	9/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	<0.50	--	--	--	--	--	--	--
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Analytical Notes:
 < - Below laboratory's indicated reporting limit
 mg/L - milligrams per liter
 ug/L - micrograms/liter
 Bold - Above the laboratory's indicated reporting limit

TABLE 3c
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/5041
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER ANALYTICAL DATA							
		Selenium (ug/L)	Silver (ug/L)	Sulfate E300 (ug/L)	Sulfate E300.1 (mg/L)	Thallium (ug/L)	Total Organic Carbon (mg/L)	Vanadium (ug/L)	Zinc (ug/L)
MW-3	12/17/2009	--	--	--	<0.5	--	--	--	--
	3/29/2010	--	--	--	--	--	--	--	--
	6/30/2010	--	--	<5000	--	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--
	3/14/2011	--	--	--	--	--	--	--	--
	6/2/2011	--	--	<5000	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	<2000	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--
MW-6	9/17/2009	--	--	<1.0	<0.0010	--	--	--	--
	12/17/2009	--	--	--	<0.5	--	--	--	--
	3/29/2010	--	--	<1000	--	--	--	--	--
	6/30/2010	--	--	<5000	--	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--
	9/20/2010	--	--	<1000	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--
	3/14/2011	<10.0	<10.0	35,400	--	<20.0	--	<50.0	<40.0
	6/2/2011	<10.0	<10.0	38,900	--	<20.0	41	<50.0	<40.0
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--
	6/12/2012	--	--	1,110	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
9/11/2012	--	--	--	--	--	--	--	--	
12/13/2012	--	--	--	--	--	--	--	--	
3/4/2014	--	<5.0	--	--	--	--	--	36	
MW-7	6/30/2010	--	--	191,000	--	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--
	3/14/2011	--	--	--	--	--	--	--	--
	6/2/2011	--	--	48,900	--	--	--	--	--

TABLE 3c
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/5041
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER ANALYTICAL DATA							
		Selenium (ug/L)	Silver (ug/L)	Sulfate E300 (ug/L)	Sulfate E300.1 (mg/L)	Thallium (ug/L)	Total Organic Carbon (mg/L)	Vanadium (ug/L)	Zinc (ug/L)
MW-7	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	56,900	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--
MW-8	6/30/2010	--	--	2,360,000	--	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--
	3/14/2011	--	--	--	--	--	--	--	--
	6/2/2011	--	--	2,830,000	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	2,570,000	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
12/13/2012	--	--	--	--	--	--	--	--	
MW-9	12/17/2009	--	--	--	11	--	--	--	--
	3/29/2010	--	--	--	--	--	--	--	--
	6/30/2010	--	--	19,000	--	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--
	3/14/2011	<10.0	<10.0	8,980	--	<20.0	--	<50.0	<40.0
	6/2/2011	<10.0	<10.0	18,600	--	<20.0	5	<50.0	<40.0
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	42,500	--	--	--	--	--
9/6/2012	--	--	--	--	--	--	--	--	
12/13/2012	--	--	--	--	--	--	--	--	
MW-10	9/17/2009	--	--	84	0	--	--	--	--
	12/17/2009	--	--	--	86	--	--	--	--
	3/29/2010	--	--	73,600	--	--	--	--	--
	6/30/2010	--	--	70,800	--	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--

TABLE 3c
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/5041
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER ANALYTICAL DATA							
		Selenium (ug/L)	Silver (ug/L)	Sulfate E300 (ug/L)	Sulfate E300.1 (mg/L)	Thallium (ug/L)	Total Organic Carbon (mg/L)	Vanadium (ug/L)	Zinc (ug/L)
MW-10	9/20/2010	--	--	82,000	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--
	3/14/2011	--	--	68,600	--	--	--	--	--
	6/2/2011	--	--	71,700	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	70,100	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--
MW-11	7/6/2010	--	--	82,100	--	--	--	--	--
	9/20/2010	--	--	58,300	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--
	3/14/2011	--	--	59,900	--	--	--	--	--
	6/2/2011	--	--	62,900	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	79,400	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--
MW-12	7/6/2010	--	--	3,030,000	--	--	--	--	--
	9/20/2010	--	--	1,970,000	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--
	3/14/2011	<10.0	<10.0	2,500,000	--	<20.0	--	<50.0	<40.0
	6/2/2011	<10.0	<10.0	2,330,000	--	<20.0	9	<50.0	<40.0
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--
	6/12/2012	--	--	2,130,000	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--
3/4/2014	--	<5.0	--	--	--	--	--	46	
MW-12A	7/6/2010	--	--	100,000	--	--	--	--	--
	9/20/2010	--	--	82,500	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--

TABLE 3c
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/5041
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER ANALYTICAL DATA							
		Selenium (ug/L)	Silver (ug/L)	Sulfate E300 (ug/L)	Sulfate E300.1 (mg/L)	Thallium (ug/L)	Total Organic Carbon (mg/L)	Vanadium (ug/L)	Zinc (ug/L)
MW-12A	3/14/2011	--	--	81,000	--	--	--	--	--
	6/2/2011	--	--	101,000	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	118,000	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--
MW-13	7/6/2010	--	--	450,000	--	--	--	--	--
	9/20/2010	--	--	241,000	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--
	3/14/2011	--	--	375,000	--	--	--	--	--
	6/2/2011	--	--	188,000	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--
	6/12/2012	--	--	131,000	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--
MW-14	6/2/2011	--	--	56,300	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--
	6/12/2012	--	--	439,000	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--
MW-15	6/2/2011	--	--	62,700	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--
	6/12/2012	--	--	42,100	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
12/13/2012	--	--	--	--	--	--	--	--	

TABLE 3c
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/5041
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER ANALYTICAL DATA							
		Selenium (ug/L)	Silver (ug/L)	Sulfate E300 (ug/L)	Sulfate E300.1 (mg/L)	Thallium (ug/L)	Total Organic Carbon (mg/L)	Vanadium (ug/L)	Zinc (ug/L)
MW-16	6/2/2011	--	--	8,740	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--
	6/12/2012	--	--	19,900	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--
MW-17	6/2/2011	--	--	3,920,000	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--
	6/12/2012	--	--	2,520,000	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--

Analytical Notes:

< - Below laboratory's indicated reporting limit

mg/L - milligrams per liter

ug/L - micrograms/liter

Bold - Above the laboratory's indicated reporting limit

TABLE 3d
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER ANALYTICAL DATA												
		1,2,4-Trimethylbenzene (ug/L)	1,3,5-Trimethylbenzene (ug/L)	Isopropyl Benzene (ug/L)	Naphthalene (ug/L)	O-Xylene (ug/L)	P,M-Xylene (ug/L)	n-Butylbenzene (ug/L)	n-Propylbenzene (ug/L)	p-Isopropyltoluene (ug/L)	sec-Butylbenzene (ug/L)	HEM:Oil and Grease (mg/L)	Phenolics, Total (mg/L)	Cyanide, Total (mg/L)
MW-6	3/4/2014	3,000	860	200	990	300	1,400	100	530	22	53	1.6	<0.1	<0.02
MW-12	3/4/2014	3.7	11	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	1.9	0.1	<0.02

Analytical Notes:

< - Below laboratory's indicated reporting limit
 mg/L - milligrams per liter
 MPN/100ML - most probable number per 100 ml
 ug/L - micrograms/liter
Bold - Above the laboratory's indicated reporting limit

TABLE 4
Historical Groundwater Gradient and Flow Direction Data
76 Station No. 5191/5043
449 Hegenberger Road
Oakland, California

Site	Monitoring Date	Groundwater Gradient (feet per foot)	Groundwater Flow Direction																
			N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
	03/06/12	0.010	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	06/11/12	0.050	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	09/06/12	Variable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12/13/12	0.020	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	03/14/13	0.050	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	06/11/13	0.001	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	09/10/13	0.014	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	12/12/13	0.018	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	03/04/14	0.010	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	06/12/14	0.020	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		0.024 Average	0	0	0	0	0	0	1	34	1	15	0	20	2	3	0	0	0
Explanation																			
NA = Not available																			
Number of Events = 67																			

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76 Station No. 5191/5043
Oakland, CA
Antea Group Project No. I42705191



Appendix A

Previous Investigation and Site History Summary

PREVIOUS INVESTIGATION AND SITE HISTORY SUMMARY

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

February 1992 - Three monitoring wells, MW-1 through MW-3, were installed at the site to depths ranging from 13.5 to 15 feet bgs.

August 1992 - Three additional monitoring wells, MW-4 through MW-6, were installed at the site to a depth of 13.5 feet bgs.

September 1994 - One 280-gallon waste-oil UST was removed from the site. The UST was made of steel, and no apparent holes or cracks were observed in the UST. One soil sample was collected from beneath the former UST at a depth of approximately 9 feet bgs. No petroleum hydrocarbons were reported.

January 1995 - Two additional monitoring wells, MW-9 and MW-10, were installed to depths of 13 and 15 feet bgs. In addition, monitoring wells MW-4 and MW-5 were destroyed by over-drilling the wells and backfilling with neat cement.

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

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

April 1997 - Two additional monitoring wells, MW-7 and MW-8, were installed off-site to the south and east on the neighboring property to a depth of 13 feet bgs. In addition, monitoring well MW-3, which was damaged during site renovation activities, was fully drilled out and reconstructed in the same borehole.

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

April 8-9, 2005 - TRC conducted a 24-hour dual phase extraction (DPE) test at the site using monitoring well MW-6. The 24-hour DPE test was only moderately successful at removing vapor-phase petroleum hydrocarbons from the subsurface; therefore, TRC recommended DPE no longer be considered a viable remedial alternative for the site.

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

December 2009 - Delta advanced two borings, B-4 and B-5, to depths of 20 feet bgs and 32 feet bgs, respectively. Analytical results from the soil and groundwater samples collected from these two borings indicated that the soil and the groundwater were impacted by petroleum hydrocarbons at these locations.

June 2010 – Delta installed two 4-inch diameter monitoring/extraction wells, MW-11 and MW-12, and two 2-inch diameter monitoring wells, MW-12A and MW-13, at the site. Analytical results from the soil and groundwater samples collected from the MW-12 and MW-12A boring locations indicated that the soil and the groundwater were impacted by petroleum hydrocarbons at these locations.

May 2011 – Antea Group (formally Delta Consultants) installed four 2-inch diameter monitoring wells, MW-14 through MW-17, and advanced one soil boring, B-6, at the site. All four monitoring wells were installed with ten feet of screen from 3 feet bgs to 13 feet bgs. Analytical results of soil samples collected during the monitoring well installation reported TPHg concentrations ranging from 1.0 milligrams per kilogram (mg/kg) (MW-14d13) to 2,490 mg/kg (B-6d9), benzene concentrations ranging from 0.67 mg/kg (B-6d21) to 26.4 mg/kg (B-6d9), toluene concentrations ranging from 0.2 mg/kg (MW-14d10) to 73.9 mg/kg (B-6d9), ethylbenzene concentrations ranging from 0.037 mg/kg (MW-14d13) to 58.1 mg/kg (B-6d9), total xylenes concentrations ranging from 0.066 mg/kg (MW-14d13) to 230 mg/kg (B-6d9), methyl tertiary-butyl ether (MTBE) concentrations ranging from 0.015 mg/kg (MW-15d13) to 0.19 mg/kg (MW-15d8), tertiary-butyl alcohol (TBA) concentrations ranging from 0.014 mg/kg (MW-16d8 and B-6d21) to 0.16 mg/kg (MW-15d8), and lead concentrations ranging from 5.5 mg/kg (MW-16d13) to 16.3 mg/kg (MW-17d9). Diesel range organics (DRO) and DRO with silica gel concentrations were reported; however, all of the results did not match the laboratory standard for diesel. Concentrations of DRO ranged from 2.9 mg/kg (MW-17d13) to 258 mg/kg (B-6d14) and DRO with silica gel concentrations ranged from 2.5 mg/kg (MW-17d13) to 250 mg/kg (B-6d14).

March 2012 – Antea Group advanced five soil borings (HPB-1 through HPB-5) at the site. The borings were advanced using direct push technology. The borings were used to obtain a hydraulic profile of the substrate beneath the site. The data obtained during the investigation will be used to determine the best path forward in terms of remediation.

July 2013 – Antea Group advanced ten soil borings (SB-1 through SB-10) at the site. The borings were advanced using direct push technology. The borings were used to delineate petroleum hydrocarbon impacted soil around

monitoring well MW-6. Results of the investigation can be found in the *Site Investigation Report*, dated January 9, 2014.

SENSITIVE RECEPTORS

April 24, 2006, TRC completed a sensitive receptor survey for the site. According to the Department of Water Resources (DWR) records, three water supply wells are located within one-half mile of the site. The closest well is an irrigation well, reported to be, approximately 1,080 feet southeast of the site. In addition, two surface water bodies were observed within a one-half mile radius of the site. San Leandro Creek is located approximately 1,400 feet southwest of the site and flows into the San Leandro Bay. Elmhurst Creek is located approximately 2,220 feet north of the site and also flows into the San Leandro Bay.

Current Consultant: **Antea Group**

Quarterly Summary Report, Second Quarter 2014
76 Station No. 5191/5043
Oakland, CA
Antea Group Project No. I42705191



Appendix B

Blaine Tech Services Groundwater Sampling Procedures

BLAINE TECH SERVICES, INC. METHODS AND PROCEDURES FOR THE ROUTINE MONITORING OF GROUNDWATER WELLS

SAMPLING PROCEDURES OVERVIEW

SAFETY

All groundwater monitoring assignments performed for DELTA comply with safety guidelines, 29 CFR 1910.120 and SB-198 Injury and Illness Prevention Program (IIPP). All Field Technicians receive the full 40 hour 29CFR 1910.120 OSHA SARA HAZWOPER course, medical clearance and on-the-job training prior to commencing any work on any DELTA COP/ELT site.

INSPECTION AND GAUGING

Wells are inspected prior to evacuation and sampling. The condition of the wellhead is checked and noted according to a wellhead inspection checklist.

Standard measurements include the depth to water (DTW) and the total well depth (TD) obtained with industry standard electronic sounders which are graduated in increments of hundredths of a foot.

The water in each well is inspected for the presence of Immiscibles or sheen and when free product is suspected, it is confirmed using an electronic interface probe (e.g. MMC). No samples are collected from a well containing free product.

EVACUATION

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and are set at no less than four case volumes in some jurisdictions.

Well purging devices are selected on the basis of the well diameter and the total volume to be evacuated. In most cases the well will be purged using an electric submersible pump (i.e. Grundfos) suspended near (but not touching) the bottom of the well. Small volumes of purgewater are often removed by hand bailing with a disposable bailer.

PARAMETER STABILIZATION

Well purging completion standards include minimum purge volumes, but additionally require stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature. Instrument readings are obtained at regular intervals during the evacuation process (no less

than once per case volume).

Stabilization standards for routine quarterly monitoring of fuel sites include the following: Temperature is considered to have stabilized when successive readings do not fluctuate more than +/- 1 degree Celsius. Electrical conductivity is considered stable when successive readings are within 10%. pH is considered to be stable when successive readings remain constant or vary no more than 0.2 of a pH unit.

DEWATERED WELLS

Normal evacuation removes no less than three case volumes of water from the well. However, less water may be removed in cases where the well dewateres and does not recharge.

Wells known to dewater are evacuated as early as possible during each site visit in order to allow for the greatest amount of recovering. Any well that does not recharge to 80% of its original volume will be sampled prior to the departure of our personnel from the site in order to eliminate the need of a return visit.

In jurisdictions where a certain percentage of recovery is included in the local completion standard, our personnel follow the regulatory expectation.

PURGEWATER CONTAINMENT

All non-hazardous purgewater evacuated from each groundwater monitoring well is captured and contained in on-board storage tanks on the Sampling Vehicle and/or special water hauling trailers. Effluent from the decontamination of reusable apparatus (sounders, electric pumps and hoses etc.), consisting of groundwater combined with deionized water and non-phosphate soap, is also captured and pumped into effluent tanks.

Non hazardous purgewater is transported under standard Bill of Lading or Non-Hazardous manifest to a Blaine Tech Services, Inc. facility before being transported to an approved disposal facility.

SAMPLE COLLECTION DEVICES

All samples are collected using disposable bailers.

SAMPLE CONTAINERS

Sample material is decanted directly from the sampling bailer into sample containers provided by the laboratory which will analyze the samples. The type of sample container, material of construction, method of closure and filling requirements are specific to the intended analysis. Chemicals needed to preserve the sample material are commonly placed inside the sample containers by the laboratory or glassware vendor prior to delivery of the bottle to our personnel. The laboratory sets the number of replicate containers.

TRIP BLANKS

Upon request, a Trip Blank is carried to each site and is kept inside the cooler for the duration of the sampling event. It is turned over to the laboratory for analysis with the samples from that site.

DUPLICATES

Upon request, one Duplicate sample is collected at each site. It is up to the Field Technician to choose the well at which the Duplicate is collected. Typically, a duplicate is collected from one of the most contaminated wells. The Duplicate sample is labeled DUP thus rendering the sample blind.

SAMPLE STORAGE

All sample containers are promptly placed in food grade ice chests for storage in the field and transport (direct or via our facility) to the analytical laboratory that will perform the intended analytical procedures. These ice chests contain quantities of restaurant grade ice as a refrigerant material. The samples are maintained in either an ice chest or a refrigerator until relinquished into the custody of the laboratory or laboratory courier.

DOCUMENTATION CONVENTIONS

Each and every sample container has a label affixed to it. In most cases these labels are generated by our office personnel and are partially preprinted. Labels can also be hand written by our field personnel. The site is identified with the store number and site address, as is the particular groundwater well from which the sample is drawn (e.g. MW-1, MW-2, S-1 etc.). The time at which the sample was collected and the initials of the person collecting the sample are handwritten onto the label.

Chain of Custody records are created using client specific preprinted forms following USEPA specifications.

Bill of Lading records are contemporaneous records created in the field at the site where the non-hazardous purgewater is generated. Field Technicians use preprinted Bill of Lading forms.

DECONTAMINATION

All equipment is brought to the site in clean and serviceable condition and is cleaned after use in each well and before subsequent use in any other well. Equipment is decontaminated before leaving the site.

The primary decontamination device is a commercial steam cleaner. The steam cleaner is de-tuned to function as a hot pressure washer which is then operated with high quality deionized water which is produced at our facility and stored onboard our sampling vehicle. Cleaning is facilitated by the use of proprietary fixtures and devices included in the patented workstation that is incorporated in each sampling vehicle. The steam cleaner is used to decon reels, pumps

and bailers.

Any sensitive equipment or parts (i.e. Dissolved Oxygen sensor membrane, sounder etc.) that cannot be washed using the hot high pressure water, will be sprayed with a non-phosphate soap and deionized water solution and rinsed with deionized water.

EXAMPLE: The sounder is cleaned between wells using the non-phosphate soap and deionized water solution followed by deionized water rinses. The sounder is then washed with the steam cleaner between sites or as necessitated by use in a particularly contaminated well.

DISSOLVED OXYGEN READINGS

All Dissolved Oxygen readings are taken using YSI meters (e.g. YSI Model 550 meter). These meters are equipped with membrane probe that enables them to collect accurate in-situ readings.

The probe and reel is decontaminated between wells as described above. The meter is calibrated as per the instructions in the operating manual. The probe is lowered into the water column allowed to stabilize before use.

OXYIDATON REDUCTION POTENTIAL READINGS

All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter GP). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual. In use the probe is placed in a cup of freshly obtained monitoring well water and allowed to stabilize.

Quarterly Summary Report, Second Quarter 2014
76 Station No. 5191/5043
Oakland, CA
Antea Group Project No. I42705191



Appendix C

Blaine Tech Services Groundwater Sampling Field Data Sheets

Well-Head Inspection & Well Gauging Form

Antea Group Project No: 2705191 Site Address: 449 Hegenberger Rd. Oakland, CA
 Field Technician: Mark McCulloch Blaine Tech Services Date: 6-12-14 Weather: clear
(Print Full Name & Company*)

Well Condition														
Sample Order	Field Point	Bolts	Seal	Lid Secure	Lock	Expanding Cap	Water in Well Box	Well Casing Dia.	Time Gauged	Depth to Water (Feet)	Depth to Bottom (Feet)	Depth to LNAPL (Feet)	LNAPL Thickness (Feet)	Comments
5	MW-3	G	G	G	G	G	Yes	2	0811	3.23	13.90			1/2 tabs stripped
12	MW-6	G	G	G	G	G	N	2	0858	3.79	12.61			
2	MW-7	G	G	G	G	G	N	2	0757	5.76	12.99			
1	MW-8	G	G	G	G	G	N	2	0750	3.24	14.70			
4	MW-9	G	G	G	G	G	Yes	2	0805	2.39	12.60			2/3 bolts missing, 1/3 tabs broken
7	MW-10	G	G	G	G	G	N	2	0824	3.92	12.64			
6	MW-11	G	G	G	G	G	N	4	0819	2.51	19.52			2/2 tabs stripped
11	MW-12	G	G	G	G	G	N	4	0849	3.96	19.40			
3	MW-12A	G	G	G	G	G	N	2	0807	4.37	32.67			
8	MW-13	G	G	G	G	G	N	2	0829	4.08	14.54			
13	MW-14	G	G	G	G	G	N	2	0906	4.51	12.75			
9	MW-15	G	G	G	G	G	N	2	0836	3.15	12.69			
10	MW-16	G	G	G	G	G	N	2	0842	3.67	12.62			
14	MW-17	G	G	G	G	G	N	2	0914	4.49	12.60			

Notes: _____

** All well caps opened at least 15 minutes or longer before gauging wells:
CIRCLE ONE YES or NO**



*Form provided by Antea Group

Note: Use G=good and P=poor for well condition

Groundwater Sampling Form

Site Address: <u>449 Hegenberger Rd. Oakland, CA</u>	
Project No: <u>2705194</u>	Field Technician: <u>Mark McColluch</u>
Field Point: <u>MW-3</u>	Date: <u>6-12-14</u>
Depth to Water (DTW) (ft bgs): <u>3.23</u>	Well Diameter (in): <u>② 4 6 8</u>
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): <u>13.90</u>	Water Column Height (ft): <u>10.67</u>

Purging Info and Calculations:

Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailer w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>10.67</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>1.8</u> Casing Volume (gal): <u>1.8</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>5.4</u>		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge: _____		Start Time: <u>1033</u>		Stop Time: <u>1040</u>				
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge								
1035	20.8	6.76	5086	-114	19	1.08	0.9	
1036	20.6	6.69	3379	-117	34	0.53	1.8	
1037	21.5	6.65	3293	-121	35	0.57	2.7	
1038	23.6	6.60	3386	-125	34	0.47	3.6	
1039	23.4	6.62	3372	-131	32	0.43	4.5	
1040	23.1	6.62	3410	-133	31	0.42	5.4	
Post-Purge								

Did Well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Total Purge volume (gal): <u>5.5</u>
Other Comments: <u>80% = 5.36</u> <u>DTW: 8.11 (2 HR)</u>	<u>Purged through flow cell</u>

Sample Info:	
Sample ID: <u>MW-3-20140630</u>	Sample Date and Time: <u>6-12-14 @ 1414</u>
Selected Analysis: <u>see LOC</u>	

This form was provided by Antea Group and completed by: (Print Full Name) Mark McColluch, an employee of Blaine Tech Services, Inc.

Signature: _____ Date: 6-12-14

Antea™ Group, 1-800-477-7411

LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen

gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

Groundwater Sampling Form

Site Address: <u>449 Hegenberger Rd. Oakland, CA</u>	
Project No: <u>2705191</u>	Field Technician: <u>William Wong</u>
Field Point: <u>MW-6</u>	Date: <u>6-12-14</u>
Depth to Water (DTW) (ft bgs): <u>3.79</u>	Well Diameter (in): <u>② 4 6 8</u>
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): <u>12.61</u>	Water Column Height (ft): <u>8.82</u>

Purging Info and Calculations:

Purge Method: <u>Low-Flow</u> <u>Casing volumes</u> Other: _____	Purge Equipment: <u>Disposable Bailer</u> <u>Electric Submersible</u> <u>2" red flow</u> Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: <u>Disposable Bailer</u> Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>8.82</u>	X Conversion Factor (gal/ft): <u>0.17</u>	= Casing Volume (gal): <u>1.5</u>
Casing Volume (gal): <u>1.5</u>	X Specified Volumes: <u>3</u>	= Calculated Purge (gal): <u>4.5</u>
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge: Start Time: 1309 Stop Time: 1312

Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge								
<u>1309</u>	<u>23.3</u>	<u>7.22</u>	<u>2584</u>	<u>-125.3</u>	<u>18</u>	<u>2.66</u>	<u>0.8</u>	
<u>1310</u>	<u>22.8</u>	<u>7.14</u>	<u>2940</u>	<u>-128.6</u>	<u>26</u>	<u>2.71</u>	<u>1.5</u>	
<u>1311</u>	<u>22.3</u>	<u>7.06</u>	<u>3295</u>	<u>-130.7</u>	<u>36</u>	<u>2.76</u>	<u>2.2</u>	
<u>1312</u>	<u>21.7</u>	<u>6.99</u>	<u>3650</u>	<u>-132.1</u>	<u>46</u>	<u>2.81</u>	<u>3</u>	
<u>WELL DEWATERED @ 3 GALS</u>								
<u>1450</u>	<u>22.3</u>	<u>7.90</u>	<u>4268</u>	<u>-96.2</u>	<u>30</u>	<u>2.61</u>	<u>—</u>	
Post-Purge								

Did Well dewater? Yes No Total Purge volume (gal): 3

Other Comments: 80% : 7.32 Purged through flowcell
DTW: 7.14

Sample Info:

Sample ID: <u>MW-6-20140630</u>	Sample Date and Time: <u>6/12/14 / 1450</u>
Selected Analysis: <u>SEE SOW</u>	

This form was provided by Antea Group and completed by: (Print Full Name) William Wong, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6/12/14

Groundwater Sampling Form

Site Address:	449 Hegeberger Oakland, CA		
Project No:	2705191	Field Technician:	Mark McCulloch
Field Point:	MW-7	Date:	6-12-14
Depth to Water (DTW) (ft bgs):	5.76	Well Diameter (in):	② 4 6 8
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	12.99	Water Column Height (ft):	7.23

Purging Info and Calculations:

Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailor Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailor w/ BGD Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>7.23</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>1.2</u> Casing Volume (gal): <u>3.6</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>10.8</u>		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge: Start Time: 0935 Stop Time: 0939

Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge								
0936	20.0	6.85	14086	-132	46	0.53	0.6	
0937	19.1	6.76	14139	-127	44	0.94	1.2	
0938	19.6	6.94	9324	-106	42	0.62	1.8	
0939	21.2	6.87	2959	-35	40	0.86	2.4	
WELL DEWATERED AT 2.5 GAL								
1353	22.0	6.95	6121	-104	52	2.71	GRAB	
Post-Purge								

Did Well dewater? Yes No Total Purge volume (gal): 2.5

Other Comments: 80% = 7.2C Purged through flow cell
 DTW: 9.16 (2 HR)

Sample Info:

Sample ID: MW-7-20140630	Sample Date and Time: 6-12-14 @ 1353
Selected Analysis: see coc	

This form was provided by Antea Group and completed by: (Print Full Name) Mark McCulloch, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6-12-14



LNAPL = light non-aqueous phase liquids gal = gallon/s
 bgs = below ground surface temp = temperature
 ORP = Oxidation-Reduction Potential NTU = Nephelometric Turbidity Units
 D.O. = dissolved oxygen mV = millivolts

Groundwater Sampling Form

Site Address:	449 Hevenberger Oakland, CA		
Project No:	2705194	Field Technician:	Mark McCulloch
Field Point:	MW-8	Date:	6-12-14
Depth to Water (DTW) (ft bgs):	3.24	Well Diameter (in):	② 4 6 8
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	14.70	Water Column Height (ft):	11.46

Purging Info and Calculations:

Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailer w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>11.46</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>1.9</u> Casing Volume (gal): <u>1.9</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>5.7</u>		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge: Start Time: 0921 Stop Time: 0928

Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge								
0923	17.0	7.06	1346	-48	470	3.77	1	
0924	17.9	6.49	13528	-118	42	4.12	2	
0925	19.6	6.52	12916	-126	22	3.36	3	
0926	22.0	6.50	12716	-127	20	2.04	4	
0927	22.3	6.53	13395	-141	18	1.12	5	
0928	22.4	6.55	13420	-143	16	1.08	6	
Post-Purge								

Did Well dewater? Yes No Total Purge volume (gal): 6

Other Comments: 80% = 5.53 Purged through flow cell
 DTW 3.50

Sample Info:	
Sample ID: MW-8-20140630	Sample Date and Time: 6-12-14 @ 1340
Selected Analysis: see coc	

This form was provided by Antea Group and completed by: (Print Full Name) Mark McCulloch, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6-12-14



LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen
 gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

Groundwater Sampling Form

Site Address:	449 Hegenberger Rd. Oakland, CA		
Project No:	27051941	Field Technician:	Mark McColluch
Field Point:	MW-9	Date:	6-12-14
Depth to Water (DTW) (ft bgs):	2.39	Well Diameter (in):	② 4 6 8
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	12.60	Water Column Height (ft):	10.21

Purging Info and Calculations:

Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailor Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailor w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>10.21</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>1.7</u> Casing Volume (gal): <u>1.7</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>5.1</u>		

Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius² * 0.163

Purge:	Start Time:	10/11	Stop Time:	10/17				
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge								
1012	19.1	6.89	3217	1.7	17	0.44	0.85	
1013	18.9	6.70	5716	-110	150	1.63	1.70	
1014	20.6	6.79	2311	-121	37	0.88	2.50	
1015	22.1	6.75	1274	-126	23	0.54	3.40	
1016	23.0	6.70	1517	-128	20	0.56	4.25	
1017	23.1	6.71	1489	-129	18	0.54	5.10	
	WELL DEWATERED AT 5.5 GAL							
1405	21.8	7.13	1877	-107	29	3.49	GRAB	
Post-Purge								

Did Well dewater? Yes No Total Purge volume (gal): 5.5

Other Comments: 80% 4.43 Purged through flow cell
DTW: 8.91 (2 HR)

Sample Info:

Sample ID: MW-9-2040630	Sample Date and Time: 6-12-14 @ 1405
Selected Analysis: See COC	

This form was provided by Antea Group and completed by: (Print Full Name) Mark McColluch, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6-12-14



LNAPL = light non-aqueous phase liquids gal = gallon/s
 bgs = below ground surface temp = temperature
 ORP = Oxidation-Reduction Potential NTU = Nephelometric Turbidity Units
 D.O. = dissolved oxygen mV = millivolts

Groundwater Sampling Form

Site Address: <u>449 Hegenberger Rd. Oakland, CA</u>	
Project No: <u>2705194</u>	Field Technician: <u>Mark McColloch</u>
Field Point: <u>MW-10</u>	Date: <u>6-12-14</u>
Depth to Water (DTW) (ft bgs): <u>3.92</u>	Well Diameter (in): <u>② 4 6 8</u>
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): <u>12.64</u>	Water Column Height (ft): <u>8.72</u>

Purging Info and Calculations:

Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailer w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>8.72</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>1.5</u> Casing Volume (gal): <u>1.5</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>4.5</u>		

Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius² * 0.163

Purge: _____		Start Time: <u>1118</u>		Stop Time: <u>1124</u>				
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge								
<u>1119</u>	<u>20.9</u>	<u>7.21</u>	<u>1210</u>	<u>-83</u>	<u>29</u>	<u>0.18</u>	<u>0.75</u>	
<u>1120</u>	<u>20.4</u>	<u>7.20</u>	<u>1181</u>	<u>-87</u>	<u>23</u>	<u>1.94</u>	<u>1.5</u>	
<u>1121</u>	<u>20.4</u>	<u>6.92</u>	<u>2977</u>	<u>-67</u>	<u>20</u>	<u>0.30</u>	<u>2.25</u>	
<u>1122</u>	<u>20.8</u>	<u>6.89</u>	<u>2815</u>	<u>-70</u>	<u>17</u>	<u>0.30</u>	<u>3.0</u>	
<u>1123</u>	<u>20.8</u>	<u>6.89</u>	<u>2579</u>	<u>-76</u>	<u>17</u>	<u>0.29</u>	<u>3.75</u>	
<u>1124</u>	<u>20.8</u>	<u>6.89</u>	<u>2381</u>	<u>-80</u>	<u>16</u>	<u>0.29</u>	<u>4.5</u>	
Post-Purge								

Did Well dewater? Yes No Total Purge volume (gal): 4.5

Other Comments: 80% = 5.66 Purged through flow cell
DTW: 4.31

Sample Info:	
Sample ID: <u>MW-10-20140630</u>	Sample Date and Time: <u>6-12-14 @ 1126</u>
Selected Analysis: <u>see coc</u>	

This form was provided by Antea Group and completed by: (Print Full Name) Mark McColloch, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6-12-14

Groundwater Sampling Form

Site Address: <u>449 Hegenberger Rd Oakland, CA</u>	
Project No: <u>27051911</u>	Field Technician: <u>Mark McCulloch</u>
Field Point: <u>MW-11</u>	Date: <u>6-12-14</u>
Depth to Water (DTW) (ft bgs): <u>2.51</u>	Well Diameter (in): <u>2 (4) 6 8</u>
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): <u>19.52</u>	Water Column Height (ft): <u>17.01</u>

Purging Info and Calculations:

Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailor Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailor w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>17.01</u> X Conversion Factor (gal/ft): <u>0.66</u> = Casing Volume (gal): <u>11.2</u> Casing Volume (gal): <u>11.2</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>33.6</u>		

Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius² * 0.163

Purge:		Start Time: <u>10:50</u>		Stop Time:					
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)	
Pre-Purge									
<u>1053</u>	<u>20.3</u>	<u>7.27</u>	<u>1209</u>	<u>-114</u>	<u>36</u>	<u>0.25</u>	<u>5.6</u>		
<u>1055</u>	<u>21.0</u>	<u>7.25</u>	<u>1212</u>	<u>-104</u>	<u>23</u>	<u>0.18</u>	<u>11.2</u>		
<u>1057</u>	<u>21.2</u>	<u>7.24</u>	<u>1225</u>	<u>-100</u>	<u>12</u>	<u>0.17</u>	<u>16.8</u>		
<u>1100</u>	<u>21.2</u>	<u>7.25</u>	<u>1219</u>	<u>-97</u>	<u>8</u>	<u>0.16</u>	<u>22.4</u>		
<u>1102</u>	<u>21.3</u>	<u>7.25</u>	<u>1219</u>	<u>-92</u>	<u>6</u>	<u>0.16</u>	<u>28.0</u>		
<u>1105</u>	<u>21.3</u>	<u>7.25</u>	<u>1221</u>	<u>-90</u>	<u>5</u>	<u>0.15</u>	<u>33.6</u>		
Post-Purge									

Did Well dewater? Yes No Total Purge volume (gal): 34

Other Comments: 80% = 5.91 Purged through flow cell
DTW: 4.09

Sample Info:	
Sample ID: <u>MW-11-201406230</u>	Sample Date and Time: <u>6-12-14 @ 1108</u>
Selected Analysis: <u>see coc</u>	

This form was provided by Antea Group and completed by: (Print Full Name) Mark McCulloch, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6-12-14



LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen

gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

Groundwater Sampling Form

Site Address:	449 Hegenberger Rd. Oakland, CA		
Project No:	2705191 ✓	Field Technician:	Mark McColloch
Field Point:	MW-12	Date:	6-12-14
Depth to Water (DTW) (ft bgs):	3.96	Well Diameter (in):	2 <u>4</u> 6 8
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	19.40	Water Column Height (ft):	15.44

Purging Info and Calculations:

Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailer Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>15.44</u> X Conversion Factor (gal/ft): <u>0.66</u> = Casing Volume (gal): <u>10.2</u> Casing Volume (gal): <u>10.2</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>30.6</u>		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge: Start Time: 1254 Stop Time: _____

Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge								
1257	19.5	6.32	24069	-79	11	0.19	5.1	
1300	19.4	6.35	23524	-95	7	0.17	10.2	
1302	19.7	6.53	21410	-128	7	0.14	15.3	
1305	19.9	6.54	22032	-125	7	0.13	20.4	
1307	19.8	6.47	22741	-119	7	0.12	25.5	
1310	19.8	6.46	22878	-114	7	0.12	30.6	
Post-Purge								

Did Well dewater? Yes No Total Purge volume (gal): 31

Other Comments: 80% = 7.04 Purged through flow cell
 DTW: 4.81 color

Sample Info:

Sample ID: MW-12-20140630	Sample Date and Time: 6-12-14 @ 1445
Selected Analysis: <u>SCC COC</u>	

This form was provided by Antea Group and completed by: (Print Full Name) Mark McColloch, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6-12-14

Groundwater Sampling Form

Site Address: <u>449 Hegenberger Oakland CA</u>	
Project No: <u>2705191</u>	Field Technician: <u>Mark McColloch</u>
Field Point: <u>MW-12A</u>	Date: <u>6-12-14</u>
Depth to Water (DTW) (ft bgs): <u>4.37</u>	Well Diameter (in): <u>2</u> 4 6 8
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): <u>32.67</u>	Water Column Height (ft): <u>28.30</u>

Purging Info and Calculations:

Purge Method: Low-Flow <u>3 casing volumes</u> Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailer Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>28.30</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>4.8</u> Casing Volume (gal): <u>4.8</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>14.4</u> Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge:	Start Time: <u>0948</u>	Stop Time:						
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge								
<u>0949</u>	<u>19.6</u>	<u>6.72</u>	<u>2565</u>	<u>-5</u>	<u>>1000</u>	<u>1.59</u>	<u>2.4</u>	
<u>0951</u>	<u>19.4</u>	<u>6.72</u>	<u>3301</u>	<u>-10</u>	<u>808</u>	<u>0.28</u>	<u>4.8</u>	
<u>0954</u>	<u>19.4</u>	<u>6.74</u>	<u>3309</u>	<u>-16</u>	<u>175</u>	<u>0.22</u>	<u>7.2</u>	
<u>0956</u>	<u>19.4</u>	<u>6.75</u>	<u>3262</u>	<u>-19</u>	<u>42</u>	<u>0.20</u>	<u>9.6</u>	
<u>0958</u>	<u>19.4</u>	<u>6.76</u>	<u>3234</u>	<u>-20</u>	<u>33</u>	<u>0.19</u>	<u>12</u>	
<u>1000</u>	<u>19.4</u>	<u>6.76</u>	<u>3224</u>	<u>-21</u>	<u>31</u>	<u>0.19</u>	<u>14.4</u>	
Post-Purge								
Did Well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			Total Purge volume (gal): <u>14.5</u>					

Other Comments:	<u>80% 10.03</u> <u>DTW 4.53</u> <u>Purged through flow cell</u>
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Sample Info:	
Sample ID: <u>MW-12A-20140630</u>	Sample Date and Time: <u>6-12-14 @ 1002</u>
Selected Analysis: <u>see coc</u>	

This form was provided by Antea Group and completed by: (Print Full Name) Mark McColloch, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6-12-14



LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen

gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

Groundwater Sampling Form

Site Address: <u>449 Hegenberger Rd. Oakland, CA</u>	
Project No: <u>2705191</u>	Field Technician: <u>Mark McCulloch</u>
Field Point: <u>MW-13</u>	Date: <u>6-12-14</u>
Depth to Water (DTW) (ft bgs): <u>4.08</u>	Well Diameter (in): <u>4 6 8</u>
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): <u>14.54</u>	Water Column Height (ft): <u>10.46</u>

Purging Info and Calculations:

Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailor Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailor Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>10.46</u>	X Conversion Factor (gal/ft): <u>0.17</u>	= Casing Volume (gal): <u>1.8</u>
Casing Volume (gal): <u>1.8</u>	X Specified Volumes: <u>3</u>	= Calculated Purge (gal): <u>5.4</u>

Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius² * 0.163

Purge: _____		Start Time: <u>1140</u>		Stop Time: <u>1148</u>				
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge								
<u>1141</u>	<u>20.7</u>	<u>6.90</u>	<u>2097</u>	<u>-85</u>	<u>8</u>	<u>0.33</u>	<u>0.9</u>	
<u>1142</u>	<u>20.2</u>	<u>6.91</u>	<u>1943</u>	<u>-83</u>	<u>6</u>	<u>0.40</u>	<u>1.8</u>	
<u>1143</u>	<u>20.0</u>	<u>7.37</u>	<u>2909</u>	<u>-158</u>	<u>405</u>	<u>6.53</u>	<u>2.7</u>	
<u>1144</u>	<u>20.8</u>	<u>7.43</u>	<u>2751</u>	<u>-156</u>	<u>189</u>	<u>6.24</u>	<u>3.6</u>	
<u>1145</u>	<u>20.8</u>	<u>7.42</u>	<u>2907</u>	<u>-160</u>	<u>67</u>	<u>0.21</u>	<u>4.5</u>	
<u>1146</u>	<u>20.6</u>	<u>7.40</u>	<u>3125</u>	<u>-161</u>	<u>49</u>	<u>0.20</u>	<u>5.4</u>	
<u>1147</u>	<u>20.5</u>	<u>7.39</u>	<u>3347</u>	<u>-163</u>	<u>46</u>	<u>0.19</u>	<u>6.3</u>	
<u>1148</u>	<u>20.4</u>	<u>7.36</u>	<u>3462</u>	<u>-162</u>	<u>44</u>	<u>0.19</u>	<u>7.2</u>	
Post-Purge								

Did Well dewater? Yes No Total Purge volume (gal): 7.2

Other Comments: 80% = 6.17 Purged through flow cell
DTW = 6.01

Sample Info:	
Sample ID: <u>MW-13-20140630</u>	Sample Date and Time: <u>6-12-14 1159</u>
Selected Analysis: <u>see COC</u>	

This form was provided by Antea Group and completed by: (Print Full Name) Mark McCulloch, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6-12-14



LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen
 gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

Groundwater Sampling Form

Site Address: <u>499 MELVENBERGER RD, OAKLAND, CA</u>	
Project No: <u>2705191</u>	Field Technician: <u>WILLIAM WONG</u>
Field Point: <u>MW-14</u>	Date: <u>6/12/14</u>
Depth to Water (DTW) (ft bgs): <u>4.51</u>	Well Diameter (in): <u>② 4 6 8</u>
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): <u>12.75</u>	Water Column Height (ft): <u>8.24</u>

Purging Info and Calculations:

Purge Method: Low-Flow <u>3 casing volumes</u> Other: _____	Purge Equipment: Disposable Bailer <u>Electric Submersible 2" radius</u> Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: <u>Disposable Bailer</u> Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>8.24</u>	X Conversion Factor (gal/ft): <u>0.17</u>	= Casing Volume (gal): <u>1.4</u>
Casing Volume (gal): <u>1.4</u>	X Specified Volumes: <u>3</u>	= Calculated Purge (gal): <u>4.2</u>

Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius² * 0.163

Purge: _____		Start Time: <u>1323</u>		Stop Time: <u>1528</u>					
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)	
Pre-Purge									
<u>1324</u>	<u>20.0</u>	<u>7.19</u>	<u>11907</u>	<u>-166.3</u>	<u>32</u>	<u>4.62</u>	<u>0.7</u>		
<u>1325</u>	<u>19.8</u>	<u>7.19</u>	<u>12712</u>	<u>-166.5</u>	<u>27</u>	<u>4.10</u>	<u>1.4</u>		
<u>1326</u>	<u>19.6</u>	<u>7.18</u>	<u>13517</u>	<u>-166.7</u>	<u>22</u>	<u>3.68</u>	<u>2.1</u>		
<u>1327</u>	<u>19.3</u>	<u>7.17</u>	<u>14322</u>	<u>-166.8</u>	<u>20</u>	<u>2.36</u>	<u>2.8</u>		
<u>1328</u>	<u>18.9</u>	<u>7.17</u>	<u>15933</u>	<u>-166.9</u>	<u>18</u>	<u>1.98</u>	<u>3.5</u>		
	<u>WELL DEWATERED @</u>						<u>4.06 GALS</u>		
<u>1330</u>	<u>17.5</u>	<u>7.44</u>	<u>13587</u>	<u>-112.2</u>	<u>20</u>	<u>2.54</u>	<u>—</u>		
Post-Purge									
Did Well dewater? <u>Yes</u> No		Total Purge volume (gal): <u>4</u>							

Other Comments:	<u>BO%: 6.16</u> <u>DTW: 7.43 (2HR)</u> Purged thru flowcell <u>FD-1-20140630 @ 1535</u>		
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Sample Info:	
Sample ID: <u>MW-14-20140630</u>	Sample Date and Time: <u>6/12/14 / 1530</u>
Selected Analysis: <u>SEE SOW</u>	

This form was provided by Antea Group and completed by: (Print Full Name) WILLIAM WONG, an employee of Blaine Tech Services, Inc.

Signature:	Date: <u>6/12/14</u>
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Groundwater Sampling Form

Site Address:	449 Hegenberger Rd. Oakland, CA		
Project No:	2705191V	Field Technician:	Mack McCulloch
Field Point:	MW-15	Date:	6-12-14
Depth to Water (DTW) (ft bgs):	3.15	Well Diameter (in):	② 4 6 8
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	12.69	Water Column Height (ft):	9.54

Purging Info and Calculations:

Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailer Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>9.54</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>1.6</u> Casing Volume (gal): <u>1.6</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>4.8</u>		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge:	Start Time: <u>12:05</u>	Stop Time: _____						
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge								
1206	20.1	7.29	4115	-138	23	0.27	0.8	
1207	19.9	7.28	4230	-133	123	0.84	1.6	
1208	20.4	6.91	4819	-111	28	0.65	2.4	
1209	20.7	6.70	2337	-105	22	0.62	3.2	
1210	21.3	6.52	1966	-109	23	0.52	4.0	
1211	21.5	6.48	2681	-113	25	0.47	4.8	
1212	21.4	6.50	2873	-115	27	0.43	5.6	
1213	21.3	6.51	3035	-116	28	0.39	6.4	
Post-Purge								

Did Well dewater? Yes No Total Purge volume (gal): 6.5

Other Comments: 80% 5.05 DTW: 9.82 (2MP) Purged through flow cell

Sample Info:

Sample ID: MW-15-20140630	Sample Date and Time: 6-12-14 / 1415
Selected Analysis: see ecc	

This form was provided by Antea Group and completed by: (Print Full Name) Mack McCulloch, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6-12-14



LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen

gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

Groundwater Sampling Form

Site Address: <u>449 Hegenberger Rd. Oakland, CA</u>	
Project No: <u>2705191</u>	Field Technician: <u>Mark McCulloch</u>
Field Point: <u>MW-16</u>	Date: <u>6-12-14</u>
Depth to Water (DTW) (ft bgs): <u>3.67</u>	Well Diameter (in): <u>② 4 6 8</u>
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): <u>12.62</u>	Water Column Height (ft): <u>8.95</u>

Purging Info and Calculations:

Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailor Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailor Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>8.95</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>1.5</u> Casing Volume (gal): <u>1.5</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>4.5</u>		

Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius² * 0.163

Purge:	Start Time:	Stop Time:	Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
	<u>1228</u>		Pre-Purge								
			1228	20.9	6.74	4605	-114	49	0.40	0.75	
			1229	21.0	6.78	6162	-118	29	0.32	1.5	
			1230	21.9	7.00	3609	-120	144	0.98	2.25	
			1231	22.4	6.90	3008	-111	41	0.78	3.00	
			1232	23.7	6.82	2965	-103	32	0.64	3.75	
			1233	24.0	6.81	2979	-105	30	0.59	4.50	
			Post-Purge								

Did Well dewater? Yes No Total Purge volume (gal): 4.5

Other Comments: 80% = 5.46 Purged through flow cell
DTW: 5.53 (2 HR)

Sample Info:

Sample ID: <u>MW-16-20140630</u>	Sample Date and Time: <u>6-12-14 / 1435</u>
Selected Analysis: <u>see cor</u>	

This form was provided by Antea Group and completed by: (Print Full Name) Mark McCulloch, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6-12-14



LNAPL = light non-aqueous phase liquids gal = gallon/s
 bgs = below ground surface temp = temperature
 ORP = Oxidation-Reduction Potential NTU = Nephelometric Turbidity Units
 D.O. = dissolved oxygen mV = millivolts

Groundwater Sampling Form

Site Address: <u>449 Helen Berger Rd, Oakland, CA</u>	
Project No: <u>2105191</u>	Field Technician: <u>William Wong</u>
Field Point: <u>MW-17</u>	Date: <u>6/12/14</u>
Depth to Water (DTW) (ft bgs): <u>4.49</u>	Well Diameter (in): <u>② 4 6 8</u>
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): <u>12.60</u>	Water Column Height (ft): <u>8.11</u>

Purging Info and Calculations:

Purge Method: Low-Flow casing volumes Other: _____	Purge Equipment: Disposable Bailor Electric Submersible <u>2" red. flo.</u> Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailor Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>8.11</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>1.4</u> Casing Volume (gal): <u>1.4</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>4.2</u>		

Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius² * 0.163

Purge:	Start Time: <u>1342</u>	Stop Time: <u>1347</u>	Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge											
			<u>1342</u>	<u>21.1</u>	<u>8.19</u>	<u>35359</u>	<u>-130.6</u>	<u>25</u>	<u>2.93</u>	<u>0.7</u>	
			<u>1343</u>	<u>20.7</u>	<u>7.89</u>	<u>35372</u>	<u>-132.8</u>	<u>26</u>	<u>2.85</u>	<u>1.4</u>	
			<u>1344</u>	<u>20.4</u>	<u>7.59</u>	<u>35385</u>	<u>-134.9</u>	<u>26</u>	<u>2.78</u>	<u>2.1</u>	
			<u>1345</u>	<u>20.2</u>	<u>7.29</u>	<u>35504</u>	<u>-137.0</u>	<u>26</u>	<u>2.70</u>	<u>2.8</u>	
			<u>1346</u>	<u>20.0</u>	<u>6.77</u>	<u>35623</u>	<u>-139.2</u>	<u>36</u>	<u>2.60</u>	<u>3.5</u>	
			<u>1347</u>	<u>19.6</u>	<u>6.67</u>	<u>35633</u>	<u>-141.8</u>	<u>40</u>	<u>2.50</u>	<u>4.2</u>	
Post-Purge											

Did Well dewater? Yes No Total Purge volume (gal): 4.2

Other Comments: 80% of 6.11 purged thru flo cell
DTW: 9.24 (2 HR)

Sample Info:

Sample ID: <u>MW-17-20140630</u>	Sample Date and Time: <u>6/12/14 @ 1550</u>
Selected Analysis: <u>SEE SOW</u>	

This form was provided by Antea Group and completed by: (Print Full Name) WILLIAM WONG, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6/12/14



LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen
 gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts



COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

Page: 1 of 2
Cooler #: ___ of ___

2Q14 GW Event

Required Lab Information:		Required Project Information:			Required Invoice Information:					
Lab Name: Kiff Analytical	Site ID #: 2705191	Task: WG_Q_201406	Send Invoice to: Sandy Hayes	Address: 11050 White Rock Road, Suite 110		Turn around time (days): 10				
Address: 2795 Second Street #300	AnteaGrp proj#		Address: 11050 White Rock Road, Suite 110		City/State: Rancho Cordova CA 95670		Phone #: 916-638-2085	QC level Required: Standard	Special	Mark one
Davis, CA 95618	Site Address: 449 Hegenberger		City/State: Rancho Cordova CA 95670		Phone #: 916-638-2085		QC level Required: Standard		Special	Mark one
Lab PM: Scott Forbes	City: Oakland	State: CA 94621	Reimbursement project?	Non-reimbursement project?	Mark one		NJ Reduced Deliverable Package?			
Phone/Fax: P: 530-297-4800 F: 530-297-4808	AG PM Name: Dennis Dettloff	Send EDD to: agdataview.us@anteagroup.com	MA MCP Cert?		CT RCP Cert?		Mark One			
Lab PM email: SForbes@kiffanalytical.com	Phone/Fax: P: 916-503-1261 F: 916-638-8385	CC Hardcopy report to		Lab Project ID (lab use)						
Applicable Lab Quote #:	AG PM Email: dennis.dettloff@anteagroup.com	CC Hardcopy report to		Requested Analyses						

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Samples IDs MUST BE UNIQUE	MATRIX	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives									Requested Analyses	Comments/Lab Sample I.D.								
									Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ SO ₃	Methanol	Other	8015T Phosphate w/ Silicic			8280 CCNHS GPO	8280Bw/NO3/BA	8280Bw/NO2/BA					
1	MW-10_20140630	WATER	WG		6-12-14	1126	6	N									X	X	X	X							
2	MW-11_20140630	WATER	WG			1108	6	N									X	X	X	X							
3	MW-12_20140630	WATER	WG			1445	6	N									X	X	X	X							
4	MW-12A_20140630	WATER	WG			1002	6	N									X	X	X	X							
5	MW-13_20140630	WATER	WG			1159	6	N									X	X	X	X							
6	MW-14_20140630	WATER	WG			1530	6	N									X	X	X	X							
7	MW-15_20140630	WATER	WG			1415	6	N									X	X	X	X							
8	MW-16_20140630	WATER	WG			1435	6	N									X	X	X	X							
9	MW-17_20140630	WATER	WG			1550	6	N									X	X	X	X							
10	MW-3_20140630	WATER	WG			1414	6	N									X	X	X	X							
11	MW-6_20140630	WATER	WG		06-12-14	1450	6	N									X	X	X	X							
12	TB1_20140630	WATER	W		06-12-14	0725		N									X	X	X	X							

Additional Comments/Special Instructions:		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	Sample Receipt Conditions		
Global ID: T0600101476		<i>Mark McGeech</i>		6-12-2014						Y/N	Y/N	Y/N
										Y/N	Y/N	Y/N
										Y/N	Y/N	Y/N
										Y/N	Y/N	Y/N
SHIPPING METHOD: (mark as appropriate)		SAMPLER NAME AND SIGNATURE										
UPS COURIER FEDEX		PRINT Name of SAMPLER: Mark McGeech		SIGNATURE of SAMPLER: <i>Mark McGeech</i>		DATE Signed	6-12-2014	Time:	1715	Temp in °C		
US MAIL									Temp in °C	Samples on Ice?	Sample intact?	Trip Blank?

COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.



2Q14 GW Event

Required Lab Information: Lab Name: Kiff Analytical		Required Project Information: Site ID #: 2705191 Task: WG_Q_201406		Required Invoice Information: Send Invoice to: Sandy Hayes	
Address: 2795 Second Street #300 Davis, CA 95618		AnteaGrp proj#: _____		Address: 11050 White Rock Road, Suite 110 Rancho Cordova CA 95671 Phone #: 916-638-2085	
Lab PM: Scott Forbes Phone/Fax: P: 530-297-4800 F: 530-297-4808		City: Oakland State: CA 94621		Reimbursement project? _____ Non-reimbursement project? <input checked="" type="checkbox"/>	
AG PM Name: Dennis Dettloff Phone/Fax: P: 916-503-1261 F: 916-638-8385		AG PM Email: dennis.dettloff@anteagroup.com		Send EDD to: Agdataview.us@anteagroup.com	
Lab PM email: SForbes@kiffanalytical.com		Applicable Lab Quote #: _____		CC Hardcopy report to: _____	
Turn around time (days): 10		QC level Required: Standard		Special: _____ Mark one: _____	
NJ Reduced Deliverable Package? _____		MA MCP Cert? _____		CT RCP Cert? _____ Mark One: _____	
Lab Project ID (lab use): _____			Requested Analyses: _____		

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX DRAINAGE WATER WP GROUND WATER WG WASTE WATER WW FIELD PRODUCT LF OIL OL WPE AMBIENT AIR AA SIVE AIR AE SOL GAS GS MATRIX WATER WS SURFACE WATER WSG WATER QC WQC SLURRY SL RINGGATE WRM OTHER WT ANIMAL TISSUE TA	MATRIX CODE	SAMPLE TYPE G-GRAB C-COMP	SAMPLE DATE	SAMPLE TIME	NOF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives								Requested Analyses 80157 Phosphate W/ Silic 8280 C C/MS G/RO 8280b Hex/Me/Te/TBA 8200 Ethanol _____ _____ _____ _____ _____	Comments/Lab Sample I.D.		
									Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₅	Methanol	Other				
1	MW-7_20140630	WG			6-12-14	1353	6	N					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
2	MW-8_20140630	WG			6-12-14	1340	6	N			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
3	MW-9_20140630	WG			6-12-14	1405	6	N			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
4	FB2_20140630	W												<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
5	FD1_20140630	W			6-12-14	1535	6	N			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Additional Comments/Special instructions: Global ID: T0600101476	RELINQUISHED BY / AFFILIATION				DATE	TIME	ACCEPTED BY / AFFILIATION				DATE	TIME	Sample Receipt Conditions								
	<i>[Signature]</i>				6-12-2014	1710							Y/N	Y/N	Y/N						
													Y/N	Y/N	Y/N						
SHIPPING METHOD: (mark as appropriate)												SAMPLER NAME AND SIGNATURE						Temp in °C	Samples on Ice?	Sample intact?	Trip Blank?
UPS COURIER FEDEX						PRINT Name of SAMPLER: Mark McCallouch															
US MAIL						SIGNATURE of SAMPLER: <i>[Signature]</i>						DATE Signed: 6-12-2014	TIME: 1715								

Quarterly Summary Report, Second Quarter 2014
76 Station No. 5191/5043
Oakland, CA
Antea Group Project No. I42705191



Appendix D

Certified Laboratory Analytical Report and Data Validation Form

Is the Data Set Valid?

(circle)

Yes / No

Preservation Temperature

(if Known): -0.8 °C

Antea™ Group Laboratory Data Validation Sheet

Project/Client: 76 Station No. S191 / COP-ELT

Project #: I42705191

Date of Validation: 6/23/14 **Date of Analysis:** 6/17/14 - 6/20/14

Sample Date: 6/12/14 **Completed By:** ETW

Signature: [Signature]

Circle
or
Highlight

 Yes / No

(below)

Analytical Lab Used and Report # (if any): Kiff # 88422

1. Were the analyses the ones requested?
2. Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?
3. Were samples prepared (extracted, filtered, etc.) within EPA holding times?
4. Once prepared/extracted, were the samples analyzed within the EPA holding times?
5. Were Laboratory blanks performed, if so, were they non-detect?
6. Are the units correct? (i.e., soil samples in mg/kg or ug/g, water samples mg/L, ug/L, and air samples in volume mg/m³, etc.)
7. Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?
8. In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples?
9. Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approximately 80-120%, depending on the analyte)?
10. Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?
11. Were Relative Percent Difference values within the acceptable range (i.e. ±25%)?

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

If any answer is no, explain why and what corrective action was taken (use additional sheet(s), as necessary):

MRL for Ethanol has been increased due to the presence of an interfering component for sample MW-10-20140630.



Laboratory Results

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

Subject : 16 Water Samples
Project Name : 2705191
Project Number :

Dear Mr. Dettloff,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC.

Kiff Analytical, LLC is certified by the State of California under the Environmental Laboratory Accreditation Program (ELAP), lab number 08263CA.

If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Troy Turpen

Subject : 16 Water Samples
Project Name : 2705191
Project Number :

Case Narrative

The Method Reporting Limit for Ethanol has been increased due to the presence of an interfering compound for sample MW-10_20140630.

At the time of receipt by the laboratory, the temperature of the sample was -0.8 degrees C.



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

Project Name :2705191
 Project Number :

Report Number : 88422
 Date : 06/20/14

Analysis Summary

Analyte	Method	Units	MW-10_20140630		MW-11_20140630		MW-12_20140630		MW-12A_2014063		MW-13_20140630		MW-14_20140630		MW-15_20140630	
			MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	0.50	4.4	0.50	ND	0.90	30	0.50	ND	0.50	ND	9.0	1600	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.90	4.2	0.50	ND	0.50	ND	9.0	3000	0.50	ND
Toluene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.90	3.3	0.50	ND	0.50	ND	9.0	43	0.50	ND
Total Xylenes	EPA 8260B	ug/L	0.50	0.91	0.50	ND	0.90	6.1	0.50	ND	0.50	ND	9.0	6500	0.50	ND
Ethanol	EPA 8260B	ug/L	8.0	ND	5.0	ND	9.0	ND	5.0	ND	5.0	ND	90	ND	5.0	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	ND	0.50	3.7	2.0	920	0.50	ND	0.50	ND	9.0	ND	0.50	100
Tert-Butanol	EPA 8260B	ug/L	5.0	ND	5.0	ND	5.0	8.6	5.0	ND	5.0	43	50	ND	5.0	31
TPH as Gasoline	EPA 8260B	ug/L	50	ND	50	ND	90	200	50	ND	50	ND	900	36000	50	ND
1,2-Dichloroethane-d4 (Surr)	EPA 8260B	%		99.7		97.1		99.9		103		99.9		103		104
Toluene - d8 (Surr)	EPA 8260B	%		99.7		99.5		100		98.8		99.8		99.4		100
TPH as Diesel (Silica Gel)	M EPA 8015	ug/L	50	ND	50	ND	50	ND	50	ND	50	ND	50	64	50	ND
Octacosane (Silica Gel Surr)	M EPA 8015	%		106		108		113		113		118		114		116

MRL = Method Reporting Limit
 ND = Not Detected



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

Project Name :2705191
 Project Number :

Report Number : 88422
 Date : 06/20/14

Analysis Summary

Analyte	Method	Units	Sample Name		MW-16_20140630		MW-17_20140630		MW-3_20140630		MW-6_20140630		TB1_20140630		MW-7_20140630		MW-8_20140630	
			Sample Date	06/12/14	06/12/14	06/12/14	06/12/14	06/12/14	06/12/14	06/12/14	06/12/14	06/12/14	06/12/14	06/12/14	06/12/14	06/12/14	06/12/14	06/12/14
			MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	0.50	ND	5.0	3600	0.50	ND	0.50	ND	5.0	390	0.50	ND	0.50	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.50	ND	3.0	650	0.50	ND	0.50	ND	5.0	690	0.50	ND	0.50	ND	0.50	ND
Toluene	EPA 8260B	ug/L	0.50	ND	3.0	410	0.50	ND	0.50	ND	5.0	17	0.50	ND	0.50	ND	0.50	ND
Total Xylenes	EPA 8260B	ug/L	0.50	ND	3.0	1100	0.50	ND	0.50	ND	5.0	1600	0.50	ND	0.50	ND	0.50	ND
Ethanol	EPA 8260B	ug/L	5.0	ND	30	ND	5.0	ND	5.0	ND	50	ND	5.0	ND	5.0	ND	5.0	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	92	3.0	ND	0.50	28	0.50	28	5.0	12	0.50	ND	0.50	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	5.0	440	15	300	5.0	74	5.0	74	25	180	5.0	ND	5.0	ND	5.0	ND
TPH as Gasoline	EPA 8260B	ug/L	50	ND	300	17000	50	310	500	35000	500	35000	50	ND	50	ND	50	ND
1,2-Dichloroethane-d4 (Surr)	EPA 8260B	%		102		103		100		100		101		99.8		102		99.3
Toluene - d8 (Surr)	EPA 8260B	%		99.9		99.1		99.6		99.6		103		99.5		103		99.7
TPH as Diesel (Silica Gel)	M EPA 8015	ug/L	50	ND	50	87	50	ND	50	570	50	570	50	ND	50	ND	50	ND
Octacosane (Silica Gel Surr)	M EPA 8015	%		109		113		103		116		116		125		127		114

MRL = Method Reporting Limit
 ND = Not Detected



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

Project Name :2705191
 Project Number :

Report Number : 88422
 Date : 06/20/14

Analysis Summary

Analyte	Method	Sample Name		Sample Date		MRL	Results
		Units	MRL	Units	MRL		
Benzene	EPA 8260B	ug/L	0.50	ug/L	0.50	15	1600
Ethylbenzene	EPA 8260B	ug/L	0.50	ug/L	0.50	15	2900
Toluene	EPA 8260B	ug/L	0.50	ug/L	0.50	15	42
Total Xylenes	EPA 8260B	ug/L	0.50	ug/L	0.50	15	6400
Ethanol	EPA 8260B	ug/L	5.0	ug/L	5.0	150	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	ug/L	0.50	15	ND
Tert-Butanol	EPA 8260B	ug/L	5.0	ug/L	5.0	70	ND
TPH as Gasoline	EPA 8260B	ug/L	50	ug/L	50	1500	35000
1,2-Dichloroethane-d4 (Surr)	EPA 8260B	%		%			104
Toluene - d8 (Surr)	EPA 8260B	%		%			99.9
TPH as Diesel (Silica Gel)	M EPA 8015	ug/L	50	ug/L	50	60	67
Octacosane (Silica Gel Surr)	M EPA 8015	%		%			128

MRL = Method Reporting Limit
 ND = Not Detected

Project Name : **2705191**

Project Number :

Sample : **MW-10_20140630**

Matrix : Water

Lab Number : 88422-01

Sample Date :06/12/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	4.4	0.50	ug/L	EPA 8260B	06/17/14 20:03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/17/14 20:03
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/17/14 20:03
Total Xylenes	0.91	0.50	ug/L	EPA 8260B	06/17/14 20:03
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/17/14 20:03
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/17/14 20:03
Ethanol	< 8.0	8.0	ug/L	EPA 8260B	06/17/14 20:03
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/17/14 20:03
1,2-Dichloroethane-d4 (Surr)	99.7		% Recovery	EPA 8260B	06/17/14 20:03
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	06/17/14 20:03
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/18/14 22:13
Octacosane (Silica Gel Surr)	106		% Recovery	M EPA 8015	06/18/14 22:13

Project Name : **2705191**

Project Number :

Sample : **MW-11_20140630**

Matrix : Water

Lab Number : 88422-02

Sample Date :06/12/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/18/14 09:21
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/18/14 09:21
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/18/14 09:21
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/18/14 09:21
Methyl-t-butyl ether (MTBE)	3.7	0.50	ug/L	EPA 8260B	06/18/14 09:21
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/18/14 09:21
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/18/14 09:21
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/18/14 09:21
1,2-Dichloroethane-d4 (Surr)	97.1		% Recovery	EPA 8260B	06/18/14 09:21
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	06/18/14 09:21
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/18/14 22:48
Octacosane (Silica Gel Surr)	108		% Recovery	M EPA 8015	06/18/14 22:48

Project Name : **2705191**

Project Number :

Sample : **MW-12_20140630**

Matrix : Water

Lab Number : 88422-03

Sample Date :06/12/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	30	0.90	ug/L	EPA 8260B	06/20/14 02:24
Toluene	3.3	0.90	ug/L	EPA 8260B	06/20/14 02:24
Ethylbenzene	4.2	0.90	ug/L	EPA 8260B	06/20/14 02:24
Total Xylenes	6.1	0.90	ug/L	EPA 8260B	06/20/14 02:24
Methyl-t-butyl ether (MTBE)	920	2.0	ug/L	EPA 8260B	06/18/14 12:54
Tert-Butanol	8.6	5.0	ug/L	EPA 8260B	06/20/14 02:24
Ethanol	< 9.0	9.0	ug/L	EPA 8260B	06/20/14 02:24
TPH as Gasoline	200	90	ug/L	EPA 8260B	06/20/14 02:24
1,2-Dichloroethane-d4 (Surr)	99.9		% Recovery	EPA 8260B	06/20/14 02:24
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	06/20/14 02:24
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/18/14 23:24
Octacosane (Silica Gel Surr)	113		% Recovery	M EPA 8015	06/18/14 23:24

Project Name : **2705191**

Project Number :

Sample : **MW-12A_20140630**

Matrix : Water

Lab Number : 88422-04

Sample Date :06/12/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/18/14 12:19
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/18/14 12:19
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/18/14 12:19
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/18/14 12:19
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/18/14 12:19
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/18/14 12:19
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/18/14 12:19
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/18/14 12:19
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	06/18/14 12:19
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	06/18/14 12:19
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/18/14 23:59
Octacosane (Silica Gel Surr)	113		% Recovery	M EPA 8015	06/18/14 23:59

Project Name : **2705191**

Project Number :

Sample : **MW-13_20140630**

Matrix : Water

Lab Number : 88422-05

Sample Date :06/12/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 14:10
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 14:10
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 14:10
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 14:10
Methyl-t-butyl ether (MTBE)	36	0.50	ug/L	EPA 8260B	06/19/14 14:10
Tert-Butanol	43	5.0	ug/L	EPA 8260B	06/19/14 14:10
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/19/14 14:10
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/19/14 14:10
1,2-Dichloroethane-d4 (Surr)	99.9		% Recovery	EPA 8260B	06/19/14 14:10
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	06/19/14 14:10
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/19/14 00:34
Octacosane (Silica Gel Surr)	118		% Recovery	M EPA 8015	06/19/14 00:34

Project Name : **2705191**

Project Number :

Sample : **MW-14_20140630**

Matrix : Water

Lab Number : 88422-06

Sample Date :06/12/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	1600	9.0	ug/L	EPA 8260B	06/19/14 15:26
Toluene	43	9.0	ug/L	EPA 8260B	06/19/14 15:26
Ethylbenzene	3000	9.0	ug/L	EPA 8260B	06/19/14 15:26
Total Xylenes	6500	9.0	ug/L	EPA 8260B	06/19/14 15:26
Methyl-t-butyl ether (MTBE)	< 9.0	9.0	ug/L	EPA 8260B	06/19/14 15:26
Tert-Butanol	< 50	50	ug/L	EPA 8260B	06/19/14 15:26
Ethanol	< 90	90	ug/L	EPA 8260B	06/19/14 15:26
TPH as Gasoline	36000	900	ug/L	EPA 8260B	06/19/14 15:26
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	06/19/14 15:26
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	06/19/14 15:26
TPH as Diesel (Silica Gel)	64	50	ug/L	M EPA 8015	06/19/14 01:09
(Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.)					
Octacosane (Silica Gel Surr)	114		% Recovery	M EPA 8015	06/19/14 01:09

Project Name : **2705191**

Project Number :

Sample : **MW-15_20140630**

Matrix : Water

Lab Number : 88422-07

Sample Date :06/12/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 13:36
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 13:36
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 13:36
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 13:36
Methyl-t-butyl ether (MTBE)	100	0.50	ug/L	EPA 8260B	06/19/14 13:36
Tert-Butanol	31	5.0	ug/L	EPA 8260B	06/19/14 13:36
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/19/14 13:36
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/19/14 13:36
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	06/19/14 13:36
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	06/19/14 13:36
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/19/14 01:31
Octacosane (Silica Gel Surr)	116		% Recovery	M EPA 8015	06/19/14 01:31

Project Name : **2705191**

Project Number :

Sample : **MW-16_20140630**

Matrix : Water

Lab Number : 88422-08

Sample Date :06/12/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 23:24
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 23:24
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 23:24
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 23:24
Methyl-t-butyl ether (MTBE)	92	0.50	ug/L	EPA 8260B	06/19/14 23:24
Tert-Butanol	440	5.0	ug/L	EPA 8260B	06/19/14 23:24
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/19/14 23:24
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/19/14 23:24
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	06/19/14 23:24
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	06/19/14 23:24
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/19/14 01:02
Octacosane (Silica Gel Surr)	109		% Recovery	M EPA 8015	06/19/14 01:02

Project Name : **2705191**

Project Number :

Sample : **MW-17_20140630**

Matrix : Water

Lab Number : 88422-09

Sample Date :06/12/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	3600	5.0	ug/L	EPA 8260B	06/20/14 12:49
Toluene	410	3.0	ug/L	EPA 8260B	06/19/14 16:05
Ethylbenzene	650	3.0	ug/L	EPA 8260B	06/19/14 16:05
Total Xylenes	1100	3.0	ug/L	EPA 8260B	06/19/14 16:05
Methyl-t-butyl ether (MTBE)	< 3.0	3.0	ug/L	EPA 8260B	06/19/14 16:05
Tert-Butanol	300	15	ug/L	EPA 8260B	06/19/14 16:05
Ethanol	< 30	30	ug/L	EPA 8260B	06/19/14 16:05
TPH as Gasoline	17000	300	ug/L	EPA 8260B	06/19/14 16:05
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	06/19/14 16:05
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	06/19/14 16:05
TPH as Diesel (Silica Gel)	87	50	ug/L	M EPA 8015	06/19/14 00:32
(Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.)					
Octacosane (Silica Gel Surr)	113		% Recovery	M EPA 8015	06/19/14 00:32

Project Name : **2705191**

Project Number :

Sample : **MW-3_20140630**

Matrix : Water

Lab Number : 88422-10

Sample Date :06/12/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 12:56
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 12:56
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 12:56
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 12:56
Methyl-t-butyl ether (MTBE)	28	0.50	ug/L	EPA 8260B	06/19/14 12:56
Tert-Butanol	74	5.0	ug/L	EPA 8260B	06/19/14 12:56
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/19/14 12:56
TPH as Gasoline	310	50	ug/L	EPA 8260B	06/19/14 12:56
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	06/19/14 12:56
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	06/19/14 12:56
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/19/14 00:03
Octacosane (Silica Gel Surr)	103		% Recovery	M EPA 8015	06/19/14 00:03

Project Name : **2705191**

Project Number :

Sample : **MW-6_20140630**

Matrix : Water

Lab Number : 88422-11

Sample Date :06/12/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	390	5.0	ug/L	EPA 8260B	06/20/14 11:18
Toluene	17	5.0	ug/L	EPA 8260B	06/20/14 11:18
Ethylbenzene	690	5.0	ug/L	EPA 8260B	06/20/14 11:18
Total Xylenes	1600	5.0	ug/L	EPA 8260B	06/20/14 11:18
Methyl-t-butyl ether (MTBE)	12	5.0	ug/L	EPA 8260B	06/20/14 11:18
Tert-Butanol	180	25	ug/L	EPA 8260B	06/20/14 11:18
Ethanol	< 50	50	ug/L	EPA 8260B	06/20/14 11:18
TPH as Gasoline	35000	500	ug/L	EPA 8260B	06/20/14 11:18
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	06/20/14 11:18
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	06/20/14 11:18
TPH as Diesel (Silica Gel)	570	50	ug/L	M EPA 8015	06/18/14 23:33
(Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.)					
Octacosane (Silica Gel Surr)	116		% Recovery	M EPA 8015	06/18/14 23:33

Project Name : **2705191**

Project Number :

Sample : **TB1_20140630**

Matrix : Water

Lab Number : 88422-12

Sample Date :06/12/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 12:21
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 12:21
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 12:21
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 12:21
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 12:21
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/19/14 12:21
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/19/14 12:21
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/19/14 12:21
1,2-Dichloroethane-d4 (Surr)	99.8		% Recovery	EPA 8260B	06/19/14 12:21
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	06/19/14 12:21
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/18/14 23:04
Octacosane (Silica Gel Surr)	125		% Recovery	M EPA 8015	06/18/14 23:04

Project Name : **2705191**

Project Number :

Sample : **MW-7_20140630**

Matrix : Water

Lab Number : 88422-13

Sample Date :06/12/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/20/14 12:56
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/20/14 12:56
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/20/14 12:56
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/20/14 12:56
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/20/14 12:56
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/20/14 12:56
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/20/14 12:56
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/20/14 12:56
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	06/20/14 12:56
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	06/20/14 12:56
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/18/14 22:35
Octacosane (Silica Gel Surr)	127		% Recovery	M EPA 8015	06/18/14 22:35

Project Name : **2705191**

Project Number :

Sample : **MW-8_20140630**

Matrix : Water

Lab Number : 88422-14

Sample Date :06/12/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 11:47
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 11:47
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 11:47
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 11:47
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 11:47
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/19/14 11:47
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/19/14 11:47
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/19/14 11:47
1,2-Dichloroethane-d4 (Surr)	99.3		% Recovery	EPA 8260B	06/19/14 11:47
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	06/19/14 11:47
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/19/14 01:45
Octacosane (Silica Gel Surr)	114		% Recovery	M EPA 8015	06/19/14 01:45

Project Name : **2705191**

Project Number :

Sample : **MW-9_20140630**

Matrix : Water

Lab Number : 88422-15

Sample Date :06/12/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 11:13
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 11:13
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 11:13
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/19/14 11:13
Methyl-t-butyl ether (MTBE)	3.3	0.50	ug/L	EPA 8260B	06/19/14 11:13
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/19/14 11:13
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/19/14 11:13
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/19/14 11:13
1,2-Dichloroethane-d4 (Surr)	99.6		% Recovery	EPA 8260B	06/19/14 11:13
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	06/19/14 11:13
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/18/14 22:05
Octacosane (Silica Gel Surr)	98.0		% Recovery	M EPA 8015	06/18/14 22:05

Project Name : **2705191**

Project Number :

Sample : **FD1_20140630**

Matrix : Water

Lab Number : 88422-16

Sample Date :06/12/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	1600	15	ug/L	EPA 8260B	06/19/14 17:17
Toluene	42	15	ug/L	EPA 8260B	06/19/14 17:17
Ethylbenzene	2900	15	ug/L	EPA 8260B	06/19/14 17:17
Total Xylenes	6400	15	ug/L	EPA 8260B	06/19/14 17:17
Methyl-t-butyl ether (MTBE)	< 15	15	ug/L	EPA 8260B	06/19/14 17:17
Tert-Butanol	< 70	70	ug/L	EPA 8260B	06/19/14 17:17
Ethanol	< 150	150	ug/L	EPA 8260B	06/19/14 17:17
TPH as Gasoline	35000	1500	ug/L	EPA 8260B	06/19/14 17:17
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	06/19/14 17:17
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	06/19/14 17:17
TPH as Diesel (Silica Gel)	67	60	ug/L	M EPA 8015	06/18/14 21:36
(Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.)					
Octacosane (Silica Gel Surr)	128		% Recovery	M EPA 8015	06/18/14 21:36

Report Number : 88422

Date : 06/20/14

QC Report : Method Blank Data

Project Name : **2705191**

Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/18/14	Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/20/14
Octacosane (Silica Gel Surr)	104		%	M EPA 8015	06/18/14	Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/17/14	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/17/14	Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/17/14	Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/19/14
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/17/14	Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/19/14
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/17/14	Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/19/14
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/17/14	TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/19/14
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/17/14	1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	06/19/14
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/17/14	Toluene - d8 (Surr)	99.6		%	EPA 8260B	06/19/14
1,2-Dichloroethane-d4 (Surr)	96.6		%	EPA 8260B	06/17/14	Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/20/14
Toluene - d8 (Surr)	99.4		%	EPA 8260B	06/17/14	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/20/14
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14	Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/20/14
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14	Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/20/14
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/19/14	Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/20/14
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/19/14	Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/20/14
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/19/14	Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/20/14
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/19/14	TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/20/14
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/19/14	1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	06/20/14
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/19/14	Toluene - d8 (Surr)	103		%	EPA 8260B	06/20/14
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	06/19/14						
Toluene - d8 (Surr)	99.8		%	EPA 8260B	06/19/14						

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **2705191**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH-D (Si Gel)	88422-14	<50	1000	1000	821	805	ug/L	M EPA 8015	6/18/14	82.1	80.5	2.01	70-130	25
Benzene	88422-01	4.4	39.9	40.0	44.8	45.0	ug/L	EPA 8260B	6/17/14	101	102	0.534	70.0-130	25
Ethanol	88422-01	7.0	99.8	100	99.7	96.7	ug/L	EPA 8260B	6/17/14	92.9	89.8	3.47	55.0-150	25
Ethylbenzene	88422-01	<0.50	39.9	40.0	43.3	43.7	ug/L	EPA 8260B	6/17/14	108	109	0.756	70.0-130	25
Methyl-t-butyl ether	88422-01	<0.50	40.0	40.1	40.4	40.4	ug/L	EPA 8260B	6/17/14	101	100	0.312	70.0-130	25
P + M Xylene	88422-01	0.91	39.9	40.0	41.6	41.8	ug/L	EPA 8260B	6/17/14	102	102	0.442	70.0-130	25
Tert-Butanol	88422-01	<5.0	200	200	200	200	ug/L	EPA 8260B	6/17/14	100	100	0.101	70.0-130	25
Toluene	88422-01	<0.50	39.9	40.0	41.4	41.4	ug/L	EPA 8260B	6/17/14	104	104	0.0341	70.0-130	25
Benzene	88422-08	<0.50	40.0	40.0	41.3	40.4	ug/L	EPA 8260B	6/20/14	103	101	2.16	70.0-130	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **2705191**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Ethanol	88422-08	<5.0	100	100	96.6	99.5	ug/L	EPA 8260B	6/20/14	96.6	99.5	2.97	55.0-150	25
Ethylbenzene	88422-08	<0.50	40.0	40.0	42.9	42.2	ug/L	EPA 8260B	6/20/14	107	106	1.54	70.0-130	25
Methyl-t-butyl ether	88422-08	92	40.1	40.1	130	130	ug/L	EPA 8260B	6/20/14	92.7	94.4	1.84	70.0-130	25
P + M Xylene	88422-08	<0.50	40.0	40.0	40.9	40.3	ug/L	EPA 8260B	6/20/14	102	101	1.40	70.0-130	25
Tert-Butanol	88422-08	440	200	200	614	627	ug/L	EPA 8260B	6/20/14	88.6	94.9	6.87	70.0-130	25
Toluene	88422-08	<0.50	40.0	40.0	41.1	40.3	ug/L	EPA 8260B	6/20/14	103	101	1.87	70.0-130	25
Benzene	88462-01	<0.50	40.0	40.0	35.9	40.8	ug/L	EPA 8260B	6/20/14	89.7	102	12.8	70.0-130	25
Benzene	88451-13	<0.50	40.0	40.0	38.2	39.4	ug/L	EPA 8260B	6/19/14	95.5	98.4	3.07	70.0-130	25
Ethanol	88451-13	<5.0	100	100	98.7	94.2	ug/L	EPA 8260B	6/19/14	98.7	94.2	4.73	55.0-150	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **2705191**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Ethylbenzene	88451-13	<0.50	40.0	40.0	39.9	40.7	ug/L	EPA 8260B	6/19/14	99.9	102	1.96	70.0-130	25
P + M Xylene	88451-13	<0.50	40.0	40.0	40.9	41.5	ug/L	EPA 8260B	6/19/14	102	104	1.47	70.0-130	25
Tert-Butanol	88451-13	<5.0	200	200	198	201	ug/L	EPA 8260B	6/19/14	98.8	101	1.79	70.0-130	25
Toluene	88451-13	<0.50	40.0	40.0	39.0	40.0	ug/L	EPA 8260B	6/19/14	97.5	100	2.45	70.0-130	25
Benzene	88462-02	<0.50	40.0	40.0	46.6	45.4	ug/L	EPA 8260B	6/20/14	116	113	2.80	70.0-130	25
Ethanol	88462-02	<5.0	100	100	108	105	ug/L	EPA 8260B	6/20/14	108	105	2.59	55.0-150	25
Ethylbenzene	88462-02	<0.50	40.0	40.0	45.1	44.7	ug/L	EPA 8260B	6/20/14	113	112	1.00	70.0-130	25
Methyl-t-butyl ether	88462-02	<0.50	40.1	40.1	44.6	44.0	ug/L	EPA 8260B	6/20/14	111	110	1.26	70.0-130	25
P + M Xylene	88462-02	<0.50	40.0	40.0	42.7	42.4	ug/L	EPA 8260B	6/20/14	107	106	0.760	70.0-130	25

Report Number : 88422

Date : 06/20/2014

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **2705191**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Tert-Butanol	88462-02	<5.0	200	200	223	214	ug/L	EPA 8260B	6/20/14	111	107	3.82	70.0-130	25
Toluene	88462-02	<0.50	40.0	40.0	47.9	46.7	ug/L	EPA 8260B	6/20/14	120	117	2.65	70.0-130	25

QC Report : Laboratory Control Sample (LCS)

Project Name : **2705191**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
TPH-D (Si Gel)	1000	ug/L	M EPA 8015	6/18/14	78.7	70-130
Benzene	40.0	ug/L	EPA 8260B	6/17/14	101	70.0-130
Ethanol	100	ug/L	EPA 8260B	6/17/14	103	55.0-150
Ethylbenzene	40.0	ug/L	EPA 8260B	6/17/14	107	70.0-130
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	6/17/14	94.2	70.0-130
P + M Xylene	40.0	ug/L	EPA 8260B	6/17/14	102	70.0-130
Tert-Butanol	200	ug/L	EPA 8260B	6/17/14	100	70.0-130
Toluene	40.0	ug/L	EPA 8260B	6/17/14	101	70.0-130
Benzene	40.0	ug/L	EPA 8260B	6/19/14	104	70.0-130
Ethanol	100	ug/L	EPA 8260B	6/19/14	104	55.0-150
Ethylbenzene	40.0	ug/L	EPA 8260B	6/19/14	109	70.0-130
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	6/19/14	101	70.0-130
P + M Xylene	40.0	ug/L	EPA 8260B	6/19/14	103	70.0-130
Tert-Butanol	200	ug/L	EPA 8260B	6/19/14	104	70.0-130
Toluene	40.0	ug/L	EPA 8260B	6/19/14	103	70.0-130
Benzene	40.1	ug/L	EPA 8260B	6/20/14	100	70.0-130
Benzene	40.0	ug/L	EPA 8260B	6/19/14	95.3	70.0-130

QC Report : Laboratory Control Sample (LCS)

Project Name : **2705191**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Ethanol	100	ug/L	EPA 8260B	6/19/14	92.0	55.0-150
Ethylbenzene	40.0	ug/L	EPA 8260B	6/19/14	98.4	70.0-130
P + M Xylene	40.0	ug/L	EPA 8260B	6/19/14	101	70.0-130
TPH as Gasoline	483	ug/L	EPA 8260B	6/19/14	89.8	70.0-130
Tert-Butanol	200	ug/L	EPA 8260B	6/19/14	98.1	70.0-130
Toluene	40.0	ug/L	EPA 8260B	6/19/14	97.4	70.0-130
Benzene	39.9	ug/L	EPA 8260B	6/20/14	112	70.0-130
Ethanol	99.8	ug/L	EPA 8260B	6/20/14	106	55.0-150
Ethylbenzene	39.9	ug/L	EPA 8260B	6/20/14	112	70.0-130
Methyl-t-butyl ether	40.0	ug/L	EPA 8260B	6/20/14	106	70.0-130
P + M Xylene	39.9	ug/L	EPA 8260B	6/20/14	106	70.0-130
TPH as Gasoline	482	ug/L	EPA 8260B	6/20/14	107	70.0-130
Tert-Butanol	200	ug/L	EPA 8260B	6/20/14	109	70.0-130
Toluene	39.9	ug/L	EPA 8260B	6/20/14	117	70.0-130

COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

2Q14 GW Event



Required Lab Information:
 Lab Name: Kiff Analytical | Site ID #: 2705191 | Task: WG_Q_201406 | Send Invoice to: Sandy Hayes
 Address: 2795 Second Street #300 | Davis, CA 95618 | AnteaGrp proj#: 449 Hegenberger | Address: 11050 White Rock Road, Suite 110 | City/State: Rancho Cordova CA 95670 | Phone #: 916-638-2085 | Turn around time (days): 10
 Lab PM: Scott Forbes | City: Oakland | State: CA 94621 | Reimbursement project? Non-reimbursement project? Mark one
 Phone/Fax: P: 530-297-4800 F: 530-297-4808 | AG PM Name: Dennis Detloff | Send EDD to: Agdalaview.us@anteagroup.com | MA MCP Cert? CT RCP Cert? Mark One
 Lab PM email: SForbes@kiffanalytical.com | Phone/Fax: P: 916-503-1261 F: 916-638-8385 | CC Hardcopy report to: CC Hardcopy report to: _____
 Applicable Lab Quote #: _____ | AG PM Email: dennis.detloff@anteagroup.com

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , .) Samples IDs MUST BE UNIQUE	MATRIX	MATRIX CODE	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	FIELD FILTERED? (Y/N)	PRESERVATIVES										Comments/Lab Sample I.D.				
									Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	9015 Phthalate W/ Sulf	9260 GCMS GRO		92609 MMS/TA	92609 Meth/TA		
1	MW-7_20140630	W	WG	G=GRAB C=COMP	6-12-14	1353	6	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
2	MW-8_20140630	W	WG	G=GRAB C=COMP	6-12-14	1340	6	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
3	MW-9_20140630	W	WG	G=GRAB C=COMP	6-12-14	1405	6	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
4	FB2_20140630	W	W	G=GRAB C=COMP	6-12-14	1535	6	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
5	FD1_20140630	W	W	G=GRAB C=COMP	6-12-14	1535	6	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Additional Comments/Special Instructions:

RELINQUISHED BY / AFFILIATION: *[Signature]* DATE: 6-12-2014 TIME: 1710
 ACCEPTED BY / AFFILIATION: *[Signature]* DATE: 6-12-2014 TIME: 1815
 SHIPPING METHOD: (mark as appropriate) SAMPLER NAME AND SIGNATURE: Mark McCallloch
 UPS COURIER: FEDEX PRINT Name of SAMPLER: Mark McCallloch DATE Signed: 6-12-2014 Time: 1815
 US MAIL SIGNATURE of SAMPLER: *[Signature]* DATE Signed: 6-12-2014 Time: 1815

Global ID: T0600101476



SAMPLE RECEIPT CHECKLIST

SRG #: 88422

Sample Receipt	Initials/Date: <i>Gay 06/13/14</i>	Storage Time: 1455	Initials/Date: <i>Gay 06/16/14</i>
TAT: <input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush	<input type="checkbox"/> Split	<input type="checkbox"/> None
Temp °C: -0.8	<input type="checkbox"/> N/A	Therm ID	Time: 1005
Method of Receipt: <input type="checkbox"/> Courier		<input checked="" type="checkbox"/> Over-the-counter	
Coolant present: <input checked="" type="checkbox"/> Yes		<input type="checkbox"/> No	
<input type="checkbox"/> Water		<input checked="" type="checkbox"/> Temp Excursion	

For Shipments Only: Cooler Receipt Initials/Date/Time: *Gay 06/13/14 1005* Custody Seals N/A Intact Broken

Chain-of-Custody:	Yes	No
Is COC present?	/	
Is COC signed by relinquisher?	/	
Is COC dated by relinquisher?	/	
Is the sampler's name on the COC?	/	
Are there analyses or hold for all samples?	/	

Documented on	COC	Labels	Discrepancies:
Sample ID	/	/	
Project ID	/	/	
Sample Date	/	/	
Sample Time	/	/	
Does COC match project history? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Samples:	N/A	Yes	No
Are sample custody seals intact?	/		
Are sample containers intact?		/	
Is preservation documented?		/	
In-house Analysis:	N/A	Yes	No
Are preservatives acceptable?		/	
Are samples within holding time?		/	
Are sample container types correct?		/	
Is there adequate sample volume?		/	

Comments: *Sample -12 has 2 containers. The number is not listed on the COC. Samples 01-12 have the stickers on the containers. Gay 06/13/14 1455*

Receipt Details:	Container Type	# of Containers
Matrix: <i>WA</i>	<i>Ver</i>	<i>92</i>

CS Required:

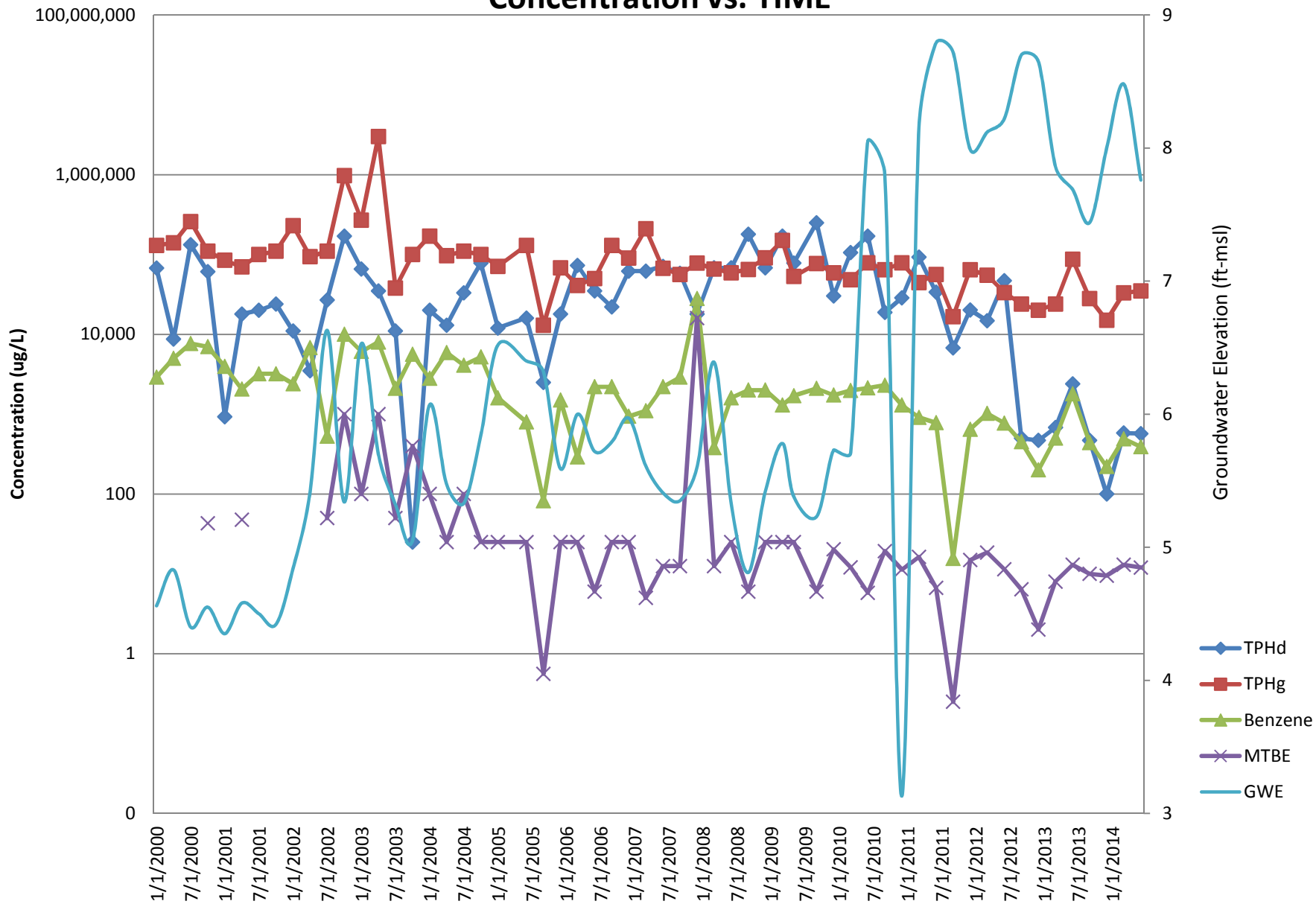
Proceed With Analysis: YES NO Init/Date:

Client Communication:

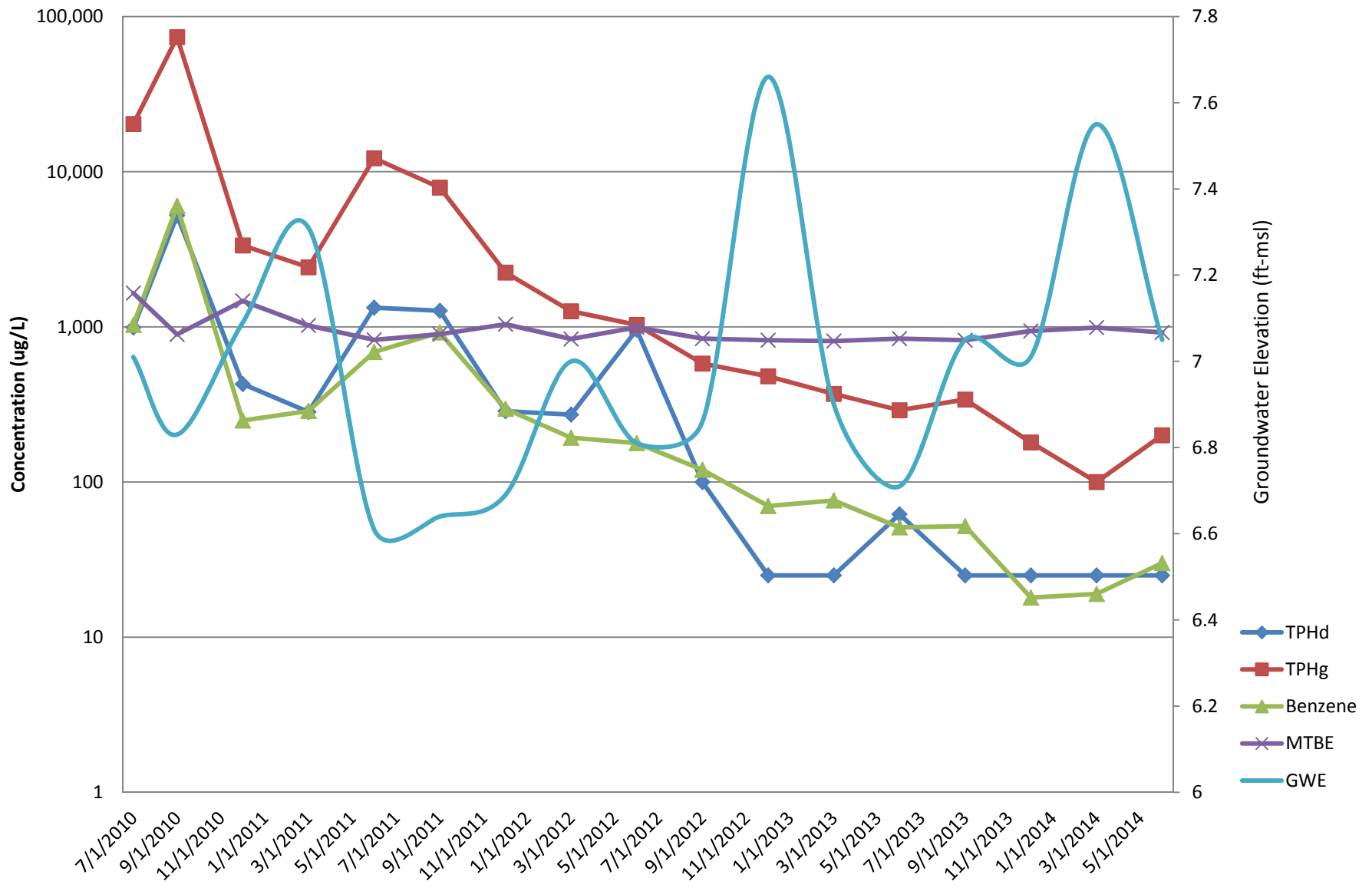
Appendix E

Concentration vs. Time Graphs

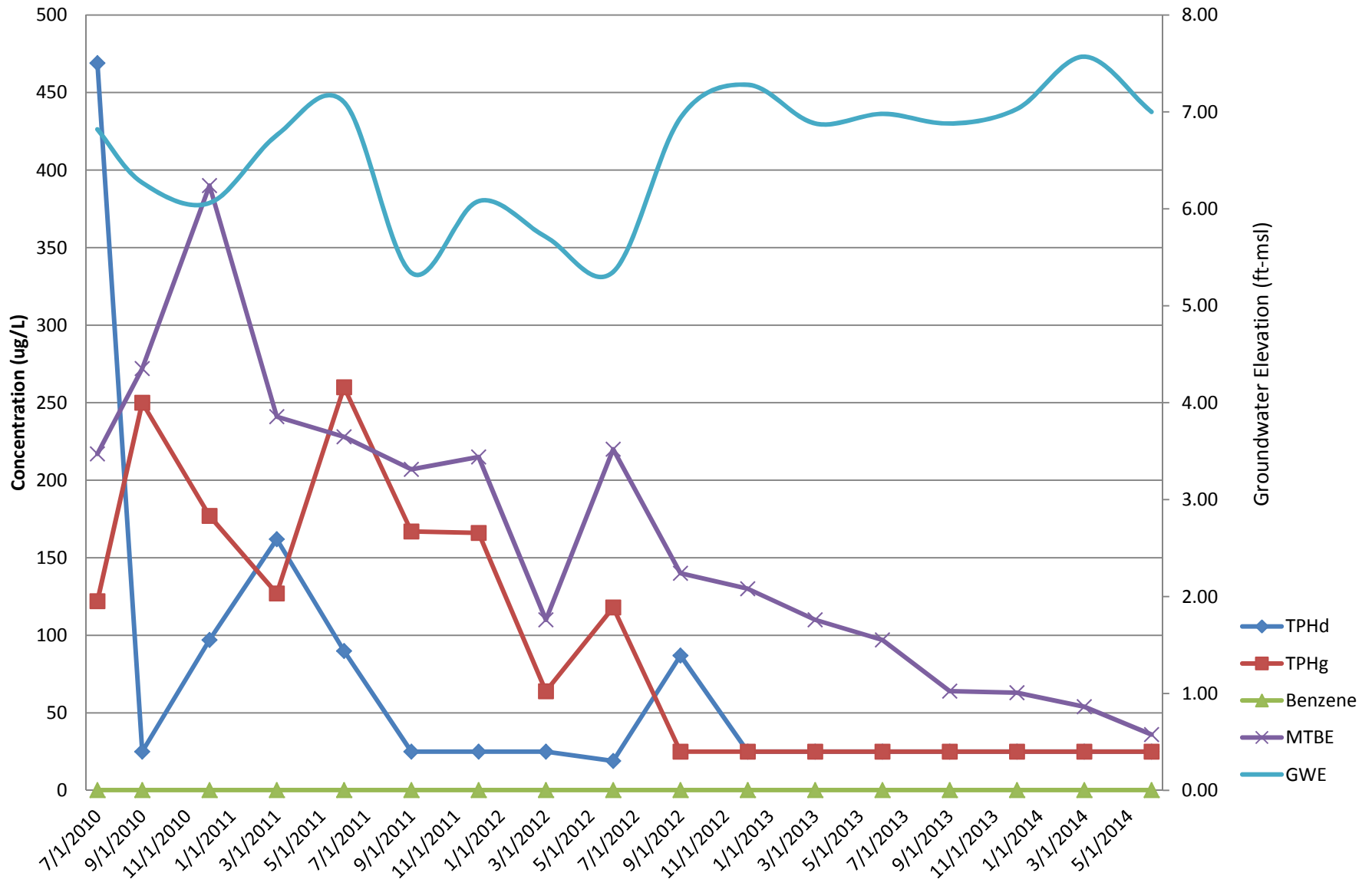
MW-6 Concentration vs. TIME



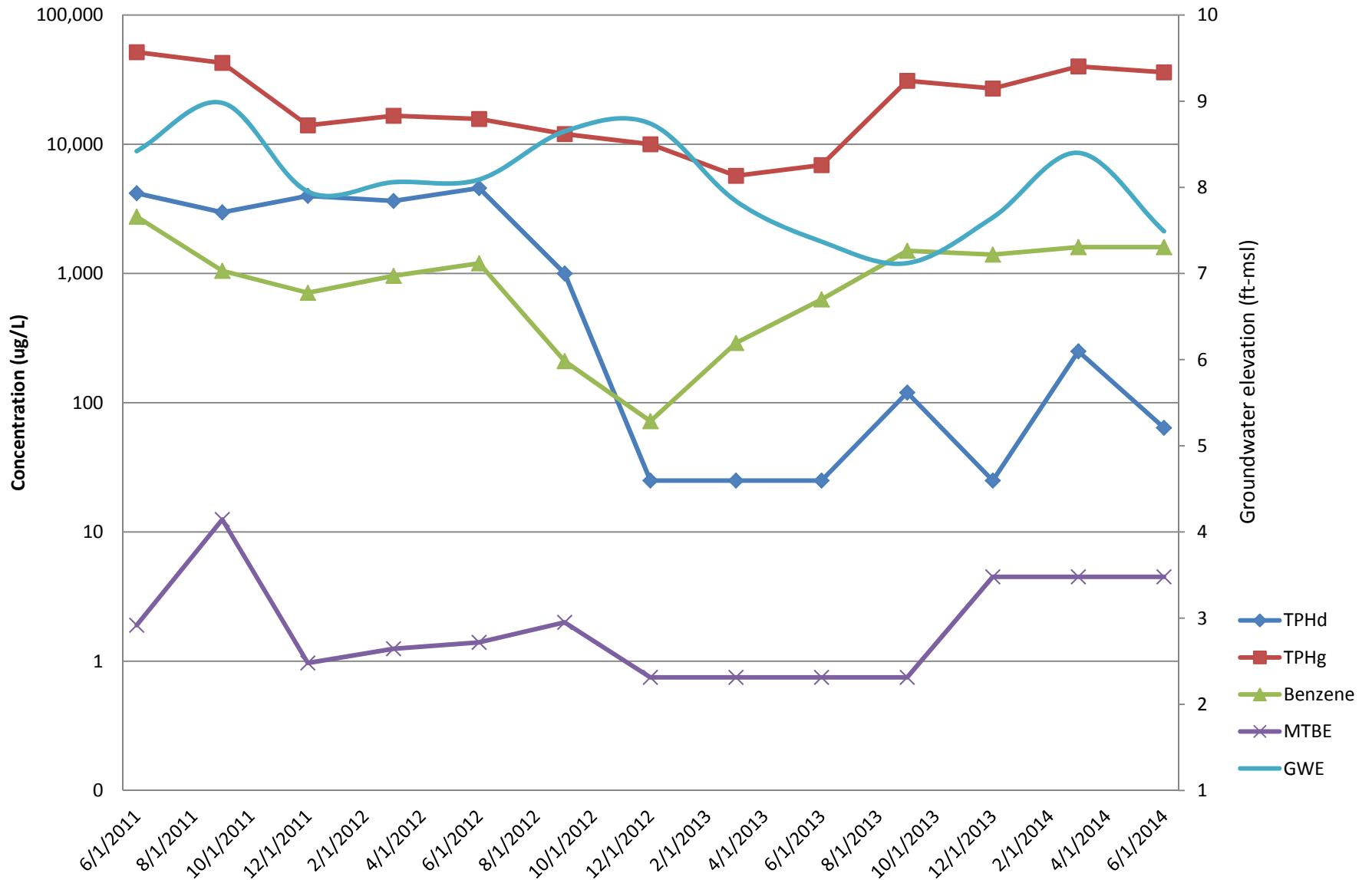
MW-12 Concentration vs. Time



MW-13 Concentration vs. Time



MW-14 Concentration vs. Time



MW-17 Concentration Vs. Time

