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**RECEIVED**

*By Alameda County Environmental Health at 3:00 pm, Nov 01, 2013*

October 31, 2013

Ms. Dilan Roe  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

**Semi-Annual Summary Report, March through September 2013**

**76 (Former BP) Station No. 2611117  
7210 Bancroft Avenue  
Oakland, California  
Fuel Leak Case No. RO0000356**

Dear Ms. Roe:

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 contact Mr. Dennis Dettloff at (916) 503-1261.

Sincerely,

A handwritten signature in black ink that reads "EQ Ralston". The signature is written in a cursive, flowing style.

Edward C. Ralston  
Program Manager  
Remediation Management

# *Semi-Annual Summary Report, April through September 2013*

*76 (Former BP) Station No. 11117  
7210 Bancroft Avenue  
Oakland, California USA*

*Alameda County Environmental Health,  
Fuel Leak Case No. R00000356  
San Francisco Bay, Regional Water Quality  
Control Board (REGION 2) - CASE # 01-0215*

*Antea Group Project No. I42611117  
October 31, 2013*

*Prepared for:*  
**Ms. Dilan Roe**  
Alameda County Health Care Services  
Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

*Prepared by:*  
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Appendix D	Certified Laboratory Analytical Reports and Data Validation Forms
Appendix E	Time Series Graphs

# ***Semi-Annual Summary Report, April through September 2013***

*76 (Former BP) Station No. 11117  
7210 Bancroft Avenue, CA USA  
Alameda County Health Care Services Agency  
Fuel Leak Case No. RO0000356*

## **1.0 INTRODUCTION**

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Antea™Group prepared this *Semi-Annual Summary Report, April through September 2013*, for the 76 (Former BP) Station No. 11117 in Oakland, California (**Figure 1**). This report summarizes the data obtained from the most recent groundwater monitoring event conducted on August 14, 2013. Please refer to **Figure 2** for the site layout. **Appendix A** contains additional site information and a history of previous environmental investigations and remediation activities.

### **1.1 Work Performed, April through September 2013**

1. Antea Group submitted the *Semi-Annual Monitoring Report – First Quarter 2013* to the Alameda County Health Care Services Agency (ACHCSA) on May 9, 2013.
2. Antea Group submitted the *Pilot Test Evaluation and Additional Assessment Work Plan* to ACHCSA on April 29, 2013.
3. Blaine Tech Services, Inc. (Blaine Tech) conducted the groundwater monitoring event on August 14, 2013.

### **1.2 Work Proposed, October 2013 through March 2014**

1. Antea Group will submit the *Semi-Annual Summary Report, April through September 2013* (contained herein) to ACHCSA by October 31, 2013.
2. Antea Group will conduct a site investigation to further delineate the extent of impact around monitoring well MW-4.
3. Antea Group will prepare and submit a site investigation report documenting the results of the investigation to further delineate impact around monitoring well MW-4.
4. Antea Group will prepare and submit a site conceptual model.
5. Antea Group will review case files for a feasibility study/corrective action plan (FS/CAP), if a new FS/CAP is required, Antea Group will prepare and submit the FS/CAP.
6. Blaine Tech will conduct the semi-annual groundwater monitoring and sampling event during the first quarter of 2014.

## 2.0 CURRENT PROJECT STATUS

Current phase of project:	Semi-Annual Groundwater Monitoring
Monitoring well gauging schedule:	Semi-Annually (1Q, 3Q): MW-1, MW-3, MW-4, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, EX-1, and EX-2
Monitoring well sampling schedule:	Semi-Annually (1Q, 3Q): MW-4, MW-7, MW-9, MW-10, MW-11, EX-1, and EX-2 Annually (1Q): MW-1, MW-3, MW-6, and MW-8
Wells with historical measurable LNAPL (light non-aqueous phase liquid):	Yes, sporadic trace amounts in wells EX-2 and MW-4, and greater amounts in MW-2 between 1993 and 1998 (maximum of 4.25 feet was reported in well MW-2 on 1/25/1995).
Generalized site geology:	<u>Surface to ~3' bgs:</u> Gravel (Fill) <u>~3 to 30' bgs:</u> silt and silty sand <u>~30 to 45' bgs:</u> clay
Local receptors:	As many as 10 wells within one mile of the site, plus several sensitive receptors within 0.5 miles of the site. According to the October 2010 <i>Sensitive Receptor Survey</i> prepared by Delta Consultants, no receptors likely to have been impacted by release the from this site (see <b>Appendix A</b> )
Current remediation technique	None

### 2.1 Regulatory Correspondence

Antea Group received a letter dated July 4, 2013 from the ACHCSA detailing ACHCSA's review of the *Pilot Test Evaluation and Additional Assessment Work Plan, Semi-Annual Monitoring Report – First Quarter 2013*, and the *Site Investigation & Pilot Test Report*.

On August 30, 2013, Antea Group received an e-mail from ACHCSA. The e-mail detailed steps to be taken after the additional site investigation is completed, including completing a site conceptual model, reviewing site case files, and completing a corrective action plan if necessary,

### 2.2 Remediation Activities

No remediation activities took place between April and September 2013. For a summary of previous remedial activities and pilot testing, please refer to **Appendix A**.

### 2.3 Groundwater Monitoring

During the August 14, 2013 groundwater monitoring event, Blaine Tech gauged eleven wells and, purged and sampled seven wells per their standard sampling protocol. Blaine Tech's monitoring, sampling, and purge water handling procedures are presented as **Appendix B**. Soil boring and well construction details are presented in **Table 1**. Blaine Tech's field data sheets are presented as **Appendix C**.

Well gauging and sampling date:	August 14, 2013
Wells gauged:	MW-1, MW-3, MW-4, MW-6 through MW-11, EX-1, EX-2

Wells sampled:	MW-4, MW-7, MW-9 through MW-11, EX-1, EX-2
Purge method:	3 well casing volumes via electric, submersible pump, purged through a flow cell
Sample collection method:	Disposable bailers
Groundwater parameters measured ( <b>Appendix C</b> ):	Temperature, pH, Conductivity, Oxidation-reduction potential (ORP), Turbidity, Dissolved Oxygen (DO)
Wells with measurable LNAPL:	None

### 2.3.1 Groundwater Flow Gradient and Directional Trends

Currently, eleven site wells are gauged on a semi-annual basis. During the August 14, 2013 groundwater monitoring and sampling event, the groundwater flow direction and gradient appeared to be variable (**Figure 3**). Historically, groundwater flow has generally been to the northeast at an average gradient of 0.015 foot per foot. A rose diagram displaying historical groundwater flow directions is shown on **Figure 3**. The previous monitoring and sampling event (February 2013) also reported variable groundwater flow and an indeterminate gradient.

### 2.3.2 Groundwater Quality Data

Blaine Tech submitted the groundwater samples collected for the August 14, 2013 monitoring and sampling event with chain-of-custody documentation to Kiff Analytical LLC. (KIFF), a state of California Environmental Laboratory Accreditation Program (ELAP) certified laboratory (Certification No. 08263CA). The complete analytical report is included in **Appendix D**. The chain of custody requested the laboratory to analyze groundwater samples for the following contaminants of concern:

- Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, total xylenes (BTEX compounds), methyl tert-butyl ether (MTBE), ethyl tert-butyl ether (ETBE), di-isopropyl ether (DIPE), tertiary-amyl methyl ether (TAME), tertiary butyl alcohol (TBA), ethanol, 1,2-dichloroethane (1,2-DCA), and 1,2-dibromoethane (EDB) by Environmental Protection Agency (EPA )Method 8260B.

Groundwater analytical results are presented in **Table 2** (current), and **Tables 3 and 3a** (historical). The following table presents the ranges of contaminant concentrations reported above the laboratory’s respective minimum reporting limits in groundwater samples collected during August 2013 sampling event:

Constituents	Number of Samples Where Constituent was Reported Above LRL of the Total Samples Collected	Minimum Reported Concentration, in µg/L (Sample ID)	Maximum Reported Concentration, in µg/L (Sample ID)
TPHg	3 of 7	2,200 (MW-11)	86,000 (MW-4)
Benzene	2 of 7	2,000 (EX-1)	3,700 (MW-4)
Toluene	3 of 7	3.4 (MW-11)	180 (MW-4)
Ethylbenzene	3 of 7	68 (MW-11)	4,500 (MW-4)
Total Xylenes	3 of 7	61 (MW-11)	10,000 (MW-4)
MTBE	5 of 7	1.8 (EX-2)	810 (MW-4)



TBA	2 of 7	970 (EX-1)	2,600 (MW-4)
TAME	1 of 7	10 (EX-1)	10 (EX-1)

Explanations:

µg/L = Micrograms per liter      LRL = Laboratory reporting limit

**2.3.3 Groundwater Contaminant Trends**

TPHg, BTEX compounds, MTBE, and TBA continue to be reported in several of the site’s monitoring wells. Concentration versus time graphs for TPHg, benzene, MTBE, and TBA in selected wells are presented as **Appendix E**.

- Reported concentrations of benzene, MTBE, and TPHg in monitoring well MW-4 are generally consistent with a recent increasing trend observed since the third quarter 2011, and overall consistent with the historical range of concentrations. Antea Group considers that the fluctuations (one to two orders of magnitude between sampling events) of the concentrations reported in monitoring well MW-4 may be attributed to a submerged screen. The presence of sheen periodically noted in monitoring well MW-4 suggests contaminant concentrations may be highest on the top of the water column.
- Well EX-1 reported increases in TPHg, benzene, and ethylbenzene since the last sampling event. There was a reported decrease in toluene, total xylenes, MTBE, TBA, ETBE, and TAME this sampling event.
- MTBE continues to be the only analyte reported in well EX-2. The current concentration is an increase from the previous event, but remains within a historical range.
- Concentrations reported in monitoring wells MW-10 and MW-11 are consistent with those reported during the first quarter 2013, and are within a historical range.
- Overall, TPHg, benzene, MTBE and TBA concentration trends show relatively steady or decreasing concentrations. Recent apparent concentration increases remain within a historical range of contaminant concentrations.

Dissolved TPHg, benzene, and TBA plumes continue to be limited to the southeastern portion of the site. The dissolved MTBE plume continues to extend from the southeast portion of the site, north to monitoring wells MW-7 and MW-10. Dissolved-phase isoconcentration maps for TPHg, benzene, MTBE, and TBA, for the August 14, 2013 groundwater monitoring and sampling event, are presented as **Figures 4 through 7**.

**2.3.4 Waste Disposal Summary**

A total of 123 gallons of wastewater were generated during well purging, well sampling, and equipment cleaning during the August 14, 2013 groundwater monitoring and sampling event. The wastewater was 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 trip blank and a detailed QA/QC data validation check on the KIFF analytical results for the August 2013 sampling event. Antea Group's laboratory data validation checklist and the Kiff laboratory reports are presented as **Appendix D**.

Trip Blank (TB1_20120831):	No contaminants reported
Laboratory QA/QC Performed:	Yes (validated by Antea Group)
Laboratory Data Qualifiers:	Yes – description below
Are the data valid for their intended purpose?	Yes, the data are valid

KIFF reported that the Method Reporting Limit for Ethanol has been increased due to the presence of an interfering compound for sample MW-4\_20120831. The trip blank (TB1\_20130831) was analyzed by EPA Method 8260B using a bottle that contained headspace bubbles greater than ¼ inch in diameter.

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

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Contaminant concentrations continue to be reported above the laboratory's indicated reporting limits, primarily in wells along the southeastern property line.

Antea Group is currently conducting field activities per the scope of work described in the *Pilot Test Evaluation and Additional Assessment Work Plan* dated April 29, 2013. Upon completion, Antea Group will present the results of the additional site investigation under separate cover. Meanwhile, Antea Group will continue semi-annual groundwater monitoring and sampling per the existing monitoring schedule.



#### 4.0 REMARKS

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

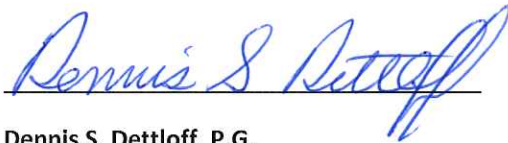
Prepared by:



**Edward T. Weyrens, G.I.T.**  
Project Professional  
Antea Group

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 follows.

Licensed Approver:



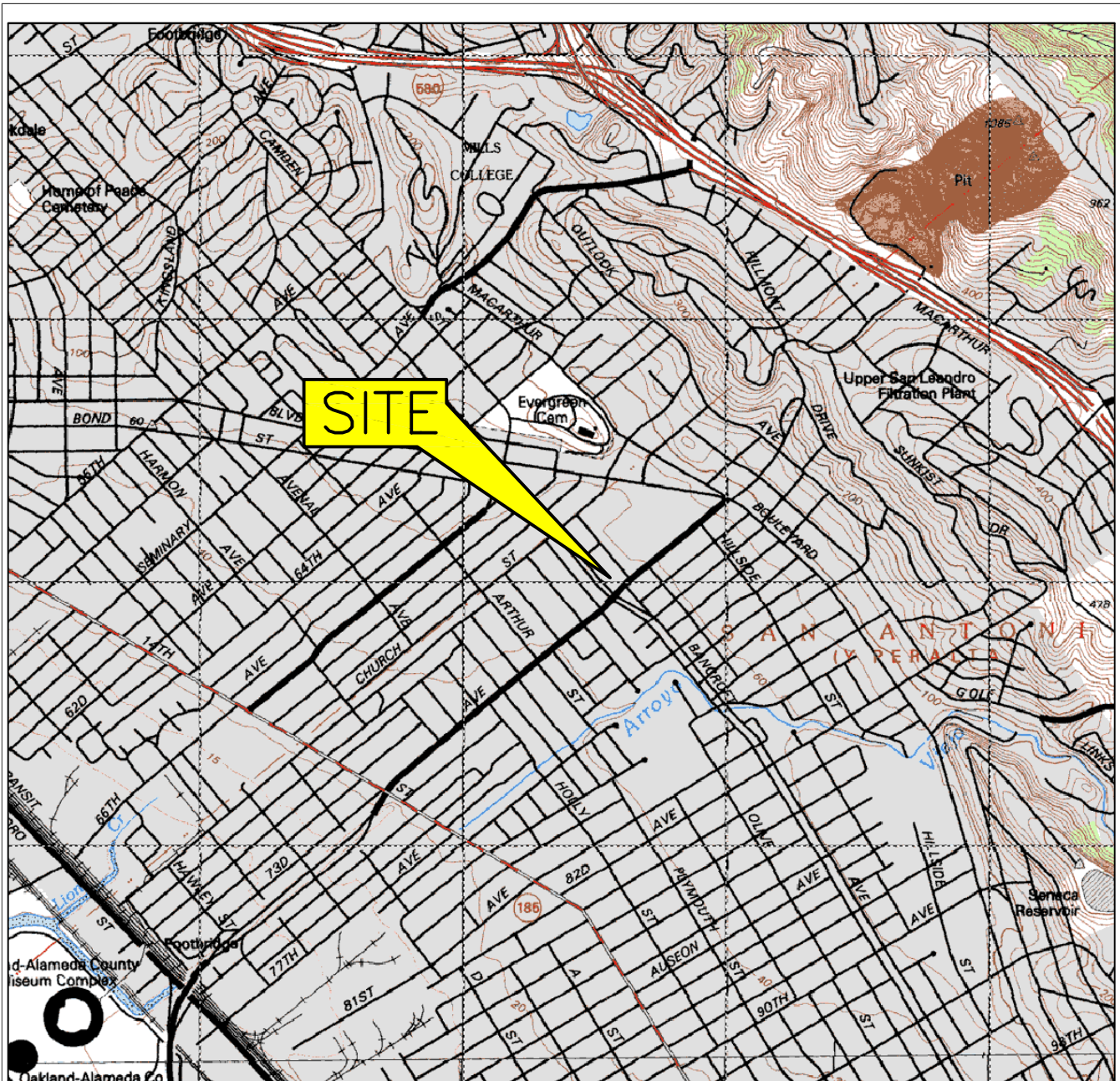
**Dennis S. Dettloff, P.G.**  
Senior Project Manager  
California Registered Professional Geologist No. 7480  
Antea Group



cc: Ms. Tiffany McClendon, One Eastmont Town Center, 7200 Bancroft Avenue, Oakland, CA 94605  
GeoTracker (upload)

## **Figures**

Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Groundwater Elevation Contour Map – August 14, 2013
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Figure 6	Dissolved Phase TPHg Isoconcentration Map – August 14, 2013
Figure 7	Dissolved Phase TPHg Isoconcentration Map – August 14, 2013



0 2000 FT



SCALE 1:24,000



QUADRANGLE LOCATION

GENERAL NOTES:  
 BASE MAP FROM USGS, 7.5 MINUTE  
 TOPOGRAPHIC OAKLAND, CA. PHOTO REVISED 1980

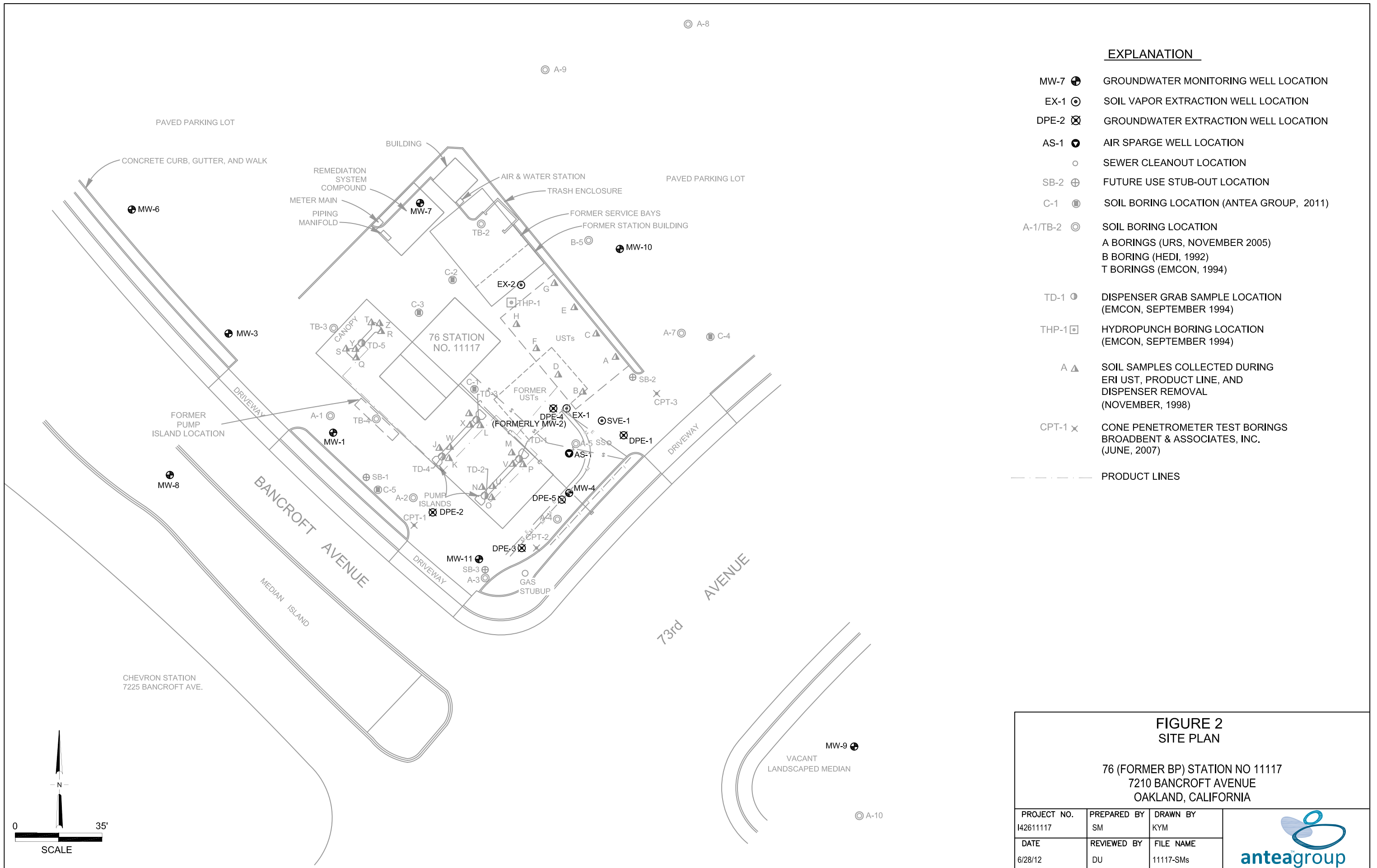
FIGURE 1  
 SITE LOCATION MAP

76 (FORMER BP) STATION NO 11117  
 7210 BANCROFT AVENUE  
 OAKLAND CALIFORNIA

PROJECT NO. 142611117	PREPARED BY DK	DRAWN BY JH
DATE 03/30/11	REVIEWED BY DU	FILE NAME 11117-TOP0







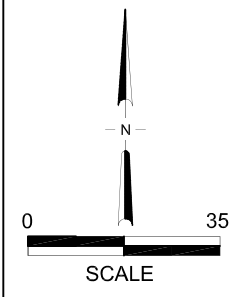
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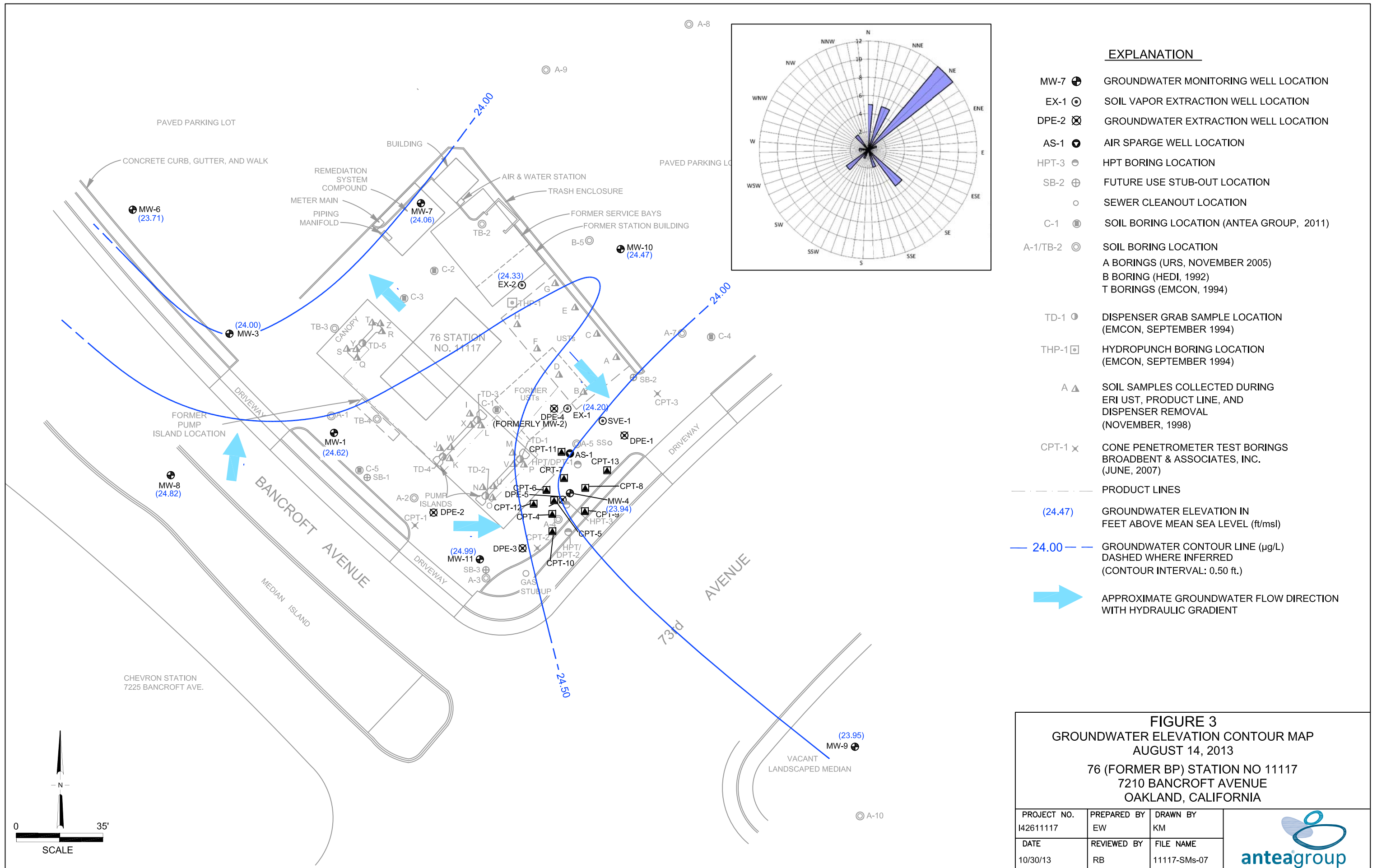
- MW-7 GROUNDWATER MONITORING WELL LOCATION
- EX-1 SOIL VAPOR EXTRACTION WELL LOCATION
- DPE-2 GROUNDWATER EXTRACTION WELL LOCATION
- AS-1 AIR SPARGE WELL LOCATION
- SEWER CLEANOUT LOCATION
- SB-2 FUTURE USE STUB-OUT LOCATION
- C-1 SOIL BORING LOCATION (ANTEA GROUP, 2011)
- A-1/TB-2 SOIL BORING LOCATION  
 A BORINGS (URS, NOVEMBER 2005)  
 B BORING (HEDI, 1992)  
 T BORINGS (EMCON, 1994)
- TD-1 DISPENSER GRAB SAMPLE LOCATION  
(EMCON, SEPTEMBER 1994)
- THP-1 HYDROPUNCH BORING LOCATION  
(EMCON, SEPTEMBER 1994)
- A SOIL SAMPLES COLLECTED DURING  
 ERI UST, PRODUCT LINE, AND  
 DISPENSER REMOVAL  
(NOVEMBER, 1998)
- CPT-1 CONE PENETROMETER TEST BORINGS  
 BROADBENT & ASSOCIATES, INC.  
 (JUNE, 2007)
- PRODUCT LINES

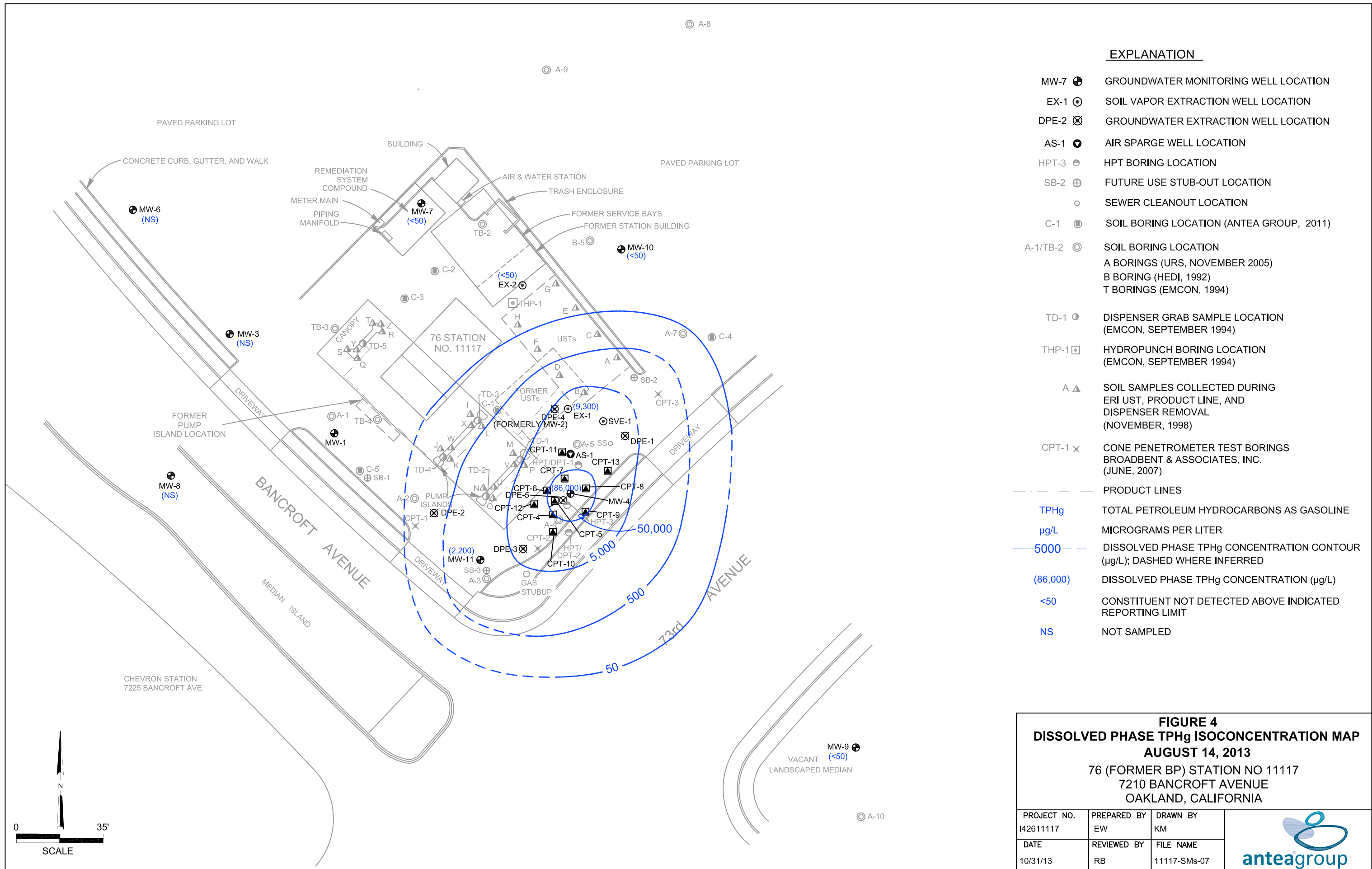
**FIGURE 2  
SITE PLAN**

76 (FORMER BP) STATION NO 11117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA

PROJECT NO. 142611117	PREPARED BY SM	DRAWN BY KYM
DATE 6/28/12	REVIEWED BY DU	FILE NAME 11117-SMs





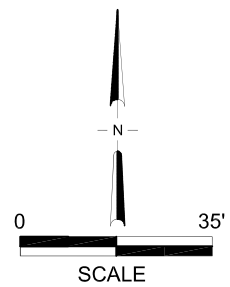


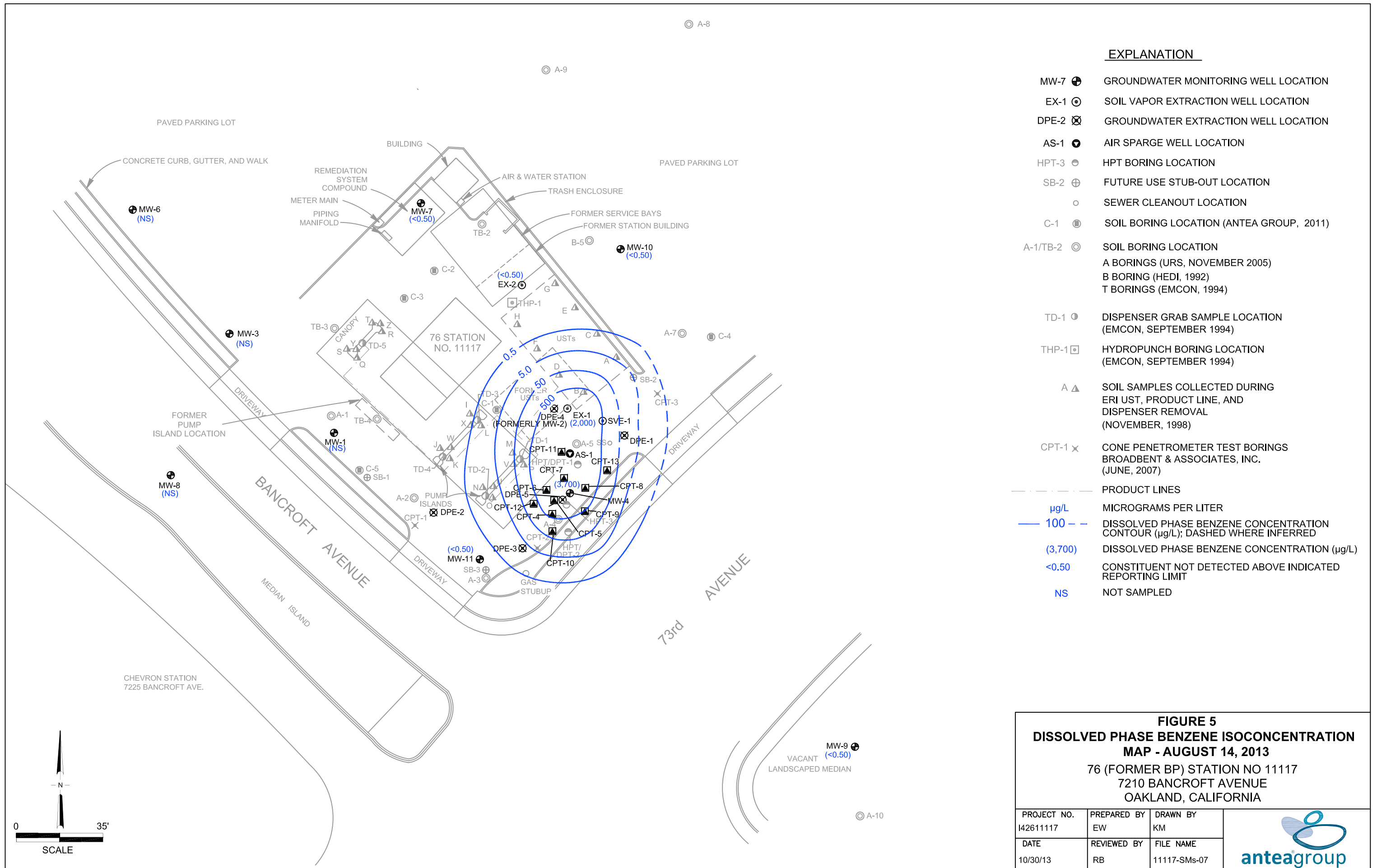
**EXPLANATION**

- MW-7 GROUNDWATER MONITORING WELL LOCATION
- EX-1 SOIL VAPOR EXTRACTION WELL LOCATION
- DPE-2 GROUNDWATER EXTRACTION WELL LOCATION
- AS-1 AIR SPARGE WELL LOCATION
- HPT-3 HPT BORING LOCATION
- SB-2 FUTURE USE STUB-OUT LOCATION
- SEWER CLEANOUT LOCATION
- C-1 SOIL BORING LOCATION (ANTEA GROUP, 2011)
- A-1/TB-2 SOIL BORING LOCATION  
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 B BORING (HEDI, 1992)  
 T BORINGS (EMCON, 1994)
- TD-1 DISPENSER GRAB SAMPLE LOCATION (EMCON, SEPTEMBER 1994)
- THP-1 HYDROPUNCH BORING LOCATION (EMCON, SEPTEMBER 1994)
- A SOIL SAMPLES COLLECTED DURING ERI UST, PRODUCT LINE, AND DISPENSER REMOVAL (NOVEMBER, 1998)
- CPT-1 CONE PENETROMETER TEST BORINGS BROADBENT & ASSOCIATES, INC. (JUNE, 2007)
- PRODUCT LINES
- TPHg TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- µg/L MICROGRAMS PER LITER
- 5000 DISSOLVED PHASE TPHg CONCENTRATION CONTOUR (µg/L); DASHED WHERE INFERRED
- (86,000) DISSOLVED PHASE TPHg CONCENTRATION (µg/L)
- <50 CONSTITUENT NOT DETECTED ABOVE INDICATED REPORTING LIMIT
- NS NOT SAMPLED

**FIGURE 4**  
**DISSOLVED PHASE TPHg ISOCONCENTRATION MAP**  
**AUGUST 14, 2013**  
 76 (FORMER BP) STATION NO 11117  
 7210 BANCROFT AVENUE  
 OAKLAND, CALIFORNIA

PROJECT NO. I42611117	PREPARED BY EW	DRAWN BY KM
DATE 10/31/13	REVIEWED BY RB	FILE NAME 11117-SMs-07



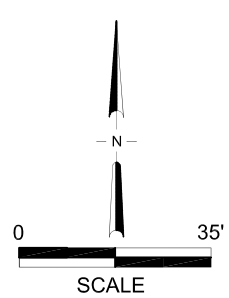


**EXPLANATION**

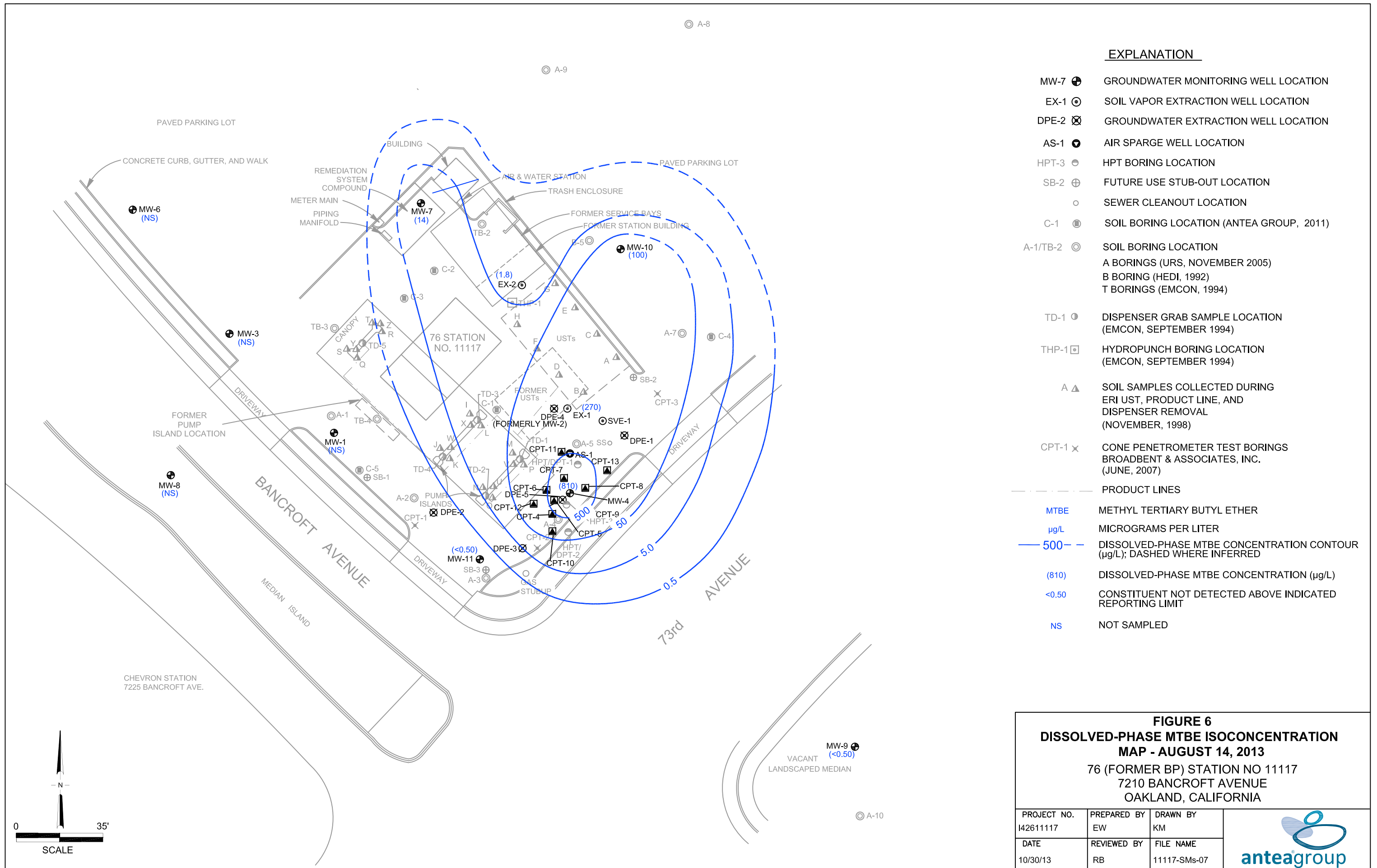
- MW-7 ● GROUNDWATER MONITORING WELL LOCATION
- EX-1 ○ SOIL VAPOR EXTRACTION WELL LOCATION
- DPE-2 ⊗ GROUNDWATER EXTRACTION WELL LOCATION
- AS-1 ● AIR SPARGE WELL LOCATION
- HPT-3 ● HPT BORING LOCATION
- SB-2 ⊕ FUTURE USE STUB-OUT LOCATION
- SEWER CLEANOUT LOCATION
- C-1 ● SOIL BORING LOCATION (ANTEA GROUP, 2011)
- A-1/TB-2 ● SOIL BORING LOCATION  
A BORINGS (URS, NOVEMBER 2005)  
B BORING (HEDI, 1992)  
T BORINGS (EMCON, 1994)
- TD-1 ● DISPENSER GRAB SAMPLE LOCATION  
(EMCON, SEPTEMBER 1994)
- THP-1 □ HYDROPUNCH BORING LOCATION  
(EMCON, SEPTEMBER 1994)
- A ▲ SOIL SAMPLES COLLECTED DURING  
ERI UST, PRODUCT LINE, AND  
DISPENSER REMOVAL  
(NOVEMBER, 1998)
- CPT-1 × CONE PENETROMETER TEST BORINGS  
BROADBENT & ASSOCIATES, INC.  
(JUNE, 2007)
- PRODUCT LINES
- µg/L MICROGRAMS PER LITER
- 100 — DISSOLVED PHASE BENZENE CONCENTRATION  
CONTOUR (µg/L); DASHED WHERE INFERRED
- (3,700) DISSOLVED PHASE BENZENE CONCENTRATION (µg/L)
- <0.50 CONSTITUENT NOT DETECTED ABOVE INDICATED  
REPORTING LIMIT
- NS NOT SAMPLED

**FIGURE 5**  
**DISSOLVED PHASE BENZENE ISOCONCENTRATION**  
**MAP - AUGUST 14, 2013**  
 76 (FORMER BP) STATION NO 11117  
 7210 BANCROFT AVENUE  
 OAKLAND, CALIFORNIA

PROJECT NO. I42611117	PREPARED BY EW	DRAWN BY KM
DATE 10/30/13	REVIEWED BY RB	FILE NAME 11117-SMs-07





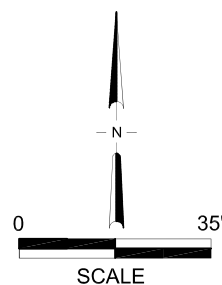


**EXPLANATION**

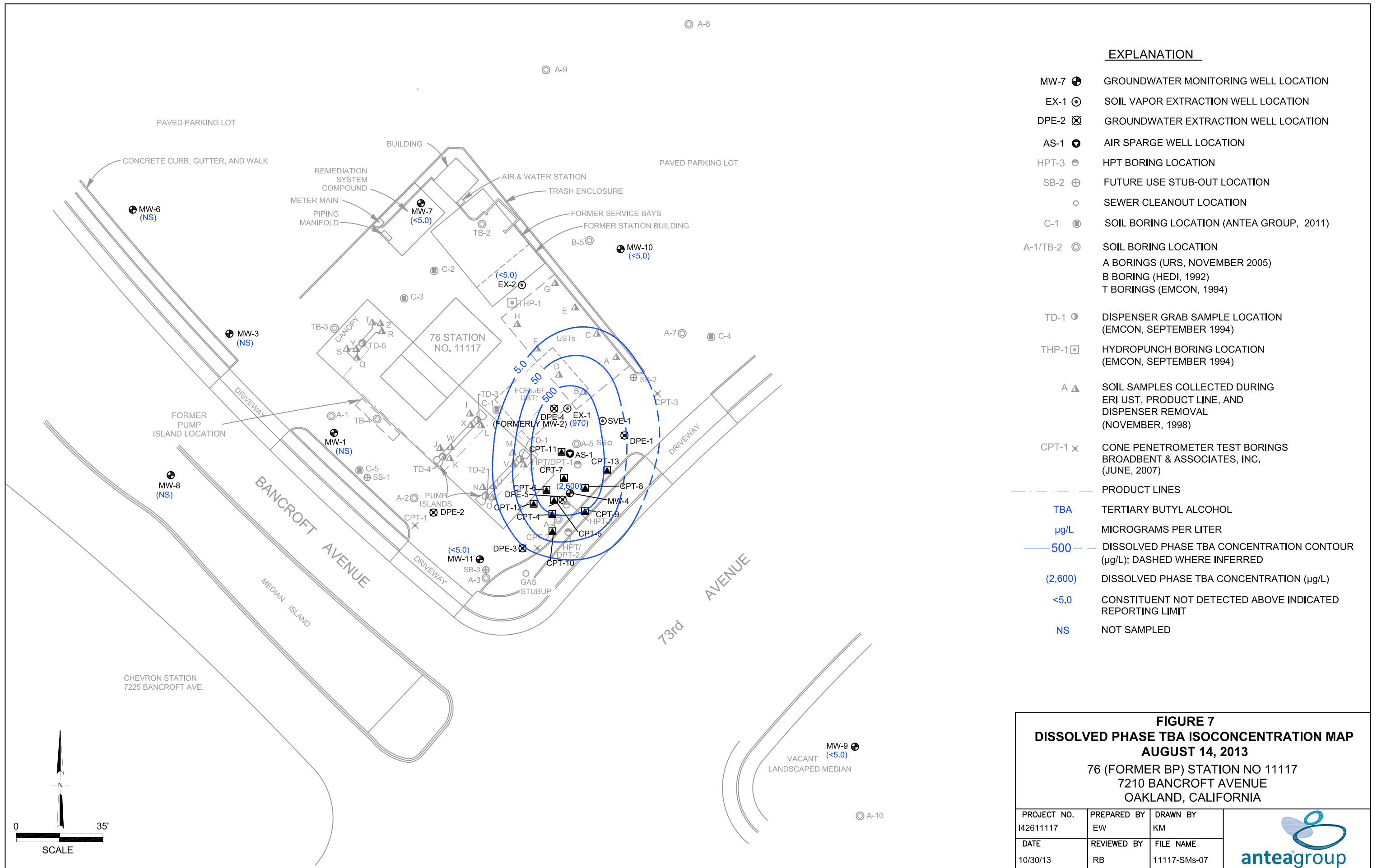
- MW-7 ● GROUNDWATER MONITORING WELL LOCATION
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- DPE-2 ⊗ GROUNDWATER EXTRACTION WELL LOCATION
- AS-1 ● AIR SPARGE WELL LOCATION
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- SB-2 ⊕ FUTURE USE STUB-OUT LOCATION
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- CPT-1 × CONE PENETROMETER TEST BORINGS BROADBENT & ASSOCIATES, INC. (JUNE, 2007)
- PRODUCT LINES
- MTBE METHYL TERTIARY BUTYL ETHER
- µg/L MICROGRAMS PER LITER
- 500 — DISSOLVED-PHASE MTBE CONCENTRATION CONTOUR (µg/L); DASHED WHERE INFERRED
- (810) DISSOLVED-PHASE MTBE CONCENTRATION (µg/L)
- <0.50 CONSTITUENT NOT DETECTED ABOVE INDICATED REPORTING LIMIT
- NS NOT SAMPLED

**FIGURE 6**  
**DISSOLVED-PHASE MTBE ISOCONCENTRATION**  
**MAP - AUGUST 14, 2013**  
 76 (FORMER BP) STATION NO 11117  
 7210 BANCROFT AVENUE  
 OAKLAND, CALIFORNIA

PROJECT NO. I42611117	PREPARED BY EW	DRAWN BY KM
DATE 10/30/13	REVIEWED BY RB	FILE NAME 11117-SMs-07







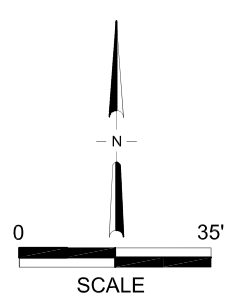
**EXPLANATION**

- MW-7 ● GROUNDWATER MONITORING WELL LOCATION
- EX-1 ○ SOIL VAPOR EXTRACTION WELL LOCATION
- DPE-2 ⊗ GROUNDWATER EXTRACTION WELL LOCATION
- AS-1 ● AIR SPARGE WELL LOCATION
- HPT-3 ○ HPT BORING LOCATION
- SB-2 ⊕ FUTURE USE STUB-OUT LOCATION
- SEWER CLEANOUT LOCATION
- C-1 ● SOIL BORING LOCATION (ANTEA GROUP, 2011)
- A-1/TB-2 ○ SOIL BORING LOCATION  
A BORINGS (URS, NOVEMBER 2005)  
B BORING (HEDI, 1992)  
T BORINGS (EMCON, 1994)
- TD-1 ● DISPENSER GRAB SAMPLE LOCATION  
(EMCON, SEPTEMBER 1994)
- THP-1 □ HYDROPUNCH BORING LOCATION  
(EMCON, SEPTEMBER 1994)
- A ▲ SOIL SAMPLES COLLECTED DURING  
ERI UST, PRODUCT LINE, AND  
DISPENSER REMOVAL  
(NOVEMBER, 1998)
- CPT-1 × CONE PENETROMETER TEST BORINGS  
BROADBENT & ASSOCIATES, INC.  
(JUNE, 2007)
- PRODUCT LINES
- TBA TERTIARY BUTYL ALCOHOL
- µg/L MICROGRAMS PER LITER
- 500— DISSOLVED PHASE TBA CONCENTRATION CONTOUR  
(µg/L); DASHED WHERE INFERRED
- (2,600) DISSOLVED PHASE TBA CONCENTRATION (µg/L)
- <5.0 CONSTITUENT NOT DETECTED ABOVE INDICATED  
REPORTING LIMIT
- NS NOT SAMPLED

**FIGURE 7**  
**DISSOLVED PHASE TBA ISOCONCENTRATION MAP**  
**AUGUST 14, 2013**

76 (FORMER BP) STATION NO 11117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA

PROJECT NO. I42611117	PREPARED BY EW	DRAWN BY KM	
DATE 10/30/13	REVIEWED BY RB	FILE NAME 11117-SMs-07	



## ***Tables***

Table 1	Soil Boring and Monitoring Well Construction Details
Table 2	Current Groundwater Gauging and Analytical Data
Table 3	Historical Groundwater Gauging and Analytical Data
Table 3a	Additional Historical Groundwater Analytical Data

**TABLE 1  
SOIL BORING AND MONITORING WELL CONSTRUCTION DETAILS  
76 (FORMER BP) STATION NO. 11117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA**

Updated 11/09/2011

Boring/Well ID	Well/Boring Completion Date	TOC Elevation <sup>1</sup> (ft)	Borehole Depth (ft bgs)	Borehole Diameter (in)	Well Depth (ft)	Well Casing Diameter (in)	Well Casing Material	Well Screen Slot Size (in)	Well Screen Interval (ft bgs)	Cement Grout Seal Interval (ft bgs)	Bentonite Seal Interval (ft bgs)	Filter Pack Interval (ft bgs)	Comments
<b>Soil Borings</b>													
B-5	Jul-92	NA	50.0	8.0	NA	NA	NA	NA	NA to NA	0.0 to 50.0	NA to NA	NA to NA	
THP-1	Sep-94	NA	45.0	1.75	NA	NA	NA	NA	NA to NA	0.0 to 45.0	NA to NA	NA to NA	
TB-2	Sep-94	NA	45.0	1.75	NA	NA	NA	NA	NA to NA	0.0 to 45.0	NA to NA	NA to NA	
TB-3	Sep-94	NA	45.0	1.75	NA	NA	NA	NA	NA to NA	0.0 to 45.0	NA to NA	NA to NA	
TB-4	Sep-94	NA	45.0	1.75	NA	NA	NA	NA	NA to NA	0.0 to 45.0	NA to NA	NA to NA	
A-1	Sep-05	NA	46.5	4.25	NA	NA	NA	NA	NA to NA	0.0 to 46.5	NA to NA	NA to NA	
A-2	Sep-05	NA	42.0	2.0	NA	NA	NA	NA	NA to NA	0.0 to 42.0	NA to NA	NA to NA	
A-3	Nov-05	NA	36.0	2.0	NA	NA	NA	NA	NA to NA	0.0 to 36.0	NA to NA	NA to NA	
A-4	Nov-05	NA	36.0	2.0	NA	NA	NA	NA	NA to NA	0.0 to 36.0	NA to NA	NA to NA	
A-5	Nov-05	NA	36.0	2.0	NA	NA	NA	NA	NA to NA	0.0 to 36.0	NA to NA	NA to NA	
A-7	Nov-05	NA	36.5	4.25	NA	NA	NA	NA	NA to NA	0.0 to 36.5	NA to NA	NA to NA	
A-8	Nov-05	NA	36.5	4.25	NA	NA	NA	NA	NA to NA	0.0 to 36.5	NA to NA	NA to NA	
A-9	Nov-05	NA	36.5	4.25	NA	NA	NA	NA	NA to NA	0.0 to 36.5	NA to NA	NA to NA	
A-10	Nov-05	NA	39.0	4.25	NA	NA	NA	NA	NA to NA	0.0 to 39.0	NA to NA	NA to NA	
CPT-1	Apr-07	NA	60.0	1.75	NA	NA	NA	NA	NA to NA	0.0 to 60.0	NA to NA	NA to NA	
CPT-2	Apr-07	NA	60.0	1.75	NA	NA	NA	NA	NA to NA	0.0 to 60.0	NA to NA	NA to NA	
CPT-3	Apr-07	NA	60.0	1.75	NA	NA	NA	NA	NA to NA	0.0 to 60.0	NA to NA	NA to NA	
C-1	Oct-11	NA	35.0	3.25	NA	NA	NA	NA	NA to NA	0.0 to 35.0	NA to NA	NA to NA	
C-2	Oct-11	NA	35.0	3.25	NA	NA	NA	NA	NA to NA	0.0 to 35.0	NA to NA	NA to NA	
C-3	Oct-11	NA	35.0	3.25	NA	NA	NA	NA	NA to NA	0.0 to 35.0	NA to NA	NA to NA	
C-4	Oct-11	NA	35.0	3.25	NA	NA	NA	NA	NA to NA	0.0 to 35.0	NA to NA	NA to NA	
C-5	Oct-11	NA	35.0	3.25	NA	NA	NA	NA	NA to NA	0.0 to 35.0	NA to NA	NA to NA	
<b>Groundwater Monitoring Wells</b>													
MW-1	Dec-91	43.14	40	8	40	2	PVC	0.02	20.0 to 40.0	0.0 to 17.0	17.0 to 18.0	18.0 to 40.0	
MW-2	Dec-91	51.07	40	8	40	2	PVC	0.02	20.0 to 40.0	0.0 to 17.0	17.0 to 18.0	18.0 to 40.0	Well destroyed November 17, 2007
MW-3	Dec-89	43.27	45	8	45	2	PVC	0.02	30.0 to 45.0	0.0 to 3.0	3.0 to 25.0	25.0 to 45.0	
MW-4	Jul-92	43.64	40	8	40	2	PVC	0.02	20.0 to 40.0	0.0 to 17.0	17.0 to 18.0	18.0 to 40.0	
MW-6	Jul-92	43.64	40	8	40	2	PVC	0.02	20.0 to 40.0	0.0 to 17.0	17.0 to 18.0	18.0 to 40.0	
MW-7	Oct-94	44.21	45	8	45	2	PVC	0.02	25.0 to 45.0	0.0 to 21.0	21.0 to 23.0	23.0 to 45.0	
MW-8	Oct-94	44.18	40	8	40	2	PVC	0.02	25.0 to 40.0	0.0 to 21.0	21.0 to 23.0	23.0 to 40.0	
MW-9	Oct-94	44.35	40	8	40	2	PVC	0.02	25.0 to 40.0	0.0 to 21.0	21.0 to 23.0	23.0 to 40.0	
MW-10	Jul-97	46.17	37.5	8	35	2	PVC	0.02	15.0 to 35.0	0.0 to 13.0	13.0 to 14.0	14.0 to 37.5	
MW-11	Nov-07	43.34	40	10	40	4	PVC	0.02	15.0 to 40.0	0.0 to 10.0	10.0 to 13.0	13.0 to 40.0	Graphic log indicates TD = 35 ft bgs

**TABLE 1**  
**SOIL BORING AND MONITORING WELL CONSTRUCTION DETAILS**  
**76 (FORMER BP) STATION NO. 11117**  
**7210 BANCROFT AVENUE**  
**OAKLAND, CALIFORNIA**

Updated 11/09/2011

Boring/Well ID	Well/Boring Completion Date	TOC Elevation <sup>1</sup> (ft)	Borehole Depth (ft bgs)	Borehole Diameter (in)	Well Depth (ft)	Well Casing Diameter (in)	Well Casing Material	Well Screen Slot Size (in)	Well Screen Interval (ft bgs)	Cement Grout Seal Interval (ft bgs)	Bentonite Seal Interval (ft bgs)	Filter Pack Interval (ft bgs)	Comments
<b>Remediation Wells</b>													
EX-1	Nov-99	44.20	39.5	10	40	4	PVC	0.02	18.0 to 38.0	0.0 to 15.0	15.0 to 16.0	16.0 to 39.5	
EX-2	Nov-99	45.33	36.5	10	40	4	PVC	0.02	15.0 to 35.0	0.0 to 13.0	13.0 to 13.0	13.0 to 36.5	
DPE-1	Nov-07	44.28	40	10	38	4	PVC	0.02	15.0 to 40.0	0.0 to 10.0	10.0 to 13.0	13.0 to 40.0	
DPE-2	Nov-07	43.03	40	10	40	4	PVC	0.02	15.0 to 40.0	0.0 to 10.0	10.0 to 13.0	13.0 to 40.0	
DPE-3	Nov-07	43.27	40	10	40	4	PVC	0.02	13.0 to 38.0	0.0 to 8.0	8.0 to 11.0	11.0 to 40.0	
DPE-4	Nov-07	44.08	45	10	38	4	PVC	0.01	15.0 to 40.0	0.0 to 10.0	10.0 to 13.0	13.0 to 45.0	Installed in same borehole as destroyed well MW-2
DPE-5	Nov-07	44.60	40	10	35	4	PVC	0.01	15.0 to 40.0	0.0 to 10.0	10.0 to 13.0	13.0 to 40.0	Log indicates Screen Interval at 15-38 ft bgs
SVE-1	Oct-11	44.78	22	10	22	4	PVC	0.02	10.0 to 22.0	0.0 to 6.0	6.0 to 8.0	8.0 to 22.0	
AS-1	Oct-11	44.64	35	3.25	35	0.25/2.0	Teflon/SS	NA	33.5 to 34.0	0.0 to 31.5	31.5 to 32.5	32.5 to 35.0	

Notes:

- ft = feet
- in = inches
- TOC = Top of Casing
- bgs = below ground surface
- NA = not applicable
- PVC = polyvinyl chloride
- SS = stainless steel
- B and C = soil boring
- A = hydropunch boring
- CPT = cone penetrometer boring
- MW = monitoring well
- EX = extraction well
- DPE = extraction well
- AS=air sparge well
- SVE=soil vapor extraction well

<sup>1</sup> = TOC Elevations were surveyed to a local datum on the following dates:

MW-2 -- January 1, 1992 by HETI

MW-1, MW-3 through MW-11, EX-1, EX-2, DPE-1 through DPE-5, AS-1, and SVE-1 -- October 24, 2011 by Mid Coast Engineers

**TABLE 2**  
**CURRENT GROUNDWATER GAUGING AND ANALYTICAL DATA**  
**76 (FORMERLY BP) STATION NO. 111117**  
**7210 BANCROFT AVENUE**  
**OAKLAND, CALIFORNIA**



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA												
		TOC Elevation (ft amsl)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Water Elevation* (ft amsl)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (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)
EX-1	8/14/2013	44.20	20.00	NP	24.20	<b>9,300</b>	<b>2,000</b>	<b>120</b>	<b>420</b>	<b>560</b>	<b>270</b>	<3.0	<3.0	<b>10</b>	<b>970</b>	<30	<3.0	<3.0
EX-2	8/14/2013	45.33	21.00	NP	24.33	<50	<0.50	<0.50	<0.50	<0.50	<b>1.8</b>	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50
MW-1	8/14/2013	43.14	18.52	NP	24.62	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/14/2013	43.27	19.27	NP	24.00	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/14/2013	43.64	19.70	NP	23.94	<b>86,000</b>	<b>3,700</b>	<b>180</b>	<b>4,500</b>	<b>10,000</b>	<b>810</b>	<15	<15	<15	<b>2,600</b>	<150	<15	<15
MW-6	8/14/2013	43.64	19.93	NP	23.71	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/14/2013	44.21	20.15	NP	24.06	<50	<0.50	<0.50	<0.50	<0.50	<b>14</b>	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50
MW-8	8/14/2013	44.18	19.36	NP	24.82	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	8/14/2013	44.35	20.40	NP	23.95	<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
MW-10	8/14/2013	46.17	21.70	NP	24.47	<50	<0.50	<0.50	<0.50	<0.50	<b>100</b>	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50
MW-11	8/14/2013	43.34	18.35	NP	24.99	<b>2,200</b>	<0.50	<b>3.4</b>	<b>68</b>	<b>61</b>	<0.50	<0.50	<0.50	<0.50	<5.0	<20	<0.50	<0.50
TB1	8/14/2013	--	--	--	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50

**Gauging Notes:**

TOC - Top of Casing  
Well Screen Interval - Top of Screen to Bottom of Screen  
ft - Feet  
NP - LNAPL not present  
\* - Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.75)  
-- - No information available  
ft bgs - Feet below ground surface  
ft amsl - Feet above mean sea level  
ft btoc - Feet below top of casing  
FD - Field Duplicate  
TB - Trip Blank

**Analytical Notes:**

< - Below the laboratory's indicated reporting limit  
µg/L - micrograms/liter  
TPHg - Total petroleum hydrocarbons as gasoline  
MTBE - Methyl tert-butyl ether  
DIPE - Di-isopropyl ether  
ETBE - Ethyl tert-butyl ether  
TAME - Tert-amyl methyl ether  
TBA - Tert-butyl alcohol  
**Bold** - Above the laboratory's indicated reporting limit

TABLE 3  
GROUND WATER GAUGING AND ANALYTICAL DATA  
76 (FORMERLY BP) STATION NO. 111117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft amsl)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Water Elevation* (ft amsl)	DRO (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (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)	
DPE-1	12/14/2007	38.95	21.62	NP	17.33	--	360	24	<0.5	3.4	<0.5	--	<0.5	3.4	<0.5	1300	<300	<0.5	<0.5	
	2/12/2008	38.95	16.13	NP	22.82	--	4700	2000	310	130	360	--	<10	<10	<10	3900	<2000	<10	<10	
	5/22/2008	38.95	18.03	NP	20.92	--	16000	3900	94	510	1700	--	<40	<40	<40	4400	<24000	<40	<40	
	8/25/2008	38.95	20.95	NP	18.00	--	1300	250	<20	<20	<20	--	<20	<20	<20	4000	<12000	<20	<20	
	12/17/2008	38.95	22.33	NP	16.62	--	480	<5	<5	<5	<5	--	<5	<5	<5	1200	<3000	<5	<5	
	2/25/2009	38.95	18.15	NP	20.80	--	1100	170	<10	<10	<10	<10	--	--	--	--	--	--	--	--
8/15/2011	38.95	16.46	NP	22.49	--	571	16.4	5.4	6.3	12.0	1.1	<0.50	<0.50	<0.50	140	<250	<1.0	<1.0		
DPE-2	12/14/2007	37.64	20.09	NP	17.55	--	2500	1.2	0.99	12	32	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5	
	2/12/2008	37.64	14.35	NP	23.29	--	1100	9.1	9.3	33	91	--	<0.5	<0.5	<0.5	<10	<100	<0.5	<0.5	
	5/22/2008	37.64	16.60	NP	21.04	--	1000	1.2	3.7	11	18	--	<0.5	<0.5	<0.5	<10	<300	<0.5	<0.5	
	8/25/2008	37.64	19.47	NP	18.17	--	780	0.52	<0.5	7.1	<0.50	--	<0.5	<0.5	<0.5	<10	<300	<0.5	<0.5	
	12/17/2008	37.64	21.35	NP	16.29	--	21000	230	180	630	1900	--	<10	<10	<10	<200	<6000	<10	<10	
	2/25/2009	37.64	16.60	NP	21.04	--	16000	170	180	580	1500	<10	--	--	--	--	--	--	--	--
8/15/2011	37.64	15.29	NP	22.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
DPE-3	12/14/2007	37.82	20.45	NP	17.37	--	1300	1800	840	830	1200	--	<25	<25	<25	1700	<15000	<25	<25	
	2/12/2008	37.82	14.88	NP	22.94	--	50	31	55	140	300	--	<5	<5	<5	<100	<1000	<5	<5	
	5/22/2008	37.82	16.92	NP	20.90	50000	800	950	160	890	330	--	<20	<20	<20	<400	<12000	<20	<20	
	8/25/2008	37.82	19.77	NP	18.05	--	3900	8.5	21	91	260	--	<2.5	<2.5	<2.5	<50	<1500	<2.5	<2.5	
	12/17/2008	37.82	21.61	NP	16.21	1200	24000	410	210	980	2900	--	<20	<20	<20	<400	<12000	<20	<20	
	2/25/2009	37.82	17.18	NP	20.64	1100	4400	22	12	130	150	<2.5	--	--	--	--	--	--	--	--
8/15/2011	37.82	15.59	NP	22.23	580	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
DPE-4	12/14/2007	38.46	21.00	NP	17.46	100	51000	12000	27000	4900	27000	--	<500	<500	<500	<20000	<300000	<500	<500	
	2/12/2008	38.46	15.43	NP	23.03	770	100000	6600	21000	3800	22000	--	<50	<50	55	<1000	<10000	<50	<50	
	5/22/2008	38.46	17.38	NP	21.08	--	130000	9700	26000	5000	28000	--	<400	<400	<400	<8000	<240000	<400	<400	
	8/25/2008	38.46	20.36	NP	18.10	--	190000	9100	19000	4100	22000	--	<400	<400	<400	<8000	<240000	<400	<400	
	12/17/2008	38.46	21.89	NP	16.57	--	160000	10000	20000	4500	22000	--	<400	<400	<400	<8000	<240000	<400	<400	
	2/25/2009	38.46	17.59	NP	20.87	--	130000	9900	21000	4600	22000	4500	--	--	--	--	--	--	--	--
8/15/2011	38.46	16.15	NP	22.31	--	57600	5920	7240	3830	12100	5560	<0.50	12.2	132	6920	<250	<1.0	<1.0		
DPE-5	12/14/2007	38.23	20.86	NP	17.37	--	300000	9200	4100	4600	20000	--	<500	<500	<500	<20000	<300000	<500	<500	
	2/12/2008	38.23	15.20	NP	23.03	--	63000	5600	2200	3400	12000	--	<50	<50	<50	2000	<10000	<50	<50	
	5/22/2008	38.23	17.37	NP	20.86	--	34000	6800	620	2600	6000	--	<200	<200	<200	4500	<120000	<200	<200	
	8/25/2008	38.23	21.80	NP	16.43	--	40000	5200	940	2100	5400	--	<100	<100	<100	5100	<60000	<100	<100	
	12/17/2008	38.23	21.96	NP	16.27	--	33000	4800	130	1700	2500	--	<100	<100	<100	6100	<60000	<100	<100	
	2/25/2009	38.23	17.47	NP	20.76	--	50000	6600	590	2300	6100	3100	--	--	--	--	--	--	--	--
8/15/2011	38.23	15.96	NP	22.27	--	15900	2420	127	1340	1650	773	<0.50	1.2	10.0	2510	<250	<1.0	<1.0		
EX-1	5/4/2004	44.20	16.29	NP	27.91	--	12000	2300	430	740	1100	--	<25	<25	38	<1000	<5000	<25	<25	
	8/31/2004	44.20	19.39	NP	24.81	--	13000	2500	95	650	1500	--	<50	<50	<50	<2000	<10000	<50	<50	
	11/23/2004	44.20	17.90	NP	26.30	--	13000	2700	94	460	1700	--	<25	<25	74	<1000	<5000	<25	<25	
	1/18/2005	44.20	14.20	NP	30.00	--	16000	2100	390	570	2500	--	<25	<25	54	<1000	<5000	<25	<25	
	6/29/2005	44.20	14.22	NP	29.98	--	6400	1100	52	280	790	--	<25	<25	30	<1000	<5000	<25	<25	
	9/1/2005	44.20	17.22	NP	26.98	--	7900	2000	94	400	870	--	<25	<25	46	<1000	<5000	<25	<25	
	11/3/2005	44.20	19.92	NP	24.28	--	22000	3200	640	550	3300	--	<25	<25	87	<1000	<5000	<25	<25	
	2/14/2006	44.20	15.40	NP	28.80	--	3500	<25	<25	<25	74	--	<25	<25	<25	<1000	<15000	<25	<25	
	5/30/2006	44.20	13.43	NP	30.77	--	8600	1400	120	490	1300	--	<25	<25	37	<1000	<15000	<25	<25	
	8/29/2006	44.20	17.74	NP	26.46	--	22000	2900	210	1400	3600	--	<25	<25	56	<1000	<15000	<25	<25	
	11/29/2006	44.20	20.25	NP	23.95	--	15000	4000	110	770	2700	--	<50	<50	75	<2000	<30000	<50	<50	
	2/20/2007	44.20	16.75	NP	27.45	--	10000	2500	<50	550	1300	--	<50	<50	<50	<2000	<30000	<50	<50	
	5/25/2007	44.20	17.04	NP	27.16	--	8600	2100	88	700	1400	--	<50	<50	<50	<2000	<30000	<50	<50	
	8/9/2007	44.20	19.76	NP	24.44	--	4800	870	40	230	460	--	<10	<10	15	440	<6000	<10	<10	
	11/9/2007	44.20	21.57	NP	22.63	--	5300	2700	29	220	200	--	<25	<25	<25	1900	<15000	<25	<25	
	12/14/2007	38.98	21.60	NP	17.38	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/12/2008	38.98	15.92	NP	23.06	--	19000	2500	<50	360	860	320	<50	<50	<50	2200	<10000	<50	<50	
	5/22/2008	38.98	17.85	NP	21.13	--	9300	1600	<50	310	1100	970	<50	<50	<50	<1000	<30000	<50	<50	
	8/25/2008	38.98	20.71	NP	18.27	--	6100	1100	29	360	370	430	<25	<25	<25	830	<15000	<25	<25	
	12/17/2008	38.98	22.20	NP	16.78	--	11000	1400	47	720	360	690	<25	<25	<25	980	<15000	<25	<25	
2/25/2009	38.98	18.01	NP	20.97	--	3300	880	110	190	120	440	--	--	--	--	--	--	--	--	
5/21/2009	38.98	17.10	NP	21.88	--	5000	2100	100	350	89	570	--	--	--	--	--	--	--	--	

TABLE 3  
GROUND WATER GAUGING AND ANALYTICAL DATA  
76 (FORMERLY BP) STATION NO. 111117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft amsl)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Water Elevation* (ft amsl)	DRO (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (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)	
EX-1	8/14/2009	38.98	20.55	NP	18.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	2/10/2010	38.98	15.61	NP	23.37	--	4040	308	488	393	975	133	<0.50	<0.50	<0.50	43.7	<250	<1.0	<1.0	
	8/20/2010	38.98	17.44	NP	21.54	--	14600	1090	1610	1030	3360	267	<0.50	0.78	8.9	275	<250	<1.0	<1.0	
	2/7/2011	38.98	15.20	NP	23.78	--	15900	642	1100	846	2500	364	<0.50	0.78	9.3	151	<250	<1.0	<1.0	
	8/15/2011	38.98	16.21	NP	22.77	--	1470	470	516	472	1270	54.2	<5.0	<5.0	17.8	188	<2500	<10.0	13.3	
	2/20/2012	44.20	18.27	NP	25.93	--	10300	1810	586	350	712	312	<2.5	<2.5	12.9	481	<1250	<5.0	44.1	
	8/31/2012	44.20	19.55	NP	24.65	--	5100	1600	40	53	150	59	<3.0	<3.0	<3.0	1100	<30	<3.0	<3.0	
	9/27/2012	44.20	19.62	NP	24.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/5/2013	44.20	16.50	NP	27.70	--	9200	1900	170	250	720	500	<3.0	3.1	19	1100	<30	<3.0	<3.0	
8/14/2013	44.20	20.00	NP	24.20	--	9,300	2,000	120	420	560	270	<3.0	<3.0	10	970	<30	<3.0	<3.0		
EX-2	5/4/2004	45.33	16.65	NP	28.68	--	<50	0.63	<0.5	<0.5	0.66	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5	
	8/31/2004	45.33	19.90	NP	25.43	--	<250	<2.5	<2.5	<2.5	<2.5	--	<2.5	<2.5	3.4	<100	<500	<2.5	<2.5	
	11/23/2004	45.33	18.36	NP	26.97	--	<50	0.74	<0.5	0.83	3	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5	
	1/18/2005	45.33	14.67	NP	30.66	--	<50	<0.5	<0.5	<0.5	0.69	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5	
	6/29/2005	45.33	14.60	NP	30.73	--	<50	<0.5	<0.5	<0.5	0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5	
	9/1/2005	45.33	17.28	NP	28.05	--	<50	<0.5	1.4	<0.5	1.4	--	<0.5	<0.5	0.56	<20	<100	<0.5	<0.5	
	11/3/2005	45.33	20.42	NP	24.91	--	<50	0.5	<0.5	<0.5	1.4	--	<0.5	<0.5	0.8	<20	<100	<0.5	<0.5	
	2/14/2006	45.33	14.54	NP	30.79	--	220	<0.5	3.2	7.5	33	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5	
	5/30/2006	45.33	13.35	NP	31.98	--	<50	<0.5	<0.5	<0.5	0.7	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5	
	8/29/2006	45.33	17.92	NP	27.41	--	66	0.67	<0.5	0.79	1.9	--	<0.5	<0.5	0.98	<20	<300	<0.5	<0.5	
	11/29/2006	45.33	20.63	NP	24.70	--	3200	<50	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5	
	2/20/2007	45.33	17.58	NP	27.75	--	1600	<50	<0.5	<0.5	2	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5	
	5/25/2007	45.33	17.23	0.01	28.11	--	8400	<50	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5	
	8/9/2007	45.33	20.40	NP	24.93	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5	
	11/9/2007	45.33	22.07	NP	23.26	--	120	<0.5	0.53	0.57	2.7	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5	
	12/14/2007	39.63	21.97	NP	17.66	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/12/2008	39.63	16.73	NP	22.90	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<100	<0.5	<0.5	
	5/22/2008	39.63	18.09	NP	21.54	--	<50	<0.5	2.4	0.95	5.5	0.54	<0.5	<0.5	<0.5	<10	<300	<0.5	<0.5	
	8/25/2008	39.63	21.51	NP	18.12	--	<50	<0.5	<0.5	<0.5	<0.5	1	<0.5	<0.5	<0.5	<10	<300	<0.5	<0.5	
	12/17/2008	39.63	NG	NG	NG	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/25/2009	39.63	16.79	NP	22.84	--	<50	<0.50	<0.50	<0.50	<0.50	0.58	--	--	--	--	--	--	--	--
	5/21/2009	39.63	18.56	NP	21.07	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	--	--
	8/14/2009	39.63	21.00	NP	18.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/2010	39.63	16.11	NP	23.52	--	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	8/20/2010	39.63	17.20	NP	22.43	--	<50.0	<0.50	<0.50	<0.50	<1.5	26.1	<0.50	<0.50	<0.50	5.6	<250	<1.0	<1.0	
	2/7/2011	39.63	15.59	NP	24.04	--	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	8/15/2011	39.63	16.39	NP	23.24	--	<50.0	<0.50	<0.50	<0.50	<1.5	3.6	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	2/20/2012	45.33	19.10	NP	26.23	--	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	8/31/2012	45.33	19.99	NP	25.34	--	<50	<0.50	<0.50	<0.50	<0.50	6.3	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	
	9/27/2012	45.33	20.60	NP	24.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/5/2013	45.33	16.53	NP	28.80	--	<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	
	8/14/2013	45.33	21.00	NP	24.33	--	<50	<0.50	<0.50	<0.50	<0.50	1.8	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	
MW-1	1/5/1992	49.80	33.16	NP	16.64	--	57000	2400	1000	1100	3100	--	--	--	--	--	--	--	--	
	1/10/1992	49.80	33.16	NP	16.64	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/5/1992	49.80	29.01	NP	20.79	--	31000	2800	2100	800	2300	--	--	--	--	--	--	--	--	
	7/24/1992	49.80	29.45	NP	20.35	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	7/27/1992	49.80	29.45	NP	20.35	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/15/1992	49.80	30.53	NP	19.27	--	40000	3400	3000	1300	3400	--	--	--	--	--	--	--	--	
	12/15/1992	49.80	31.26	NP	18.54	--	27000	1700	580	700	1900	--	--	--	--	--	--	--	--	
	3/15/1993	49.80	24.80	NP	25.00	--	17000	1700	1200	590	1800	--	--	--	--	--	--	--	--	
	6/7/1993	49.80	25.01	NP	24.79	--	750	0.8	0.8	<0.5	<0.5	--	--	--	--	--	--	--	--	
	9/23/1993	49.80	28.70	NP	21.10	--	40000	4000	500	920	3000	--	--	--	--	--	--	--	--	
	12/27/1993	49.80	28.66	NP	21.14	--	27000	2000	400	940	2600	--	--	--	--	--	--	--	--	
	4/5/1994	49.80	26.37	NP	23.43	--	27000	3400	930	950	2900	--	--	--	--	--	--	--	--	
	7/22/1994	49.80	26.54	NP	23.26	--	1700	220	2.3	2	3.4	--	--	--	--	--	--	--	--	
	10/13/1994	49.80	27.46	NP	22.34	--	1200	250	21	<0.5	3.2	--	--	--	--	--	--	--	--	
1/25/1995	49.80	20.96	NP	28.84	--	1000	420	8	13	4	--	--	--	--	--	--	--	--		

TABLE 3  
GROUND WATER GAUGING AND ANALYTICAL DATA  
76 (FORMERLY BP) STATION NO. 111117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft amsl)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Water Elevation* (ft amsl)	DRO (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (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	4/19/1995	49.80	19.59	NP	30.21	--	5200	420	51	230	340	--	--	--	--	--	--	--	--
	7/5/1995	49.80	19.61	NP	30.19	--	320	4.2	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	10/5/1995	49.80	24.40	NP	25.40	--	5800	1000	40	31	180	--	--	--	--	--	--	--	--
	1/12/1996	49.80	25.44	NP	24.36	--	370	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	4/22/1996	49.80	18.02	NP	31.78	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/2/1996	49.80	19.72	NP	30.08	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/3/1996	49.80	NG	NG	NG	--	<250	<2.5	<5	<5	<5	--	--	--	--	--	--	--	--
	11/8/1996	49.80	19.98	NP	29.82	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	1/3/1997	49.80	19.49	NP	30.31	--	<50	<0.5	14	<1	<1	--	--	--	--	--	--	--	--
	4/28/1997	49.80	20.20	NP	29.60	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/1/1997	49.80	22.53	NP	27.27	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	10/2/1997	49.80	24.27	NP	25.53	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	1/9/1998	49.80	21.07	NP	28.73	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	5/6/1998	49.80	14.94	NP	34.86	4000	60	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/21/1998	49.80	15.11	NP	34.69	--	70	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	12/30/1998	49.80	19.95	NP	29.85	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/2/1999	49.80	19.12	NP	30.68	710	420	<1	<1	<1	<1	--	--	--	--	--	--	--	--
	5/10/1999	49.80	15.51	NP	34.29	60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/23/1999	49.80	21.65	NP	28.15	<50	440	49	<1	<1	<1	--	--	--	--	--	--	--	--
	12/23/1999	49.80	22.32	NP	27.48	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/2000	49.80	15.72	NP	34.08	--	2500	230	3	83	36	--	--	--	--	--	--	--	--
	5/22/2000	49.80	16.92	NP	32.88	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/31/2000	49.80	20.12	NP	29.68	--	1700	18	5.5	7.9	5	--	--	--	--	--	--	--	--
	12/11/2000	49.80	20.72	NP	29.08	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/20/2001	49.80	15.91	NP	33.89	--	880	38.2	<0.5	24.1	<1.5	--	--	--	--	--	--	--	--
	6/19/2001	49.80	18.38	NP	31.42	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/20/2001	49.80	21.23	NP	28.57	--	3200	400	19.8	42	32.5	--	--	--	--	--	--	--	--
	12/27/2001	49.80	16.72	NP	33.08	--	750	70.1	0.536	4.74	3.76	--	--	--	--	--	--	--	--
	2/28/2002	49.80	15.25	NP	34.55	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	6/28/2002	49.80	16.57	NP	33.23	--	110	0.977	<0.5	0.818	<1	--	--	--	--	--	--	--	--
	9/12/2002	49.80	18.41	NP	31.39	--	98	2.7	1.5	1.5	5.4	--	--	--	--	--	--	--	--
	12/12/2002	49.80	20.26	NP	29.54	--	210	1.9	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	3/10/2003	49.80	16.22	NP	33.58	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	5/12/2003	49.80	14.30	NP	35.50	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	8/27/2003	49.80	18.15	NP	31.65	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	--	--
	11/10/2003	49.80	19.24	NP	30.56	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	--	--
	2/3/2004	49.80	14.84	NP	34.96	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	5/4/2004	49.80	14.67	NP	35.13	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	8/31/2004	49.80	17.75	NP	32.05	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	11/23/2004	49.80	16.03	NP	33.77	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1/18/2005	49.80	12.47	NP	37.33	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5	
6/29/2005	49.80	12.65	NP	37.15	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
9/1/2005	49.80	15.79	NP	34.01	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
11/3/2005	49.80	18.55	NP	31.25	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2/14/2006	49.80	12.29	NP	37.51	--	51	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5	
5/30/2006	49.80	12.15	NP	37.65	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8/29/2006	49.80	16.37	NP	33.43	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
11/29/2006	49.80	18.73	NP	31.07	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2/20/2007	49.80	14.71	NP	35.09	--	110	<0.5	<0.5	0.58	<0.5	--	--	--	--	--	--	--	--	
5/25/2007	49.80	15.59	NP	34.21	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8/9/2007	49.80	18.38	NP	31.42	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
11/9/2007	49.80	20.00	NP	29.80	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12/14/2007	37.41	19.83	NP	17.58	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2/12/2008	37.41	14.00	NP	23.41	--	100	<0.5	<0.5	0.55	<0.5	--	--	--	--	--	--	--	--	
5/22/2008	37.41	16.31	NP	21.10	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8/25/2008	37.41	19.20	NP	18.21	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12/17/2008	37.41	NG	NG	NG	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	



TABLE 3  
GROUND WATER GAUGING AND ANALYTICAL DATA  
76 (FORMERLY BP) STATION NO. 111117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft amsl)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Water Elevation* (ft amsl)	DRO (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (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	2/25/2009	37.41	16.30	NP	21.11	--	370	<0.50	<0.50	0.79	<0.50	<0.50	--	--	--	--	--	--	--
	5/21/2009	37.41	15.97	NP	21.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/14/2009	37.41	19.30	NP	18.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/2010	37.41	14.37	NP	23.04	--	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
	8/20/2010	37.41	15.72	NP	21.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/7/2011	37.41	14.02	NP	23.39	1700	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
	8/15/2011	37.41	15.40	NP	22.01	2200	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/20/2012	43.14	17.10	NP	26.04	1200	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
	6/27/2012	43.14	15.73	NP	27.41	2500	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/31/2012	43.14	18.23	NP	24.91	5700	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/5/2013	43.14	14.71	NP	28.43	--	<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
8/14/2013	43.14	18.52	NP	24.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	1/5/1992	49.95	NG	NG	NG	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/10/1992	49.95	NG	NG	NG	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/5/1992	49.95	30.05	NP	19.90	--	11000	2000	180	490	1900	--	--	--	--	--	--	--	--
	7/24/1992	49.95	30.72	NP	19.23	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/27/1992	49.95	30.52	NP	19.43	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/15/1992	49.95	31.56	NP	18.39	--	75000	2000	6500	2300	13000	--	--	--	--	--	--	--	--
	12/15/1992	49.95	32.40	NP	17.55	--	34000	6200	8900	2000	7900	--	--	--	--	--	--	--	--
	3/15/1993	49.95	26.14	NP	23.81	--	150000	12000	18000	3200	22000	--	--	--	--	--	--	--	--
	6/7/1993	49.95	26.38	NP	23.57	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/23/1993	49.95	31.43	1.92	19.96	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/27/1993	49.95	34.07	1.07	16.68	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/5/1994	49.95	30.44	3.30	21.99	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/22/1994	49.95	28.51	0.80	22.04	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/13/1994	49.95	29.33	0.70	21.15	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/25/1995	49.95	25.55	4.25	27.59	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/19/1995	49.95	19.78	0.12	30.26	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/5/1995	49.95	20.88	0.09	29.14	--	140000	14000	30000	3500	26000	--	--	--	--	--	--	--	--
	10/5/1995	49.95	24.68	0.10	25.35	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/12/1996	49.95	25.72	0.06	24.28	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/22/1996	49.95	19.33	0.08	30.68	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/2/1996	49.95	20.01	0.04	29.97	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/8/1996	49.95	20.28	0.01	29.68	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/3/1997	49.95	19.87	0.02	30.10	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/28/1997	49.95	20.59	0.01	29.37	--	560000	1200	1300	290	2310	--	--	--	--	--	--	--	--
	7/1/1997	49.95	22.90	0.01	27.06	--	24000	15000	16000	4900	24400	--	--	--	--	--	--	--	--
	10/2/1997	49.95	24.65	0.02	25.32	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/3/1997	49.95	NG	NG	NG	--	250000	32000	39000	6000	42000	--	--	--	--	--	--	--	--
	1/9/1998	49.95	21.22	0.01	28.74	--	420000	23000	29000	5800	43000	--	--	--	--	--	--	--	--
	2/2/1998	49.95	20.11	NP	29.84	--	410000	27000	43000	6700	50000	--	--	--	--	--	--	--	--
	5/6/1998	49.95	15.10	0.01	34.86	--	180000	25000	26000	3400	22900	--	--	--	--	--	--	--	--
	7/21/1998	49.95	15.31	0.01	34.65	--	270000	21000	20000	2700	18800	--	--	--	--	--	--	--	--
	12/30/1998	49.95	21.10	0.10	28.93	--	300000	22000	24000	4200	26000	95000	--	--	--	--	--	--	--
	5/10/1999	49.95	16.68	NP	33.27	--	220000	20000	20000	2800	20000	--	--	--	--	--	--	--	--
	9/23/1999	49.95	22.50	NP	27.45	--	160000	21000	24000	2900	20000	--	--	--	--	--	--	--	--
	12/23/1999	49.95	22.64	NP	27.31	--	170000	25000	41000	3100	24000	--	--	--	--	--	--	--	--
	3/27/2000	49.95	16.88	NP	33.07	--	140000	15000	25000	3400	21000	--	--	--	--	--	--	--	--
5/22/2000	49.95	17.75	NP	32.20	--	150000	18000	31000	3500	22000	--	--	--	--	--	--	--	--	
8/31/2000	49.95	21.97	NP	27.98	--	200000	16000	26000	2500	16000	--	--	--	--	--	--	--	--	
12/11/2000	49.95	22.05	NP	27.90	--	130000	18600	30000	3250	20600	--	--	--	--	--	--	--	--	
3/20/2001	49.95	17.75	NP	32.20	--	140000	15900	24800	3700	22100	--	--	--	--	--	--	--	--	
6/19/2001	49.95	20.15	NP	29.80	--	130000	15100	19500	3300	21400	--	--	--	--	--	--	--	--	
9/20/2001	49.95	22.14	NP	27.81	--	110000	12400	12600	2230	13000	--	--	--	--	--	--	--	--	
12/27/2001	49.95	18.17	NP	31.78	--	150000	17500	26000	3050	19500	--	--	--	--	--	--	--	--	
2/28/2002	49.95	17.42	NP	32.53	--	120000	13900	18800	3030	19600	--	--	--	--	--	--	--	--	
6/28/2002	49.95	17.04	NP	32.91	--	3700	190	23.3	139	287	--	--	--	--	--	--	--	--	

TABLE 3  
GROUND WATER GAUGING AND ANALYTICAL DATA  
76 (FORMERLY BP) STATION NO. 111117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft amsl)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Water Elevation* (ft amsl)	DRO (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (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-2	9/12/2002	49.95	19.52	NP	30.43	--	100000	13000	22000	3600	20000	--	--	--	--	--	--	--	--
	12/12/2002	49.95	21.08	NP	28.87	--	120000	13000	21000	4400	25000	--	--	--	--	--	--	--	--
	3/10/2003	49.95	17.84	NP	32.11	--	100000	17000	21000	3400	20000	--	--	--	--	--	--	--	--
	5/12/2003	49.95	16.66	NP	33.29	--	150000	16000	24000	3500	22000	--	--	--	--	--	--	--	--
	8/27/2003	49.95	19.65	NP	30.30	--	120000	14000	12000	3900	20000	--	<120	<120	140	<5000	<25000	--	--
	11/10/2003	49.95	20.80	NP	29.15	--	97000	12000	9500	3600	15000	--	<250	<250	<250	<10000	<50000	--	--
	2/3/2004	49.95	16.82	NP	33.13	--	130000	14000	19000	3400	20000	--	--	--	--	--	--	--	--
	5/4/2004	49.95	16.19	NP	33.76	--	120000	12000	16000	3700	22000	--	<250	<250	<250	<10000	<50000	<250	<250
	8/31/2004	49.95	19.50	NP	30.45	--	99000	10000	13000	3700	18000	--	--	--	--	--	--	--	--
	11/23/2004	49.95	18.20	NP	31.75	--	110000	8200	17000	4000	23000	--	<250	<250	<250	<10000	<50000	<250	<250
	1/18/2005	49.95	14.91	NP	35.04	--	96000	6500	14000	3500	21000	--	<100	<100	<100	<4000	<20000	<100	<100
	6/29/2005	49.95	13.98	NP	35.97	--	54000	6200	4900	3300	12000	--	--	--	--	--	--	--	--
	9/1/2005	49.95	17.00	NP	32.95	--	58000	6300	6000	3300	15000	--	<100	<100	100	<4000	<20000	<100	<100
	11/3/2005	49.95	20.25	NP	29.70	--	63000	7400	3700	3300	10000	--	<100	<100	100	<4000	<20000	<100	<100
	2/14/2006	49.95	13.72	NP	36.23	--	97000	7500	11000	4300	16000	--	<100	<100	<100	<4000	<60000	<100	<100
	5/30/2006	49.95	13.50	NP	36.45	--	28000	5200	2500	1500	3300	--	<100	<100	<100	<4000	<60000	<100	<100
	8/29/2006	49.95	18.16	NP	31.79	--	65000	7200	4500	3200	11000	--	<100	<100	100	<4000	<60000	<100	<100
	11/29/2006	49.95	20.06	NP	29.89	--	46000	8500	4600	3300	10000	--	<120	<120	120	<5000	<75000	<120	<120
	2/20/2007	49.95	16.43	NP	33.52	--	78000	9700	12000	4100	16000	--	<100	<100	<100	<4000	<60000	<100	<100
	5/25/2007	49.95	16.80	NP	33.15	--	62000	7400	9500	4100	15000	--	<200	<200	<200	<8000	<120000	<200	<200
8/9/2007	49.95	19.55	NP	30.40	--	58000	7400	5000	3800	12000	--	<100	<100	<100	<4000	<60000	<100	<100	
11/9/2007	49.95	21.53	NP	28.42	--	49000	6300	3300	2900	8300	--	<100	<100	<100	<4000	<60000	<100	<100	
MW-3	1/5/1992	43.27	33.69	NP	9.58	--	7400	790	23	210	40	--	--	--	--	--	--	--	
	1/10/1992	43.27	33.74	NP	9.53	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/5/1992	43.27	29.65	NP	13.62	--	0	130	5.3	93	20	--	--	--	--	--	--	--	
	7/24/1992	43.27	30.14	NP	13.13	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	7/27/1992	43.27	30.14	NP	13.13	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/15/1992	43.27	31.07	NP	12.20	<50	450	55	3.1	34	7.1	--	--	--	--	--	--	--	
	12/15/1992	43.27	31.93	NP	11.34	<50	12000	940	<50	310	120	--	--	--	--	--	--	--	
	3/15/1993	43.27	25.71	NP	17.56	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	
	6/7/1993	43.27	25.80	NP	17.47	--	150	3.6	<0.5	0.9	1.3	--	--	--	--	--	--	--	
	9/23/1993	43.27	29.18	NP	14.09	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/24/1993	43.27	NG	NG	NG	--	160	8.4	<0.5	3.7	1.3	--	--	--	--	--	--	--	
	12/27/1993	43.27	29.25	NP	14.02	--	9400	1100	48	530	120	--	--	--	--	--	--	--	
	4/5/1994	43.27	26.84	NP	16.43	--	7000	860	19	330	52	--	--	--	--	--	--	--	
	7/22/1994	43.27	26.90	NP	16.37	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	
	10/13/1994	43.27	27.83	NP	15.44	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	
	1/25/1995	51.40	21.65	NP	29.75	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	
	4/19/1995	51.40	19.33	NP	32.07	--	2400	170	8	130	27	--	--	--	--	--	--	--	
	7/5/1995	51.40	20.27	NP	31.13	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	
	10/5/1995	51.40	23.73	NP	27.67	--	2300	210	3.1	10	5.1	--	--	--	--	--	--	--	
	1/12/1996	51.40	24.84	NP	26.56	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	
	4/22/1996	51.40	18.60	NP	32.80	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	
	7/2/1996	51.40	18.88	NP	32.52	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	
	11/8/1996	51.40	19.14	NP	32.26	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	
	1/3/1997	51.40	18.72	NP	32.68	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	
	4/28/1997	51.40	19.38	NP	32.02	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	
	7/1/1997	51.40	21.65	NP	29.75	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	
	10/2/1997	51.40	23.45	NP	27.95	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	
	1/9/1998	51.40	20.10	NP	31.30	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	
	5/6/1998	51.40	15.57	NP	35.83	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	
	7/21/1998	51.40	15.88	NP	35.52	--	51	<0.5	<1	<1	<1	--	--	--	--	--	--	--	
12/30/1998	51.40	20.30	NP	31.10	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2/2/1999	51.40	19.75	NP	31.65	--	<50	<1	<1	<1	<1	--	--	--	--	--	--	--		
5/10/1999	51.40	16.17	NP	35.23	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
9/23/1999	51.40	22.05	NP	29.35	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12/23/1999	51.40	22.55	NP	28.85	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

TABLE 3  
GROUND WATER GAUGING AND ANALYTICAL DATA  
76 (FORMERLY BP) STATION NO. 111117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft amsl)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Water Elevation* (ft amsl)	DRO (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (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	3/27/2000	51.40	16.40	NP	35.00	--	350	22	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	5/22/2000	51.40	9.49	NP	41.91	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/31/2000	51.40	13.02	NP	38.38	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/11/2000	51.40	13.30	NP	38.10	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/20/2001	51.40	16.49	NP	34.91	--	1000	66.4	0.597	6.96	<1.5	--	--	--	--	--	--	--	--
	6/19/2001	51.40	18.82	NP	32.58	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/20/2001	51.40	21.59	NP	29.81	--	230	<0.5	0.593	<0.5	<1.5	--	--	--	--	--	--	--	--
	12/27/2001	51.40	17.37	NP	34.03	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/28/2002	51.40	15.81	NP	35.59	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	6/28/2002	51.40	17.09	NP	34.31	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/12/2002	51.40	18.80	NP	32.60	--	52	3.3	8.6	1.7	12	--	--	--	--	--	--	--	--
	12/12/2002	51.40	20.57	NP	30.83	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/10/2003	51.40	16.68	NP	34.72	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	5/12/2003	51.40	14.72	NP	36.68	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/27/2003	51.40	18.50	NP	32.90	--	<50	<0.5	<0.5	<0.5	0.5	--	<0.5	<0.5	<0.5	<20	<100	--	--
	11/10/2003	51.40	19.66	NP	31.74	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/3/2004	51.40	15.33	NP	36.07	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	8/31/2004	51.40	18.13	NP	33.27	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	11/23/2004	51.40	16.48	NP	34.92	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/18/2005	51.40	13.06	NP	38.34	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	6/29/2005	51.40	13.00	NP	38.40	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/1/2005	51.40	16.00	NP	35.40	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/3/2005	51.40	18.91	NP	32.49	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/14/2006	51.40	12.90	NP	38.50	--	86	<0.5	<0.5	<0.5	0.55	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	5/30/2006	51.40	12.55	NP	38.85	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/29/2006	51.40	16.68	NP	34.72	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/29/2006	51.40	19.10	NP	32.30	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/20/2007	51.40	15.29	NP	36.11	--	56	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	5/25/2007	51.40	15.94	NP	35.46	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/9/2007	51.40	18.70	NP	32.70	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/9/2007	51.40	20.27	NP	31.13	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/2007	37.56	20.21	NP	17.35	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/11/2008	37.56	14.68	NP	22.88	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<10	<100	<0.5	<0.5	
5/22/2008	37.56	16.64	NP	20.92	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8/25/2008	37.56	19.40	NP	18.16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12/17/2008	37.56	22.13	NP	15.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2/25/2009	37.56	16.81	NP	20.75	NS	71	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	--	
5/21/2009	37.56	16.40	NP	21.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
8/14/2009	37.56	19.60	NP	17.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/10/2010	37.56	14.81	NP	22.75	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
8/20/2010	37.56	16.80	NP	20.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/7/2011	37.56	14.39	NP	23.17	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
8/15/2011	37.56	15.56	NP	22.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/20/2012	43.27	17.41	NP	25.86	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
8/31/2012	43.27	18.51	NP	24.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/5/2013	43.27	15.10	NP	28.17	--	<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	
8/14/2013	43.27	19.27	NP	24.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	7/24/1992	43.64	30.02	NP	13.62	42000	42000	3200	3600	1400	4100	--	--	--	--	--	--	--	
	7/27/1992	43.64	30.02	NP	13.62	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/15/1992	43.64	31.14	NP	12.50	55000	55000	7600	13000	2800	9500	--	--	--	--	--	--	--	
	12/15/1992	43.64	31.98	NP	11.66	36000	36000	3700	4700	1200	4000	--	--	--	--	--	--	--	
	3/15/1993	43.64	25.34	NP	18.30	69000	69000	7600	15000	2500	11000	--	--	--	--	--	--	--	
	6/7/1993	43.64	25.67	NP	17.97	73000	73000	10000	19000	3400	14000	--	--	--	--	--	--	--	
	9/23/1993	43.64	29.37	NP	14.27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/24/1993	43.64	NG	NG	NG	68000	68000	11000	2100	8600	990	--	--	--	--	--	--	--	
	12/27/1993	43.64	29.40	NP	14.24	32000	32000	2500	4400	1300	4400	--	--	--	--	--	--	--	
	4/5/1994	43.64	27.09	NP	16.55	64000	64000	6500	14000	1900	9600	--	--	--	--	--	--	--	

TABLE 3  
GROUND WATER GAUGING AND ANALYTICAL DATA  
76 (FORMERLY BP) STATION NO. 111117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft amsl)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Water Elevation* (ft amsl)	DRO (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (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-4	7/22/1994	43.64	27.33	NP	16.31	85000	85000	10000	20000	3200	13000	--	--	--	--	--	--	--	--
	10/13/1994	43.64	28.25	NP	15.39	51000	51000	7100	13000	2100	8900	--	--	--	--	--	--	--	--
	1/25/1995	50.88	21.85	NP	29.03	26000	26000	3600	9600	1200	6400	--	--	--	--	--	--	--	--
	4/19/1995	50.88	19.44	NP	31.44	89000	89000	12000	24000	3500	18000	--	--	--	--	--	--	--	--
	7/5/1995	50.88	20.52	NP	30.36	130000	130000	13000	29000	3300	25000	--	--	--	--	--	--	--	--
	10/5/1995	50.88	24.23	NP	26.65	110000	110000	10000	23000	3600	17000	--	--	--	--	--	--	--	--
	1/12/1996	50.88	25.34	NP	25.54	46000	46000	3500	8300	1100	8000	--	--	--	--	--	--	--	--
	4/22/1996	50.88	19.13	NP	31.75	40000	40000	5100	9600	980	11800	--	--	--	--	--	--	--	--
	7/2/1996	50.88	20.67	NP	30.21	74000	74000	9800	21000	2100	16600	--	--	--	--	--	--	--	--
	11/8/1996	50.88	20.95	NP	29.93	100000	100000	7900	16000	2500	13700	--	--	--	--	--	--	--	--
	1/3/1997	50.88	20.54	NP	30.34	99000	99000	17000	30000	4300	22700	--	--	--	--	--	--	--	--
	4/28/1997	50.88	21.28	NP	29.60	130000	130000	12000	28000	3800	21000	--	--	--	--	--	--	--	--
	7/1/1997	50.88	23.61	NP	27.27	110000	110000	16000	25000	4900	24400	--	--	--	--	--	--	--	--
	10/2/1997	50.88	25.39	NP	25.49	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/3/1997	50.88	NG	NG	NG	66000	66000	8200	8600	2700	13400	--	--	--	--	--	--	--	--
	1/9/1998	50.88	21.25	NP	29.63	100000	100000	9700	3200	1500	4700	--	--	--	--	--	--	--	--
	5/6/1998	50.88	15.96	NP	34.92	430000	430000	6900	31000	11000	56000	--	--	--	--	--	--	--	--
	7/21/1998	50.88	16.10	NP	34.78	250000	250000	11000	26000	5500	26900	--	--	--	--	--	--	--	--
	12/30/1998	50.88	20.91	NP	29.97	370000	370000	11000	22000	8500	40000	92000	--	--	--	--	--	--	--
	2/2/1999	50.88	20.13	NP	30.75	190000	190000	4100	19000	4800	32000	--	--	--	--	--	--	--	--
	5/10/1999	50.88	16.63	NP	34.25	2700	2700	23	7.1	8.1	25	--	--	--	--	--	--	--	--
	9/23/1999	50.88	22.48	NP	28.40	180000	180000	11000	29000	7000	38000	--	--	--	--	--	--	--	--
	12/23/1999	50.88	22.94	NP	27.94	66000	66000	6300	5200	2200	7800	--	--	--	--	--	--	--	--
	3/27/2000	50.88	16.84	NP	34.04	120000	120000	8700	12000	3800	16000	--	--	--	--	--	--	--	--
	5/22/2000	50.88	17.85	NP	33.03	110000	110000	7600	16000	4400	20000	--	--	--	--	--	--	--	--
	8/31/2000	50.88	21.71	NP	29.17	110000	110000	8800	7600	3400	14000	--	--	--	--	--	--	--	--
	12/11/2000	50.88	22.05	NP	28.83	70000	70000	4580	3480	2550	9220	--	--	--	--	--	--	--	--
	3/20/2001	50.88	17.68	NP	33.20	100000	100000	7100	4530	2540	9370	--	--	--	--	--	--	--	--
	6/19/2001	50.88	19.40	NP	31.48	180000	180000	7430	14600	5400	25300	--	--	--	--	--	--	--	--
	9/20/2001	50.88	22.01	0.03	28.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/27/2001	50.88	17.96	NP	32.92	120000	120000	6880	9030	2840	14600	--	--	--	--	--	--	--	--
	2/28/2002	50.88	17.06	NP	33.82	80000	80000	4920	5450	2220	12300	--	--	--	--	--	--	--	--
	6/28/2002	50.88	17.76	NP	33.12	48000	48000	2780	2770	1530	6790	--	--	--	--	--	--	--	--
	9/12/2002	50.88	19.45	NP	31.43	46000	46000	4500	6800	2600	10000	--	--	--	--	--	--	--	--
	12/12/2002	50.88	21.29	NP	29.59	36000	36000	5200	3400	2000	6500	--	--	--	--	--	--	--	--
	3/10/2003	50.88	17.16	NP	33.72	70000	70000	7000	4800	3300	13000	--	--	--	--	--	--	--	--
	5/12/2003	50.88	14.51	NP	36.37	75000	75000	7600	3700	3400	13000	--	--	--	--	--	--	--	--
	8/27/2003	50.88	19.32	NP	31.56	77000	77000	7500	1300	2100	4000	--	<250	<250	250	<10000	<50000	--	--
	11/10/2003	50.88	20.36	NP	30.52	110000	110000	7100	3100	2100	5800	--	<500	<500	<500	<20000	<100000	--	--
	2/3/2004	50.88	16.51	NP	34.37	160000	160000	8400	9700	5000	23000	--	<500	<500	<500	<20000	<100000	<500	<500
5/4/2004	50.88	16.47	NP	34.41	110000	110000	8100	7500	4300	17000	--	<250	<250	<250	<10000	<50000	<250	<250	
8/31/2004	50.88	19.16	NP	31.72	91000	91000	6600	8400	3700	14000	--	<250	<250	<250	<10000	<50000	<250	<250	
11/23/2004	50.88	18.02	NP	32.86	7400000	7400000	20000	150000	320000	1400000	--	<2500	<2500	<2500	<100000	<500000	<2500	<2500	
1/18/2005	50.88	14.21	NP	36.67	170000	170000	5400	14000	6900	33000	--	<250	<250	<250	<10000	<50000	<250	<250	
6/29/2005	50.88	13.86	NP	37.02	640000	640000	3500	25000	24000	110000	--	<250	<250	<250	<10000	<50000	<250	<250	
9/1/2005	50.88	16.89	NP	33.99	100000	100000	3800	11000	4900	33000	--	<500	<500	<500	<20000	<100000	<500	<500	
11/3/2005	50.88	19.33	NP	31.55	490000	490000	4700	11000	10000	49000	--	<500	<500	<500	<20000	<100000	<500	<500	
2/14/2006	50.88	13.55	NP	37.33	970000	970000	60000	7000	36000	140000	--	<500	<500	1000	<20000	<300000	<500	<500	
5/30/2006	50.88	13.52	NP	37.36	140000	140000	3000	6600	6200	29000	--	<500	<500	<500	<20000	<300000	<500	<500	
8/29/2006	50.88	17.52	NP	33.36	52000	52000	4700	2500	3500	12000	--	<500	<500	<500	<20000	<300000	<500	<500	
11/29/2006	50.88	19.93	0.11	31.03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2/20/2007	50.88	16.14	NP	34.74	68000	68000	8400	2600	4100	13000	--	<250	<250	<250	<10000	<150000	<250	<250	
5/25/2007	50.88	16.65	NP	34.23	37000	37000	5100	1200	2800	6900	--	<200	<200	<200	<8000	<120000	<200	<200	
8/9/2007	50.88	19.29	NP	31.59	180000	180000	5600	7700	5700	21000	--	<100	<100	<100	4100	<60000	<100	<100	
11/9/2007	50.88	21.27	NP	29.61	110000	110000	3300	2400	3600	13000	--	<100	<100	<100	5700	<60000	<100	<100	
12/14/2007	38.35	21.10	NP	17.25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2/11/2008	38.35	15.45	0.01	22.91	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

TABLE 3  
GROUND WATER GAUGING AND ANALYTICAL DATA  
76 (FORMERLY BP) STATION NO. 111117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft amsl)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Water Elevation* (ft amsl)	DRO (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (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-4	5/22/2008	38.35	17.44	NP	20.91	48000	48000	4500	880	1400	5000	--	<100	<100	<100	6600	<60000	<100	<100
	8/25/2008	38.35	20.32	0.05	18.07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/17/2008	38.35	22.20	NP	16.15	45000	45000	3300	520	910	3000	--	<100	<100	<100	6100	<60000	<100	<100
	2/25/2009	38.35	17.60	NP	20.75	39000	39000	4600	2100	1800	6300	1300	--	--	--	--	--	--	--
	5/21/2009	38.35	17.02	NP	21.33	51000	51000	3900	1100	1900	6800	3700	--	--	--	--	--	--	--
	8/14/2009	38.35	20.09	NP	18.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/2010	38.35	16.09	NP	22.26	2500	2500	4.7	1.5	1.3	4.1	3.4	<0.50	<0.50	<0.50	248	<250	<1.0	<1.0
	8/20/2010	38.35	17.29	NP	21.06	3530	3530	39.8	0.89	1.3	15.8	7.0	<0.50	<0.50	<0.50	689	<250	<1.0	<1.0
	2/7/2011	38.35	15.59	NP	22.76	3600	3600	7.1	0.76	1.2	5.1	3.7	<0.50	<0.50	<0.50	210	<250	<1.0	<1.0
	8/15/2011	38.35	16.06	NP	22.29	87600	87600	3430	280	2880	8500	317	<12.5	<12.5	<12.5	3410	<6250	<25.0	<25.0
	2/20/2012	43.64	17.94	NP	25.70	692000	692000	4870	505	7080	29800	228	<25.0	<25.0	<25.0	4700	<12500	<50.0	115
	3/7/2012	43.64	17.75	NP	25.89	8500	8500	4000	42	480	--	400	<50	<50	<50	4900	<2500	<25	<12
	3/19/2012	43.64	16.42	NP	27.22	15200	15200	4800	125	562	512	768	<0.50	3.2	6.0	25200	<250	<1.0	<1.0
	4/27/2012	43.64	13.52	NP	30.12	17000	17000	2800	490	1500	3230	370	<50	<50	<50	2900	<2500	<25	<12
	5/29/2012	43.64	15.29	NP	28.35	17000	17000	2800	380	1400	--	210	<50	<50	<50	2700	<2500	<25	<12
	6/27/2012	43.64	16.50	NP	27.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/31/2012	43.64	18.82	NP	24.82	230000	230000	2800	600	6100	17000	240	<25	<25	<25	1800	<300	<25	<25
	9/27/2012	43.64	19.30	NP	24.34	--	28000	2300	530	7700	15000	150	<100	<40	<40	2400	<2000	<20	<10
2/5/2013	43.64	15.60	NP	28.04	--	63000	2200	280	2600	7600	380	<15	<15	<15	3000	<150	<15	<15	
8/14/2013	43.64	19.70	NP	23.94	--	86,000	3,700	180	4,500	10,000	810	<15	<15	<15	2,600	<150	<15	<15	
MW-6	7/24/1992	43.64	30.63	NP	13.01	--	--	1.6	--	--	--	--	--	--	--	--	--	--	--
	7/27/1992	43.64	30.63	NP	13.01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/15/1992	43.64	31.52	NP	12.12	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	12/15/1992	43.64	32.42	NP	11.22	58	58	1.3	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	3/15/1993	43.64	26.29	NP	17.35	<50	<50	<0.5	0.6	<0.5	0.7	--	--	--	--	--	--	--	--
	6/7/1993	43.64	26.33	NP	17.31	<50	<50	<0.5	<0.5	<0.5	1.5	--	--	--	--	--	--	--	--
	9/23/1993	43.64	29.64	NP	14.00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/1993	43.64	NG	NG	NG	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	12/27/1993	43.64	29.75	NP	13.89	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	4/5/1994	43.64	27.26	NP	16.38	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	7/22/1994	43.64	27.34	NP	16.30	350	350	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	10/13/1994	43.64	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/25/1995	51.05	22.16	NP	28.89	240	240	6	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	4/19/1995	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/5/1995	51.05	20.80	NP	30.25	180	180	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	10/5/1995	51.05	24.20	NP	26.85	860	860	<5	<5	<5	<10	--	--	--	--	--	--	--	--
	1/12/1996	51.05	25.30	NP	25.75	860	860	<5	<5	<5	<10	--	--	--	--	--	--	--	--
	4/22/1996	51.05	19.13	NP	31.92	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/2/1996	51.05	20.66	NP	30.39	100	100	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	11/8/1996	51.05	20.98	NP	30.07	1100	1100	<5	<10	<10	<10	--	--	--	--	--	--	--	--
	1/3/1997	51.05	20.53	NP	30.52	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	4/28/1997	51.05	21.25	NP	29.80	1400	1400	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/1/1997	51.05	23.40	NP	27.65	6100	6100	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	10/2/1997	51.05	25.16	NP	25.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/3/1997	51.05	NG	NG	NG	330	330	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	1/9/1998	51.05	21.13	NP	29.92	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	5/6/1998	51.05	16.11	NP	34.94	410	410	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/21/1998	51.05	16.33	NP	34.72	4300	4300	<5	<10	<10	<10	--	--	--	--	--	--	--	--
	12/30/1998	51.05	20.89	NP	30.16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/2/1999	51.05	20.20	NP	30.85	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/10/1999	51.05	16.75	NP	34.30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/23/1999	51.05	22.55	NP	28.50	<50	<50	<1	<1	<1	<1	--	--	--	--	--	--	--	--
	12/23/1999	51.05	23.00	NP	28.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/27/2000	51.05	16.89	NP	34.16	1700	1700	4.4	0.54	<0.5	1	--	--	--	--	--	--	--	--	
5/22/2000	51.05	18.02	NP	33.03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8/31/2000	51.05	21.62	NP	29.43	1200	1200	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	
12/11/2000	51.05	21.81	NP	29.24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

TABLE 3  
GROUND WATER GAUGING AND ANALYTICAL DATA  
76 (FORMERLY BP) STATION NO. 111117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft amsl)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Water Elevation* (ft amsl)	DRO (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (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	3/20/2001	51.05	16.97	NP	34.08	3300	3300	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--
	6/19/2001	51.05	19.30	NP	31.75	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/20/2001	51.05	22.00	NP	29.05	2200	2200	2.04	8.1	3.62	13.7	--	--	--	--	--	--	--	--
	12/27/2001	51.05	17.85	NP	33.20	830	830	0.59	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	2/28/2002	51.05	16.31	NP	34.74	1100	1100	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	6/28/2002	51.05	17.57	NP	33.48	<50	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	9/12/2002	51.05	19.27	NP	31.78	190	190	1.9	4.6	1	7.3	--	--	--	--	--	--	--	--
	12/12/2002	51.05	20.94	NP	30.11	270	270	<2.5	<2.5	<2.5	<2.5	--	--	--	--	--	--	--	--
	3/10/2003	51.05	17.11	NP	33.94	110	110	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	5/12/2003	51.05	15.18	NP	35.87	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	8/27/2003	51.05	18.90	NP	32.15	<50	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	--	--
	11/10/2003	51.05	20.13	NP	30.92	<50	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	--	--
	2/3/2004	51.05	15.83	NP	35.22	<50	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	5/4/2004	51.05	15.62	NP	35.43	<50	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	8/31/2004	51.05	18.56	NP	32.49	<50	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	11/23/2004	51.05	16.95	NP	34.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/18/2005	51.05	13.61	NP	37.44	<50	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	6/29/2005	51.05	13.55	NP	37.50	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/1/2005	51.05	16.52	NP	34.53	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/3/2005	51.05	19.28	NP	31.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/14/2006	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/30/2006	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/29/2006	51.05	17.15	NP	33.90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/29/2006	51.05	19.50	NP	31.55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/20/2007	51.05	15.81	NP	35.24	<50	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	5/25/2007	51.05	16.38	NP	34.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/9/2007	51.05	19.15	NP	31.90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/9/2007	51.05	20.70	NP	30.35	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/2007	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/11/2008	51.05	15.08	NP	35.97	<50	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<10	<100	<0.5	<0.5
	5/22/2008	51.05	17.07	NP	33.98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/25/2008	51.05	19.82	NP	31.23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/17/2008	51.05	21.58	NP	29.47	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/25/2009	51.05	17.34	NP	33.71	120	120	<0.50	<0.50	<0.50	<0.50	13	--	--	--	--	--	--	--	
5/21/2009	51.05	16.85	NP	34.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
8/14/2009	51.05	20.03	NP	31.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/10/2010	51.05	15.31	NP	35.74	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
8/20/2010	51.05	16.60	NP	34.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/7/2011	51.05	14.86	NP	36.19	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
8/15/2011	51.05	16.07	NP	34.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/20/2012	43.64	17.83	NP	25.81	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	0.66	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
8/31/2012	43.64	18.82	NP	24.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/5/2013	43.64	15.53	NP	28.11	--	<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	
8/14/2013	43.64	19.93	NP	23.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	1/25/1995	51.40	21.67	NP	29.73	<50	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	
	4/19/1995	51.40	25.27	NP	26.13	<50	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	
	7/5/1995	51.40	24.63	NP	26.77	<50	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	
	10/5/1995	51.40	28.21	NP	23.19	83	83	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	
	1/12/1996	51.40	29.29	NP	22.11	63	63	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	
	4/22/1996	51.40	23.11	NP	28.29	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	
	7/2/1996	51.40	23.56	NP	27.84	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	
	11/8/1996	51.40	20.06	NP	31.34	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	
	1/3/1997	51.40	23.42	NP	27.98	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	
	4/28/1997	51.40	24.12	NP	27.28	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	
	7/1/1997	51.40	26.40	NP	25.00	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	
	10/2/1997	51.40	28.14	NP	23.26	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	
	1/9/1998	51.40	24.02	NP	27.38	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	

TABLE 3  
GROUND WATER GAUGING AND ANALYTICAL DATA  
76 (FORMERLY BP) STATION NO. 111117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft amsl)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Water Elevation* (ft amsl)	DRO (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (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	5/6/1998	51.40	21.00	NP	30.40	1900	1900	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/21/1998	51.40	21.17	NP	30.23	50	50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	12/30/1998	51.40	22.13	NP	29.27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/2/1999	51.40	22.08	NP	29.32	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/10/1999	51.40	18.58	NP	32.82	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/23/1999	51.40	24.29	NP	27.11	70	70	<1	<1	<1	<1	--	--	--	--	--	--	--	--
	12/23/1999	51.40	24.53	NP	26.87	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/2000	51.40	18.58	NP	32.82	910	910	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	5/22/2000	51.40	19.49	NP	31.91	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/31/2000	51.40	22.53	NP	28.87	440	440	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	12/11/2000	51.40	22.75	NP	28.65	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/20/2001	51.40	18.79	NP	32.61	1100	1100	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--
	6/19/2001	51.40	19.82	NP	31.58	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/20/2001	51.40	21.35	NP	30.05	1300	1300	1.21	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--
	12/27/2001	51.40	20.36	NP	31.04	510	510	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	2/28/2002	51.40	21.86	NP	29.54	250	250	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	6/28/2002	51.40	22.64	NP	28.76	<50	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	9/12/2002	51.40	23.51	NP	27.89	<50	<50	<0.5	<0.5	<0.5	1	--	--	--	--	--	--	--	--
	12/12/2002	51.40	23.75	NP	27.65	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	3/10/2003	51.40	21.25	NP	30.15	61	61	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	5/12/2003	51.40	21.44	NP	29.96	<100	<100	<1	<1	<1	<1	--	--	--	--	--	--	--	--
	8/27/2003	51.40	23.30	NP	28.10	120	120	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	--	--
	11/10/2003	51.40	20.24	NP	31.16	230	230	<1	<1	<1	<1	--	<1	<1	<1	<40	<200	--	--
	2/3/2004	51.40	20.63	NP	30.77	<250	<250	<2.5	<2.5	<2.5	<2.5	--	<2.5	<2.5	<2.5	<100	<500	<2.5	<2.5
	5/4/2004	51.40	21.89	NP	29.51	<250	<250	<2.5	<2.5	<2.5	<2.5	--	<2.5	<2.5	<2.5	<100	<500	<2.5	<2.5
	8/31/2004	51.40	23.16	NP	28.24	<500	<500	<5	<5	<5	<5	--	<5	<5	<5	<200	<1000	<5	<5
	11/23/2004	51.40	21.65	NP	29.75	590	590	<2.5	5	11	51	--	<2.5	<2.5	<2.5	<100	<500	<2.5	<2.5
	1/18/2005	51.40	16.28	NP	35.12	<250	<250	<2.5	<2.5	<2.5	2.5	--	<2.5	<2.5	<2.5	<100	<500	<2.5	<2.5
	6/29/2005	51.40	14.50	NP	36.90	2200	2200	43	97	92	390	--	<2.5	<2.5	<2.5	<100	<500	<2.5	<2.5
	9/1/2005	51.40	20.41	NP	30.99	<500	<500	<5	<5	<5	<5	--	<5	<5	<5	<200	<1000	<5	<5
	11/3/2005	51.40	21.00	NP	30.40	130	130	<1	<1	<1	1	--	<1	<1	<1	<40	<200	<1	<1
	2/14/2006	51.40	16.31	NP	35.09	100	100	<0.5	<0.5	<0.5	0.87	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	5/30/2006	51.40	17.58	NP	33.82	<50	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	8/29/2006	51.40	18.64	NP	32.76	100	100	<2.5	<2.5	<2.5	<2.5	--	<2.5	<2.5	<2.5	<100	<1500	<2.5	<2.5
	11/29/2006	51.40	20.35	NP	31.05	84	84	<2.5	<2.5	<2.5	<2.5	--	<2.5	<2.5	<2.5	<100	<1500	<2.5	<2.5
	2/20/2007	51.40	17.09	NP	34.31	160	160	<2.5	<2.5	<2.5	<2.5	--	<2.5	<2.5	<2.5	<100	<1500	<2.5	<2.5
	5/25/2007	51.40	17.20	NP	34.20	70	70	<1	<1	<1	<1	--	<1	<1	<1	<40	<600	<1	<1
	8/9/2007	51.40	19.95	NP	31.45	<50	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	11/9/2007	51.40	23.28	NP	28.12	61	61	<0.5	<0.5	<0.5	1.3	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	12/14/2007	38.99	23.07	NP	15.92	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/11/2008	38.99	17.21	NP	21.78	<50	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<10	<100	<0.5	<0.5	
5/22/2008	38.99	17.55	NP	21.44	200	200	<1	<1	<1	<1	--	<1	<1	<1	<20	<600	<1	<1	
8/25/2008	38.99	20.55	NP	18.44	<50	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<10	<300	<0.5	<0.5	
12/17/2008	38.99	21.86	NP	17.13	<50	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<10	<300	<0.5	<0.5	
8/14/2009	38.99	20.31	NP	18.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
8/20/2010	38.99	16.82	NP	22.17	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	17.2	<0.50	<0.50	<0.50	9.8	<250	<1.0	<1.0	
8/15/2011	38.99	16.28	NP	22.71	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	14.8	<0.50	<0.50	<0.50	13.1	<250	<1.0	<1.0	
2/20/2012	44.21	18.48	NP	25.73	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	9.6	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
6/27/2012	44.21	16.70	NP	27.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
8/31/2012	44.21	19.39	NP	24.82	<50	<50	<0.50	<0.50	<0.50	<0.50	20	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	
2/5/2013	44.21	15.83	NP	28.38	--	<50	<0.50	<0.50	<0.50	<0.50	25	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	
8/14/2013	44.21	20.15	NP	24.06	--	<50	<0.50	<0.50	<0.50	<0.50	14	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	
MW-8	1/25/1995	50.88	31.59	NP	19.29	54	54	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	
	4/19/1995	50.88	19.18	NP	31.70	<50	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	
	7/5/1995	50.88	19.03	NP	31.85	<50	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	
	10/5/1995	50.88	24.40	NP	26.48	<50	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	
	1/12/1996	50.88	25.51	NP	25.37	<50	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	

TABLE 3  
GROUND WATER GAUGING AND ANALYTICAL DATA  
76 (FORMERLY BP) STATION NO. 111117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft amsl)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Water Elevation* (ft amsl)	DRO (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (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	4/22/1996	50.88	18.00	NP	32.88	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/2/1996	50.88	19.83	NP	31.05	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	11/8/1996	50.88	20.09	NP	30.79	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	1/3/1997	50.88	19.72	NP	31.16	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	4/28/1997	50.88	20.44	NP	30.44	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/1/1997	50.88	22.72	NP	28.16	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	10/2/1997	50.88	24.51	NP	26.37	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	1/9/1998	50.88	21.17	NP	29.71	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	5/6/1998	50.88	18.34	NP	32.54	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/21/1998	50.88	18.55	NP	32.33	90	90	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	12/30/1998	50.88	20.40	NP	30.48	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/2/1999	50.88	19.28	NP	31.60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/10/1999	50.88	15.62	NP	35.26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/23/1999	50.88	21.74	NP	29.14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/23/1999	50.88	22.83	NP	28.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/2000	50.88	16.25	NP	34.63	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	5/22/2000	50.88	17.06	NP	33.82	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/31/2000	50.88	21.72	NP	29.16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/11/2000	50.88	22.03	NP	28.85	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/20/2001	50.88	16.23	NP	34.65	<50	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--
	6/19/2001	50.88	19.35	NP	31.53	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/20/2001	50.88	21.95	NP	28.93	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/27/2001	50.88	16.98	NP	33.90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/28/2002	50.88	15.38	NP	35.50	<50	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	6/28/2002	50.88	16.97	NP	33.91	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/12/2002	50.88	19.47	NP	31.41	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/12/2002	50.88	20.84	NP	30.04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/10/2003	50.88	16.56	NP	34.32	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	5/12/2003	50.88	13.63	NP	37.25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/27/2003	50.88	18.90	NP	31.98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/10/2003	50.88	19.68	NP	31.20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/3/2004	50.88	14.76	NP	36.12	<50	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	5/4/2004	50.88	14.69	NP	36.19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/31/2004	50.88	18.08	NP	32.80	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/2004	50.88	15.77	NP	35.11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/18/2005	50.88	12.04	NP	38.84	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	6/29/2005	50.88	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/1/2005	50.88	16.12	NP	34.76	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/3/2005	50.88	19.42	NP	31.46	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/14/2006	50.88	12.43	NP	38.45	<50	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
5/30/2006	50.88	12.40	NP	38.48	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8/29/2006	50.88	17.16	NP	33.72	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
11/29/2006	50.88	19.35	NP	31.53	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2/20/2007	50.88	14.57	NP	36.31	<50	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5	
5/25/2007	50.88	16.11	NP	34.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8/9/2007	50.88	19.25	NP	31.63	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
11/9/2007	50.88	20.92	NP	29.96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12/14/2007	38.44	21.26	NP	17.18	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2/12/2008	38.44	14.00	NP	24.44	<50	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<10	<100	<0.5	<0.5	
5/22/2008	38.44	16.86	NP	21.58	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8/25/2008	38.44	19.92	NP	18.52	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12/17/2008	38.44	21.45	NP	16.99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2/25/2009	38.44	16.19	NP	22.25	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	--	
5/21/2009	38.44	16.10	NP	22.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
8/14/2009	38.44	20.17	NP	18.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/10/2010	38.44	15.33	NP	23.11	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
8/20/2010	38.44	16.29	NP	22.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	



TABLE 3  
GROUND WATER GAUGING AND ANALYTICAL DATA  
76 (FORMERLY BP) STATION NO. 111117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft amsl)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Water Elevation* (ft amsl)	DRO (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (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	2/7/2011	38.44	14.35	NP	24.09	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
	8/15/2011	38.44	15.83	NP	22.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/20/2012	44.18	17.50	NP	26.68	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
	8/31/2012	44.18	18.81	NP	25.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/5/2013	44.18	15.00	NP	29.18	--	<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
	8/14/2013	44.18	19.36	NP	24.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	1/25/1995	51.05	22.32	NP	28.73	<50	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	4/19/1995	51.05	19.86	NP	31.19	<50	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	7/5/1995	51.05	20.78	NP	30.27	<50	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	10/5/1995	51.05	24.33	NP	26.72	<50	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	1/12/1996	51.05	25.44	NP	25.61	<50	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	4/22/1996	51.05	18.01	NP	33.04	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/2/1996	51.05	19.70	NP	31.35	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	11/8/1996	51.05	19.96	NP	31.09	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	1/3/1997	51.05	19.52	NP	31.53	<250	<250	<2.5	<5	<5	<5	--	--	--	--	--	--	--	--
	4/28/1997	51.05	20.22	NP	30.83	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/1/1997	51.05	22.59	NP	28.46	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	10/2/1997	51.05	24.33	NP	26.72	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/3/1997	51.05	NG	NG	NG	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	1/9/1998	51.05	21.11	NP	29.94	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	5/6/1998	51.05	18.26	NP	32.79	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/21/1998	51.05	18.46	NP	32.59	70	70	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	12/30/1998	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/2/1999	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/10/1999	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/23/1999	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/23/1999	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/2000	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/22/2000	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/31/2000	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/11/2000	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/20/2001	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/19/2001	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/20/2001	51.05	22.20	NP	28.85	6300	6300	2.87	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--
	12/27/2001	51.05	18.92	NP	32.13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/28/2002	51.05	17.22	NP	33.83	19000	19000	1560	61.3	84	111	--	--	--	--	--	--	--	--
	6/28/2002	51.05	18.20	NP	32.85	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/12/2002	51.05	19.92	NP	31.13	5100	5100	570	180	<25	220	--	--	--	--	--	--	--	--
	12/12/2002	51.05	21.78	NP	29.27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/10/2003	51.05	18.25	NP	32.80	26000	26000	2500	<100	<100	<100	--	--	--	--	--	--	--	--
	5/12/2003	51.05	16.29	NP	34.76	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/27/2003	51.05	19.69	NP	31.36	11000	11000	830	<50	<50	<50	--	<50	<50	<50	<2000	<10000	--	--
	11/10/2003	51.05	19.97	NP	31.08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/3/2004	51.05	17.23	NP	33.82	6200	6200	180	<50	<50	<50	--	<50	<50	<50	<2000	<10000	<50	<50
	5/4/2004	51.05	17.17	NP	33.88	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/31/2004	51.05	19.71	NP	31.34	<2500	<2500	210	<25	<25	<25	--	<25	<25	<25	<1000	<5000	<25	<25
11/23/2004	51.05	18.58	NP	32.47	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
1/18/2005	51.05	14.98	NP	36.07	490	490	32	<2.5	<2.5	8.9	--	<2.5	<2.5	<2.5	150	<500	<2.5	<2.5	
6/29/2005	51.05	14.74	NP	36.31	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
9/1/2005	51.05	17.42	NP	33.63	3500	3500	1300	<25	<25	28	--	<25	<25	<25	2700	<5000	<25	<25	
11/3/2005	51.05	19.90	NP	31.15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2/14/2006	51.05	12.95	NP	38.10	2700	2700	<25	<25	<25	<25	--	<25	<25	<25	<1000	<15000	<25	<25	
5/30/2006	51.05	13.76	NP	37.29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8/29/2006	51.05	17.86	NP	33.19	1200	1200	580	<25	<25	<25	--	<25	<25	<25	2100	<15000	<25	<25	
11/29/2006	51.05	20.25	NP	30.80	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2/20/2007	51.05	16.91	NP	34.14	780	780	66	1.5	2	1.4	--	<1	<1	<1	380	<600	<1	<1	
5/25/2007	51.05	17.28	NP	33.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

TABLE 3  
GROUND WATER GAUGING AND ANALYTICAL DATA  
76 (FORMERLY BP) STATION NO. 111117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft amsl)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Water Elevation* (ft amsl)	DRO (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (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	8/9/2007	51.05	19.71	NP	31.34	650	650	150	<0.5	<0.5	2	--	<0.5	<0.5	<0.5	790	<300	<0.5	<0.5
	11/9/2007	51.05	21.62	NP	29.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/2007	38.63	21.66	NP	16.97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/12/2008	38.63	16.30	NP	22.33	890	890	27	2.5	28	5.4	--	<0.5	<0.5	<0.5	37	<100	<0.5	<0.5
	5/22/2008	38.63	18.10	NP	20.53	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/25/2008	38.63	20.93	NP	17.70	180	180	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	75	<300	<0.5	<0.5
	12/17/2008	38.63	22.86	NP	15.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/25/2009	38.63	18.78	NP	19.85	600	600	11	0.86	1.1	2.2	<0.50	--	--	--	--	--	--	--
	5/21/2009	38.63	17.95	NP	20.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/14/2009	38.63	20.81	NP	17.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/2010	38.63	16.71	NP	21.92	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
	8/20/2010	38.63	17.22	NP	21.41	137	137	26.5	<0.50	<0.50	<1.5	0.91	<0.50	<0.50	<0.50	92.5	<250	<1.0	<1.0
	2/7/2011	38.63	16.18	NP	22.45	78.5	78.5	1.6	<0.50	<0.50	<1.5	0.64	<0.50	<0.50	<0.50	27.6	<250	<1.0	<1.0
	8/15/2011	38.63	VO	VO	VO	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/20/2012	44.35	18.88	NP	25.47	204	204	43.2	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	59.1	<250	<1.0	<1.0
8/31/2012	44.35	19.68	NP	24.67	<50	<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	
9/27/2012	44.35	20.25	NP	24.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/5/2013	44.35	16.44	NP	27.91	--	<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	
8/14/2013	44.35	20.40	NP	23.95	--	<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	
MW-10	1/9/1998	46.17	20.97	NP	25.20	<50	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	5/6/1998	46.17	18.07	NP	28.10	800	800	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/21/1998	46.17	18.28	NP	27.89	80	80	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	12/30/1998	46.17	22.22	NP	23.95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/2/1999	46.17	21.83	NP	24.34	940	940	<10	<10	<10	<10	--	--	--	--	--	--	--	--
	5/10/1999	46.17	17.99	NP	28.18	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/23/1999	46.17	22.61	NP	23.56	<50	<50	<1	<1	<1	1.4	--	--	--	--	--	--	--	--
	12/23/1999	46.17	23.75	NP	22.42	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/2000	46.17	18.83	NP	27.34	1900	1900	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	5/22/2000	46.17	19.47	NP	26.70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/31/2000	46.17	22.64	NP	23.53	1700	1700	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	12/11/2000	46.17	22.84	NP	23.33	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/20/2001	46.17	19.57	NP	26.60	16000	16000	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--
	6/19/2001	46.17	20.63	NP	25.54	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/20/2001	46.17	23.07	NP	23.10	5800	5800	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--
	12/27/2001	46.17	20.92	NP	25.25	6600	6600	17.3	14.5	<12.5	<25	--	--	--	--	--	--	--	--
	2/28/2002	46.17	18.52	NP	27.65	3600	3600	10.8	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	6/28/2002	46.17	18.41	NP	27.76	<50	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	9/12/2002	46.17	20.57	NP	25.60	660	660	<5	<5	<5	<5	--	--	--	--	--	--	--	--
	12/12/2002	46.17	22.80	NP	23.37	1400	1400	<5	<5	<5	<5	--	--	--	--	--	--	--	--
	3/10/2003	46.17	19.26	NP	26.91	1700	1700	<5	<5	5.3	15	--	--	--	--	--	--	--	--
	5/12/2003	46.17	17.90	NP	28.27	1500	1500	<12	<12	<12	<12	--	--	--	--	--	--	--	--
	8/27/2003	46.17	20.82	NP	25.35	4100	4100	<25	<25	<25	<25	--	<25	<25	<25	<1000	<5000	--	--
	11/10/2003	46.17	21.92	NP	24.25	<5000	<5000	<50	<50	<50	<50	--	<50	<50	<50	<2000	<10000	--	--
	2/3/2004	46.17	18.52	NP	27.65	5100	5100	<50	<50	<50	<50	--	<50	<50	<50	<2000	<10000	<50	<50
	5/4/2004	46.17	17.63	NP	28.54	<2500	<2500	<25	<25	<25	<25	--	<25	<25	<25	<1000	<5000	<25	<25
	8/31/2004	46.17	20.67	NP	25.50	<5000	<5000	<50	<50	<50	<50	--	<50	<50	<50	<2000	<10000	<50	<50
	11/23/2004	46.17	19.79	NP	26.38	2600	2600	<25	<25	<25	<25	--	<25	<25	<25	<1000	<5000	<25	<25
	1/18/2005	46.17	16.13	NP	30.04	560	560	<5	<5	<5	<5	--	<5	<5	<5	<200	<1000	<5	<5
	6/29/2005	46.17	15.56	NP	30.61	110	110	1.9	4.6	4.2	17	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
9/1/2005	46.17	18.10	NP	28.07	<250	<250	<2.5	<2.5	<2.5	<2.5	--	<2.5	<2.5	<2.5	<100	<500	<2.5	<2.5	
11/3/2005	46.17	20.90	NP	25.27	800	800	<5	<5	<5	7	--	<5	<5	<5	<200	<1000	<5	<5	
2/14/2006	46.17	15.58	NP	30.59	600	600	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	1.2	<300	<0.5	<0.5	
5/30/2006	46.17	14.70	NP	31.47	95	95	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5	
8/29/2006	46.17	18.69	NP	27.48	250	250	<5	<5	<5	<5	--	<5	<5	<5	<200	<3000	<5	<5	
11/29/2006	46.17	21.35	NP	24.82	650	650	<5	<5	<5	<5	--	<5	<5	5.8	<200	<3000	<5	<5	
2/20/2007	46.17	18.65	NP	27.52	720	720	<5	<5	<5	<5	--	<5	<5	<5	<200	<3000	<5	<5	
5/25/2007	46.17	18.15	NP	28.02	130	130	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	0.69	<20	<300	<0.5	<0.5	

TABLE 3  
GROUND WATER GAUGING AND ANALYTICAL DATA  
76 (FORMERLY BP) STATION NO. 111117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft amsl)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Water Elevation* (ft amsl)	DRO (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (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	8/9/2007	46.17	20.83	NP	25.34	970	970	<10	<10	<10	<10	--	<10	<10	<10	<400	<6000	<10	<10
	11/9/2007	46.17	22.53	NP	23.64	1100	1100	<10	<10	<10	13	--	<10	<10	<10	<400	<6000	<10	<10
	12/14/2007	40.45	22.62	NP	17.83	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/11/2008	40.45	17.86	NP	22.59	<50	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	2.6	<10	<100	<0.5	<0.5
	5/22/2008	40.45	19.05	NP	21.40	81	81	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<10	<300	<0.5	<0.5
	8/25/2008	40.45	21.88	NP	18.57	<50	<50	<0.5	1	<0.5	0.98	--	<0.5	<0.5	2.2	<10	<300	<0.5	<0.5
	12/17/2008	40.45	23.32	NP	17.13	<50	<50	<20	<20	<20	<20	--	<20	<20	<20	<400	<12000	<20	<20
	2/25/2009	40.45	20.07	NP	20.38	84	84	<5.0	<5.0	<5.0	<5.0	290	--	--	--	--	--	--	--
	5/21/2009	40.45	18.80	NP	21.65	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	--
	8/14/2009	40.45	21.76	NP	18.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/2010	40.45	17.80	NP	22.65	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	21.9	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
	8/20/2010	40.45	18.64	NP	21.81	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
	2/7/2011	40.45	17.02	NP	23.43	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	0.53	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
	8/15/2011	40.45	17.76	NP	22.69	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	13.8	<0.50	<0.50	<0.50	13.1	<250	<1.0	<1.0
	2/20/2012	46.17	20.00	NP	26.17	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	65.1	<0.50	<0.50	<0.50	5.3	<250	<1.0	<1.0
8/31/2012	46.17	20.79	NP	25.38	<50	<50	<0.50	<0.50	<0.50	<0.50	57	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	
2/5/2013	46.17	17.59	NP	28.58	--	<50	<0.50	<0.50	<0.50	<0.50	3.1	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	
8/14/2013	46.17	21.70	NP	24.47	--	<50	<0.50	<0.50	<0.50	<0.50	100	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	
MW-11	12/14/2007	37.64	20.16	NP	17.48	8000	8000	<10	72	230	760	--	<10	<10	<10	<400	<6000	<10	<10
	2/12/2008	37.64	14.35	NP	23.29	5500	5500	46	13	220	160	--	<2.5	<2.5	<2.5	<50	<500	<2.5	<2.5
	5/22/2008	37.64	16.63	NP	21.01	5700	5700	80	21	320	150	--	<5	<5	<5	<100	<3000	<5	<5
	8/25/2008	37.64	19.48	NP	18.16	5300	5300	<5	20	120	320	--	<5	<5	<5	<100	<3000	<5	<5
	12/17/2008	37.64	21.26	NP	16.38	12000	12000	2.4	2.6	30	54	--	<0.5	<0.5	<0.5	<10	<300	<0.5	<0.5
	2/25/2009	37.64	16.38	NP	21.26	6800	6800	0.86	20	150	390	<0.50	--	--	--	--	--	--	--
	5/21/2009	37.64	16.16	NP	21.48	2500	2500	1.5	4.4	36	82	1.5	--	--	--	--	--	--	--
	8/14/2009	37.64	19.27	NP	18.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/2010	37.64	13.35	NP	24.29	820	820	0.53	0.86	9.0	15.4	1.4	<0.50	<0.50	<0.50	6.1	<250	<1.0	<1.0
	8/20/2010	37.64	15.66	NP	21.98	1740	1740	0.52	1.4	16.5	26.1	1.2	<0.50	<0.50	<0.50	8.2	<250	<1.0	<1.0
	2/7/2011	37.64	13.55	NP	24.09	1530	1530	<0.50	1.3	14.3	24.1	1.1	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
	8/15/2011	37.64	14.58	NP	23.06	1530	1530	<0.50	0.80	9.2	8.0	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
	2/20/2012	43.34	16.24	NP	27.10	2180	2180	0.65	3.5	48.9	70.6	0.73	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
	6/27/2012	43.34	15.40	NP	27.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/31/2012	43.34	17.61	NP	25.73	1800	1800	<0.50	2.3	40	46	0.58	<0.50	<0.50	<0.50	5.1	<5.0	<0.50	<0.50
9/27/2012	43.34	18.45	NP	24.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/5/2013	43.34	14.30	NP	29.04	--	870	<0.50	<0.50	8.5	8.4	<0.50	<0.50	<0.50	<0.50	<5.0	<8.0	<0.50	<0.50	
8/14/2013	43.34	18.35	NP	24.99	--	2,200	<0.50	3.4	68	61	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	

Gauging Notes:

TOC - Top of Casing  
Well Screen Interval - Top of Screen to Bottom of Screen  
ft - Feet  
NP - LNAPL not present  
\* - Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.75)  
NG - Not gauged  
VO - Vehicle Obstruction  
NSVD - Not surveyed  
-- - No information available

Analytical Notes:

-- - No information available  
< - Below the laboratory's indicated reporting limit  
NS - Well not sampled.  
ug/L - micrograms/liter  
DRO - Diesel range organics  
TPHg - Total petroleum hydrocarbons as gasoline  
MTBE - Methyl tert-butyl ether  
DIPE - Di-isopropyl ether  
ETBE - Ethyl tert-butyl ether  
TAME - Tert-amyl methyl ether  
TBA - Tert-butyl alcohol  
**Bold** - Above the laboratory's indicated reporting limit

TABLE 3a  
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA  
 76 (FORMERLY BP) STATION NO. 111117  
 7210 BANCROFT AVENUE  
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER ANALYTICAL DATA																
		Alkalinity, Total as CaCO3 (mg/L)	Biochemical Oxygen Demand (ug/L)	Chemical Oxygen Demand (ug/L)	Chloride (ug/L)	Chromium (ug/L)	Chromium, Hexavalent (ug/L)	Iron SW6010 T (ug/L)	Iron SW6010B T (mg/L)	Iron, Ferric (ug/L)	Iron, Ferrous (ug/L)	Methane (ug/L)	Nitrate as N (ug/L)	Nitrite as N (ug/L)	Nitrogen (ug/L)	Nitrogen, Ammonia (ug/L)	Nitrogen, Nitrate (mg/L)	Nitrogen, NO2 plus NO3 (ug/L)
DPE-1	8/15/2011	--	<b>4560</b>	<b>27900</b>	<b>25200</b>	<b>0.66</b>	<0.2	<b>11100</b>	--	<b>9490</b>	<b>1600</b>	<b>1500</b>	<b>108</b>	<b>13.1</b>	<1000	<100	--	<b>121</b>
DPE-4	8/15/2011	--	<b>55000</b>	<b>113000</b>	<b>26400</b>	<b>4</b>	<0.2	<b>10800</b>	--	<b>3230</b>	<b>7600</b>	<b>16100</b>	<50.0	<b>39.6</b>	<b>1770</b>	<100	--	<b>62.1</b>
DPE-5	12/14/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/12/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/22/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/25/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/17/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/25/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/15/2011	--	<b>21200</b>	<b>53900</b>	<b>32100</b>	<b>28</b>	<0.2	<b>20500</b>	--	<b>14000</b>	<b>6500</b>	<b>13900</b>	<50.0	<b>28.8</b>	<b>1320</b>	<100	--	<50.0
EX-1	8/15/2011	--	<b>8680</b>	<b>29800</b>	<b>19100</b>	<b>2.9</b>	<0.2	<b>1420</b>	--	<100	<b>1400</b>	<b>5040</b>	<b>52.9</b>	<10.0	<b>1120</b>	<b>185</b>	--	<b>59.7</b>
	2/20/2012	--	--	--	--	--	--	--	--	--	<0.50	--	--	--	--	--	--	--
	8/31/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/27/2012	--	--	--	--	--	--	<b>0.77</b>	--	--	<100	<b>1670</b>	--	--	--	--	<0.10	--
	2/5/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX-2	8/15/2011	--	<b>579000</b>	<b>7420</b>	<b>17100</b>	<b>2.2</b>	<0.2	<b>932</b>	--	<b>932</b>	<100	<b>208</b>	<b>12100</b>	<10.0	<1000	<100	--	12100
	2/20/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/31/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/27/2012	--	--	--	--	--	--	<0.10	--	--	<100	<1.00	--	--	--	--	<b>43</b>	--
	2/5/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	3/7/2012	<b>525</b>	--	<b>63000</b>	--	--	--	<b>2.08</b>	<b>4.55</b>	--	--	<b>5870</b>	--	--	--	--	--	--
	3/19/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/27/2012	<b>742</b>	--	<b>120000</b>	--	--	--	<b>2.23</b>	<b>4.89</b>	--	--	<b>5020</b>	--	--	--	--	<0.10	--
	5/29/2012	<b>496</b>	--	<b>100000</b>	--	--	--	<b>3.88</b>	<b>5.62</b>	--	--	<b>4300</b>	--	--	--	--	<0.10	--
	6/27/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/31/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/27/2012	<b>556</b>	--	<b>520000</b>	--	--	--	<b>6.57</b>	<b>27.1</b>	--	--	<b>4340</b>	--	--	--	--	<0.10	--
	2/5/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	9/27/2012	--	--	--	--	--	--	<0.10	--	--	<100	<b>38.6</b>	--	--	--	--	<b>3.0</b>	--
	2/5/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	9/27/2012	--	--	--	--	--	--	<b>1.6</b>	--	--	<b>1800</b>	<b>1770</b>	--	--	--	--	<0.10	--
	2/5/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analytical Notes:

- - No information available
- < - Below the laboratory's indicated reporting limit
- µg/L - micrograms/liter
- mg/L - milligrams/liter
- Bold** - Above the laboratory's indicated reporting limit

**TABLE 3a CONTINUED**  
**ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA**  
**76 (FORMERLY BP) STATION NO. 111117**  
**7210 BANCROFT AVENUE**  
**OAKLAND, CALIFORNIA**



Well I.D.	Date	GROUND WATER ANALYTICAL DATA					
		Phosphate, Ortho (ug/L)	Phosphorous (ug/L)	Sulfate E300 (ug/L)	Sulfide SM4500 (ug/L)	Total Organic Carbon A5310 (mg/L)	Total Organic Carbon A5310C (ug/L)
DPE-1	8/15/2011	<b>219</b>	<b>236</b>	<b>14300</b>	<b>1040</b>	--	<b>3640</b>
DPE-4	8/15/2011	<b>502</b>	<b>732</b>	<1000	<b>1080</b>	--	<b>14000</b>
DPE-5	8/15/2011	<b>240</b>	<b>134</b>	<1000	<b>1600</b>	--	<b>9360</b>
EX-1	8/15/2011	<b>148</b>	<b>107</b>	<b>3830</b>	<b>1080</b>	--	<b>11600</b>
	2/20/2012	--	--	--	--	--	--
	8/31/2012	--	--	--	--	--	--
	9/27/2012	--	--	<0.50	--	--	--
	2/5/2013	--	--	--	--	--	--
EX-2	8/15/2011	<b>162</b>	<b>106</b>	<b>17600</b>	<b>760</b>	--	<b>2010</b>
	2/20/2012	--	--	--	--	--	--
	8/31/2012	--	--	--	--	--	--
	9/27/2012	--	--	<b>28</b>	--	--	--
	2/5/2013	--	--	--	--	--	--
	3/7/2012	--	--	--	<0.050	--	<b>7.8</b>
	3/19/2012	--	--	--	--	--	--
	4/27/2012	--	--	<b>13</b>	<b>0.20</b>	--	<b>25</b>
MW-4	5/29/2012	--	--	<1.0	<b>0.25</b>	<b>63</b>	<b>63</b>
	6/27/2012	--	--	--	--	--	--
	8/31/2012	--	--	--	--	--	--
	9/27/2012	--	--	<1.0	<b>0.20</b>	<b>73</b>	<b>73</b>
	2/5/2013	--	--	--	--	--	--
MW-9	9/27/2012	--	--	<b>38</b>	--	--	--
	2/5/2013	--	--	--	--	--	--
MW-11	9/27/2012	--	--	<b>11</b>	--	--	--
	2/5/2013	--	--	--	--	--	--

**Analytical Notes:**

-- - No information available

< - Below the laboratory's indicated reporting limit

µg/L - micrograms/liter

**Bold** - Above the laboratory's indicated reporting limit

*Semi-Annual Summary Report, April through September 2013*  
*76 (Former BP) Station No. 11117*  
*7210 Bancroft Avenue, Oakland, California USA*  
*Antea Group Project No. I42611117*



## ***Appendix A***

Site Details and Summary of Previous Environmental Investigations

## SITE LOCATION AND BACKGROUND

The Site is an active 76-brand gasoline retail outlet located on the northern corner of Bancroft Avenue and 73rd Avenue at 7210 Bancroft Avenue in Oakland, Alameda County, California (**Figure 1**). The site consists of a service station building, three 12,000-gallon gasoline underground storage tanks (USTs), and one 10,000-gallon diesel UST with associated piping and dispensers. The site is covered with asphalt or concrete surfacing except for planters along the southeastern and southwestern property boundaries and at the north corner of the property.

Land use in the immediate vicinity of the site is mixed commercial and residential. BP acquired the facility from Mobil Oil Corporation in 1989. In January 1994, BP transferred the property to TOSCO Marketing Company (TOSCO) and has not operated the facility since that time.

## SUMMARY OF PREVIOUS ENVIRONMENTAL INVESTIGATIONS

**1984 UST Replacement:** In 1984, the pre-existing USTs at the site were removed and three single-walled fiberglass gasoline underground storage tanks (USTs) (6,000-gallon, 10,000-gallon, and 12,000-gallon) and one 6,000-gallon diesel UST were installed in a cavity immediately to the northeast of the former USTs. A UST removal/installation report is not on file, and it is unknown if one was ever prepared. No documentation was reportedly found referencing the conditions of the removed USTs or reporting evidence of the hydrocarbon impacts in the soil and groundwater, if any, at the time of the UST removal.

**1989 Phase II Environmental Audit:** In December 1989, Hunter Environmental Services, Inc. (Hunter) performed a Phase II Environmental Audit on the adjacent Eastmont Town Center site located to the north and northwest of the former BP Site. Part of the Phase II study included the installation monitoring well MW-3 near the western boundary of the former BP Site. Soil samples collected from 10 and 20 feet below ground surface (bgs) from MW-3 were analyzed for total petroleum hydrocarbons (TPH), benzene, toluene, ethyl benzene, and total xylenes (BTEX), and oil and grease. No analytes were reported above their respective laboratory reporting limits (LRLs). A groundwater sample collected from MW-3 was reported to contain TPH and benzene at concentrations of 2,700 micrograms per liter ( $\mu\text{g/L}$ ) and 530  $\mu\text{g/L}$ , respectively (Hunter, 1989).

**1991 Phase I Subsurface Investigation:** In December 1991, Hydro Environmental Technologies, Inc. (Hydro) drilled two on-site soil borings (MW-1 and MW-2) to total depths of 40 feet bgs, and soil samples were collected at 10-foot intervals between 5 and 25 feet bgs. First groundwater was encountered at approximately 30 feet bgs. The analytical results of the soil samples from MW-1 and MW-2 reported total petroleum hydrocarbons as gasoline (TPH-g) and BTEX at concentrations below their respective LRLs (Hydro, 1991).

**1992 Phase I Subsurface Investigation:** In July 1992, Hydro advanced boring MW-4 and MW-6 to total depths of 40 feet bgs, and boring B-5 was advanced to 50 feet bgs, First groundwater was encountered at approximately 30 feet bgs in borings MW-4 and MW-6, and no free water was encountered in boring B-5. The analytical results of soil samples collected at 30 feet bgs from B-5 and MW-6 reported TPH-g and BTEX at concentrations below their respective LRLs. The maximum TPH-g and BTEX concentrations in soil reported in MW-4 were 6,000 milligrams per kilogram (mg/kg) and 34 mg/kg, respectively, from a depth of 20 feet bgs. Borings MW-4 and MW-6 were subsequently converted into monitoring wells (Hydro, 1992).

**1994 Baseline Assessment Report:** In September 1994, EMCON performed a Supplemental Site Assessment at the site. Four exploratory soil borings (THP-1, TB-2, TB-3, TB-4) were advanced to a maximum depth of 45 feet bgs north of the former and existing UST complexes (THP-1), at the former service bays (TB-2), north of the northern pump island (TB-3), and at a former pump island (TB-4). Additionally, one soil sample was collected from beneath each of the five dispensers (TD-1 through TD-5). Groundwater was encountered in TB-2 and TB-3 at approximately 33 to 36 feet bgs and groundwater samples were collected from TB-2 and TB-3 via temporarily well points. Maximum concentrations of 16 mg/kg TPH-g (TD-3), TPH as diesel (TPH-d) at concentrations ranging from 110 mg/kg to 5,000 mg/kg (TD-1 through TD-5), and benzene at concentrations below LRLs were reported in soil samples. TPHg was not reported above the LRLs and a maximum concentration of 0.7 µg/L benzene (TB-3) was reported in groundwater samples (EMCON, 1994).

**1994 Well Installation:** In October 1994, Hydro advanced boring MW-7 to a total depth of 45 feet bgs, and borings MW-8 and MW-9 were advanced to total depths of 40 feet bgs. First encountered groundwater was at approximately 27 feet bgs to 32 feet bgs. TPH-g and BTEX were not detected above their respective LRLs in soil samples collected from 25 feet bgs in each boring. The three borings were subsequently converted into monitoring wells MW-7 through MW-9 (Hydro, 1995).

**1997 Offsite Well Installation:** In July 1997, Pacific Environmental Group (PEG) drilled one boring (MW-10) offsite to a depth of approximately 37.5 feet bgs. Soil samples were collected and the boring was subsequently converted into a monitoring well. First groundwater was encountered at approximately 26 feet bgs. No TPH-g, BTEX or methyl tertiary butyl ether (MTBE) was detected in soil samples at concentrations above their respective LRLs in MW-10. TPH-g and BTEX were not detected in the groundwater sample from MW-10 at concentrations above their respective LRLs. However, MTBE was detected at concentration of 13 µg/L using EPA Method 8020 (PEG, 1997).

**1998 UST and Associated Piping and Dispenser Removal:** In August 1998, Environmental Resolutions, Inc. (ERI) removed the three gasoline USTs (6,000-gallon, 10,000-gallon, and 12,000-gallon), one 6,000-gallon diesel UST, and associated dispensers and piping from the site. There was no visible evidence of leakage from the USTs removed. A total of eight native soil samples were collected from beneath each end of the removed USTs (denoted as A through H on **Figure 2**) at depths of 14 to 16 feet bgs, and a total of 18 soil samples (denoted as I through Z on **Figure 2**) were collected from the former dispenser locations and from beneath the associated product lines at three feet bgs (ERI, 1998).

TPH-g was reported in five of the eight UST excavation samples at concentrations ranging from 3.7 mg/kg (S-15-T2S) to 5,300 mg/kg (S-15-T1S). TPH-d was detected at 630 mg/kg (S-15-T1N) and 800mg/kg (S-15 T1S) into two samples, benzene concentrations ranged between 0.40 mg/kg (S-15-T1N) to 0.95 mg/kg (S-16-T3N) in three samples, MTBE concentrations ranged between 0.028 mg/kg (S-14-T4S) to 5.3 mg/kg (S-16-T3N) in seven samples, and lead was not reported in the sample analyzed for lead. TPH-g was reported in nine of the eighteen dispenser and product line samples with concentrations ranging between 1.4 mg/kg (S-3-PL12) to 7,200 mg/kg (S-3-D4). TPH-d was detected between 4.8 mg/kg (S-3-PL12) to 190 mg/kg (S-3-PL11) in five samples, benzene was detected between 0.0089 mg/kg (S-3-PL12) to 22 mg/kg (S-3-D4) in three samples and MTBE was detected between 0.048 mg/kg (S-3-PL12) to 15 mg/kg (S-3-PL1) in ten samples (ERI, 1998).

During the 1998 UST replacement activities, approximately 389 tons of soil and backfill were transported off-site disposal. The existing 10,000-gallon diesel and three 12,000-gallon gasoline USTs were installed as replacements (ERI, 1998).



**1999 Groundwater Recovery Test:** In April 1999, Alisto Engineering Group (Alisto) conducted groundwater recovery tests on wells MW-1 through MW-4, MW-6, MW-7 and MW-10 to assess the spatial variation in hydraulic conductivity in the shallow water-bearing zone across the Site. Testing by the Bouwer-Rice method yielded hydraulic conductivities of  $2.46 \times 10^{-2}$  ft/min for MW-1,  $2.42 \times 10^{-4}$  ft/min for MW-2,  $3.82 \times 10^{-4}$  ft/min for MW-3,  $5.75 \times 10^{-4}$  ft/min for MW-4,  $1.99 \times 10^{-2}$  ft/min for MW-6,  $1.09 \times 10^{-4}$  ft/min for MW-7 and  $8.78 \times 10^{-5}$  ft/min for MW-10. The geometric mean of the hydraulic conductivity and flow velocity values were calculated to be  $1.37 \times 10^{-5}$  feet per second and 73.85 feet per year, respectively (Alisto, 1999).

**1999 Extraction Well Installation:** In November 1999, Cambria Environmental Technology, Inc. (Cambria) installed two 4-inch diameter wells (EX-1 and EX-2) on-site to facilitate potential remedial activities at the site. Well EX-1 was drilled to 39.5 feet bgs and EX-2 was drilled to 36.5 feet bgs. Groundwater was first encountered at 26 feet bgs. No TPH-G or BTEX, and relatively low MTBE concentrations (below 0.012 mg/kg) were reported in soil samples collected from EX-1 and EX-2 (Cambria, 2000).

**2000 Interim Remedial Action and Recovery Testing:** Between March 16 and April 30, 2000, Cambria conducted interim remedial activities at the site to evaluate the effectiveness of hydrocarbon and MTBE reduction using short-term groundwater extraction. During eight extraction events, approximately 10,900 gallons of groundwater was extracted from wells EX-1, EX-2 and MW-2. During the extraction events, stable to slightly decreasing hydrocarbon and MTBE concentration trends were reported in samples collected from wells MW-2 and EX-1, located immediately southwest of the existing USTs. Samples from well EX-2, located north of the existing USTs, exhibited lower hydrocarbon and MTBE concentrations than MW-2 and EX-1. In April 2000, during the batch extraction events, recovery tests were conducted on wells EX-1, EX-2 and MW-2. Based on the recovery test measurements, the calculated hydraulic conductivity values ranged from  $1.85 \times 10^{-4}$  ft/min to  $8.33 \times 10^{-4}$  ft/min with resulting flow velocities of 16 ft/year to 73 ft/year at well MW-2 (Cambria, 2000).

The calculated hydraulic conductivity values ranged from  $2.02 \times 10^{-5}$  ft/min to  $3.85 \times 10^{-5}$  ft/min for well EX-1 with resulting flow velocities of 1.8 to 3.4 Ft/yr. And a well EX-2, the calculated hydraulic conductivity values ranged from  $3.04 \times 10^{-4}$  ft/min to  $2.13 \times 10^{-3}$  ft/min for resulting flow velocities of 27 ft/year to 187 ft/year. The geometric mean of these values is a hydraulic conductivity of  $3.0 \times 10^{-4}$  ft/min and resulting flow velocity of 26 ft/year (Cambria, 2000).

**2001 Dual-Phase Extraction Pilot Test:** From October 29, through November 2, 2001, Cambria performed a dual phase soil vapor and groundwater extraction (DPE) pilot test on the monitoring wells with the highest historical hydrocarbon concentrations (i.e., MW-2 and MW-4) and the extraction wells (EX-1 and EX-2) at the site. The DPE test results indicated that the vacuum influence was limited to within 18 to 28 feet of the extraction well. Water levels typically decreased several feet in the extraction wells and had a varied response in the observation wells. Estimated vapor-phase removal rates were approximately 200-pounds of hydrocarbon per day in wells MW-4 and EX-1, and less than 5-pounds of hydrocarbon per day in wells MW-2 and EX-2 (Cambria 2002).

Soil vapor concentrations showed a decreasing trend in wells MW-4 and EX-1 during the short-term pilot tests. Grab water samples collected before and after the pilot tests remained the same order of magnitude. A total of 6,500 gallons of water was extracted during the DPE pilot test and appropriately disposed off-site. Overall, the test results indicated that DPE is a feasible remedial alternative for the site (Cambria, 2002). Alameda County Environmental Health (ACEH) approved Cambria's August 8, 2002, *Dual Phase Extraction Pilot Test Report* as a Corrective Action Plan (CAP).

**2005 Soil and Water Investigation:** In Fall 2005, URS completed nine Geoprobe soil borings with co-located Hydropunch borings. The first phase of work was on-site source area characterization: five boring locations (A-1 through A-5) were advanced in the vicinity of the possible hydrocarbons source areas such as locations of former and current USTs, products dispensers, and in the vicinity of MW-4 to adequately characterize the lateral and vertical extent of petroleum hydrocarbons in soils in the identified source areas. An off-site assessment was completed during the second phase of work (borings A-7 through A-10) to further define the downgradient, cross-gradient, and up-gradient extent of the groundwater plume (soil boring A-6 was unable to be advanced due to close proximity to electric lines and product piping). Maximum concentrations of gasoline range organics (GRO), benzene, and MTBE were detected in soil at concentrations of 490 mg/kg [A-4 (23.5-24')], 0.11 mg/kg [A-5 (35-35.5')], and 0.84 mg/kg [A-1 (46-46.5')], respectively. Maximum concentrations of GRO, benzene, and MTBE were detected in ground water at concentrations of 510,000 µg/L [A-2 (21.3')], 11,000 µg/L [A-4 (34-36')], and 39,000 µg/L [A-4 (34-36')], respectively (URS, 2005).

The cross-gradient and downgradient lateral extents of the dissolved hydrocarbon plume were characterized during the last investigation. However, the vertical extent of the dissolved-phase hydrocarbons on the southern portion of the site was not defined. Specifically, significantly elevated concentrations were detected in Hydropunch groundwater samples collected from the bottom depths of soil borings A-2, A-3 and A-4. The bottom Hydropunch sample from boring A-2 (40-42 ft bgs) contained concentrations of GRO, benzene, and MTBE at 36,000 µg/L, 1,800 µg/L, and 110 µg/L, respectively. The bottom Hydropunch sample from boring A-3 (34-36 ft bgs) contained concentrations of GRO, benzene, and MTBE at 12,000µg/L, 21µg/L, and 8.3µg/L respectively. The bottom Hydropunch sample from boring A-4 (34-36 ft bgs) contained GRO, benzene, and MTBE concentrations of 120,000µg/L, 11,000µg/L and 39,000 µg/L respectively (URS, 2005).

Therefore, the vertical extent of dissolved phase petroleum hydrocarbon contamination remains unknown in this southern area of the site (URS, 2005). A work plan for soil and water investigation to delineate the vertical extent of contamination in the southern portion of the site was submitted to ACEH in October 2006.

**2007 Soil and Groundwater Investigation:** In April 2007, Stratus Environmental, Inc. (Stratus) advanced cone penetrometer test (CPT) borings in three locations onsite (CPT-1 through CPT-3) to maximum depths of 60 feet bgs. CPT-1 was advanced southwest of the dispenser islands and southeast of monitoring well MW-1; CPT-2 was advanced south of the dispenser islands and southwest of monitoring well MW-4; CPT-3 was advanced in the eastern corner of the side as requested by the ACEH. An Ultraviolet Induced Fluorescence (UVIF) module was used at each CPT boring location, analyzing the vertical extent of petroleum hydrocarbons in addition to providing soil profiling data. Groundwater samples were collected from multiple depths at each boring locations; physical soil samples were not collected during this investigation.

- GRO was detected above laboratory reporting limits in five of the seven groundwater samples, ranging from 170 µg/L (CPT-3-28-32') to 170,000 µg/L (CPT-1-37-41').
- Benzene was detected above laboratory reporting limits in four of the seven groundwater samples, ranging from 0.51 µg/L (CPT-3-23-27') to 7,700 µg/L (CPT-2-37-41').
- Toluene was detected above laboratory reporting limits in three of the seven groundwater samples, ranging from 57 µg/L (CPT-1-30-34') to 670 µg/L (CPT-2-28-32').

- Ethylbenzene was detected above laboratory reporting limits in four of the seven groundwater samples, ranging from 530 µg/L (CPT-2-37-41') to 2,600 µg/L (CPT-1-37-41').
- Total xylenes were detected above laboratory reporting limits in four of the seven groundwater samples, ranging from 290 µg/L (CPT-2-37-41') to 9,600 µg/L (CPT-1-37-41').
- MTBE was detected above laboratory reporting limits in five of the seven groundwater samples, ranging from 4.4 µg/L (CPT-3-56-60') to 6,500 µg/L (CPT-2-37-41').
- TBA was detected above laboratory reporting limits in groundwater sample CPT-2-37-41' at 2,400 µg/L.

**2007-2008 DPE System Installation:** Construction of the DPE system was started by Broadbent & Associates, Inc (BAI) and Stratus in late 2007. The system consists of a thermal/catalytic oxidizer with a 25 horsepower liquid ring blower designed to extract water and vapor from six on-site extraction wells. Extracted vapor were to be treated by thermal/catalytic oxidation and discharged to the atmosphere under the oversight of the Bay Area Air Quality Management District. Extracted groundwater was to be treated by a sediment filter and three 1,000 pounds carbon vessels before being discharged into the City of Oakland sanitary sewer system. DPE wells DPE-1 through DPE-5 were installed at the site to total depths ranging from 35 feet to 40 feet bgs. Well MW-2 was overdrilled and destroyed to allow DPE-4 to be installed in the same borehole. The system is currently connected to six wells (DPE-1 through DPE-5 and EX-1) (BAI, 2008a).

As of the end of the fourth quarter 2008 the system had not been started. BAI and Stratus were still coordinating with Pacific Gas & Electric (PG&E) to install electrical service to the system. Natural gas was completed to the site and system in third quarter 2008 (BAI, 2008a).

During DPE construction activities, on-site groundwater monitoring well MW-11 was installed to a total depth of 40 feet bgs on the southern corner of the site. Soil samples collected at 20 feet and 30 feet bgs reported maximum concentrations of 1.9 mg/kg GRO and 0.0089 mg/kg benzene. MTBE was not reported above the LRL in either of the soil samples (BAI, 2008a).

**2009-2011 DPE System Startup Efforts:** In 2009, Antea Group (formerly Delta Consultants) began coordinating with nearby businesses (Eastmont Mall and Burger King) for the 3-phase power source. Due to financial consideration, Antea Group also explored another alternative for the startup of the DPE system, which included reconfiguring the current system for single phase power.

**2011-2012 Remedial Action Site Investigation:** Antea Group submitted the *Remedial Action Investigation Work Plan*, dated August 03, 2011 to the ACEH. The ACEH approved the proposed scope of work in an agency letter to Antea Group dated September 1, 2011. In October 2011, Antea Group and subcontractors advanced borings C-1 through C-5, and advanced and installed remedial wells SVE-1 and AS-1 per the August 2011 Work Plan. Antea Group submitted a *Remedial Investigation Work Plan Addendum*, dated December 13, 2011 which proposes a postponement of the AS/SVE pilot test described in the August 3, 2011 *Remedial Action Investigation Work Plan* to utilize a new remedial strategy called Plume Stop, a product created by Regenesis. Between March 26 and 30, 2012, Antea Group and Regenesis oversaw subcontractor Vironex inject Plume Stop at nine soil boring locations using direct push technology. Antea Group is currently conducting post injection groundwater monitoring events as outlined in the December 2011 Work Plan Addendum..

## FREE PRODUCT RECOVERY DURING GROUNDWATER MONITORING EVENTS

Free product was observed in groundwater monitoring well MW-2 between the 1993 and 1998, at thicknesses ranging from 2.60 feet (3/30/1994) to less than 0.01 feet (10/2/1997 to 7/21/1998). When free product was observed in the well, it was removed by bailer. Between 1993 and 1998, a cumulative total of 24.90 gallons of free product had been removed from the well (Alisto, 1998).

Free product was also observed in well MW-4 during the third quarter 2001 (0.03 inches), fourth quarter 2006 (0.11 inches), first quarter 2008 (0.01 inches), and third quarter 2008 (0.05 inches); and in EX-2 during the second quarter 2007 (0.01 inch). With the exception of 1.5 gallons of a free product/water mixture recovered from MW-4 during the third quarter 2008 (BAI, 2008b), free product was not recovered from these wells when observed.

## SENSITIVE RECEPTORS

**2000 Potential Receptor Survey, Expanded Site Plan and Well Search:** In October 2000, Alisto completed a potential receptor survey, prepared an expanded site plan with neighboring property parcel information and underground utilities mapped, and identified wells in the vicinity of the site. A review of the files of the California Department of Water Resources (DWR) was performed to identify all known wells within one-half mile radius of the site. The results of the well search revealed that there were 17 wells other than the on-site monitoring wells. Of these, 11 were offsite monitoring wells; four were cathodic protection wells, one an industrial well, and one an irrigation well for a nearby cemetery. No domestic/municipal water supply wells were identified from review of the DWR files (Alisto, 2000).

**2010 Sensitive Receptor Survey:** Delta Consultants (Delta) submitted a *Sensitive Receptor Survey* in October 2010. As part of that receptor survey, Delta conducted a records review (environmental database search), a well radius search, and a search for other sensitive receptors which have the potential to be affected by the petroleum hydrocarbon release at the site. Delta's review of the historical aerial photographs indicated that the site in 1939 was primarily used for agricultural purposes with small family residences. In general, the site was developed to the current conditions with the station building in 1974. The historical topographic maps support the indication of residential houses and agriculture in the site region as early as 1915 to 1948. The well search indicated that 10 wells were within a one-mile radius of the site. DWR indicated the presence of 7 wells within a one-mile radius of the site. However, no records were found for the status of these wells as being active or abandoned. The main surface water bodies were Lake Merritt located northwest of the site and San Leandro Bay located west of the site. Several churches, schools and day care centers were located within a one-mile radius of the site. Based on the above identified receptors' distances from the site, directions from the site, and extent of hydrocarbon impact at the site, they were not anticipated to be affected by the petroleum hydrocarbon release at the site.

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*76 (Former BP) Station No. 11117*  
*7210 Bancroft Avenue, Oakland, California USA*  
*Antea Group Project No. I42611117*



## ***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.

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*Antea Group Project No. I42611117*



## ***Appendix C***

Blaine Tech Services Groundwater Sampling Field Data Sheets

## Well-Head Inspection & Well Gauging Form

Antea Group Project No: 261117 Site Address: 7210 Bancroft Ave  
 Field Technician: Daniel Allen, BTS Date: 8/14/13 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
4	MW-1	G	G	G	G	G	N	2	0805	18.52	36.50			
3	MW-3	G	G	G	G	G	N	2	0801	19.27	40.45			
11	MW-4	G	G	G	MA	MA	N	2	0835	19.70	38.80			
6	MW-6	G	G	G	G	G	N	2	0814	19.93	39.30			
5	MW-7	G	G	G	G	G	N	2	0809	20.15	44.30			
1	MW-8	G	G	G	G	G	N	2	0752	19.36	39.20			
8	MW-9	G	G	G	G	G	N	2	0822	20.40	36.70			
7	MW-10	G	G	P	G	G	N	2	0818	21.70	35.35			
9	MW-11	G	G	G	G	G	N	4	0826	18.35	37.00			
10	EX-1	G	G	G	MA	MA	N	4	0830	20.00	37.45			
2	EX-2	G	G	G	G	G	N	4	0757	21.00	35.00			

Notes: MW-10 1/2 tabs broken

\*\* 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>7210 Bancroft Ave, Oakland CA</u>	
Project No: <u>261117</u>	Field Technician: <u>DW</u>
Field Point: <u>MW-4</u>	Date: <u>8/14/13</u>
Depth to Water (DTW) (ft bgs): <u>19.78</u>	Well Diameter (in): <u>2</u> 4 6 8
Depth to LNAPL (ft bgs): <u>          </u>	Thickness of LNAPL (ft): <u>          </u>
Total Depth of Well (ft bgs): <u>38.80</u>	Water Column Height (ft): <u>19.10</u>

### Purging Info and Calculations:

<b>Purge Method:</b> Low-Flow <input checked="" type="checkbox"/> casing volumes Other: <u>                          </u>	<b>Purge Equipment:</b> Disposable Bailer <input checked="" type="checkbox"/> Electric Submersible Peristaltic Pump Bladder Pump Other: <u>                          </u>	<b>Sample Collection Method:</b> <input checked="" type="checkbox"/> Disposable Bailer Extraction Port Dedicated Tubing Disposable Tubing Other: <u>                          </u>
Water Column Height (ft): <u>19.10</u>	X Conversion Factor (gal/ft): <u>0.17</u>	= Casing Volume (gal): <u>3.2</u>
Casing Volume (gal): <u>3.2</u>	X Specified Volumes: <u>3</u>	= Calculated Purge (gal): <u>9.6</u>
Conversion Factors (gal/ft): 2" = 0.17    4" = 0.66    6" = 1.5    8" = 2.6    Other = radius <sup>2</sup> * 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)	
<b>Pre-Purge</b>									
1154	22.1	6.37	1511	-156.9	71000	1.66	1.6		
1154	21.3	6.19	1253	-128.0	71000	0.48	3.2		
1155	21.3	6.27	1212	-181.6	71000	0.43	4.8		
1155	21.3	6.31	1182	-107.6	228	0.39	6.4		
1156	21.3	6.35	1179	-104.3	158	0.36	8.0		
1156	21.3	6.36	1175	-100.5	102	0.36	9.6		
<b>Post-Purge</b>									

Did Well dewater? Yes  No  Total Purge volume (gal): 9.6

**Other Comments:** 80% = 23.52      \*purged through flow cell  
DTW = 20.30

**Sample Info:**

Sample ID: MW-4-20130831      Sample Date and Time: 8/14/13 @ 1205

Selected Analysis: SEE LOC

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

Signature: [Signature]      Date: 8/14/13

## Groundwater Sampling Form

Site Address:	7210 Bancroft Ave., Oakland CA		
Project No:	261117	Field Technician:	vw
Field Point:	AW-7 MW-7	Date:	8/14/13
Depth to Water (DTW) (ft bgs):	20.15	Well Diameter (in):	2 4 6 8
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	44.30	Water Column Height (ft):	24.15

### Purging Info and Calculations:

<b>Purge Method:</b> Low-Flow casing volumes Other: _____	<b>Purge Equipment:</b> Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	<b>Sample Collection Method:</b> Disposable Bailer Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): 24.15 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 4.1 Casing Volume (gal): 4.1 X Specified Volumes: 3 = Calculated Purge (gal): 12.3		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius <sup>2</sup> * 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)	
<b>Pre-Purge</b>									
0931	22.3	6.93	539	-223.3	63	0.60	2.1		
0932	21.7	6.94	513	-234.7	42	0.39	4.2		
0933	21.7	6.93	493	-232.7	18	0.40	6.3		
0934	21.7	6.93	488	-238.1	8	0.34	8.4		
0935	21.7	6.91	482	-240.5	8	0.31	10.5		
0936	21.7	6.89	478	-243.2	6	0.29	12.6		
<b>Post-Purge</b>									

Did Well dewater? Yes  No  Total Purge volume (gal): 12.6

**Other Comments:** 80% = 24.98 DTW = 24.89 \* Purge through Flow cell

**Sample Info:**

Sample ID:	MW-7-20B0831	Sample Date and Time:	8/14/13 @ 0955
Selected Analysis:	SEE COL		

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

Signature: [Signature] Date: 8/14/13



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:	7210 Bancroft Ave., Oakland CA		
Project No:	201117	Field Technician:	DW
Field Point:	MW-9	Date:	8/14/13
Depth to Water (DTW) (ft bgs):	20.40	Well Diameter (in):	② 4 6 8 —
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	38.70	Water Column Height (ft):	18.30

### Purging Info and Calculations:

<b>Purge Method:</b> <u>Low-Flow casing volumes</u> Other: _____	<b>Purge Equipment:</b> <u>Disposable Bailer</u> <u>Electric Submersible</u> Peristaltic Pump Bladder Pump Other: _____	<b>Sample Collection Method:</b> <u>Disposable Bailer</u> Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>18.30</u>	X Conversion Factor (gal/ft): <u>0.17</u>	= Casing Volume (gal): <u>3.1</u>
Casing Volume (gal): <u>3.1</u>	X Specified Volumes: <u>3</u>	= Calculated Purge (gal): <u>9.3</u>
Conversion Factors (gal/ft): 2" = 0.17    4" = 0.66    6" = 1.5    8" = 2.6    Other = radius <sup>2</sup> * 0.163		


<b>Purge:</b>	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)
<b>Pre-Purge</b>								
1037	20.2	6.96	521	-121.8	71000	2.31	1.6	
1038	20.6	6.93	516	-135.2	71000	1.97	3.2	
1039	20.6	6.91	513	-141.5	71000	1.85	4.8	
1040	20.8	6.88	509	-146.3	697	1.81	6.4	
1041	20.8	6.87	504	-148.9	483	1.77	8.0	
1042	20.9	6.87	503	-150.4	362	1.75	9.6	
<b>Post-Purge</b>								
Did Well dewater?		Yes	<input checked="" type="radio"/> No	Total Purge volume (gal): <u>9.6</u>				

<b>Other Comments:</b>	80% = 24.06 DTW = 20.92	* purge through flow cell
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<b>Sample Info:</b>	
Sample ID: MW-9-20130837	Sample Date and Time: 8/14/13 @ 1050
Selected Analysis: SEE COC	

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

Signature: [Signature] Date: 8/14/13

 **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:	7210 Bancroft Ave, Oakland CA		
Project No:	261117	Field Technician:	DW
Field Point:	MW-10	Date:	8/14/13
Depth to Water (DTW) (ft bgs):	21.70	Well Diameter (in):	② 4 6 8 —
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	35.35	Water Column Height (ft):	13.65

### Purging Info and Calculations:

<b>Purge Method:</b> Low-Flow <u>3 casing volumes</u> Other: _____	<b>Purge Equipment:</b> Disposable Bailor <u>Electric Submersible</u> Peristaltic Pump Bladder Pump Other: _____	<b>Sample Collection Method:</b> <u>Disposable Bailor</u> Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>13.65</u>	X Conversion Factor (gal/ft): <u>0.17</u>	= Casing Volume (gal): <u>2.3</u>
Casing Volume (gal): <u>2.3</u>	X Specified Volumes: <u>3</u>	= Calculated Purge (gal): <u>6.9</u>
Conversion Factors (gal/ft): 2" = 0.17    4" = 0.66    6" = 1.5    8" = 2.6    Other = radius <sup>2</sup> * 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)
<b>Pre-Purge</b>											
			1007	21.5	6.96	954	-167.9	71000	1.73	1.2	
			1007	21.8	6.89	969	-162.1	71000	0.46	2.4	
			1008	21.9	6.82	927	-168.9	71000	0.57	3.6	
			1008	22.0	6.74	966	-167.3	71000	0.42	4.8	
			1009	22.0	6.72	968	-169.9	71000	0.40	6.0	
			1009	22.1	6.71	973	-171.2	71000	0.38	7.2	
<b>Post-Purge</b>											
Did Well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				Total Purge volume (gal): <u>7.2</u>							

<b>Other Comments:</b>	80% = 24.43 DTW = 24.31 *Purged through flow cell
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<b>Sample Info:</b>	
Sample ID: MW-10-20130831	Sample Date and Time: 8/14/13 @ 1020
Selected Analysis: SEE COC	

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

Signature: [Signature] Date: 8/14/13



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:	7210 Bancroft Ave., Oakland CA		
Project No:	261117	Field Technician:	DW
Field Point:	MW-11	Date:	8/14/13
Depth to Water (DTW) (ft bgs):	18.35	Well Diameter (in):	2 ④ 6 8
Depth to LNAPL (ft bgs):	_____	Thickness of LNAPL (ft):	_____
Total Depth of Well (ft bgs):	37.00	Water Column Height (ft):	18.65

### Purging Info and Calculations:

<b>Purge Method:</b> Low-Flow <del>3 casing volumes</del> Other: _____	<b>Purge Equipment:</b> Disposable Bailer <u>Electric Submersible</u> Peristaltic Pump Bladder Pump Other: _____	<b>Sample Collection Method:</b> <del>Disposable Bailer</del> Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>18.65</u> X Conversion Factor (gal/ft): <u>0.66</u> = Casing Volume (gal): <u>12.3</u> Casing Volume (gal): <u>12.3</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>36.9</u>		
Conversion Factors (gal/ft):    2" = 0.17    4" = 0.66    6" = 1.5    8" = 2.6    Other = radius <sup>2</sup> * 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)
<b>Pre-Purge</b>											
			1103	20.6	6.95	454	-170.6	85	0.44	6.2	
			1105	20.7	6.64	454	-181.7	95	0.16	12.4	
			1107	20.8	6.58	452	-180.0	234	0.13	18.6	
			1109	20.8	6.55	450	-179.5	359	0.12	24.8	
			1111	20.6	6.55	449	-181.5	489	0.10	31.0	
			1113	20.7	6.54	448	-183.2	552	0.10	37.2	
<b>Post-Purge</b>											
Did Well dewater?				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Total Purge volume (gal): <u>37.2</u>					

**Other Comments:** 80% = 22.08    \* purged through flow cell  
 DTW = 22.00

<b>Sample Info:</b>	
Sample ID: MW-11-20130831	Sample Date and Time: 8/14/13 @ 1120
Selected Analysis: SEE COC	

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

Signature: [Signature] Date: 8/14/13



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:	7210 Bancroft Ave, Oakland CA		
Project No:	261117	Field Technician:	DW
Field Point:	EX-1	Date:	8/14/13
Depth to Water (DTW) (ft bgs):	20.00	Well Diameter (in):	2 <u>4</u> 6 8
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	37.45	Water Column Height (ft):	17.45

### Purging Info and Calculations:

<b>Purge Method:</b> Low-Flow 3 casing volumes Other: _____	<b>Purge Equipment:</b> Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	<b>Sample Collection Method:</b> Disposable Bailer Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>17.45</u>	X Conversion Factor (gal/ft): <u>0.66</u>	= Casing Volume (gal): <u>11.5</u>
Casing Volume (gal): <u>11.5</u>	X Specified Volumes: <u>3</u>	= Calculated Purge (gal): <u>34.5</u>
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius <sup>2</sup> * 0.163		

Purge:	Start Time:	Stop 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										
	1132		21.0	6.46	463	-184.0	20	0.31	5.8	
	1134		21.3	6.17	399	-182.3	30	0.28	11.6	
	1136		21.4	6.15	444	-186.9	25	0.25	17.4	
	1137		well dewatered @ 19.0 gals							
	1300		20.8	6.37	451	-193.2	17	0.65	—	
Post-Purge										

Did Well dewater?  Yes  No      Total Purge volume (gal): 19.0

**Other Comments:** 80% = 23.49      \* purged through  
 DTW = 23.28      flow cell

<b>Sample Info:</b>	
Sample ID: MEX-1-20130831	Sample Date and Time: 8/14/13 @ 1300
Selected Analysis: SEE COC	

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

Signature: [Signature]      Date: 8/14/13

## Groundwater Sampling Form

Site Address:	7210 Bancroft Ave, Oakland CA		
Project No:	261117	Field Technician:	PLW
Field Point:	EX-2	Date:	8/14/13
Depth to Water (DTW) (ft bgs):	21.00	Well Diameter (in):	2 4 6 8
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	35.00	Water Column Height (ft):	14.00

### Purging Info and Calculations:

<b>Purge Method:</b> Low-Flow <u>3 casing volumes</u> Other: _____	<b>Purge Equipment:</b> Disposable Bailer <u>Electric Submersible</u> Peristaltic Pump Bladder Pump Other: _____	<b>Sample Collection Method:</b> <u>Disposable Bailer</u> Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>14.00</u>	X Conversion Factor (gal/ft): <u>0.66</u>	= Casing Volume (gal): <u>9.2</u>
Casing Volume (gal): <u>9.2</u>	X Specified Volumes: <u>3</u>	= Calculated Purge (gal): <u>27.6</u>
Conversion Factors (gal/ft): 2" = 0.17    4" = 0.66    6" = 1.5    8" = 2.6    Other = radius <sup>2</sup> * 0.163		

Purge: Start Time: 0851 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)
<b>Pre-Purge</b>								
0853	21.2	7.10	507	-208.5	31	1.22	4.6	
0855	21.4	6.67	512	-205.0	22	1.15	9.2	
0857	21.4	6.66	504	-211.2	18	1.64	13.8	
0859	21.4	6.45	504	-215.2	16	0.95	18.4	
0901	21.4	6.42	502	-218.3	22	0.93	23.0	
0903	21.5	6.40	502	-220.4	26	0.90	27.6	
<b>Post-Purge</b>								

Did Well dewater? Yes  No  Total Purge volume (gal): 27.6

**Other Comments:** 80% = 23.80      \* purged through flow cell  
 DTW = 23.65

**Sample Info:**

Sample ID:	EX-2-20130831	Sample Date and Time:	8/14/13 @ 0920
Selected Analysis:	SEE COC		

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

Signature: [Signature] Date: 8/14/13





*Semi-Annual Summary Report, April through September 2013*  
*76 (Former BP) Station No. 11117*  
*7210 Bancroft Avenue, Oakland, California USA*  
*Antea Group Project No. I42611117*



## ***Appendix D***

Certified Laboratory Analytical Reports and Data Validation Forms



**Is the Data Set Valid?**

(circle)

Yes / No

**Preservation Temperature**

(if Known): 1.8 °C

**Antea™ Group Laboratory Data Validation Sheet**

**Project/Client:** 76 (Former BP) Service Station No. 11117 / COP-ELT

**Project #:** I4261117

**Date of Validation:** 10/28/13 **Date of Analysis:** 8/19/13 - 8/20/13

**Sample Date:** 8/14/13 **Completed By:** ETW

**Signature:** [Signature]

Circle  
or  
Highlight

Yes / No

(below)

**Analytical Lab Used and Report # (if any):** Kiff #85731

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/m<sup>3</sup>, 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):**

The Method Reporting Limit for Ethanol was increased due to the presence of an interfering compound for sample MW-11.

Sample T81 was analysed by EPA Method 8260 B using a bottle that contained headspace bubbles greater than 1/4 inch in diameter.



## Laboratory Results

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

Subject : 8 Water Samples  
Project Name : 2611117  
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 National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Troy Turpen

Subject : 8 Water Samples  
Project Name : 2611117  
Project Number :

## Case Narrative

The Method Reporting Limit for Ethanol has been increased due to the presence of an interfering compound for sample MW-11\_20130831.

Sample TB1\_20130831 was analyzed by EPA Method 8260B using a bottle that contained headspace bubbles greater than 1/4 inch in diameter.





Report Number : 85731

Date : 08/22/13

# Analysis Summary

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

Project Name :2611117

Project Number :

Sample Name		EX-1_20130831	EX-2_20130831	MW-10_20130831	MW-11_20130831	MW-4_20130831	MW-7_20130831	MW-9_20130831								
Sample Date		08/14/13	08/14/13	08/14/13	08/14/13	08/14/13	08/14/13	08/14/13								
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	3.0	<b>2000</b>	0.50	ND	0.50	ND	0.50	ND	15	<b>3700</b>	0.50	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	3.0	<b>420</b>	0.50	ND	0.50	ND	0.50	<b>68</b>	15	<b>4500</b>	0.50	ND	0.50	ND
Toluene	EPA 8260B	ug/L	3.0	<b>120</b>	0.50	ND	0.50	ND	0.50	<b>3.4</b>	15	<b>180</b>	0.50	ND	0.50	ND
Total Xylenes	EPA 8260B	ug/L	3.0	<b>560</b>	0.50	ND	0.50	ND	0.50	<b>61</b>	15	<b>10000</b>	0.50	ND	0.50	ND
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	3.0	ND	0.50	ND	0.50	ND	0.50	ND	15	ND	0.50	ND	0.50	ND
Ethanol	EPA 8260B	ug/L	30	ND	5.0	ND	5.0	ND	20	ND	150	ND	5.0	ND	5.0	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	3.0	ND	0.50	ND	0.50	ND	0.50	ND	15	ND	0.50	ND	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	3.0	<b>270</b>	0.50	<b>1.8</b>	0.50	<b>100</b>	0.50	ND	15	<b>810</b>	0.50	<b>14</b>	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	15	<b>970</b>	5.0	ND	5.0	ND	5.0	ND	70	<b>2600</b>	5.0	ND	5.0	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	3.0	<b>10</b>	0.50	ND	0.50	ND	0.50	ND	15	ND	0.50	ND	0.50	ND
TPH as Gasoline	EPA 8260B	ug/L	300	<b>9300</b>	50	ND	50	ND	50	<b>2200</b>	2500	<b>86000</b>	50	ND	50	ND
1,2-Dibromoethane	EPA 8260B	ug/L	3.0	ND	0.50	ND	0.50	ND	0.50	ND	15	ND	0.50	ND	0.50	ND
1,2-Dichloroethane	EPA 8260B	ug/L	3.0	ND	0.50	ND	0.50	ND	0.50	ND	15	ND	0.50	ND	0.50	ND
1,2-Dichloroethane-d4 (Surr)	EPA 8260B	%		99.9		97.1		102		98.9		99.2		101		99.6
Toluene - d8 (Surr)	EPA 8260B	%		96.5		97.4		98.5		95.6		96.2		97.5		98.0

MRL = Method Reporting Limit

ND = Not Detected



# Analysis Summary

Report Number : 85731

Date : 08/22/13

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

Project Name :2611117

Project Number :

Sample Name		TB1_20130831		
Sample Date		08/14/13		
Analyte	Method	Units	MRL	Results
Benzene	EPA 8260B	ug/L	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.50	ND
Toluene	EPA 8260B	ug/L	0.50	ND
Total Xylenes	EPA 8260B	ug/L	0.50	ND
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	0.50	ND
Ethanol	EPA 8260B	ug/L	5.0	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	5.0	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	0.50	ND
1,2-Dibromoethane	EPA 8260B	ug/L	0.50	ND
1,2-Dichloroethane	EPA 8260B	ug/L	0.50	ND
1,2-Dichloroethane-d4 (Surr)	EPA 8260B	%		103
Toluene - d8 (Surr)	EPA 8260B	%		109

MRL = Method Reporting Limit

ND = Not Detected

Project Name : **2611117**

Project Number :

Sample : **EX-1\_20130831**

Matrix : Water

Lab Number : 85731-01

Sample Date :08/14/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
<b>Benzene</b>	<b>2000</b>	3.0	ug/L	EPA 8260B	08/20/13 12:54
<b>Toluene</b>	<b>120</b>	3.0	ug/L	EPA 8260B	08/20/13 12:54
<b>Ethylbenzene</b>	<b>420</b>	3.0	ug/L	EPA 8260B	08/20/13 12:54
<b>Total Xylenes</b>	<b>560</b>	3.0	ug/L	EPA 8260B	08/20/13 12:54
<b>Methyl-t-butyl ether (MTBE)</b>	<b>270</b>	3.0	ug/L	EPA 8260B	08/20/13 12:54
Diisopropyl ether (DIPE)	< 3.0	3.0	ug/L	EPA 8260B	08/20/13 12:54
Ethyl-t-butyl ether (ETBE)	< 3.0	3.0	ug/L	EPA 8260B	08/20/13 12:54
<b>Tert-amyl methyl ether (TAME)</b>	<b>10</b>	3.0	ug/L	EPA 8260B	08/20/13 12:54
<b>Tert-Butanol</b>	<b>970</b>	15	ug/L	EPA 8260B	08/20/13 12:54
Ethanol	< 30	30	ug/L	EPA 8260B	08/20/13 12:54
<b>TPH as Gasoline</b>	<b>9300</b>	300	ug/L	EPA 8260B	08/20/13 12:54
1,2-Dichloroethane	< 3.0	3.0	ug/L	EPA 8260B	08/20/13 12:54
1,2-Dibromoethane	< 3.0	3.0	ug/L	EPA 8260B	08/20/13 12:54
1,2-Dichloroethane-d4 (Surr)	99.9		% Recovery	EPA 8260B	08/20/13 12:54
Toluene - d8 (Surr)	96.5		% Recovery	EPA 8260B	08/20/13 12:54

Project Name : **2611117**

Project Number :

Sample : **EX-2\_20130831**

Matrix : Water

Lab Number : 85731-02

Sample Date :08/14/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 10:27
Toluene	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 10:27
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 10:27
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 10:27
<b>Methyl-t-butyl ether (MTBE)</b>	<b>1.8</b>	0.50	ug/L	EPA 8260B	08/20/13 10:27
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 10:27
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 10:27
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 10:27
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	08/20/13 10:27
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	08/20/13 10:27
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	08/20/13 10:27
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 10:27
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 10:27
1,2-Dichloroethane-d4 (Surr)	97.1		% Recovery	EPA 8260B	08/20/13 10:27
Toluene - d8 (Surr)	97.4		% Recovery	EPA 8260B	08/20/13 10:27

Project Name : **2611117**

Project Number :

Sample : **MW-10\_20130831**

Matrix : Water

Lab Number : 85731-03

Sample Date :08/14/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 11:02
Toluene	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 11:02
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 11:02
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 11:02
<b>Methyl-t-butyl ether (MTBE)</b>	<b>100</b>	0.50	ug/L	EPA 8260B	08/20/13 11:02
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 11:02
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 11:02
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 11:02
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	08/20/13 11:02
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	08/20/13 11:02
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	08/20/13 11:02
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 11:02
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 11:02
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	08/20/13 11:02
Toluene - d8 (Surr)	98.5		% Recovery	EPA 8260B	08/20/13 11:02

Project Name : **2611117**

Project Number :

Sample : **MW-11\_20130831**

Matrix : Water

Lab Number : 85731-04

Sample Date :08/14/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 11:39
<b>Toluene</b>	<b>3.4</b>	0.50	ug/L	EPA 8260B	08/20/13 11:39
<b>Ethylbenzene</b>	<b>68</b>	0.50	ug/L	EPA 8260B	08/20/13 11:39
<b>Total Xylenes</b>	<b>61</b>	0.50	ug/L	EPA 8260B	08/20/13 11:39
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 11:39
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 11:39
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 11:39
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 11:39
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	08/20/13 11:39
Ethanol	< 20	20	ug/L	EPA 8260B	08/20/13 11:39
<b>TPH as Gasoline</b>	<b>2200</b>	50	ug/L	EPA 8260B	08/20/13 11:39
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 11:39
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 11:39
1,2-Dichloroethane-d4 (Surr)	98.9		% Recovery	EPA 8260B	08/20/13 11:39
Toluene - d8 (Surr)	95.6		% Recovery	EPA 8260B	08/20/13 11:39



Project Name : **2611117**

Project Number :

Sample : **MW-4\_20130831**

Matrix : Water

Lab Number : 85731-05

Sample Date :08/14/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
<b>Benzene</b>	<b>3700</b>	15	ug/L	EPA 8260B	08/20/13 13:33
<b>Toluene</b>	<b>180</b>	15	ug/L	EPA 8260B	08/20/13 13:33
<b>Ethylbenzene</b>	<b>4500</b>	15	ug/L	EPA 8260B	08/20/13 13:33
<b>Total Xylenes</b>	<b>10000</b>	15	ug/L	EPA 8260B	08/20/13 13:33
<b>Methyl-t-butyl ether (MTBE)</b>	<b>810</b>	15	ug/L	EPA 8260B	08/20/13 13:33
Diisopropyl ether (DIPE)	< 15	15	ug/L	EPA 8260B	08/20/13 13:33
Ethyl-t-butyl ether (ETBE)	< 15	15	ug/L	EPA 8260B	08/20/13 13:33
Tert-amyl methyl ether (TAME)	< 15	15	ug/L	EPA 8260B	08/20/13 13:33
<b>Tert-Butanol</b>	<b>2600</b>	70	ug/L	EPA 8260B	08/20/13 13:33
Ethanol	< 150	150	ug/L	EPA 8260B	08/20/13 13:33
<b>TPH as Gasoline</b>	<b>86000</b>	2500	ug/L	EPA 8260B	08/22/13 06:41
1,2-Dichloroethane	< 15	15	ug/L	EPA 8260B	08/20/13 13:33
1,2-Dibromoethane	< 15	15	ug/L	EPA 8260B	08/20/13 13:33
1,2-Dichloroethane-d4 (Surr)	99.2		% Recovery	EPA 8260B	08/20/13 13:33
Toluene - d8 (Surr)	96.2		% Recovery	EPA 8260B	08/20/13 13:33

Project Name : **2611117**

Project Number :

Sample : **MW-7\_20130831**

Matrix : Water

Lab Number : 85731-06

Sample Date :08/14/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 12:15
Toluene	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 12:15
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 12:15
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 12:15
<b>Methyl-t-butyl ether (MTBE)</b>	<b>14</b>	0.50	ug/L	EPA 8260B	08/20/13 12:15
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 12:15
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 12:15
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 12:15
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	08/20/13 12:15
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	08/20/13 12:15
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	08/20/13 12:15
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 12:15
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 12:15
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	08/20/13 12:15
Toluene - d8 (Surr)	97.5		% Recovery	EPA 8260B	08/20/13 12:15

Project Name : **2611117**

Project Number :

Sample : **MW-9\_20130831**

Matrix : Water

Lab Number : 85731-07

Sample Date :08/14/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	08/19/13 23:38
Toluene	< 0.50	0.50	ug/L	EPA 8260B	08/19/13 23:38
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	08/19/13 23:38
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	08/19/13 23:38
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	08/19/13 23:38
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	08/19/13 23:38
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	08/19/13 23:38
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	08/19/13 23:38
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	08/19/13 23:38
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	08/19/13 23:38
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	08/19/13 23:38
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	08/19/13 23:38
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	08/19/13 23:38
1,2-Dichloroethane-d4 (Surr)	99.6		% Recovery	EPA 8260B	08/19/13 23:38
Toluene - d8 (Surr)	98.0		% Recovery	EPA 8260B	08/19/13 23:38

Project Name : **2611117**

Project Number :

Sample : **TB1\_20130831**

Matrix : Water

Lab Number : 85731-08

Sample Date :08/14/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 00:51
Toluene	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 00:51
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 00:51
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 00:51
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 00:51
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 00:51
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 00:51
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 00:51
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	08/20/13 00:51
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	08/20/13 00:51
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 00:51
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	08/20/13 00:51
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	08/20/13 00:51
Toluene - d8 (Surr)	109		% Recovery	EPA 8260B	08/20/13 00:51

**QC Report : Method Blank Data**

Project Name : **261117**

Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	08/19/13
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	08/19/13
Toluene	< 0.50	0.50	ug/L	EPA 8260B	08/19/13
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	08/19/13
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	08/19/13
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	08/19/13
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	08/19/13
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	08/19/13
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	08/19/13
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	08/19/13
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	08/19/13
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	08/19/13
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	08/19/13
1,2-Dichloroethane-d4 (Surr)	99.7		%	EPA 8260B	08/19/13
Toluene - d8 (Surr)	99.4		%	EPA 8260B	08/19/13
Benzene	< 0.50	0.50	ug/L	EPA 8260B	08/19/13
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	08/19/13
Toluene	< 0.50	0.50	ug/L	EPA 8260B	08/19/13
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	08/19/13
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	08/19/13
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	08/19/13
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	08/19/13
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	08/19/13
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	08/19/13
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	08/19/13
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	08/19/13
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	08/19/13
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	08/19/13
Toluene - d8 (Surr)	110		%	EPA 8260B	08/19/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	08/21/13

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 2611117

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
1,2-Dibromoethane	85731-07	<0.50	40.2	40.2	40.5	40.9	ug/L	EPA 8260B	8/20/13	101	102	0.788	70.0-130	25
1,2-Dichloroethane	85731-07	<0.50	39.8	39.9	36.0	36.2	ug/L	EPA 8260B	8/20/13	90.3	90.7	0.448	70.0-130	25
Benzene	85731-07	<0.50	39.8	39.9	43.0	42.9	ug/L	EPA 8260B	8/20/13	108	108	0.414	70.0-130	25
Diisopropyl ether	85731-07	<0.50	39.1	39.2	42.1	43.4	ug/L	EPA 8260B	8/20/13	108	110	2.75	70.0-130	25
Ethanol	85731-07	<5.0	98.9	99.1	111	120	ug/L	EPA 8260B	8/20/13	113	121	7.37	55.0-150	25
Ethyl-tert-butyl ether	85731-07	<0.50	40.0	40.0	39.7	39.4	ug/L	EPA 8260B	8/20/13	99.4	98.5	0.957	70.0-130	25
Ethylbenzene	85731-07	<0.50	39.8	39.9	42.7	42.3	ug/L	EPA 8260B	8/20/13	107	106	0.999	70.0-130	25
Methyl-t-butyl ether	85731-07	<0.50	39.7	39.8	38.3	37.7	ug/L	EPA 8260B	8/20/13	96.3	94.6	1.76	70.0-130	25
P + M Xylene	85731-07	<0.50	39.8	39.9	41.8	41.5	ug/L	EPA 8260B	8/20/13	105	104	0.990	70.0-130	25
Tert-Butanol	85731-07	<5.0	201	201	206	206	ug/L	EPA 8260B	8/20/13	102	102	0.204	70.0-130	25

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 2611117

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-amyl-methyl ether														
	85731-07	<0.50	40.2	40.2	37.7	37.7	ug/L	EPA 8260B	8/20/13	93.8	93.7	0.148	70.0-130	25
Toluene														
	85731-07	<0.50	39.8	39.9	42.1	41.8	ug/L	EPA 8260B	8/20/13	106	105	0.926	70.0-130	25
1,2-Dibromoethane														
	85701-09	<0.50	40.3	40.3	47.1	44.2	ug/L	EPA 8260B	8/19/13	117	110	6.55	70.0-130	25
1,2-Dichloroethane														
	85701-09	<0.50	40.0	40.0	51.0	46.7	ug/L	EPA 8260B	8/19/13	127	117	8.85	70.0-130	25
Benzene														
	85701-09	<0.50	40.0	40.0	37.8	34.9	ug/L	EPA 8260B	8/19/13	94.5	87.2	8.07	70.0-130	25
Diisopropyl ether														
	85701-09	<0.50	39.3	39.3	39.0	35.9	ug/L	EPA 8260B	8/19/13	99.2	91.4	8.23	70.0-130	25
Ethanol														
	85701-09	<5.0	99.3	99.3	124	118	ug/L	EPA 8260B	8/19/13	125	118	5.73	55.0-150	25
Ethyl-tert-butyl ether														
	85701-09	<0.50	40.1	40.1	40.9	38.0	ug/L	EPA 8260B	8/19/13	102	94.6	7.46	70.0-130	25
Ethylbenzene														
	85701-09	<0.50	40.0	40.0	41.2	38.2	ug/L	EPA 8260B	8/19/13	103	95.6	7.52	70.0-130	25



## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 2611117

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
Methyl-t-butyl ether	85701-09	<0.50	39.9	39.9	39.2	35.9	ug/L	EPA 8260B	8/19/13	98.3	90.1	8.65	70.0-130	25
P + M Xylene	85701-09	<0.50	40.0	40.0	40.6	37.8	ug/L	EPA 8260B	8/19/13	102	94.5	7.21	70.0-130	25
Tert-Butanol	85701-09	<5.0	202	202	221	207	ug/L	EPA 8260B	8/19/13	110	103	6.67	70.0-130	25
Tert-amyl-methyl ether	85701-09	<0.50	40.3	40.3	45.6	42.0	ug/L	EPA 8260B	8/19/13	113	104	8.29	70.0-130	25
Toluene	85701-09	<0.50	40.0	40.0	44.0	40.9	ug/L	EPA 8260B	8/19/13	110	102	7.16	70.0-130	25
Toluene	85759-03	<0.50	40.0	40.0	44.3	42.5	ug/L	EPA 8260B	8/21/13	111	106	4.26	70.0-130	25

## QC Report : Laboratory Control Sample (LCS)

Project Name : 2611117

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,2-Dibromoethane	40.3	ug/L	EPA 8260B	8/20/13	105	70.0-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	8/20/13	92.6	70.0-130
Benzene	40.0	ug/L	EPA 8260B	8/20/13	108	70.0-130
Diisopropyl ether	39.3	ug/L	EPA 8260B	8/20/13	107	70.0-130
Ethanol	99.3	ug/L	EPA 8260B	8/20/13	100	55.0-150
Ethyl-tert-butyl ether	40.1	ug/L	EPA 8260B	8/20/13	98.2	70.0-130
Ethylbenzene	40.0	ug/L	EPA 8260B	8/20/13	105	70.0-130
Methyl-t-butyl ether	39.9	ug/L	EPA 8260B	8/20/13	98.0	70.0-130
P + M Xylene	40.0	ug/L	EPA 8260B	8/20/13	102	70.0-130
Tert-Butanol	202	ug/L	EPA 8260B	8/20/13	99.0	70.0-130
Tert-amyl-methyl ether	40.3	ug/L	EPA 8260B	8/20/13	94.2	70.0-130
Toluene	40.0	ug/L	EPA 8260B	8/20/13	105	70.0-130
1,2-Dibromoethane	40.5	ug/L	EPA 8260B	8/19/13	117	70.0-130
1,2-Dichloroethane	40.2	ug/L	EPA 8260B	8/19/13	127	70.0-130
Benzene	40.2	ug/L	EPA 8260B	8/19/13	93.5	70.0-130
Diisopropyl ether	39.5	ug/L	EPA 8260B	8/19/13	99.1	70.0-130
Ethanol	99.8	ug/L	EPA 8260B	8/19/13	123	55.0-150
Ethyl-tert-butyl ether	40.3	ug/L	EPA 8260B	8/19/13	101	70.0-130
Ethylbenzene	40.2	ug/L	EPA 8260B	8/19/13	104	70.0-130
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	8/19/13	97.3	70.0-130
P + M Xylene	40.2	ug/L	EPA 8260B	8/19/13	102	70.0-130
Tert-Butanol	202	ug/L	EPA 8260B	8/19/13	109	70.0-130

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **2611117**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Tert-amyl-methyl ether	40.5	ug/L	EPA 8260B	8/19/13	113	70.0-130
Toluene	40.2	ug/L	EPA 8260B	8/19/13	108	70.0-130
TPH as Gasoline	493	ug/L	EPA 8260B	8/21/13	93.3	70.0-130



**SAMPLE RECEIPT CHECKLIST**

SRG #: 85731

<b>Sample Receipt</b>	Initials/Date: <i>smj 08/16/13</i>	Storage Time: <i>1803</i>	Sample Login	Initials/Date: <i>TJB 08/19/13</i>
TAT: <input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush	<input type="checkbox"/> Split	<input type="checkbox"/> None	Method of Receipt: <input checked="" type="checkbox"/> Courier
<input type="checkbox"/> Over-the-counter	<input type="checkbox"/> Shipped		Temp °C <i>1.8</i>	
<input type="checkbox"/> N/A	Therm ID <i>1R-1</i>	Time <i>1750</i>	Coolant present <input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Water		<input type="checkbox"/> Temp Excursion		
For Shipments Only: Cooler Receipt Initials/Date/Time:			Custody Seals <input type="checkbox"/> N/A	
			<input type="checkbox"/> Intact <input type="checkbox"/> 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	X	X	
Project ID	X	X	
Sample Date	X	X	
Sample Time	X	X	
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:** *Bubbles are present in sample -08 (both VOAs). TJB 08/19/13 1254 Foreign matter in sample -05 (VOA 3 of 3). TJB 08/19/13 1301*

**Receipt Details:**

Matrix	Container Type	# of Containers
<i>WA</i>	<i>Voa</i>	<i>23</i>

**CS Required:**

Proceed With Analysis: <input type="checkbox"/> YES <input type="checkbox"/> NO	Init/Date:
Client Communication:	

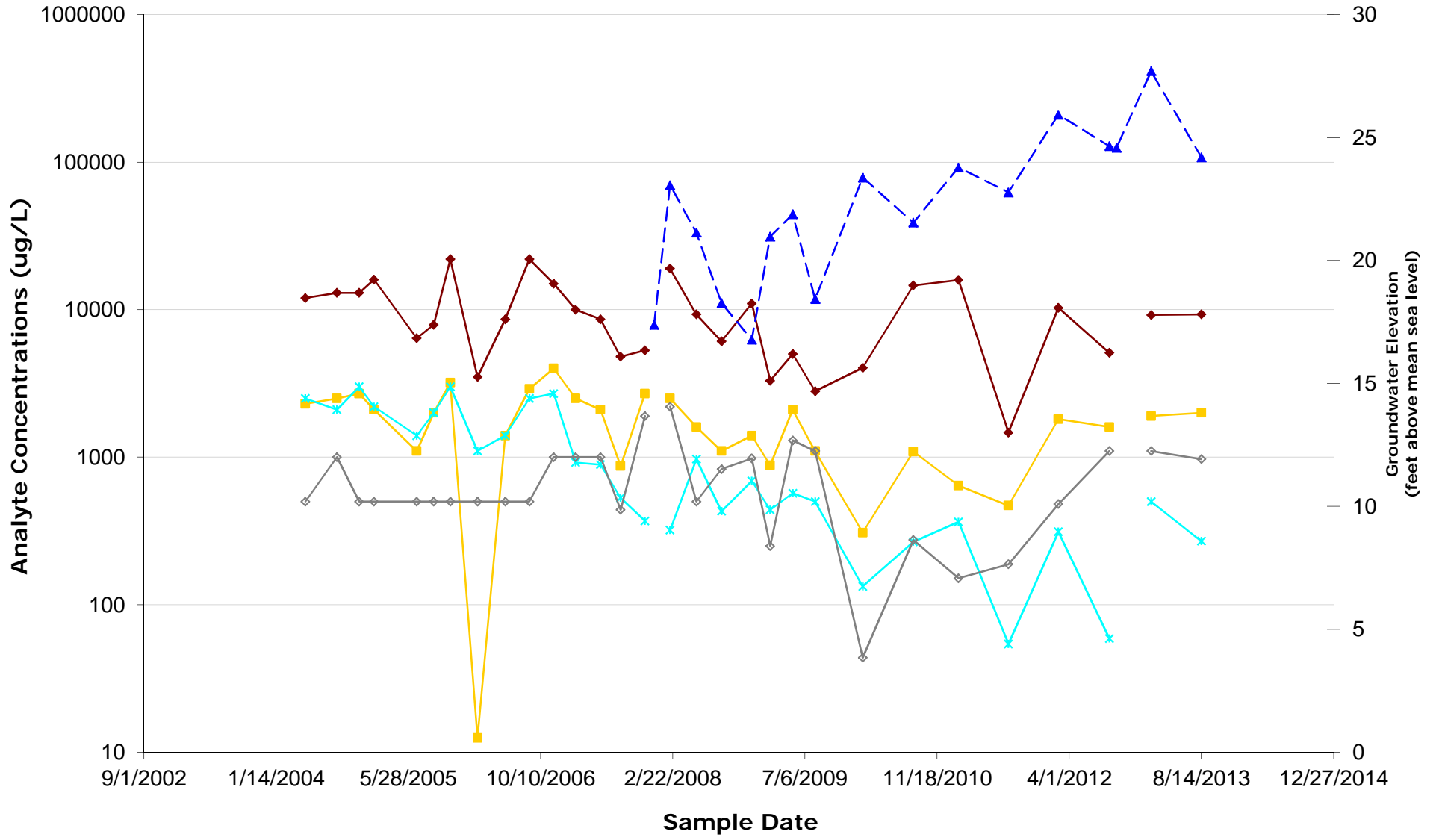
*Semi-Annual Summary Report, April through September 2013*  
*76 (Former BP) Station No. 11117*  
*7210 Bancroft Avenue, Oakland, California USA*  
*Antea Group Project No. I42611117*



## ***Appendix E***

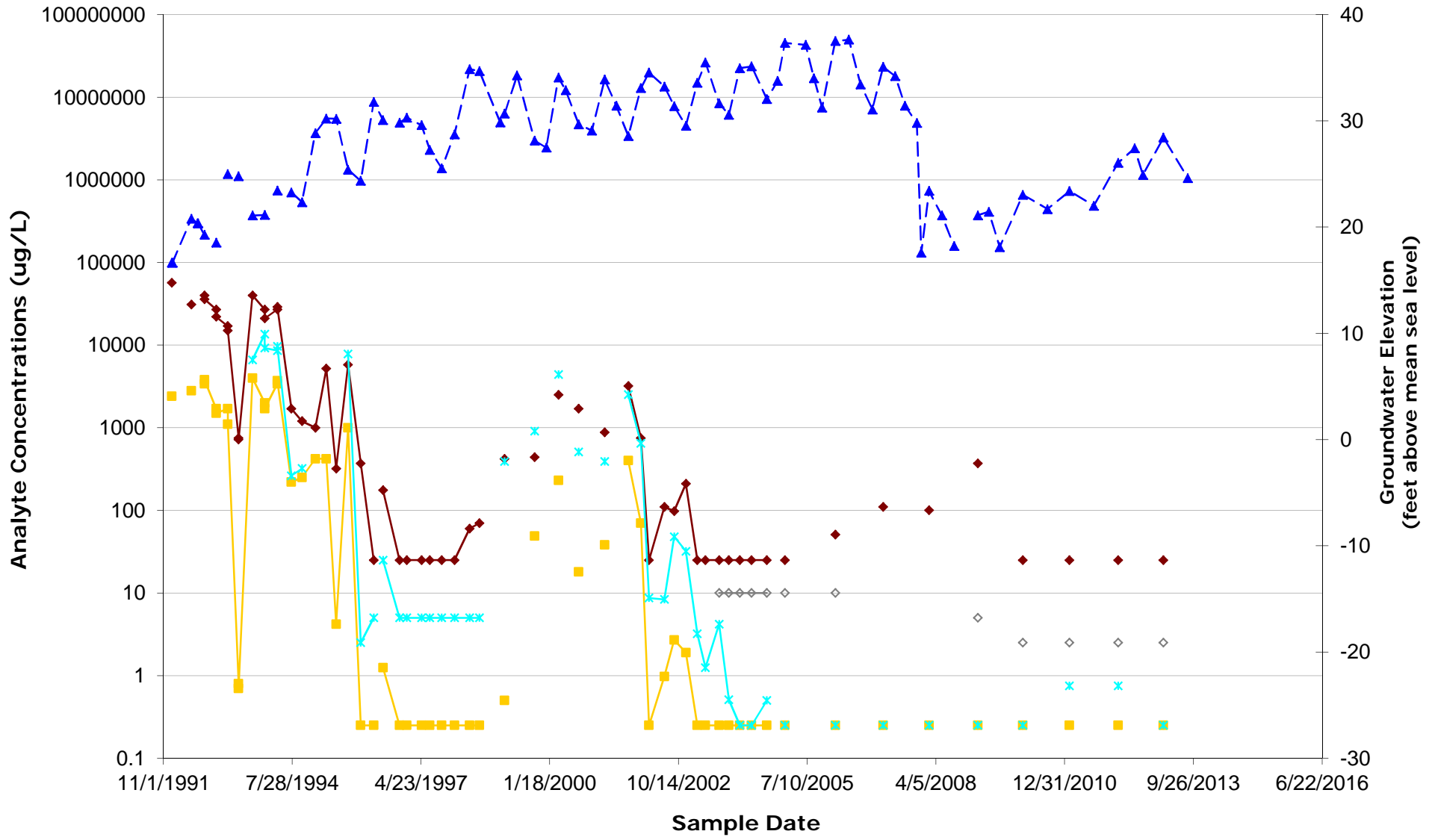
Time Series Graphs

**Well EX-1**  
**Groundwater Elevation, TPHg, Benzene, MTBE and TBA Concentraitons Versus Time**  
 76 (Former BP) Station No. 11117  
 7210 Bancroft Ave  
 Oakland, California





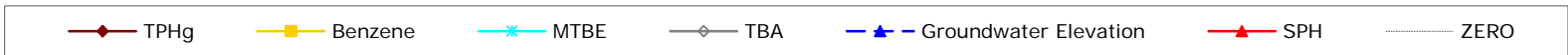
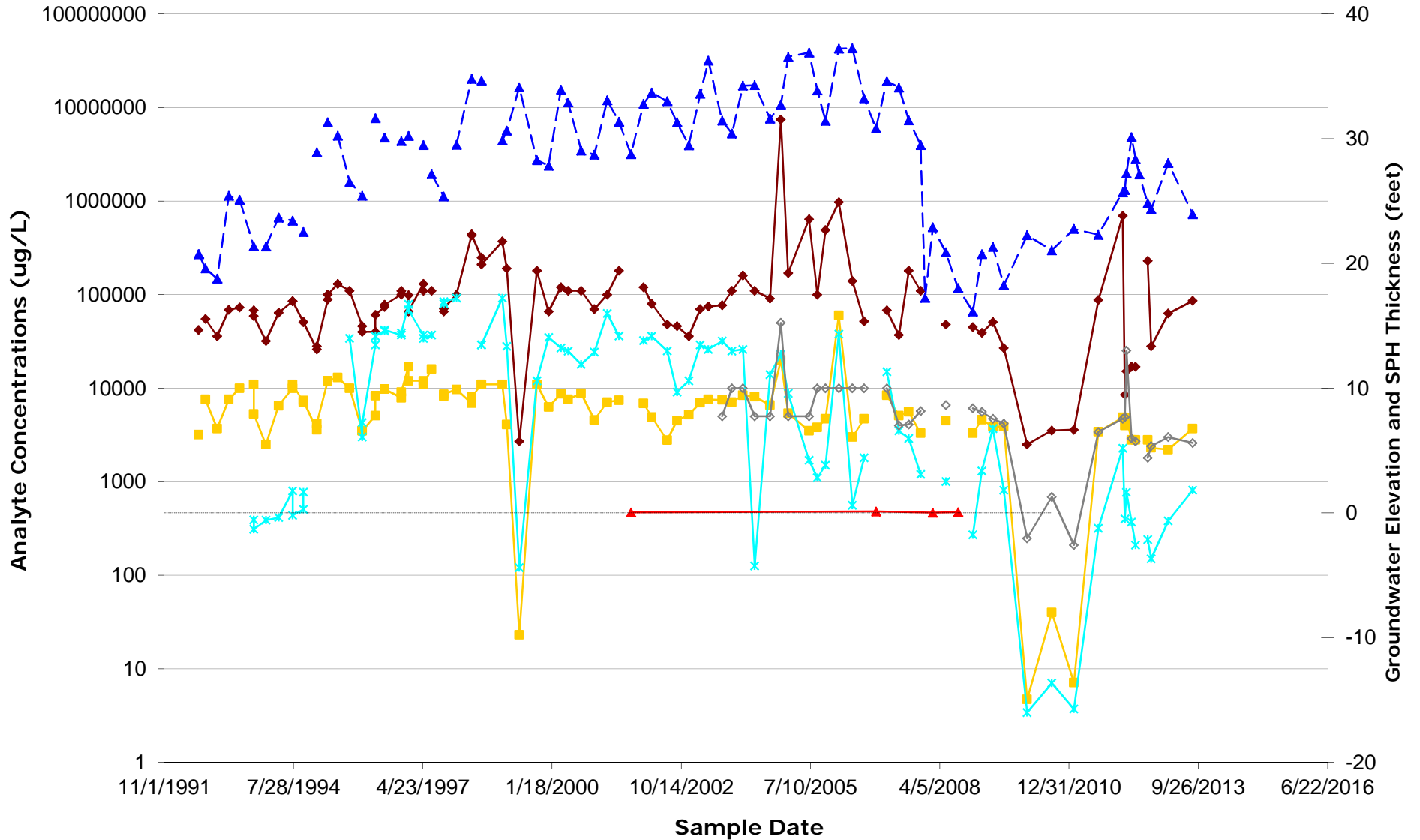
**Well MW-1**  
**Groundwater Elevation, TPHg, Benzene, MTBE and TBA Concentraitons Versus Time**  
 76 (Former BP) Station No. 11117  
 7210 Bancroft Ave  
 Oakland, California



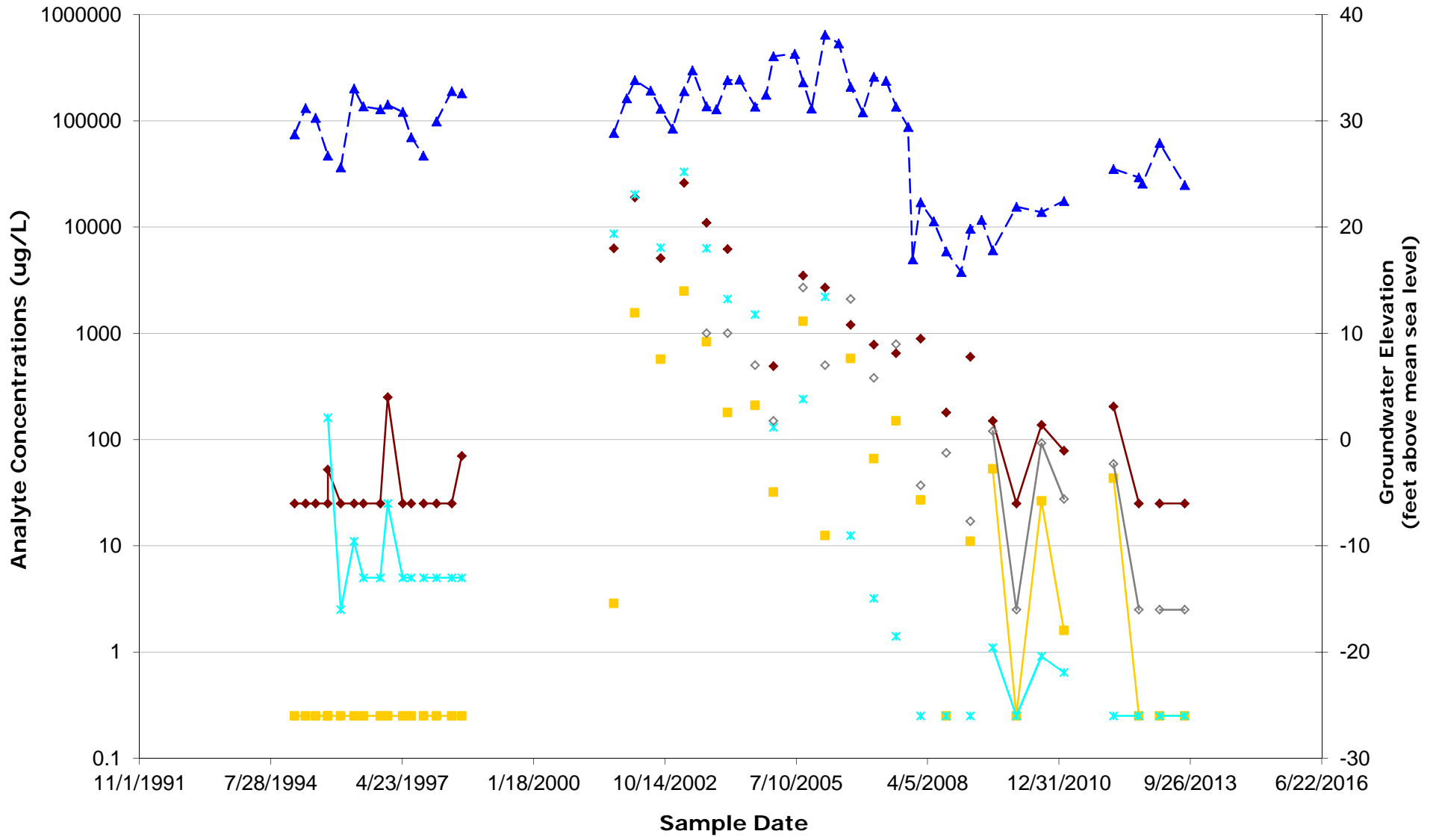
# Well MW-4

## Groundwater Elevation, TPHg, Benzene, MTBE, TBA Concentrations and SPH Thickness Versus Time

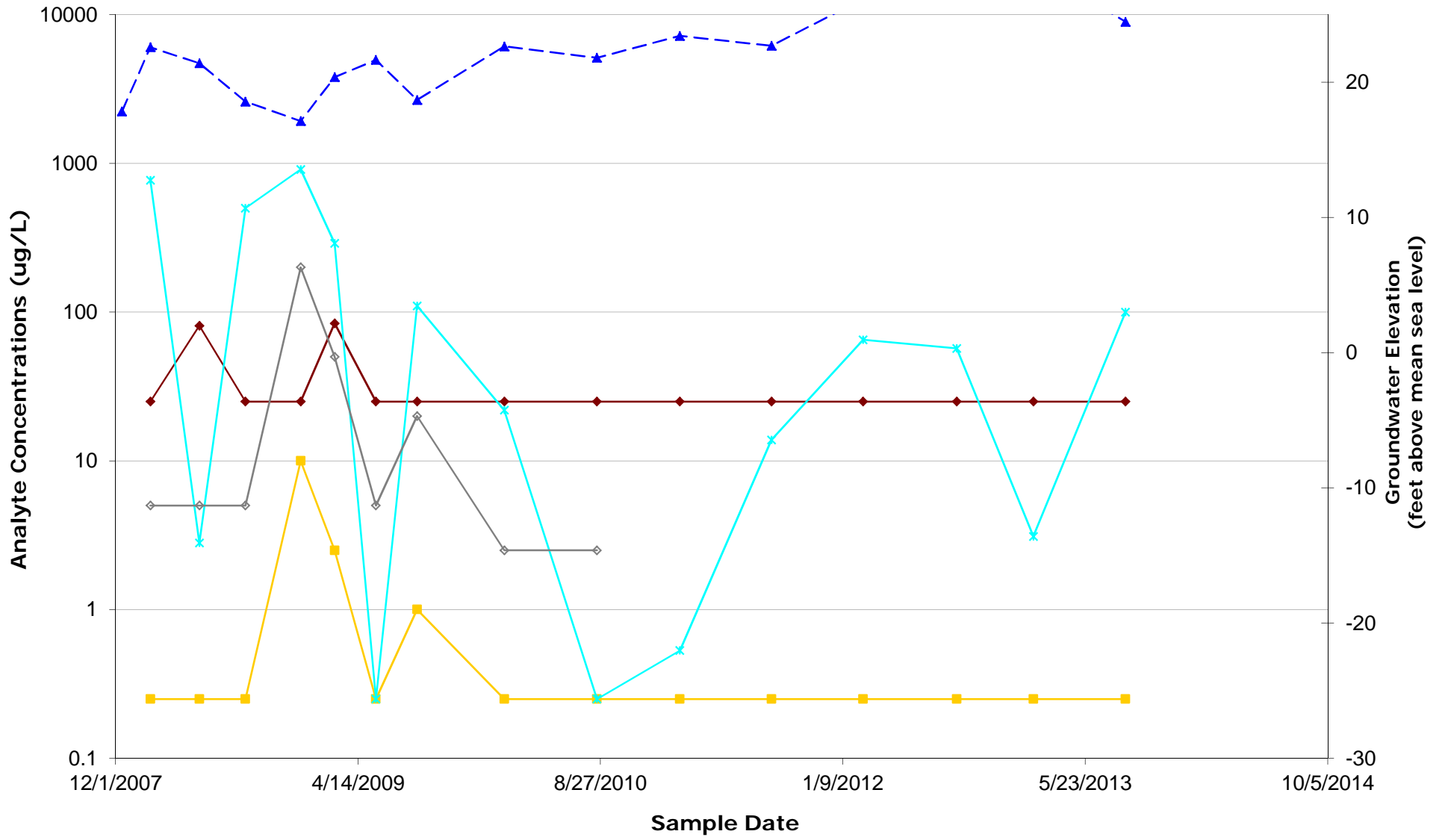
76 (Former BP) Station No. 11117  
7210 Bancroft Ave  
Oakland, California



**Well MW-9**  
**Groundwater Elevation, TPHg, Benzene, MTBE and TBA Concentraitons Versus Time**  
 76 (Former BP) Station No. 11117  
 7210 Bancroft Ave  
 Oakland, California



**Well MW-10**  
**Groundwater Elevation, TPHg, Benzene, MTBE and TBA Concentraitons Versus Time**  
 76 (Former BP) Station No. 11117  
 7210 Bancroft Ave  
 Oakland, California



**Well MW-11**  
**Groundwater Elevation, TPHg, Benzene, MTBE and TBA Concentraitons Versus Time**  
 76 (Former BP) Station No. 11117  
 7210 Bancroft Ave  
 Oakland, California

