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**First Quarter 2015 Semi-Annual Groundwater Monitoring Report**

Former Atlantic Richfield Company Station #11132  
3201 35<sup>th</sup> Avenue, Oakland, California 94619  
Alameda County LOP Case #RO0000014  
SFB-RWQCB Case #01-0227

ENVIRONMENT

“I declare that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct.”

Date:  
April 22, 2015

Submitted by:

Contact:  
Megan Smoley

ARCADIS U.S., Inc.

Phone:  
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Email:  
Megan.Smoley@arcadis-us.com

Megan Smoley, P.G. No. 8614  
Certified Project Manager

Our ref:  
GP09BPNA.C112.N0000

Mr. Keith Nowell  
Alameda County LOP  
1131 Harbor Bay Parkway  
Alameda, California 94502

Subject:

**First Quarter 2015 Semi-Annual Groundwater Monitoring Report**

Former Atlantic Richfield Company Station #11132  
3201 35<sup>th</sup> Avenue, Oakland, California 94619  
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Dear Mr. Nowell:

ARCADIS U.S., Inc. (ARCADIS) has prepared this semi-annual groundwater monitoring report (GMR) to document the results of groundwater monitoring and sampling at the former Atlantic Richfield Company (ARCO) Service Station #11132, located at 3201 35<sup>th</sup> Avenue in Oakland, California (the Site; Figure 1).

ENVIRONMENT

Date:  
April 22, 2015

## 1. Summary

Contact:  
Megan Smoley

### 1.1 Work Performed During Fourth Quarter 2014 and First Quarter 2015:

- Conducted groundwater monitoring and sampling for the First Quarter 2015 on March 27, 2015.
- Prepared and submitted the *First Quarter 2015 Semi-Annual Groundwater Monitoring Report*, contained herein.

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### 1.2 Work Proposed for Second and Third Quarters 2015:

- Complete activities recommended in the Work Plan with revisions to the scope discussed during the September 18, 2014 meeting and documented in the September 18, 2014 correspondence from Keith Nowell of Alameda County LOP.
- Conduct groundwater monitoring and sampling for Third Quarter 2015.
- Prepare and submit the *Third Quarter 2015 Semi-Annual Groundwater Monitoring Report*.

Our ref:  
GP09BPNA.C112.N0000



**SITE INFORMATION**

Current Phase of Project:	Groundwater Monitoring and Sampling
Frequency of Monitoring and Sampling	Semi-Annual Gauging (1/3Q): MW-1 through MW-10 and RW-1 Semi-Annual Sampling (1/3Q): MW-1, MW-2, MW-5, MW-8, MW-9, MW-10, RW-1 Annual Sampling (1Q): MW-4 and MW-7
Have Liquid Phase Hydrocarbons (LPH) Been Measured Onsite, Historically?	Yes
Historical Range in Depth to Water (DTW; feet below top of casing [btoc]):	32.20 (RW-1 2Q/1994) to 9.11 (MW-8 3Q/2007)

**CURRENT QUARTER MONITORING DATA**

Wells Gauged:	MW-1 through MW-10, RW-1
Wells Sampled:	MW-1, MW-2, MW-4, MW-5, MW-7, MW-8, MW-9, RW-1
Monitoring and Sampling Date:	March 27, 2015
LPH Measured This Quarter:	Yes; MW-10 (0.01 feet)
LPH Recovered This Quarter:	None
Cumulative LPH Recovered to Date:	None
DTW Range (feet btoc):	15.56 (MW-5) to 20.23 (MW-4)
Groundwater Flow Direction and Gradient (feet/foot):	West at 0.004 feet/foot

**CURRENT QUARTER ANALYTICAL DATA**

Constituents	Number of Detections Above LRL : Total Samples Collected	Minimum Detected Concentration, in µg/L (Sample ID)	Maximum Detected Concentration, in µg/L (Sample ID)
GRO	6 : 8	970 (RW-1)	29,000 (MW-2)
Benzene	6 : 8	0.98 (RW-1)	13,000 (MW-2)
Toluene	3 : 8	5.1 (MW-5)	210 (MW-2)
Ethylbenzene	6 : 8	0.91 (RW-1)	1,400 (MW-2)
Total Xylenes	6 : 8	1.5 (RW-1)	1,300 (MW-2)
MTBE	6 : 8	0.74 (RW-1)	240 (MW-7)
TBA	0 : 8	--	--
DIPE	0 : 8	--	--
ETBE	0 : 8	--	--
TAME	1 : 8	3.30 (MW-7)	3.30 (MW-7)
Ethanol	0 : 8	--	--
EDB	0 : 8	--	--
1,2-DCA	0 : 8	--	--
Naphthalene	0 : 0	--	--



**Table Notes:**

µg/L = Micrograms per liter  
GRO = Gasoline range organics  
TBA = Tert-butyl alcohol  
ETBE = Ethyl tert-butyl ether  
EDB = 1,2-dibromoethane

LRL = Laboratory reporting limit  
MTBE = Methyl tert-butyl ether  
DIPE = Di-isopropyl ether  
TAME = Tert-amyl methyl ether  
1,2-DCA = 1,2-dichloroethane

## 2. Groundwater Monitoring and Sampling

### 2.1 Monitoring and Sampling Procedures

During the First Quarter 2015 sampling event, HydraSleeves were used to collect groundwater samples at the Site. Prior to groundwater sampling, depths to water were measured to within 0.01 feet below top of casing (btoc) in wells MW-1 through MW-10 and RW-1 using an oil/water interface probe. Samples were collected from wells MW-1, MW-2, MW-4, MW-5, MW-7, MW-8, MW-9, and RW-1. Monitoring well MW-10 was not sampled due to the presence of LPH. Field methods used during groundwater monitoring are provided in Attachment A.

All monitoring and sampling activities for the Site during the First Quarter 2015 were performed by Broadbent and Associates, Inc. (Broadbent) and reviewed and certified by a Broadbent California Professional Geologist. The groundwater sampling data package is included as Attachment B.

### 2.2 Groundwater Sample Analysis

Groundwater samples collected from wells MW-1, MW-2, MW-4, MW-5, MW-7, MW-8, MW-9, and RW-1 were submitted under chain-of-custody protocol to ESC Lab Sciences (ESC), a California state-certified laboratory. Samples were analyzed for GRO, benzene, toluene, ethylbenzene, and total xylenes (collectively BTEX), MTBE, TBA, DIPE, ETBE, TAME, ethanol, 1,2-DCA, and EDB by EPA Method 8260B. The certified laboratory analytical report, including chain-of-custody documentation, is included as Attachment C.

### 2.3 Quality Assurance/Quality Control

No issues were noted by ESC during sample analysis that would have an adverse effect on the quality of the data and no issues affecting the sampling protocol were noted.

## 3. Results and Discussion

The depth to water measurements and analytical data presented this quarter are consistent with historical measurements.

Depth to water at the Site ranged from 15.56 feet btoc at MW-5 to 20.23 feet btoc at MW-4, consistent with historical measurements. Resulting groundwater surface elevations ranged from 149.58 feet at MW-5 to 150.44 feet at RW-1. Water level elevations yielded a potentiometric groundwater gradient to the west at approximately 0.004 feet per foot. Groundwater elevation contours are presented on Figure 2.

GRO and benzene were detected above laboratory reporting limits (LRLs) in wells MW-1, MW-2, MW-5, MW-8, MW-9, and RW-1. MTBE was detected above LRLs in wells MW-1, MW-2, MW-4, MW-5,



MW-7 and RW-1. TBA was not detected above the LRL in any of the wells sampled during the First Quarter 2015. Current groundwater monitoring and sampling data are summarized in Table 1, and presented on Figure 3. Historical groundwater monitoring and sampling results are summarized in Table 2. Groundwater flow direction and gradient information are presented in Table 3.

Starting in the Third Quarter 2012, ARCADIS began preparing the semi-annual groundwater monitoring reports for the Site. Historical tables provided by Broadbent, including analytical results for fuel oxygenates (analyzed from Third Quarter 1993 to First Quarter 2012), are provided in Attachment D.

#### **4. Recommendations**

ARCADIS recommends continuation of groundwater monitoring and sampling on a semi-annual basis in accordance with the approved schedule. ARCADIS plans to implement the activities presented in the June 25, 2014 Work Plan as amended during the September 18, 2014 meeting in the Third Quarter 2015. Field work will be conducted as soon as the appropriate permits are secured for the off-site work.

#### **5. Limitations**

The findings presented in this report are based upon observations of field personnel, points investigated, results of laboratory tests performed by ESC, and our understanding of SF-RWQCB requirements. Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No other warranty, expressed or implied was made. This report has been prepared for the exclusive use of ARCADIS and ARCO. It is possible that variations in soil or groundwater conditions could exist beyond points explored in this investigation. Also, changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

If you have any questions or comments regarding the contents of this report, please contact Megan Smoley at 334.215.4461 ext. 2 or by e-mail at [Megan.Smoley@arcadis-us.com](mailto:Megan.Smoley@arcadis-us.com).

Licensed approver:

A handwritten signature in blue ink that reads "Megan E. Smoley".

Megan Smoley, P.G. No. 8614  
Certified Project Manager





## **Tables**

Table 1	Current Groundwater Monitoring and Analytical Data
Table 2	Historical Groundwater Monitoring and Analytical Data
Table 3	Historical Groundwater Flow Direction and Gradient

## **Figures**

Figure 1	Site Location Map
Figure 2	Groundwater Elevation Contour Map – March 27, 2015
Figure 3	Groundwater Analytical Summary Map – March 27, 2015

## **Attachments**

Attachment A	Field Methods
Attachment B	Groundwater Sampling Data Package
Attachment C	Certified Laboratory Analytical Report and Chain of Custody Documentation
Attachment D	Historical Tables Provided by Broadbent

cc: Ms. Shelby Lathrop, Conoco Phillips, 76 Broadway, Sacramento, California 95818

**Tables**

**Table 1**  
**Current Groundwater Monitoring and Analytical Data**  
**CA-11132**  
**3201 35th Avenue, Oakland, CA 94619**

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	Naphthalene (µg/L)	Notes	
MW-1	3/27/2015		169.75	19.54	--	150.21	7,900	--	17	<2.5	110	25	13	<100	<2.5	<2.5	<2.5	<2.5	<2.5	<2,500	3.23	--	(HC odor, t)	
MW-2	3/27/2015		168.14	18.32	--	149.82	29,000	--	13,000	210	1,400	1,300	140	<4,000	<100	<100	<100	<100	<100	<100,000	2.29	--	(HC odor)	
MW-3	3/27/2015		167.17	17.16		150.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	3/27/2015		170.36	20.23	--	150.13	<50	--	<0.5	<0.5	<0.5	<1.0	22	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<500	3.50	--		
MW-5	3/27/2015		165.14	15.56	--	149.58	2,200	--	370	5.1	74	37	4.2	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<500	3.08	--	(HC odor)	
MW-6	3/27/2015		165.40	15.58		149.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	3/27/2015		168.08	18.09	--	149.99	<50	--	<0.5	<0.5	<0.5	<1.0	240	<20	<0.5	<0.5	<0.5	<0.5	3.3	<500	3.42	--		
MW-8	3/27/2015		165.74	16.10	--	149.64	6,300	--	140	25	380	310	<5.0	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5,000	1.48	--	(HC odor)	
MW-9	3/27/2015		166.20	16.42	--	149.78	6,500	--	7.8	<2.5	38	5.6	<2.5	<100	<2.5	<2.5	<2.5	<2.5	<2.5	<2,500	1.96	--		
MW-10	3/27/2015		167.01	17.19	0.01	149.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(b,j)
RW-1	3/27/2015		168.01	17.57	--	150.44	970	--	0.98	<0.5	0.91	1.5	0.74	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<500	2.35	--	(HC odor)	

**Notes:**

TOC = Top of casing (surveyed)  
DTW = Depth to water  
LNAPL = Light non-aqueous phase liquid (LPH)  
GW Elev = Groundwater elevation  
ft btoc = Feet below top of casing  
ft msl = Feet relative to mean sea level  
GRO = Gasoline Range Organics  
DRO = Diesel Range Organics  
B = Benzene  
T = Toluene  
E = Ethylbenzene  
X = Total xylenes  
MTBE = Methyl tert-butyl ether  
TBA = tert-butyl alcohol  
1,2-DCA = 1,2-dichloroethane  
DIPE = Di-isopropyl ether  
ETBE = Ethyl tert-butyl ether  
EDB = 1,2-dibromoethane  
TAME = tert-Amyl methyl ether  
DO = Dissolved oxygen  
DUP = Duplicate sample  
LPH = Liquid Petroleum Hydrocarbons  
-- = Not analyzed/applicable/measured/available  
< = Not detected at or above specified laboratory reporting limit  
mg/L = Milligrams per liter  
µg/L = Micrograms per liter  
NP = Well not purged prior to sampling  
P = Well purged prior to sampling  
HC odor = Hydrocarbon odor detected during sampling  
b = Groundwater elevation adjusted assuming a specific gravity of 0.75 for free product  
j = Well not sampled due to presence of LPH and nature of the product  
t = Sheen in well  
y = Sample dilution was done with headspace in the sample vial; the samples were originally analyzed from VOAs without headspace  
\* = LCS or LCS D exceeds the control limits  
Beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list; TPHg was changed to GRO; the resulting data may be impacted by the potential of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported.  
Beginning in the Second Quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12.  
Values for DO were obtained through field measurements.  
GRO analysis was completed by EPA method 8260B (C4-C12) for samples collected from the time period April 2006 through February 4, 2008; the analysis for GRO was changed to EPA method 8015B (C6-C12) for samples collected from the time period February 5, 2008 through August 6, 2009 and EPA method 8260B (C6-C12) from March 4, 2010 to the present.  
The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants; Broadbent & Associates, Inc. has not verified the accuracy of this information.



Table 2  
 Historical Groundwater Monitoring and Analytical Data  
 CA-11132  
 3201 35th Avenue, Oakland, CA 94619

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	Naphthalene (µg/L)	Notes	
MW-1	3/7/1991		169.75	20.59	--	149.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	4/1/1991		169.75	16.51	0.15	153.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	7/3/1992		169.75	22.30	0.27	147.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	10/5/1992		169.75	23.98	0.24	145.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	1/13/1993		169.75	17.03	0.24	152.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	4/23/1993		169.75	18.10	0.42	151.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	7/12/1993		169.75	22.02	0.49	147.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	10/21/1993		169.75	25.12	1.09	143.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	1/21/1994		169.75	23.02	0.76	145.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	4/20/1994		169.75	24.54	1.80	143.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/1/1994		169.75	24.11	0.35	145.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	12/23/1994		169.75	18.19	--	151.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	1/26/1995		169.75	16.25	1.10	152.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	6/8/1995		169.75	22.92	--	146.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/22/1995		169.75	24.45	0.85	144.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	10/27/1995		169.75	25.41	--	143.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	1/25/1996		169.75	18.20	--	151.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	4/19/1996		169.75	19.06	1.22	149.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	7/23/1996		169.75	22.98	0.89	145.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/11/1996		169.75	23.99	0.89	144.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	1/21/1997		169.75	16.80	0.90	152.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	4/29/1997		169.75	21.90	0.85	147.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	4/30/1997	Dup	--	--	--	--	92,000	--	3,500	8,100	4,400	23,800	6,900	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-1	8/21/1997	Dup	169.75	23.40	--	146.35	120,000	--	3,200	8,100	3,800	19,600	5,200	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-1	11/5/1997	Dup	169.75	23.70	--	145.51	88,000	--	7,300	4,800	3,600	16,900	8,200	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-1	2/3/1998		169.75	13.63	0.32	155.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	2/4/1998	Dup	--	--	--	--	160,000	--	2,300	8,400	5,000	29,400	<10,000	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-1	5/28/1998		169.75	18.03	0.17	151.55	87,000	--	980	3,900	3,600	19,000	2,900	--	--	--	--	--	--	--	--	3.80	--	
MW-1	12/30/1998		169.75	19.50	0.08	150.17	70,000	--	530	3,200	2,900	16,000	3,600	--	--	--	--	--	--	--	--	--	--	
MW-1	2/2/1999		169.75	18.93	0.03	150.79	79,000	--	480	3,100	3,500	21,000	3,500	--	--	--	--	--	--	--	--	--	--	
MW-1	5/10/1999		169.75	18.28	0.03	151.44	110,000	--	160	1,900	3,700	24,000	3,000	--	--	--	--	--	--	--	--	--	--	
MW-1	8/24/1999		169.75	20.13	0.06	149.56	110,000	--	850	1,300	1,900	19,000	<50	--	--	--	--	--	--	--	--	--	--	
MW-1	11/3/1999		169.75	22.27	0.36	147.12	65,000	--	6,300	1,100	3,300	9,500	8,900	--	--	--	--	--	--	--	--	--	--	
MW-1	3/1/2000		169.75	14.79	0.23	154.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	4/21/2000		169.75	18.10	0.33	151.32	61,000	--	330	780	2,700	17,000	1,300	--	--	--	--	--	--	--	--	--	--	
MW-1	7/31/2000		169.75	21.60	0.53	147.62	1,500,000	--	340	2,100	24,000	120,000	2,700	--	--	--	--	--	--	--	--	--	--	
MW-1	11/20/2000		169.75	21.69	0.37	147.69	1,700,000	--	1,800	2,300	19,000	93,000	3,900	--	--	--	--	--	--	--	--	--	--	
MW-1	2/18/2001		169.75	16.70	0.13	152.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	2/26/2001		169.75	14.38	0.15	155.22	100,000	--	658	466	4,210	15,000	1,890	--	--	--	--	--	--	--	--	--	--	
MW-1	6/7/2001		169.75	20.78	--	148.97	70,000	--	705	440	3,870	12,200	2,720	--	--	--	--	--	--	--	--	--	--	
MW-1	9/5/2001		169.75	23.36	0.35	146.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/30/2001		169.75	20.85	0.41	148.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	12/6/2001		169.75	18.72	0.27	150.76	39,000	--	3,500	237	2,150	4,500	5,400	--	--	--	--	--	--	--	--	--	--	
MW-1	2/20/2002		169.75	17.43	0.15	152.17	52,000	--	465	271	1,600	11,400	106	--	--	--	--	--	--	--	--	--	--	
MW-1	6/20/2002		169.75	21.18	0.34	148.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	9/11/2002		169.75	22.86	0.40	146.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/12/2002		169.75	22.65	0.37	146.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	1/29/2003		169.75	18.15	0.30	151.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/22/2003		169.75	18.49	0.20	151.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	6/24/2003		169.75	21.44	0.35	147.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	7/28/2003		169.75	22.72	0.35	146.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/12/2003		169.75	22.64	0.23	146.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	9/12/2003		169.75	20.70	0.24	148.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/18/2003		169.75	21.70	0.25	148.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	2/23/2004		169.75	16.34	0.09	153.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/4/2004		169.75	21.28	0.16	146.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/4/2004		169.75	22.54	0.10	147.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	9/22/2004		169.75	22.76	0.20	147.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/10/2004		169.75	20.19	0.14	149.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	1/13/2005		169.75	14.58	0.03	155.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	2/15/2005		169.75	16.13	0.04	153.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	3/7/2005		169.75	13.31	0.01	156.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/16/2005		169.75	15.74	0.02	154.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/17/2005		169.75	21.15	0.08	148.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/18/2005		169.75	20.15	--	149.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	2/7/2006		169.75	15.19	0.01	154.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/19/2006		169.75	17.42	--	152.33	44,000	--	73	510	3,300	5,300	86	<400	<10	<10	<10	<10	<10	<6,000	--	--		
MW-1	8/23/2006		169.75	22.01	0.14	147.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/15/2006		169.75	21.98	0.18	147.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	2/14/2007		169.75	17.12	0.17	152.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/22/2007		169.75	19.49	0.01	150.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/15/2007		169.75	22.2																				

Table 2  
 Historical Groundwater Monitoring and Analytical Data  
 CA-11132  
 3201 35th Avenue, Oakland, CA 94619

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	Naphthalene (µg/L)	Notes	
MW-1	11/17/2008		169.75	22.05	--	147.70	27,000	--	780	30	1,800	1,400	590	350	<10	<10	<10	<10	27	<6,000	--	--		
MW-1	2/25/2009		169.75	15.28	0.02	154.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	4/8/2009		169.75	18.18	--	151.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/28/2009		169.75	19.62	0.01	150.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	6/16/2009		169.75	20.94	0.01	148.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/6/2009		169.75	22.31	0.01	147.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	3/4/2010		169.75	14.27	--	155.48	14,000	--	45	<10	610	390	<10	<80	<10	<10	<10	<10	<10	<2,000	0.54	--	(P)	
MW-1	9/2/2010		169.75	22.32	--	147.43	8,200	--	10	<5.0	230	140	<5.0	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	--	--	(NP)	
MW-1	3/15/2011		169.75	14.99	--	154.76	4,500	--	<5.0	<5.0	56	30	16	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	--	--	(P,t)	
MW-1	8/17/2011		169.75	20.41	--	149.34	1,200	--	<1.0	<1.0	24	15	8.3	<8.0	<1.0	<1.0	<1.0	<1.0	<1.0	<500	--	--	(P)	
MW-1	2/6/2012		169.75	18.69	--	151.06	710	--	<1.0	<1.0	2.9	2.2	10	100	<1.0	<1.0	<1.0	<1.0(*)	<1.0	<500	--	--	(P)	
MW-1	8/21/2012		169.75	21.77	--	147.98	5,000	--	230	7.3	230	68	77	<20	<2.5	<2.5	<2.5	<2.5	4.3	<1,300	--	--		
MW-1	2/4/2013		169.75	18.36	--	151.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/1/2013		169.75	22.25	0.15	147.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	2/27/2014		169.75	19.82	0.07	149.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/27/2014		169.75	22.03	0.15	147.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(b, j)
MW-1	3/27/2015		169.75	19.54	--	150.21	7,900	--	17	<2.5	110	25	13	<100	<2.5	<2.5	<2.5	<2.5	<2.5	<2,500	3.23	--	(HC odor, t)	
MW-2	3/7/1991		168.14	19.18	--	148.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	4/1/1991		168.14	15.21	--	152.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	7/3/1992		168.14	20.93	--	147.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	10/5/1992		168.14	22.74	--	145.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	1/13/1993		168.14	15.55	--	152.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	4/23/1993		168.14	16.54	--	151.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	7/12/1993		168.14	20.46	--	147.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	10/21/1993		168.14	24.91	--	143.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	1/21/1994		168.14	21.20	--	146.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	4/20/1994		168.14	22.44	--	145.70	1,800	--	140	370	54	290	24	--	--	--	--	--	--	--	1.70	--	--	
MW-2	8/1/1994		168.14	22.24	--	145.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	12/23/1994		168.14	16.25	--	151.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	1/26/1995		168.14	14.55	--	153.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	6/8/1995		168.14	21.18	--	146.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	8/22/1995		168.14	22.76	--	146.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	10/27/1995		168.14	23.61	--	144.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	1/25/1996		168.14	15.95	--	152.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	4/19/1996		168.14	17.33	--	150.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	7/23/1996		168.14	21.25	--	146.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	11/11/1996		168.14	22.27	--	145.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	1/21/1997		168.14	15.19	--	152.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	4/29/1997		168.14	20.22	--	147.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	4/30/1997		--	--	--	--	130,000	--	4,600	15,000	6,000	37,000	<5,000	--	--	--	--	--	--	--	5.00	--	--	
MW-2	8/21/1997		168.14	21.74	--	146.40	110,000	--	6,000	16,000	4,700	28,000	<500	--	--	--	--	--	--	--	4.60	--	--	
MW-2	11/5/1997		168.14	21.61	--	146.53	120,000	--	7,800	18,000	4,900	28,100	<2,500	--	--	--	--	--	--	--	4.60	--	--	
MW-2	2/3/1998		168.14	11.51	--	156.63	75,000	--	590	1,500	1,800	12,800	<2,500	--	--	--	--	--	--	--	4.50	--	--	
MW-2	5/28/1998		168.14	16.51	--	151.63	79,000	--	3,900	3,100	3,100	18,000	900	--	--	--	--	--	--	--	4.30	--	--	
MW-2	12/30/1998		168.14	17.70	--	150.44	95,000	--	4,700	3,500	3,700	21,000	<250	--	--	--	--	--	--	--	--	--	--	
MW-2	2/2/1999		168.14	15.46	--	152.68	170,000	--	3,500	1,500	5,200	34,000	<500	--	--	--	--	--	--	--	--	--	--	
MW-2	5/10/1999		168.14	16.52	--	151.62	84,000	--	3,200	3,200	3,700	20,000	75	--	--	--	--	--	--	--	--	--	--	
MW-2	8/24/1999		168.14	20.73	--	147.41	130,000	--	9,100	9,200	4,700	27,000	<250	--	--	--	--	--	--	--	--	--	--	
MW-2	11/3/1999		168.14	20.93	--	147.21	120,000	--	10,000	21,000	4,700	30,200	2,200	--	--	--	--	--	--	--	--	--	--	
MW-2	3/1/2000		168.14	13.37	--	154.77	39,000	--	1,400	1,500	1,700	8,100	44	--	--	--	--	--	--	--	--	--	--	
MW-2	4/21/2000		168.14	16.59	--	151.55	68,000	--	3,300	2,500	3,100	20,000	260	--	--	--	--	--	--	--	--	--	--	
MW-2	7/31/2000		168.14	16.37	--	151.77	99,000	--	5,600	1,400	4,300	22,000	490	--	--	--	--	--	--	--	--	--	--	
MW-2	11/20/2000		168.14	19.71	--	148.43	37,000	--	5,100	1,500	1,300	4,800	2,800	--	--	--	--	--	--	--	--	--	--	
MW-2	2/18/2001		168.14	15.29	--	152.85	54,000	--	5,020	3,880	2,850	15,400	1,010	--	--	--	--	--	--	--	--	--	--	
MW-2	6/7/2001		168.14	19.43	--	148.71	110,000	--	7,240	4,380	4,160	22,100	567	--	--	--	--	--	--	--	--	--	--	
MW-2	9/5/2001		168.14	22.44	--	145.70	69,000	--	5,750	5,790	2,770	14,200	1,510	--	--	--	--	--	--	--	--	--	--	
MW-2	11/30/2001		168.14	19.58	--	148.56	120,000	--	7,270	6,540	4,590	23,000	794	--	--	--	--	--	--	--	--	--	--	
MW-2	2/20/2002		168.14	16.39	--	151.75	56,000	--	2,410	2,270	2,910	14,300	160	--	--	--	--	--	--	--	--	--	--	
MW-2	6/20/2002		168.14	19.77	--	148.37	86,000	--	7,310	6,490	3,080	14,600	659	--	--	--	--	--	--	--	--	--	--	
MW-2	9/11/2002		168.14	21.60	--	146.54	130,000	--	7,600	13,000	5,400	30,000	<5,000	--	--	--	--	--	--	--	--	--	--	
MW-2	11/12/2002		168.14	21.34	--	146.80	46,000	--	4,100	4,300	1,900	10,000	1,900	--	--	--	--	--	--	--	--	--	--	
MW-2	1/29/2003		168.14	16.80	--	151.34	77,000	--	4,700	2,600	2,800	13,000	820	<2,000	<50	<50	<50	<50	<50	<4,000	--	--		
MW-2	5/22/2003		168.14	17.15	--	150.99	52,000	--	6,400	2,600	1,800	7,400	1,000	<2,000	--	<50	<50	<50	<50	<10,000	--	--		
MW-2	7/28/2003		168.14	21.47	--	146.67	31,000	--	6,900	5,500	2,200	12,000	1,700	<4,000	<100	<100	<100	<100	<100	<20,000	--	--		
MW-2	11/18/2003		168.14	20.50	--	147.64	23,000	--	3,300	800	500	2,000	500	<1,000	--	<25	<25	<25	<25	<5,000	--	--		
MW-2	2/23/2004		168.14	14.77	--	153.37	84,000	--	14,000	6,200	3,100	14,000	790	<5,000	<120	<120	<120	<120	<120	<25,000	--	--		
MW-2	5/4/2004		168.14	20.09	--	148.05	120,000	--	15,000	17,000	4,900	24,000	780	<10,000	&lt									

Table 2  
 Historical Groundwater Monitoring and Analytical Data  
 CA-11132  
 3201 35th Avenue, Oakland, CA 94619

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	Naphthalene (µg/L)	Notes
MW-2	8/23/2006		168.14	20.83	--	147.31	100,000	--	12,000	9,100	5,800	25,000	480	<4,000	<100	<100	<100	<100	<100	<60,000	--	--	
MW-2	11/15/2006		168.14	20.80	--	147.34	46,000	--	8,800	3,600	2,300	8,500	400	<4,000	<100	<100	<100	<100	<100	<60,000	0.70	--	
MW-2	2/14/2007		168.14	15.96	(Sheen)	152.18	100,000	--	13,000	3,600	6,200	28,000	810	<4,000	<100	<100	<100	<100	<100	<60,000	1.43	--	
MW-2	5/22/2007		168.14	18.20	--	149.94	91,000	--	15,000	8,700	4,700	20,000	1,000	<10,000	<250	<250	<250	<250	<250	<150,000	0.08	--	
MW-2	8/15/2007		168.14	21.23	(Sheen)	146.91	14,000	--	7,300	130	280	600	260	2,400	<50	<50	<50	<50	<50	<30,000	4.24	--	
MW-2	11/8/2007		168.14	20.32	--	147.82	22,000	--	7,400	420	640	1,700	240	2,800	<50	<50	<50	<50	<50	<30,000	1.21	--	
MW-2	2/20/2008		168.14	15.20	0.06	152.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	5/7/2008		168.14	19.80	0.04	148.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	8/20/2008		168.14	21.70	0.01	146.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	11/17/2008		168.14	20.73	--	147.41	45,000	--	8,400	700	1,500	5,600	320	1,800	<10	<10	<10	<10	<10	<6,000	--	--	
MW-2	2/25/2009		168.14	14.15	--	153.99	18,000	--	5,200	<250	380	1,400	<250	<5,000	<250	<250	<250	<250	<250	<150,000	2.11	--	
MW-2	4/8/2009		168.14	17.00	--	151.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	5/28/2009		168.14	18.43	(Sheen)	149.71	37,000	--	5,300	1,600	1,400	5,600	510	<2,500	<120	<120	<120	<120	<120	<75,000	0.16	--	
MW-2	6/16/2009		168.14	19.80	0.01	148.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	8/6/2009		168.14	21.17	0.01	146.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	3/4/2010		168.14	13.03	--	155.11	18,000	--	9,500	270	510	1,400	350	2,600	<5.0	<5.0	<5.0	<5.0	12	<1,000	1.28	--	(P)
MW-2	9/2/2010		168.14	20.62	--	147.52	58,000	--	11,000	3,600	3,900	16,000	470	<80	<10	<10	<10	<10	14	<2,000	--	--	(NP_y)
MW-2	3/15/2011		168.14	13.70	--	154.44	63,000	--	12,000	2,900	4,100	15,000	500	<800	<100	<100	<100	<100	<100	<50,000	--	--	(P)
MW-2	8/17/2011		168.14	19.31	--	148.83	23,000	--	4,900	620	1,500	4,400	150	<800	<100	<100	<100	<100	<100	<50,000	--	--	(P)
MW-2	2/6/2012		168.14	17.49	--	150.65	26,000	--	6,400	200	1,700	3,400	360	<800	<100	<100	<100	<100(*)	<100	<50,000	--	--	(P)
MW-2	8/21/2012		168.14	20.66	--	147.48	20,000	--	4,900	440	1,400	2,400	220	<800	<100	<100	<100	<100	<100	<50,000	--	--	
MW-2	2/4/2013		168.14	17.24	--	150.90	25,000	--	4,000	1,700	1,600	5,300	130	<800	<100	<100	<100	<100	<100	<50,000	--	--	
MW-2	8/1/2013		168.14	21.10	--	147.04	43,000	--	9,100	630	2,800	9,700	220	<2,000	<100	<100	<100	<100	<100	<50,000	--	--	
MW-2	2/27/2014		168.14	18.65	--	149.49	31,000	--	9,600	180	2,700	6,100	310	<2,000	<100	<100	<100	<100	<100	<50,000	--	--	
MW-2	8/27/2014		168.14	20.78	--	147.36	35,000	--	9,900	230	3,100	5,500	240	<4,000	<100	<100	<100	<100	<100	<100,000	3.24	450	(HC odor)
MW-2	3/27/2015		168.14	18.32	--	149.82	29,000	--	13,000	210	1,400	1,300	140	<4,000	<100	<100	<100	<100	<100	<100,000	2.29	--	(HC odor)
MW-3	7/9/1990		--	--	--	--	140	--	5.3	4.6	2	3.8	--	--	--	--	--	--	--	--	--	--	
MW-3	12/21/1990		--	--	--	--	0.19	--	100	6	0.9	27	--	--	--	--	--	--	--	--	--	--	
MW-3	3/7/1991		167.17	17.40	--	149.77	0.4	--	69	22	6.1	57	--	--	--	--	--	--	--	--	--	--	
MW-3	4/1/1991		167.17	13.69	--	153.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	6/27/1991		--	--	--	--	380	--	28	26	13	46	--	--	--	--	--	--	--	--	--	--	
MW-3	9/27/1991		--	--	--	--	0.07	--	7.9	--	0.4	1.1	--	--	--	--	--	--	--	--	--	--	
MW-3	12/18/1991		--	--	--	--	0.26	--	34	24	0.8	28	--	--	--	--	--	--	--	--	--	--	
MW-3	7/3/1992		167.17	19.59	--	147.58	71	--	9.4	0.9	5	13	--	--	--	--	--	--	--	--	--	--	
MW-3	10/5/1992	Dup	167.17	21.22	--	145.95	<50	--	2.2	<0.5	1.5	2.8	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-3	1/13/1993		167.17	13.63	--	153.54	830	--	50	34	42	89	--	--	--	--	--	--	--	--	--	--	
MW-3	4/23/1993	Dup	167.17	15.02	--	152.15	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-3	7/12/1993		167.17	19.16	--	148.01	250	--	12	4.2	12	16	<5.0	--	--	--	--	--	--	--	--	--	
MW-3	10/21/1993	Dup	167.17	21.81	--	145.36	65	--	7.4	1	6.9	4.2	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-3	1/21/1994		167.17	19.94	--	147.23	57	--	3	3.4	3.6	9	<5.0	--	--	--	--	--	--	--	--	--	
MW-3	4/20/1994		167.17	20.24	--	146.93	600	--	26	23	33	88	28.7	--	--	--	--	--	--	--	1.80	--	
MW-3	8/1/1994	Dup	167.17	20.74	--	146.43	120	--	7.7	1.6	5.9	6.7	5.43	--	--	--	--	--	--	--	--	--	(Dup)
MW-3	12/23/1994	Dup	167.17	14.70	--	152.47	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-3	1/26/1995		167.17	12.89	--	154.28	190	--	16	0.5	35	24	--	--	--	--	--	--	--	--	6.60	--	
MW-3	6/8/1995		167.17	19.95	--	147.22	330	--	21	4	34	32	--	--	--	--	--	--	--	--	7.00	--	
MW-3	8/22/1995		167.17	21.41	--	145.76	150	--	14	<0.50	<0.50	1.6	<5.0	--	--	--	--	--	--	--	6.60	--	
MW-3	10/27/1995		167.17	22.43	--	144.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	10/30/1995		--	--	--	--	51	--	2.4	<0.50	<0.50	<1.0	<5.0	--	--	--	--	--	--	--	6.90	--	
MW-3	1/25/1996		167.17	14.03	--	153.14	<50	--	<0.50	<0.50	<0.50	<1.0	5.1	--	--	--	--	--	--	--	--	--	
MW-3	4/19/1996		167.17	15.26	--	151.91	460	--	55	4	33	63	<10	--	--	--	--	--	--	--	--	9.40	
MW-3	7/23/1996		167.17	19.19	--	147.98	<50	--	<0.5	<0.5	<0.5	<0.5	<10	--	--	--	--	--	--	--	--	9.20	
MW-3	11/11/1996		167.17	20.24	--	146.93	<250	--	<2.5	<5.0	<5.0	<5.0	<50	--	--	--	--	--	--	--	--	8.40	
MW-3	1/21/1997		167.17	13.09	--	154.08	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	--	5.40	
MW-3	4/29/1997		167.17	18.14	--	149.03	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	--	4.30	
MW-3	8/21/1997		167.17	19.64	--	147.53	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	--	4.90	
MW-3	11/5/1997		167.17	19.95	--	147.22	<250	--	<2.5	<5.0	<5.0	<5.0	<50	--	--	--	--	--	--	--	--	4.50	
MW-3	2/3/1998		167.17	10.57	--	156.60	<50	--	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	--	4.70	
MW-3	5/28/1998		167.17	14.65	--	152.52	330	--	<2.5	<5.0	<5.0	<5.0	<50	--	--	--	--	--	--	--	--	4.20	
MW-3	12/30/1998		167.17	16.63	--	150.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/2/1999		167.17	13.12	--	154.05	<250	--	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	
MW-3	5/10/1999		167.17	14.21	--	152.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/24/1999		167.17	14.36	--	152.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	11/3/1999		167.17	19.21	--	147.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	3/1/2000		167.17	15.17	--	152.00	<50	--	<0.5	0.57	<0.5	0.62	<0.5	--	--	--	--	--	--	--	--	--	
MW-3	4/21/2000		167.17	14.88	--	152.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	7/31/2000		167.17	15.29	--	151.88	--	--	--	--	--												

Table 2  
 Historical Groundwater Monitoring and Analytical Data  
 CA-11132  
 3201 35th Avenue, Oakland, CA 94619

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	Naphthalene (µg/L)	Notes	
MW-3	1/27/2003		167.17	14.83	--	152.34	850	--	20	9.7	24	45	0.76	--	--	--	--	--	--	--	--	--	--	
MW-3	1/29/2003		--	--	--	--	--	--	--	--	--	--	0.76	<20	<50	<50	<50	<50	<50	<50	<40	--	--	
MW-3	5/22/2003		167.17	15.60	--	151.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	7/28/2003		167.17	20.12	--	147.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	11/18/2003		167.17	19.15	--	148.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/23/2004		167.17	13.53	--	153.64	160	--	<0.50	1.1	9.6	12	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<100	--	--	
MW-3	5/4/2004		167.17	18.61	--	148.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/4/2004		167.17	19.21	--	147.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	11/10/2004		167.17	17.48	--	149.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/15/2005		167.17	14.31	--	152.86	500	--	7.8	1.8	9.2	9.6	1.7	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<100	--	--	
MW-3	5/16/2005		167.17	13.11	--	154.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/17/2005		167.17	18.53	--	148.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	11/18/2005		167.17	19.34	--	147.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/7/2006		167.17	11.64	--	155.53	65	--	<0.50	<0.50	1.4	2.3	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<300	--	--	
MW-3	5/19/2006		167.17	14.88	--	152.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/23/2006		167.17	19.43	--	147.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	11/15/2006		167.17	19.22	--	147.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/14/2007		167.17	13.80	--	153.37	200	--	1.1	<0.50	5.9	3.2	3.8	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<300	0.68	--	
MW-3	5/22/2007		167.17	16.80	--	150.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/15/2007		167.17	19.87	--	147.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	11/8/2007		167.17	19.27	--	147.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/20/2008		167.17	13.58	--	153.59	240	--	1.1	<0.50	0.99	0.79	2.3	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<100	2.58	--	
MW-3	5/7/2008		167.17	18.32	--	148.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/20/2008		167.17	20.29	--	146.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	11/17/2008		167.17	19.35	--	147.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/25/2009		167.17	11.77	--	155.40	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<300	3.45	--	
MW-3	5/28/2009		167.17	17.02	--	150.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/6/2009		167.17	19.87	--	147.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	3/4/2010		167.17	10.79	--	156.38	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<100	3.16	--	(P)
MW-3	9/2/2010		167.17	19.32	--	147.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	3/15/2011		167.17	11.77	--	155.40	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	(P)
MW-3	8/17/2011		167.17	17.98	--	149.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/6/2012		167.17	15.92	--	151.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/21/2012		167.17	19.42	--	147.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/4/2013		167.17	15.75	--	151.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/1/2013		167.17	19.78	--	147.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/27/2014		167.17	16.95	--	150.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/27/2014		167.17	19.64	--	147.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	3/27/2015		167.17	17.16	--	150.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	12/21/1990		--	--	--	--	--	--	--	--	--	0.8	--	--	--	--	--	--	--	--	--	--	--	
MW-4	3/7/1991		170.36	20.72	--	149.64	--	--	2.2	3.8	1.5	2.8	--	--	--	--	--	--	--	--	--	--	--	
MW-4	4/1/1991		170.36	17.49	--	152.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	6/27/1991		--	--	--	--	--	--	6.3	1.8	0.4	1	--	--	--	--	--	--	--	--	--	--	--	
MW-4	7/3/1992		170.36	22.16	--	148.20	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	
MW-4	10/5/1992		170.36	23.38	--	146.98	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	
MW-4	1/13/1993		170.36	17.58	--	152.78	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	
MW-4	4/23/1993		170.36	15.72	--	154.64	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	
MW-4	7/12/1993		170.36	21.74	--	148.62	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
MW-4	10/21/1993		170.36	23.84	--	146.52	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
MW-4	1/21/1994		170.36	22.42	--	147.94	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
MW-4	4/20/1994		170.36	22.66	--	147.70	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	2.20	
MW-4	8/1/1994		170.36	23.01	--	147.35	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	1.90	
MW-4	12/23/1994		170.36	17.03	--	153.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	1/26/1995		170.36	17.42	--	152.94	<50	--	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--	--	7.50	
MW-4	6/8/1995		170.36	21.55	--	148.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/22/1995		170.36	23.47	--	146.89	<50	--	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	--	--	--	--	--	--	6.40	
MW-4	10/27/1995		170.36	24.50	--	145.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	1/25/1996		170.36	18.74	--	151.62	<50	--	<0.50	<0.50	<0.50	<1.0	58	--	--	--	--	--	--	--	--	--	--	
MW-4	4/19/1996		170.36	18.63	--	151.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	7/23/1996		170.36	22.56	--	147.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/11/1996		170.36	23.63	--	146.73	<50	--	<1.0	<1.0	<1.0	<1.0	34	--	--	--	--	--	--	--	--	8.20	--	
MW-4	1/21/1997		170.36	16.59	--	153.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	4/29/1997		170.36	21.43	--	148.93	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	--	4.70	--	
MW-4	8/21/1997		170.36	22.91	--	147.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/5/1997		170.36	22.34	--	148.02	60	--	<0.5	<1.0	<1.0	<1.0	76	--	--	--	--	--	--	--	--	4.90	--	
MW-4	2/3/1998		170.36	12.26	--	158.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	5/28/1998		170.36	18.50	--	151.86	70	--	<0.5	<1.0	<1.0	<1.0	160	--	--	--	--	--	--	--	--	4.20	--	
MW-4	12/30/1998		170.36	19.69	--	150.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/2/1999		170.36	18.26	--	152.10	70	--	<1.0	<1.0	<1.0	<1.0	130	--	--	--	--	--	--	--	--	--	--	
MW-4	5/10/1999		170.36	17.86	--																			

Table 2  
 Historical Groundwater Monitoring and Analytical Data  
 CA-11132  
 3201 35th Avenue, Oakland, CA 94619

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	Naphthalene (µg/L)	Notes	
MW-4	11/20/2000		170.36	18.91	--	151.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/18/2001		170.36	17.72	--	152.64	88	--	<0.5	<0.5	<0.5	<0.5	97.3	--	--	--	--	--	--	--	--	--	--	
MW-4	6/7/2001		170.36	20.23	--	150.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	9/5/2001		170.36	22.76	--	147.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/30/2001		170.36	21.30	--	149.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/20/2002		170.36	19.32	--	151.04	76	--	<0.5	<0.5	<0.5	<1.0	81	--	--	--	--	--	--	--	--	--	--	
MW-4	6/20/2002		170.36	20.71	--	149.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	9/11/2002		170.36	22.22	--	148.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/12/2002		170.36	22.22	--	148.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	1/29/2003		170.36	19.80	--	150.56	100	--	<0.5	<0.5	<0.5	<0.5	66	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<40	--	--	
MW-4	5/22/2003		170.36	19.35	--	151.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	7/28/2003		170.36	22.18	--	148.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/18/2003		170.36	21.65	--	148.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/23/2004		170.36	17.53	--	152.83	75	--	<0.50	<0.50	<0.50	<0.50	65	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<100	--	--	--	
MW-4	5/4/2004		170.36	20.62	--	149.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/4/2004		170.36	21.30	--	149.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/10/2004		170.36	20.65	--	149.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/15/2005		170.36	18.91	--	151.45	<50	--	<0.50	<0.50	<0.50	<0.50	62	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<100	--	--	--	
MW-4	5/16/2005		170.36	17.34	--	153.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/17/2005		170.36	21.31	--	149.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/18/2005		170.36	21.67	--	148.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/7/2006		170.36	16.74	--	153.62	100	--	<0.50	<0.50	1	3	29	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<300	--	--	--	
MW-4	5/19/2006		170.36	18.22	--	152.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/23/2006		170.36	20.95	--	149.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/15/2006		170.36	22.21	--	148.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/14/2007		170.36	18.25	--	152.11	<50	--	<0.50	<0.50	<0.50	<0.50	61	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<300	0.95	--	--	
MW-4	5/22/2007		170.36	20.16	--	150.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/15/2007		170.36	22.34	--	148.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/8/2007		170.36	21.86	--	148.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/20/2008		170.36	17.74	--	152.62	<50	--	<0.50	<0.50	<0.50	<0.50	36	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<100	2.13	--	--	
MW-4	5/7/2008		170.36	21.38	--	148.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/20/2008		170.36	22.44	--	147.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/17/2008		170.36	22.20	--	148.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/25/2009		170.36	16.81	--	153.55	<50	--	<0.50	<0.50	<0.50	<0.50	26	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<300	2.80	--	--	
MW-4	5/28/2009		170.36	20.37	--	149.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/6/2009		170.36	22.46	--	147.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	3/4/2010		170.36	17.11	--	153.25	<50	--	<0.50	<0.50	<0.50	<1.0	34	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	<100	0.63	--	(P)	
MW-4	9/2/2010		170.36	20.63	--	149.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	3/15/2011		170.36	16.47	--	153.89	<50	--	<0.50	<0.50	<0.50	<1.0	26	4.1	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	(P)	
MW-4	8/17/2011		170.36	20.94	--	149.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/6/2012		170.36	19.65	--	150.71	<50	--	<0.50	<0.50	<0.50	<1.0	32	<4.0	<0.50	<0.50	<0.50	<0.50(*)	<0.50	<250	--	--	(P)	
MW-4	8/21/2012		170.36	22.00	--	148.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/4/2013		170.36	19.43	--	150.93	<50	--	<0.50	<0.50	<0.50	<1.0	34	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	
MW-4	8/1/2013		170.36	22.43	--	147.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/27/2014		170.36	20.64	--	149.72	<50	--	<0.50	<0.50	<0.50	<1.0	24	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	
MW-4	8/27/2014		170.36	22.24	--	148.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	3/27/2015		170.36	20.23	--	150.13	<50	--	<0.5	<0.5	<0.5	<1.0	22	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<500	3.50	--	--	
MW-5	7/9/1990		--	--	--	--	280	--	200	210	46	290	--	--	--	--	--	--	--	--	--	--	--	
MW-5	12/21/1990		--	--	--	--	0.69	--	300	34	8.4	39	--	--	--	--	--	--	--	--	--	--	--	
MW-5	3/7/1991		165.14	16.60	--	148.54	--	--	17	0.9	0.7	1.6	--	--	--	--	--	--	--	--	--	--	--	
MW-5	4/1/1991		165.14	11.99	--	153.15	800	--	250	54	11	60	--	--	--	--	--	--	--	--	--	--	--	
MW-5	6/27/1991		--	--	--	--	330	--	120	10	12	8	--	--	--	--	--	--	--	--	--	--	--	
MW-5	9/27/1991		--	--	--	--	0.73	--	230	16	20	22	--	--	--	--	--	--	--	--	--	--	--	
MW-5	7/3/1992		165.14	18.65	--	146.49	150	--	36	<0.5	<0.5	1.1	--	--	--	--	--	--	--	--	--	--	--	
MW-5	10/5/1992		165.14	20.32	--	144.82	270	--	79	4	1.7	2.9	--	--	--	--	--	--	--	--	--	--	--	
MW-5	1/13/1993		165.14	13.03	--	152.11	180	--	59	6	1.8	7.6	--	--	--	--	--	--	--	--	--	--	--	
MW-5	4/23/1993		165.14	13.51	--	151.63	8,700	--	440	96	35	136	--	--	--	--	--	--	--	--	--	--	--	
MW-5	7/12/1993		165.14	18.06	--	147.08	250	--	57	2.9	2.1	6	<5.0	--	--	--	--	--	--	--	--	--	--	
MW-5	10/21/1993		165.14	20.41	--	144.73	210	--	82	1.5	<0.5	1.4	--	--	--	--	--	--	--	--	--	--	--	
MW-5	1/21/1994		165.14	18.86	--	146.28	110	--	36	1.2	<0.5	0.7	<5.0	--	--	--	--	--	--	--	--	--	--	
MW-5	4/20/1994		165.14	17.30	--	147.84	690	--	230	4.5	1.6	11	21.2	--	--	--	--	--	--	--	--	1.30	--	
MW-5	8/1/1994		165.14	17.53	--	147.61	170	--	44	1.6	0.9	2.7	<5.0	--	--	--	--	--	--	--	--	0.90	--	
MW-5	12/23/1994		165.14	11.63	--	153.51	630	--	180	1.9	0.66	1.9	7.81	--	--	--	--	--	--	--	--	1.40	--	
MW-5	1/26/1995		165.14	11.25	--	153.89	160	--	68	<0.5	<0.5	22	--	--	--	--	--	--	--	--	--	5.90	--	
MW-5	6/8/1995	Dup	165.14	16.80	--	148.34	1,700	--	560	51	55	170	--	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-5	8/22/1995		165.14	19.02	--	146.12	3,700	--	1,100	18	27	59	<130	--	--	--	--	--	--	--	--	7.30	--	
MW-5	10/27/1995		165.14	20.94	--	144.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	10/30/1995		--	--	--	--	6,500	--	2,200	55	180	270	<250	--	--	--	--	--	--	--	--	7.50	--	
MW-5	1/25/1996	Dup	165.14	13.30	--	151.84	540	--	37	0.66	<0.50	<												

Table 2  
 Historical Groundwater Monitoring and Analytical Data  
 CA-11132  
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Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	Naphthalene (µg/L)	Notes	
MW-5	11/5/1997		165.14	18.84	--	146.30	120	--	13	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	4.40	--		
MW-5	2/3/1998		165.14	9.49	--	155.65	<50	--	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	4.30	--		
MW-5	5/28/1998		165.14	13.57	--	151.57	4,900	--	1,500	34	180	311	<10	--	--	--	--	--	--	--	4.10	--		
MW-5	12/30/1998		165.14	14.65	--	150.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-5	2/2/1999		165.14	12.56	--	152.58	100	--	<1.0	<1.0	<1.0	<1.0	9.1	--	--	--	--	--	--	--	--	--		
MW-5	5/10/1999		165.14	13.36	--	151.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-5	8/24/1999		165.14	13.50	--	151.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-5	11/3/1999		165.14	18.48	--	146.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-5	3/1/2000		165.14	9.59	--	155.55	<50	--	<0.5	0.58	<0.5	0.54	2.9	--	--	--	--	--	--	--	--	--		
MW-5	4/21/2000		165.14	13.52	--	151.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-5	7/31/2000		165.14	14.04	--	151.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-5	11/20/2000		165.14	15.89	--	149.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-5	2/18/2001		165.14	11.88	--	153.26	560	--	161	2.38	6.11	13	5.67	--	--	--	--	--	--	--	--	--		
MW-5	6/7/2001		165.14	15.30	--	149.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-5	9/5/2001		165.14	19.32	--	145.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-5	11/30/2001		165.14	17.44	--	147.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-5	2/20/2002		165.14	13.88	--	151.26	4,200	--	940	18.7	98.2	176	55.6	--	--	--	--	--	--	--	--	--		
MW-5	6/20/2002		165.14	16.20	--	148.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-5	9/11/2002		165.14	19.15	--	145.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-5	11/12/2002		165.14	19.01	--	146.13	390	--	55	0.89	3.4	3.5	210	--	--	--	--	--	--	--	--	--		
MW-5	1/29/2003		165.14	16.33	--	148.81	7,900	--	1,400	34	220	350	82	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<400	--		
MW-5	5/22/2003		165.14	14.35	--	150.79	9,900	--	2,300	91	400	690	<50	<2,000	--	<50	<50	<50	<50	<50	<10,000	--		
MW-5	7/28/2003		165.14	18.90	--	146.24	3,200	--	690	14	81	100	120	<400	<10	<10	<10	<10	<10	<10	<2,000	--		
MW-5	2/23/2004		165.14	12.21	--	152.93	7,500	--	1,500	100	190	350	100	<1,000	38	<25	<25	<25	<25	<25	<5,000	--		
MW-5	5/4/2004		165.14	17.12	--	148.02	5,900	--	1,500	57	200	280	42	<1,000	<25	<25	<25	<25	<25	<25	<5,000	--		
MW-5	8/4/2004		165.14	19.05	--	146.09	<2,500	--	<25	<25	<25	<25	390	<1,000	<25	<25	<25	<25	<25	<25	<5,000	--		
MW-5	11/10/2004		165.14	16.95	--	148.19	870	--	80	<5.0	<5.0	<5.0	530	<200	<5.0	<5.0	<5.0	<5.0	5.5	<1,000	--			
MW-5	2/15/2005		165.14	12.75	--	152.39	1,600	--	330	8	37	67	260	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	--		
MW-5	5/16/2005		165.14	15.46	--	149.68	<500	--	<5.0	<5.0	<5.0	<5.0	370	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	--		
MW-5	8/17/2005		165.14	17.00	--	148.14	7,000	--	1,000	17	110	130	51	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	--		
MW-5	11/18/2005		165.14	18.33	--	146.81	1,900	--	91	<5.0	33	29	340	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	--		
MW-5	2/7/2006		165.14	10.27	--	154.87	2,100	--	590	9.6	86	110	200	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<3,000	--		
MW-5	5/19/2006		165.14	13.08	--	152.06	3,200	--	720	9.7	150	170	44	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<3,000	--		
MW-5	8/23/2006		165.14	17.02	--	148.12	1,400	--	69	<5.0	20	24	230	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<3,000	--		
MW-5	11/15/2006		165.14	18.30	--	146.84	1,100	--	24	<2.5	10	8.6	490	<100	<2.5	<2.5	<2.5	<2.5	4.2	<1,500	0.85	--		
MW-5	2/14/2007		165.14	13.16	--	151.98	680	--	110	<2.5	16	11	420	<100	<2.5	<2.5	<2.5	<2.5	3.6	<1,500	2.54	--		
MW-5	5/22/2007		165.14	15.42	--	149.72	2,800	--	660	8.8	74	100	26	<100	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1,500	1.41	--	
MW-5	8/15/2007		165.14	18.80	--	146.34	2,800	--	50	<10	26	29	280	<400	<10	<10	<10	<10	<10	<6,000	3.81	--		
MW-5	11/8/2007		165.14	18.55	(Sheen)	146.59	3,800	--	77	<2.5	46	35	270	310	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1,500	1.08	--	
MW-5	2/20/2008		165.14	12.21	--	152.93	2,500	--	530	<5.0	75	62	43	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	2.01	--	
MW-5	5/7/2008		165.14	16.91	--	148.23	6,700	--	1,800	29	270	360	30	<200	<10	<10	<10	<10	<10	<6,000	2.45	--		
MW-5	8/20/2008		165.14	19.45	--	145.69	300	--	22	<2.0	8.5	5.3	260	270	<2.0	<2.0	<2.0	<2.0	3	<1,200	5.57	--		
MW-5	2/25/2009		165.14	11.12	--	154.02	140	--	6.4	<0.50	2.4	3.1	68	110	<0.50	<0.50	<0.50	<0.50	0.62	<300	4.38	--		
MW-5	5/28/2009		165.14	15.70	--	149.44	3,800	--	790	9.5	140	110	11	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<600	0.04	--		
MW-5	8/6/2009		165.14	18.84	(Sheen)	146.30	78	--	<5.0	<5.0	<5.0	<5.0	190	340	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<3,000	0.06	--	
MW-5	3/4/2010		165.14	10.02	--	155.12	1,200	--	420	5.5	69	58	15	38	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<100	0.66	--	(P)
MW-5	9/2/2010		165.14	16.24	--	148.90	200	--	69	1.3	3.2	7.3	13	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<100	--	--	(NP,v)
MW-5	3/15/2011		165.14	11.36	--	153.78	1,700	--	410	7.9	88	80	5.9	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	(P)	
MW-5	8/17/2011		165.14	16.62	--	148.52	1,900	--	460	7.6	44	51	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	--	--	(P)
MW-5	2/6/2012		165.14	14.36	--	150.78	580	--	140	<5.0	9.2	<10	9.6	<40	<5.0	<5.0	<5.0	<5.0(*)	<5.0	<2,500	--	--	(P)	
MW-5	8/21/2012		165.14	18.22	--	146.92	290	--	23	0.75	4.8	4.3	17	200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	(P)
MW-5	2/4/2013		165.14	13.99	--	151.15	1,400	--	230	2.7	55	34	3.1	13	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	
MW-5	8/1/2013		165.14	18.64	--	146.50	<50	--	<0.50	<0.50	<0.50	<1.0	27	250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	
MW-5	2/27/2014		165.14	16.03	--	149.11	83	--	3.5	<0.50	<0.50	<1.0	12	77	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--		
MW-5	8/27/2014		165.14	18.28	--	146.86	430	--	43	0.59	2.8	1.2	9.1	210	<0.50	<0.50	<0.50	<0.50	<0.50	<500	3.08	<1.0	(HC odor)	
MW-5	3/27/2015		165.14	15.56	--	149.58	2,200	--	370	5.1	74	37	4.2	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<500	3.08	--	(HC odor)
MW-6	12/21/1990		--	--	--	--	0.17	--	2.6	7	4.9	26	--	--	--	--	--	--	--	--	--	--		
MW-6	4/1/1991		165.40	11.79	--	153.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-6	12/18/1991		--	--	--	--	--	--	1.3	22	--	2.7	--	--	--	--	--	--	--	--	--	--		
MW-6	7/3/1992		165.40	17.77	--	147.63	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--		
MW-6	10/5/1992		165.40	19.46	--	145.94	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--		
MW-6	1/13/1993		165.40	11.34	--	154.06	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--		
MW-6	4/23/1993		165.40	12.92	--	152.48	<50</																	

Table 2  
 Historical Groundwater Monitoring and Analytical Data  
 CA-11132  
 3201 35th Avenue, Oakland, CA 94619

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	Naphthalene (µg/L)	Notes	
MW-6	7/23/1996		165.40	17.83	--	147.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/11/1996		165.40	18.90	--	146.50	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	7.70	--	--	
MW-6	1/21/1997		165.40	11.97	--	153.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	4/29/1997		165.40	17.04	--	148.36	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	4.50	--	--	
MW-6	8/21/1997		165.40	18.58	--	146.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/5/1997		165.40	19.17	--	146.23	70	--	<0.5	<1.0	<1.0	<1.0	85	--	--	--	--	--	--	--	4.30	--	--	
MW-6	2/3/1998		165.40	9.87	--	155.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	5/28/1998		165.40	13.38	--	152.02	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	3.70	--	--	
MW-6	12/30/1998		165.40	14.45	--	150.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/2/1999		165.40	18.29	--	147.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	5/10/1999		165.40	17.49	--	147.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	8/24/1999		165.40	17.61	--	147.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/3/1999		165.40	16.26	--	149.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	3/1/2000		165.40	17.43	--	147.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	4/21/2000		165.40	13.32	--	152.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	7/31/2000		165.40	13.46	--	151.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/20/2000		165.40	14.78	--	150.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/18/2001		165.40	11.33	--	154.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	6/7/2001		165.40	16.36	--	149.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	9/5/2001		165.40	18.61	--	146.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/30/2001		165.40	15.20	--	150.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/20/2002		165.40	12.74	--	152.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	6/20/2002		165.40	16.68	--	148.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	9/11/2002		165.40	18.38	--	147.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/12/2002		165.40	18.78	--	146.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	1/29/2003		165.40	14.45	--	150.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	5/22/2003		165.40	14.36	--	151.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	7/28/2003		165.40	18.43	--	146.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/18/2003		165.40	17.48	--	147.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/23/2004		165.40	11.54	--	153.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	5/4/2004		165.40	16.58	--	146.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	8/4/2004		165.40	18.12	--	147.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/10/2004		165.40	15.75	--	149.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/15/2005		165.40	12.50	--	152.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	5/16/2005		165.40	11.51	--	153.89	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<100	--	--	
MW-6	8/17/2005		165.40	16.85	--	148.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/7/2006		165.40	9.93	--	155.47	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<300	--	--	
MW-6	8/23/2006		165.40	16.35	--	149.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/15/2006		165.40	17.42	--	147.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/14/2007		165.40	12.03	--	153.37	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<300	1.07	--	
MW-6	5/22/2007		165.40	15.11	--	150.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	8/15/2007		165.40	18.08	--	147.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/8/2007		165.40	17.79	--	147.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/20/2008		165.40	11.81	--	153.59	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<100	1.29	--	
MW-6	5/7/2008		165.40	16.75	--	148.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/25/2009		165.40	9.99	--	155.41	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<300	2.39	--	
MW-6	8/6/2009		165.40	18.33	--	147.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	3/4/2010		165.40	9.11	--	156.29	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<100	0.88	--	(P)
MW-6	9/2/2010		165.40	17.80	--	147.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	3/15/2011		165.40	10.08	--	155.32	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	(P)
MW-6	8/17/2011		165.40	16.50	--	148.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/6/2012		165.40	14.44	--	150.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	8/21/2012		165.40	17.91	--	147.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/4/2013		165.40	14.13	--	151.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	8/1/2013		165.40	18.27	--	147.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/27/2014		165.40	15.33	--	150.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	8/27/2014		165.40	19.12	--	146.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	3/27/2015		165.40	15.58	--	149.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	3/7/1991		167.61	19.04	--	148.57	--	--	--	0.4	0.3	2.4	--	--	--	--	--	--	--	--	--	--	--	
MW-7	4/1/1991		167.61	15.18	--	152.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	6/27/1991		--	--	--	--	70	--	17	4	0.8	2.2	--	--	--	--	--	--	--	--	--	--	--	
MW-7	9/27/1991		--	--	--	--	--	--	0.4	--	--	0.4	--	--	--	--	--	--	--	--	--	--	--	
MW-7	12/18/1991		--	--	--	--	--	--	0.7	2.9	0.8	3.3	--	--	--	--	--	--	--	--	--	--	--	
MW-7	7/3/1992		167.61	20.28	--	147.33	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	
MW-7	10/5/1992		167.61	21.56	--	146.05	<50	--	<0.5	<0.5	<0.5	1.5	--	--	--	--	--	--	--	--	--	--	--	
MW-7	1/13/1993		167.61	15.41	--	152.20	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	
MW-7	4/23/1993		167.61	15.84	--	151.77	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	
MW-7	7/12/1993		167.61	19.84	--	147.77	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
MW-7	10/21/1993		167.61	21.61	--	146.00	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	
MW-7	1/21/1994	Dup	167.61	20.49	--	147.12	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-7	4/20/1994		167.61	20.54	--	147.07	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--						

Table 2  
 Historical Groundwater Monitoring and Analytical Data  
 CA-11132  
 3201 35th Avenue, Oakland, CA 94619

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	Naphthalene (µg/L)	Notes
MW-7	8/22/1995		167.61	21.49	--	146.12	<50	--	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	--	--	--	--	6.40	--	--
MW-7	10/27/1995		167.61	22.53	--	145.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/25/1996		167.61	17.21	--	150.40	<50	--	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	--	--	--	--	--	--	--
MW-7	4/19/1996		167.61	17.09	--	150.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/23/1996		167.61	21.02	--	146.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/11/1996		167.61	22.03	--	145.58	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	7.80	--	--
MW-7	1/21/1997		167.61	15.06	--	152.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	4/29/1997		167.61	20.11	--	147.50	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	4.40	--	--
MW-7	8/21/1997		167.61	21.59	--	146.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/5/1997		167.61	20.05	--	147.56	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	4.40	--	--
MW-7	2/3/1998		167.61	9.97	--	157.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	5/28/1998		167.61	13.52	--	154.09	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	4.30	--	--
MW-7	12/30/1998		167.61	18.33	--	149.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/2/1999		167.61	12.33	--	155.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	5/10/1999		167.61	13.52	--	154.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/24/1999		167.61	14.01	--	153.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/3/1999		167.61	19.91	--	147.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/1/2000		167.61	19.89	--	147.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	4/21/2000		167.61	17.94	--	149.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/31/2000		167.61	17.33	--	150.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/20/2000		167.61	18.41	--	149.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/18/2001		167.61	15.13	--	152.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	6/7/2001		167.61	18.75	--	148.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	9/5/2001		167.61	20.48	--	147.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/30/2001		167.61	20.11	--	147.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/20/2002		167.61	18.40	--	149.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	6/20/2002		167.61	18.62	--	148.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	9/11/2002		167.61	20.05	--	147.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/12/2002		167.61	21.13	--	146.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/29/2003		167.61	19.10	--	148.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	5/22/2003		167.61	18.83	--	148.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/28/2003		167.61	19.88	--	147.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/18/2003		167.61	20.50	--	147.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/23/2004		168.08	15.92	--	152.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	5/4/2004		168.08	18.86	--	149.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/4/2004		168.08	19.10	--	148.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/10/2004		168.08	20.25	--	147.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/15/2005		168.08	16.37	--	151.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/17/2005		168.08	19.74	--	148.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/18/2005		168.08	20.82	--	147.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/7/2006		168.08	14.26	--	153.82	<500	--	<5.0	<5.0	<5.0	<5.0	270	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<3,000	--	--	--
MW-7	5/19/2006		168.08	16.51	--	151.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/23/2006		168.08	20.30	--	147.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/15/2006		168.08	20.85	--	147.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/14/2007		168.08	16.57	--	151.51	520	--	<5.0	<5.0	<5.0	<5.0	740	<200	<5.0	<5.0	<5.0	<5.0	9.6	<3,000	3.08	--	--
MW-7	5/22/2007		168.08	18.40	--	149.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/15/2007		168.08	20.85	--	147.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/8/2007		168.08	20.41	--	147.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/20/2008		168.08	19.90	--	152.18	<50	--	<0.50	<0.50	<0.50	<0.50	700	13	0.6	<0.50	<0.50	<0.50	12	<100	4.34	--	--
MW-7	5/7/2008		168.08	15.91	--	148.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/20/2008		168.08	21.34	--	146.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/17/2008		168.08	20.54	--	147.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/25/2009		168.08	14.89	--	153.19	130	--	<20	<20	<20	<20	540	<400	<20	<20	<20	<20	<20	<12,000	4.28	--	--
MW-7	5/28/2009		168.08	18.57	--	149.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/6/2009		168.08	20.83	--	147.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/4/2010		168.08	14.02	--	154.06	430	--	<0.50	<0.50	<0.50	<1.0	920	4	0.74	<0.50	<0.50	<0.50	17	<100	3.30	--	(P)
MW-7	9/2/2010		168.08	20.43	--	147.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/15/2011		168.08	14.86	--	153.22	<1,000	--	<0.50	<0.50	<0.50	<1.0	990	130	0.81	<0.50	<0.50	<0.50	17	<250	--	--	(P)
MW-7	8/17/2011		168.08	19.01	--	149.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/6/2012		168.08	18.20	--	149.88	<50	--	<0.50	<0.50	<0.50	<1.0	22	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	(P)
MW-7	8/21/2012		168.08	20.29	--	147.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/4/2013		168.08	17.60	--	150.48	<500	--	<0.50	<0.50	<0.50	<1.0	290	<4.0	<0.50	<0.50	<0.50	<0.50	6.4	<250	--	--	--
MW-7	8/1/2013		168.08	20.68	--	147.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/27/2014		168.08	18.86	--	149.22	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	--
MW-7	8/27/2014		168.08	19.68	--	148.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/27/2015		168.08	18.09	--	149.99	<50	--	<0.5	<0.5	<0.5	<1.0	240	<20	<0.5	<0.5	<0.5	<0.5	3.3	<500	3.42	--	--
MW-8	3/7/1991		165.74	16.72	--	149.02	2.7	--	780	450	64	310	--	--	--	--	--	--	--	--	--	--	--
MW-8	4/1/1991		165.74	12.54	--	153.20	15,000	--	3,600	2,600	410	1,900	--	--	--	--	--	--	--	--	--	--	--
MW-8	6/27/1991		--	--	--	--	12,000	--	3,400	1,100	240	750	--	--	--	--	--	--	--	--	--	--	--
MW-8	9/27/1991		--	--	--	--	41	--	5,700	5,200	1,100	4,300	--	--	--	--	--	--	--	--	--	--	--
MW-8	12/18/1991		--	--	--	--	3.2	--	990	150	120	250	--	--	--	--	--	--	--	--	--	--	--
MW-8	7/3/1992		165.74	18.78	--	146.96	72,000	--	19,000	32,000	3,000	15,000	--	--	--	--	--	--	--	--	--	--	--
MW-8	10/5/1992		165.74	20.48																			



Table 2  
 Historical Groundwater Monitoring and Analytical Data  
 CA-11132  
 3201 35th Avenue, Oakland, CA 94619

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	Naphthalene (µg/L)	Notes	
MW-8	7/12/1993		165.74	18.30	--	147.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	10/21/1993		165.74	21.91	--	142.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	1/21/1994		165.74	19.12	--	146.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	4/20/1994		165.74	19.28	--	146.46	26,000	--	1,700	4,100	960	4,000	632	--	--	--	--	--	--	--	--	1.10	--	
MW-8	12/23/1994		165.74	13.81	--	151.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	6/8/1995		165.74	17.82	--	147.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	8/22/1995		165.74	19.41	--	146.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	10/27/1995		165.74	20.47	--	145.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	1/25/1996		165.74	13.35	--	152.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	4/19/1996		165.74	14.40	--	151.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	7/23/1996		165.74	18.35	--	147.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	11/11/1996		165.74	19.41	--	146.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	1/21/1997		165.74	12.29	--	153.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	8/21/1997		165.74	19.61	--	146.13	240,000	--	1,100	9,300	4,100	31,100	<1,000	--	--	--	--	--	--	--	--	--	5.20	
MW-8	11/5/1997		165.74	19.45	--	146.29	57,000	--	790	2,700	2,300	15,200	<1,000	--	--	--	--	--	--	--	--	--	5.00	
MW-8	2/3/1998		165.74	9.33	--	156.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	2/4/1998		--	--	--	--	94,000	--	570	1,500	2,100	15,200	<2,500	--	--	--	--	--	--	--	--	--	5.50	
MW-8	12/30/1998		165.74	15.48	--	150.26	120,000	--	460	2,300	2,200	15,000	150	--	--	--	--	--	--	--	--	--	--	
MW-8	2/2/1999		165.74	18.29	--	147.45	82,000	--	450	2,200	3,700	26,000	<500	--	--	--	--	--	--	--	--	--	--	
MW-8	5/10/1999		165.74	15.62	--	150.12	28,000	--	740	1,800	1,100	5,800	<25	--	--	--	--	--	--	--	--	--	--	
MW-8	8/24/1999		165.74	18.41	--	147.33	75,000	--	530	1,400	3,300	21,000	150	--	--	--	--	--	--	--	--	--	--	
MW-8	11/3/1999		165.74	18.71	--	147.03	70,000	--	600	1,300	3,600	20,500	750	--	--	--	--	--	--	--	--	--	--	
MW-8	3/1/2000		165.74	19.37	--	146.37	27,000	--	1,600	1,200	2,600	6,600	120	--	--	--	--	--	--	--	--	--	--	
MW-8	11/20/2000		165.74	17.42	--	148.32	1,300,000	--	1,400	1,700	20,000	16,000	5,700	--	--	--	--	--	--	--	--	--	--	
MW-8	9/5/2001		165.74	21.45	0.04	144.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	11/30/2001		165.74	18.31	--	147.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	2/20/2002		165.74	14.02	--	151.72	20,000	--	163	114	403	3,810	80.4	--	--	--	--	--	--	--	--	--	--	
MW-8	6/20/2002		165.74	17.56	--	148.18	28,000	--	466	141	962	5,850	2,520	--	--	--	--	--	--	--	--	--	--	
MW-8	9/11/2002		165.74	19.45	--	146.29	190,000	--	1,500	670	4,500	23,000	1,200	--	--	--	--	--	--	--	--	--	--	
MW-8	11/12/2002		165.74	19.15	--	146.59	420	--	6.4	2.9	16	110	31	--	--	--	--	--	--	--	--	--	--	
MW-8	1/29/2003		165.74	15.02	--	150.72	200,000	--	810	<500	2,000	11,000	<500	<2,000	<50	<50	<50	<50	<50	<50	<50	<4,000	--	
MW-8	5/22/2003		165.74	15.07	--	150.67	--	--	--	--	--	--	--	<1,000	<50	<25	<25	<25	<25	<25	<25	<5,000	--	
MW-8	6/24/2003		165.74	17.95	--	147.79	43,000	--	860	300	2,100	9,600	46	--	--	--	--	--	--	--	--	--	--	
MW-8	7/28/2003		165.74	19.45	--	146.29	62,000	--	690	230	1,800	15,000	2,100	<4,000	<100	<100	<100	<100	<100	<100	<20,000	--	--	
MW-8	8/12/2003		165.74	19.40	0.01	146.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	9/12/2003		165.74	19.34	--	146.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	11/18/2003		165.74	18.80	0.01	146.94	8,800	--	500	37	530	930	1,700	<400	<10	<10	<10	<10	<10	<10	<10	<2,000	--	
MW-8	2/23/2004		165.74	12.82	0.01	152.92	32,000	--	840	360	1,000	7,100	110	<2,000	<50	<50	<50	<50	<50	<50	<10,000	--	--	
MW-8	5/4/2004		165.74	18.87	0.01	146.87	42,000	--	570	230	1,700	8,400	2,000	<1,000	<25	<25	<25	<25	<25	33	<5,000	--	--	
MW-8	8/4/2004		165.74	19.37	0.05	146.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	9/22/2004		165.74	19.60	--	146.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	11/10/2004		165.74	16.58	--	149.16	11,000	--	790	61	1,000	830	74	<1,000	<25	<25	<25	<25	<25	<25	<5,000	--	--	
MW-8	2/15/2005		165.74	12.85	--	152.89	38,000	--	1,300	390	2,300	7,900	<50	<2,000	<50	<50	<50	<50	<50	<50	<10,000	--	--	
MW-8	5/16/2005		165.74	12.22	--	153.52	31,000	--	1,000	360	2,500	7,500	<50	<2,000	<50	<50	<50	<50	<50	<50	<10,000	--	--	
MW-8	8/17/2005		165.74	17.80	--	147.94	60,000	--	540	240	2,500	8,600	<50	<2,000	<50	<50	<50	<50	<50	<50	<10,000	--	--	
MW-8	11/18/2005		165.74	21.02	--	144.72	33,000	--	340	120	1,400	4,900	140	<2,000	<50	<50	<50	<50	<50	<50	<10,000	--	--	
MW-8	2/7/2006		165.74	10.73	--	155.01	5,700	--	94	27	260	820	7.5	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<3,000	--	--	
MW-8	5/19/2006		165.74	13.89	--	151.85	40,000	--	1,100	320	2,900	6,000	<25	<1,000	<25	<25	<25	<25	<25	<25	<5,000	--	--	
MW-8	8/23/2006		165.74	18.85	--	146.89	21,000	--	520	150	1,800	6,300	82	<1,000	<25	<25	<25	<25	<25	<25	<15,000	--	--	
MW-8	11/15/2006		165.74	18.75	--	146.99	3,300	--	81	<25	130	430	110	<1,000	<25	<25	<25	<25	<25	<25	<15,000	0.81	--	
MW-8	2/14/2007		165.74	13.45	(Sheen)	152.29	9,300	--	320	<25	360	710	82	<1,000	<25	<25	<25	<25	<25	<25	<15,000	1.89	--	
MW-8	5/22/2007		165.74	15.92	(Sheen)	149.82	17,000	--	370	51	760	1,600	11	<400	<10	<10	<10	<10	<10	<10	<6,000	1.05	--	
MW-8	8/15/2007		165.74	19.11	(Sheen)	146.63	17,000	--	170	44	1,000	2,700	28	<400	<10	<10	<10	<10	<10	<10	<6,000	3.93	--	
MW-8	11/8/2007		165.74	18.46	(Sheen)	147.28	24,000	--	150	43	1,100	3,200	27	<1,000	<25	<25	<25	<25	<25	<25	<15,000	1.29	--	
MW-8	8/20/2008		165.74	19.66	0.01	146.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	2/25/2009		165.74	11.50	(Sheen)	154.24	3,400	--	160	11	88	65	35	<200	<10	<10	<10	<10	<10	<10	<6,000	2.18	--	
MW-8	4/8/2009		165.74	14.55	--	151.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	5/28/2009		165.74	16.12	(Sheen)	149.62	8,300	--	410	54	660	800	<2.5	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1,500	0.06	--	
MW-8	6/16/2009		165.74	17.63	--	148.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	3/4/2010		165.74	10.33	--	155.41	11,000	--	520	110	830	1,600	<5.0	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	0.82	--	(P)
MW-8	9/2/2010		165.74	18.52	--	147.22	6,900	--	180	24	280	480	<5.0	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	--	--	(P)
MW-8	3/15/2011		165.74	11.03	--	154.71	14,000	--	470	150	1,400	3,000	<2.5	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1,200	--	--	(P)
MW-8	8/17/2011		165.74	17.14	--	148.60	4,100	--	180	24	280	340	<5.0	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	--	--	(P)
MW-8																								

Table 2  
 Historical Groundwater Monitoring and Analytical Data  
 CA-11132  
 3201 35th Avenue, Oakland, CA 94619

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	Naphthalene (µg/L)	Notes
MW-9	7/3/1992		166.20	18.89	--	147.31	5,700	--	17,000	840	230	800	--	--	--	--	--	--	--	--	--	--	--
MW-9	10/5/1992		166.20	20.52	--	145.68	1,400	--	440	17	14	100	--	--	--	--	--	--	--	--	--	--	--
MW-9	1/13/1993	Dup	166.20	12.92	--	153.28	11,000	--	1,200	1,600	330	1,300	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-9	4/23/1993		166.20	14.08	--	152.12	24,000	--	2,800	4,500	730	3,400	350	2,600	<5.0	<5.0	<5.0	<5.0	12	<1,000	--	--	(Dup)
MW-9	7/12/1993	Dup	166.20	18.44	--	147.76	10,000	--	1,200	900	310	1,200	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-9	10/21/1993		166.20	21.81	--	143.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	1/21/1994		166.20	19.28	--	146.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	4/20/1994	Dup	166.20	19.72	--	146.48	45,000	--	2,700	6,800	1,200	8,200	740	160	<2.5	<2.5	<2.5	<2.5	<2.5	<500	--	--	(Dup)
MW-9	8/1/1994		166.20	20.18	--	146.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	12/23/1994		166.20	14.22	--	151.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	1/26/1995		166.20	11.85	--	154.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	6/8/1995		166.20	18.33	--	147.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	8/22/1995		166.20	19.95	--	146.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	10/27/1995		166.20	20.88	--	145.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	1/25/1996		166.20	13.84	--	152.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	7/23/1996		166.20	18.84	--	147.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	11/11/1996		166.20	19.91	--	146.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	1/21/1997		166.20	12.93	--	153.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	4/29/1997		166.20	18.03	0.10	148.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	4/30/1997		--	--	--	--	78,000	--	1,900	3,600	3,100	20,600	<5,000	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<100	5.50	--	--
MW-9	8/21/1997		166.20	19.56	--	146.64	110,000	--	2,100	3,400	2,300	18,800	<500	--	--	--	--	--	--	--	5.10	--	--
MW-9	11/5/1997		166.20	20.59	0.01	145.60	59,000	--	1,400	1,700	2,200	17,000	<500	--	--	--	--	--	--	--	4.50	--	--
MW-9	2/3/1998		166.20	10.56	--	155.64	55,000	--	490	1,200	1,400	10,200	<1,000	--	--	--	--	--	--	--	4.90	--	--
MW-9	5/28/1998	Dup	166.20	14.21	--	151.99	53,000	--	290	830	1,400	10,500	<500	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	--	--	(Dup)
MW-9	12/30/1998		166.20	15.61	--	150.59	83,000	--	860	1,300	2,400	21,000	180	--	--	--	--	--	--	--	--	--	--
MW-9	2/2/1999		166.20	12.33	--	153.87	75,000	--	530	960	1,900	17,000	<50	--	--	--	--	--	--	--	--	--	--
MW-9	5/10/1999		166.20	15.67	--	150.53	22,000	--	600	1,500	1,100	4,400	72	--	--	--	--	--	--	--	--	--	--
MW-9	8/24/1999		166.20	19.10	--	147.10	85,000	--	850	1,300	1,700	20,000	<250	--	--	--	--	--	--	--	--	--	--
MW-9	11/3/1999		166.20	19.58	--	146.62	72,000	--	700	780	1,900	19,000	<5.0	--	--	--	--	--	--	--	--	--	--
MW-9	3/1/2000		166.20	13.19	--	153.01	34,000	--	78	490	1,100	8,200	63	--	--	--	--	--	--	--	--	--	--
MW-9	4/21/2000		166.20	14.29	--	151.91	55,000	--	260	920	1,500	16,000	<5.0	--	--	--	--	--	--	--	--	--	--
MW-9	7/31/2000		166.20	15.01	--	151.19	1,200,000	--	1,500	6,300	15,000	120,000	1,600	--	--	--	--	--	--	--	--	--	--
MW-9	11/20/2000		166.20	18.23	--	147.97	320,000	--	3,500	19,000	5,000	40,000	3,900	--	--	--	--	--	--	--	--	--	--
MW-9	2/18/2001		166.20	13.14	--	153.06	32,000	--	290	417	1,180	10,400	121	--	--	--	--	--	--	--	--	--	--
MW-9	6/7/2001		166.20	17.41	--	148.79	96,000	--	421	704	2,330	17,300	223	--	--	--	--	--	--	--	--	--	--
MW-9	9/5/2001		166.20	20.56	--	145.64	39,000	--	445	323	1,240	8,940	310	--	--	--	--	--	--	--	--	--	--
MW-9	11/30/2001		166.20	17.42	--	148.78	60,000	--	310	586	1,890	14,200	285	--	--	--	--	--	--	--	--	--	--
MW-9	2/20/2002		166.20	13.87	--	152.33	14,000	--	64	122	897	2,650	293	--	--	--	--	--	--	--	--	--	--
MW-9	6/20/2002		166.20	18.22	--	147.98	29,000	--	307	168	1,100	5,670	208	--	--	--	--	--	--	--	--	--	--
MW-9	9/11/2002		166.20	20.27	--	145.93	230,000	--	1,400	680	3,600	23,000	<2,500	--	--	--	--	--	--	--	--	--	--
MW-9	11/12/2002		166.20	19.40	--	146.80	840	--	5.8	3.6	28	160	21	--	--	--	--	--	--	--	--	--	--
MW-9	1/29/2003		166.20	14.30	0.10	151.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	5/22/2003		166.20	15.16	--	151.04	23,000	--	420	<50	1,000	2,900	<50	38	<0.50	<50	<50	<0.50	<50	<100	--	--	--
MW-9	7/28/2003		166.20	19.55	0.01	146.65	1,500,000	--	<500	<500	9,800	79,000	<500	<20,000	<500	<500	<500	<500	<500	<100,000	--	--	--
MW-9	8/12/2003		166.20	19.60	0.01	146.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	9/12/2003		166.20	19.60	0.01	146.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	11/18/2003		166.20	18.98	0.01	147.22	19,000	--	250	18	690	2,400	45	<400	--	<10	<10	<10	<10	<2,000	--	--	--
MW-9	2/23/2004		166.20	13.91	0.01	152.29	91,000	--	<250	440	2,200	13,000	<250	<10,000	<250	<250	<250	<250	<250	<50,000	--	--	--
MW-9	5/4/2004		166.20	18.11	0.01	148.09	39,000	--	230	44	1,100	4,200	<25	<1,000	<25	<25	<25	<25	<25	<5,000	--	--	--
MW-9	8/4/2004		166.20	18.90	0.03	147.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	9/22/2004		166.20	19.69	--	146.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	11/10/2004		166.20	16.95	--	149.25	31,000	--	300	<50	1,100	3,800	<50	<2,000	<50	<50	<50	<50	<50	<10,000	--	--	--
MW-9	2/15/2005		166.20	12.95	--	153.25	19,000	--	200	<50	720	2,000	<50	<2,000	<50	<50	<50	<50	<50	<10,000	--	--	--
MW-9	5/16/2005		166.20	12.53	--	153.67	17,000	--	99	15	770	2,500	<10	4.4	<10	<10	<10	<10	<10	<2,000	--	--	--
MW-9	8/17/2005		166.20	18.03	--	148.17	28,000	--	160	26	1,000	2,700	<12	<500	<12	<12	<12	<12	<12	<2,500	--	--	--
MW-9	11/18/2005		166.20	19.04	--	147.16	12,000	--	98	<5.0	410	510	19	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	--	--	--
MW-9	2/7/2006		166.20	10.95	(Sheen)	155.25	18,000	--	110	8.7	770	1,500	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	5.4	<3,000	--	--	--
MW-9	8/23/2006		166.20	18.91	--	147.29	28,000	--	84	<50	1,600	6,200	<50	<2,000	<50	<50	<50	<50	<50	<30,000	--	--	--
MW-9	11/15/2006		166.20	18.60	--	147.60	8,200	--	44	<25	1,900	370	26	<1,000	<25	<25	<25	<25	<25	<15,000	0.92	--	--
MW-9	2/14/2007		166.20	13.30	--	152.90	20,000	--	64	<25	720	2,000	<25	<1,000	<25	<25	<25	<25	<25	<15,000	0.87	--	--
MW-9	5/22/2007		166.20	16.14	(Sheen)	150.06	16,000	--	80	<25	460	1,200	<25	<1,000	<25	<25	<25	<25	<25	<15,000	0.81	--	--
MW-9	8/15/2007		166.20	19.31	(Sheen)	146.89	5,900	--	27	<2.5	59	170	27	<100	<2.5	<2.5	<2.5	<2.5	<2.5	<1,500	2.57	--	--
MW-9	11/8/2007		166.20	18.70	--	147.50	6,100	--	29	<5.0	98	250	52	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<3,000	1.24	--	--
MW-9	2/20/2008		166.20	12.79	0.03	153.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	5/7/2008		166.20	17.68	0.03	148.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	8/20/2008		166.20	19.75																			





Table 2  
 Historical Groundwater Monitoring and Analytical Data  
 CA-11132  
 3201 35th Avenue, Oakland, CA 94619

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	Naphthalene (µg/L)	Notes		
RW-1	2/23/2004		168.01	14.35	0.01	153.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	5/4/2004		168.01	19.58	0.02	148.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	8/4/2004		168.01	22.05	0.05	146.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	9/22/2004		168.01	21.28	0.06	146.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	11/10/2004		168.01	18.56	0.02	149.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	1/13/2005		168.01	12.51	0.01	155.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	2/15/2005		168.01	15.24	0.03	152.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	3/7/2005		168.01	11.90	0.02	156.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	5/16/2005		168.01	14.39	0.02	153.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	8/17/2005		168.01	19.91	0.03	148.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	11/18/2005		168.01	20.36	0.07	147.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	2/7/2006		168.01	12.87	0.01	155.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	5/19/2006		168.01	15.87	0.04	152.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	8/23/2006		168.01	20.50	0.07	147.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	11/15/2006		168.01	20.52	0.07	147.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	2/14/2007		168.01	15.44	0.04	152.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	5/22/2007		168.01	17.78	--	150.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	8/15/2007		168.01	20.80	0.02	147.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	11/8/2007		168.01	20.32	0.01	147.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	2/20/2008		168.01	14.55	0.02	153.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	8/20/2008		168.01	21.34	0.02	146.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	11/17/2008		168.01	20.41	--	147.60	13,000	--	120	<20	590	320	120	<400	<20	<20	<20	<20	<20	<20	<12,000	--	--		
RW-1	2/25/2009		168.01	13.40	0.02	154.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	4/8/2009		168.01	16.45	--	151.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	5/28/2009		168.01	17.88	0.01	150.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	6/16/2009		168.01	19.30	0.01	148.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	8/6/2009		168.01	20.72	0.01	147.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	3/4/2010		168.01	12.33	--	155.68	8,000	--	20	<2.5	230	140	110	45	<2.5	<2.5	<2.5	<2.5	<2.5	5.7	<500	1.24	--	(P)	
RW-1	9/2/2010		168.01	20.14	--	147.87	4,700	--	18	<2.5	78	46	<2.5	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<500	--	--	(NP)
RW-1	3/15/2011		168.01	13.03	--	154.98	7,000	--	3.7	<2.5	44	31	6.7	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1,200	--	--	(P)
RW-1	8/17/2011		168.01	18.60	--	149.41	2,800	--	7.5	<2.5	12	10	8.8	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1,300	--	--	(P)
RW-1	2/6/2012		168.01	16.81	--	151.20	1,300	--	3.1	<2.5	5.2	5.1	2.9	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1,300	--	--	(P)
RW-1	8/21/2012		168.01	20.06	--	147.95	1,200	--	10	0.58	10	5.2	15	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	1	<250	--	--	(P)	
RW-1	2/4/2013		168.01	16.36	--	151.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	8/1/2013		168.01	20.50	0.01	147.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-1	2/27/2014		168.01	17.66	--	150.35	800	--	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--		
RW-1	8/27/2014		168.01	20.35	--	147.66	2,800	--	5.9	1.7	12	5.2	6.7	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<500	0.22	6.8	--	(HC odor, t)	
RW-1	3/27/2015		168.01	17.57	--	150.44	970	--	0.98	<0.5	0.91	1.5	0.74	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<500	2.35	--	--	(HC odor)	

**Table 2**  
**Historical Groundwater Monitoring and Analytical Data**  
**CA-11132**  
**3201 35th Avenue, Oakland, CA 94619**

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	Naphthalene (µg/L)	Notes
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**Notes:**

TOC = Top of casing (surveyed)  
DTW = Depth to water  
LNAPL = Light non-aqueous phase liquid (LPH)  
GW Elev = Groundwater elevation  
ft btoc = Feet below top of casing  
ft msl = Feet relative to mean sea level  
GRO = Gasoline Range Organics  
DRO = Diesel Range Organics  
B = Benzene  
T = Toluene  
E = Ethylbenzene  
X = Total xylenes  
MTBE = Methyl tert-butyl ether  
TBA = tert-butyl alcohol  
1,2-DCA = 1,2-dichloroethane  
DIPE = Di-isopropyl ether  
ETBE = Ethyl tert-butyl ether  
EDB = 1,2-dibromoethane  
TAME = tert-Amyl methyl ether  
DO = Dissolved oxygen  
DUP = Duplicate sample  
LPH = Liquid Petroleum Hydrocarbons  
-- = Not analyzed/applicable/measured/available  
< = Not detected at or above specified laboratory reporting limit  
mg/L = Milligrams per liter  
µg/L = Micrograms per liter  
NP = Well not purged prior to sampling  
P = Well purged prior to sampling  
HC odor = Hydrocarbon odor detected during sampling  
b = Groundwater elevation adjusted assuming a specific gravity of 0.75 for free product  
j = Well not sampled due to presence of LPH and nature of the product  
t = Sheen in well  
y = Sample dilution was done with headspace in the sample vial; the samples were originally analyzed from VOAs without headspace  
\* = LCS or LCS D exceeds the control limits  
Beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list; TPHg was changed to GRO; the resulting data may be impacted by the potential of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported.  
Beginning in the Second Quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12.  
Values for DO were obtained through field measurements.  
GRO analysis was completed by EPA method 8260B (C4-C12) for samples collected from the time period April 2006 through February 4, 2008; the analysis for GRO was changed to EPA method 8015B (C6-C12) for samples collected from the time period February 5, 2008 through August 6, 2009 and EPA method 8260B (C6-C12) from March 4, 2010 to the present.  
The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants; Broadbent & Associates, Inc. has not verified the accuracy of this information.

**Table 3**  
**Historical Groundwater Flow Direction and Gradient**  
**CA-11132**  
**3201 35th Ave, Oakland, CA 94619**

<b>Date Measured</b>	<b>Approximate Gradient Direction</b>	<b>Approximate Gradient Magnitude (ft/ft)</b>
5/19/2006	South	0.003 to 0.005
8/23/2006	Southwest	0.01
11/15/2006	South	0.004
2/14/2007	Southeast	0.01
5/22/2007	South	0.005
8/15/2007	South-Southwest	0.008
11/8/2007	Southwest	0.006
2/20/2008	Southeast	0.008
5/7/2008	South-Southwest	0.003
8/20/2008	South-Southwest	0.007
11/17/2008	South-Southwest	0.005
2/25/2009	Southeast	0.01
5/28/2009	South	0.004
8/6/2009	South-Southwest	0.005
3/4/2010	East-Southeast	0.02
9/2/2010	Southwest	0.01
3/15/2011	Southeast	0.01
8/17/2011	Southwest	0.003
2/6/2012	Southeast	0.005
8/21/2012	Southwest	0.007
2/4/2013	Southwest	0.01
8/1/2013	Southwest	0.007
2/27/2014	South-Southwest	0.007
8/27/2014	West-Northwest	0.01
3/27/2015	West	0.004

**Notes:**

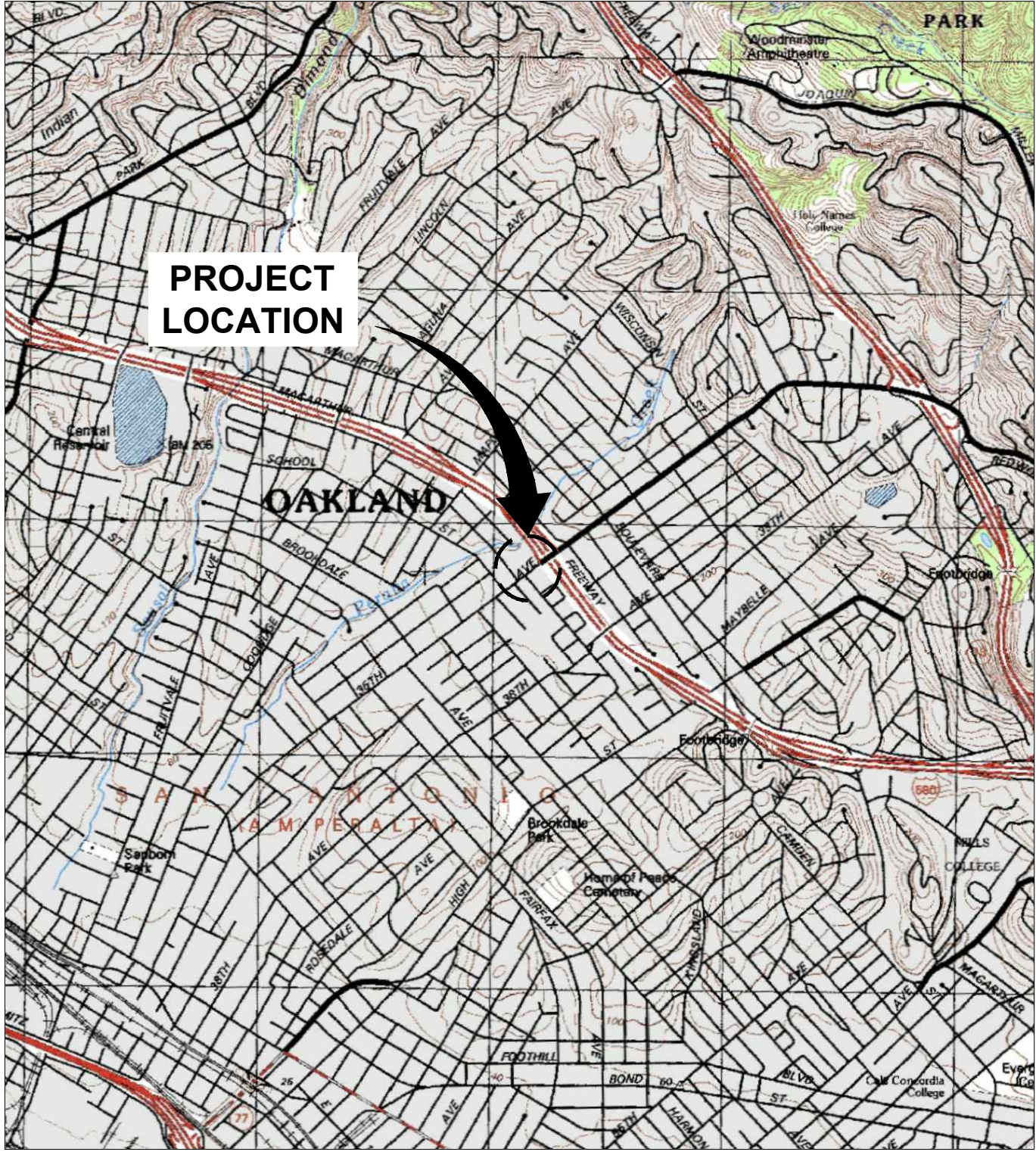
The data within this table collected prior to April 2006 were provided to Broadbent & Associated, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

ARCADIS

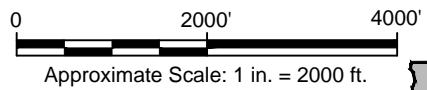
**Figures**



CITY: EMERYVILLE, CA DIV: GROUP: ENV DB: J. HARRIS LD: ... PIC: ... PM: H. PHILLIPS TM: J. PETERSON L'YR: (OPTION) = OFF = REF.  
 \\\arcadis-usa\office\data\Emeryville-CA\ENVCAD\Emeryville\ACT\GP09BPNA\112\K0000\CPT\_UVOST\GP09BPNA\12-N01.dwg LAYOUT: 1 SAVED: 2/13/2012 7:50 AM ACADVER: 18.1 S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 2/13/2012 7:51 AM BY: HARRIS, JESSICA



REFERENCE: BASE MAP USGS 7.5 MIN. TOPO. QUAD., OAKLAND EAST, CALIFORNIA, 1997.



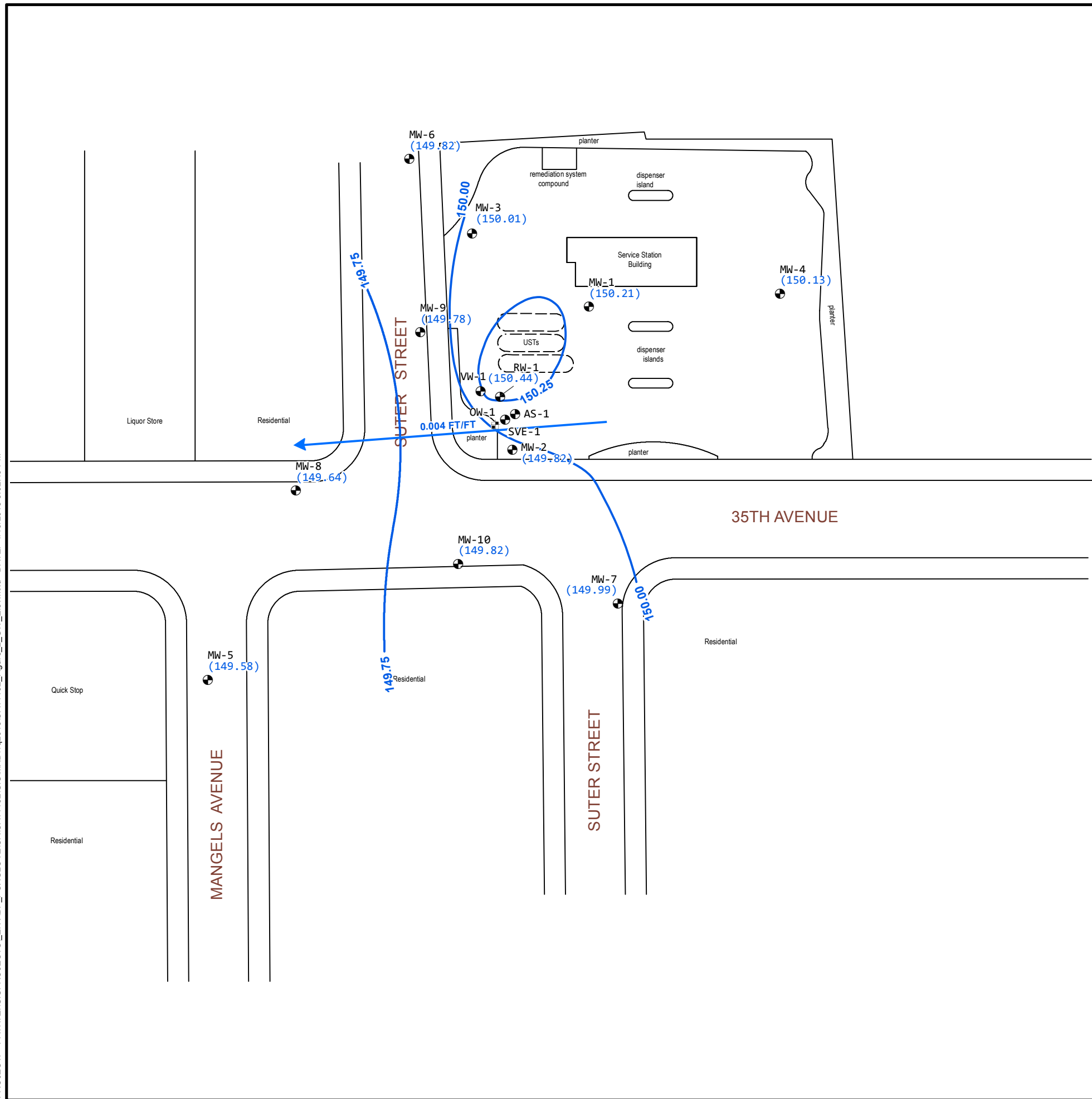
FORMER BP STATION No. 11132  
 3201 35TH AVENUE  
 OAKLAND, CALIFORNIA

**SITE LOCATION MAP**



FIGURE  
**1**

CITY: SAN FRANCISCO DIV/GROUP: ENV/IM DB: msmiller LD: PIC: PM: TM: PROJECT: PATH: Z:\GIS\PROJECTS\ENWBP\_FOXGLOVE\CA\CA11132\GIS\MXD\1q2015\CA11132\_Figure\_2\_GW\_Elev.mxd DATE: 4/13/2015 5:02:43 PM

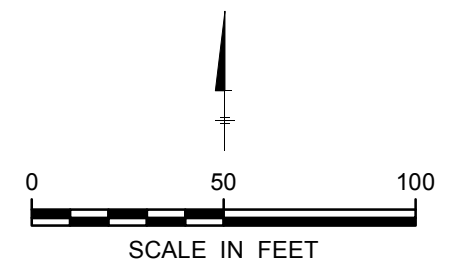


**LEGEND:**

- EXISTING MONITORING WELL
- GROUNDWATER RECOVERY WELL
- GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- 149.75 GROUNDWATER ELEVATION CONTOUR LINE (DASHED WHERE INFERRED)
- 0.004 FT/FT GROUNDWATER FLOW DIRECTION (FEET PER FOOT)

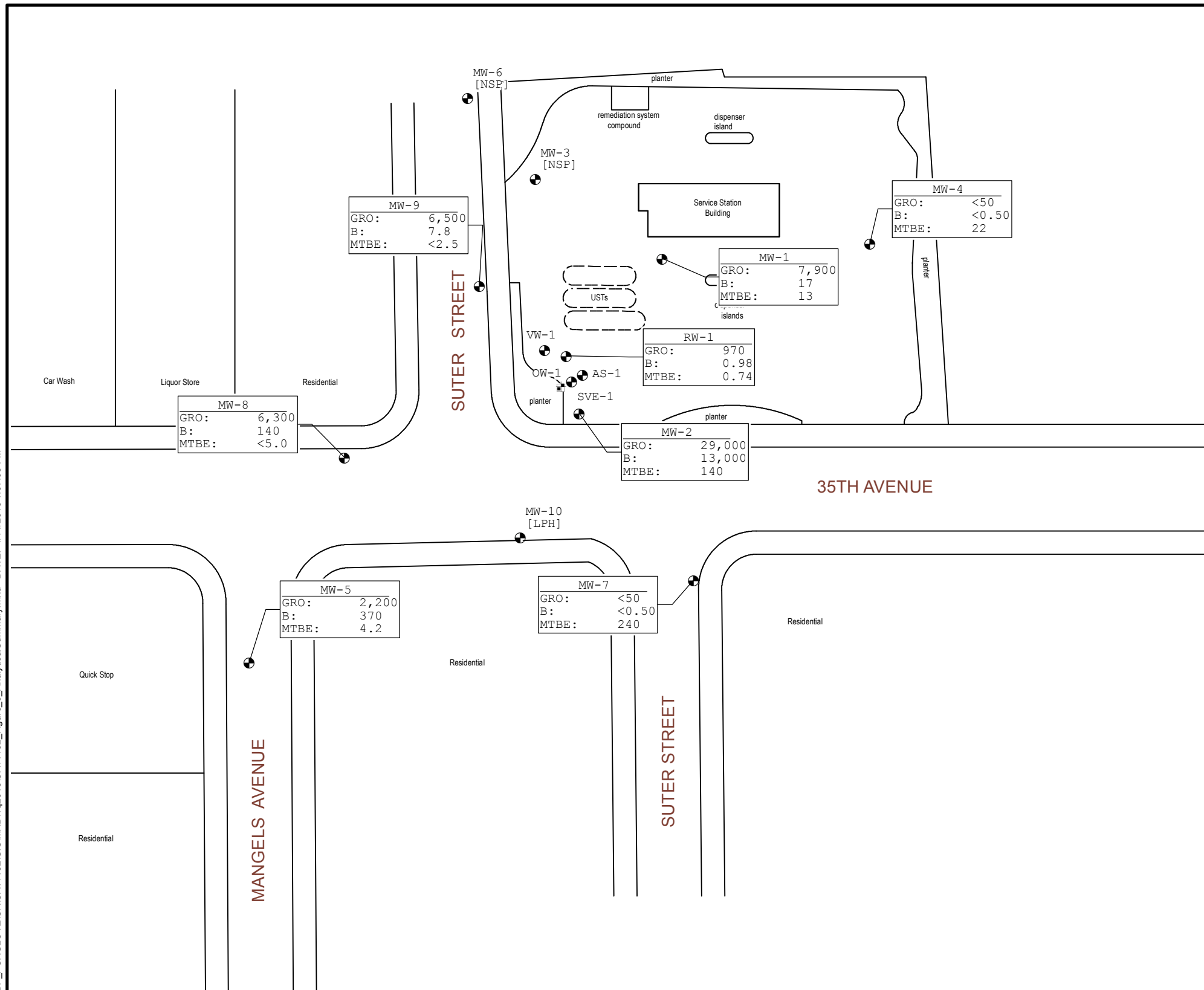
**NOTES:**

1. SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FIGURES FACILITY LOCATIONS NOT VERIFIED.
2. WELL MW-7 AND SUTER STREET LOCATIONS HAVE BEEN CORRECTED FROM PREVIOUS MAPS.



FORMER BP SERVICE STATION #11132 3201 35TH AVENUE OAKLAND, CALIFORNIA	
<b>GROUNDWATER ELEVATION CONTOUR MAP MARCH 27, 2015</b>	
	FIGURE <b>2</b>

CITY: SAN FRANCISCO DIV/GROUP: ENV/IM DB: msmiller LD: PIC: PM: TM: PROJECT: PATH: Z:\GIS\PROJECTS\ENWBP\_FOXGLOVE\CA\CA11132\GIS\MXD\1q2015\CA11132\_Figure\_3\_AnalyticalSummary.mxd DATE: 4/14/2015 1:07:03 PM



**LEGEND:**

- EXISTING MONITORING WELL
- ⊕ GROUNDWATER RECOVERY WELL

MW-4		SAMPLE LOCATION ID
GRO:	<50	CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
B:	<0.50	
MTBE:	22	
		ANALYTE

- GRO GASOLINE RANGE ORGANICS
- B BENZENE
- MTBE METHYL TERT-BUTYL ETHER

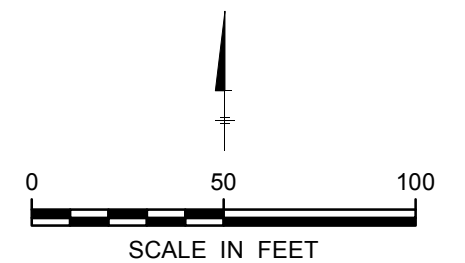
< NOT DETECTED AT OR ABOVE STATED LABORATORY REPORTING LIMIT


LPH LIQUID PHASE HYDROCARBONS

NSP WELL NOT SAMPLED IN ACCORDANCE WITH GROUNDWATER SAMPLING SCHEDULE

**NOTES:**

1. SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FIGURES FACILITY LOCATIONS NOT VERIFIED.
2. WELL MW-7 AND SUTER STREET LOCATIONS HAVE BEEN CORRECTED FROM PREVIOUS MAPS.



FORMER BP SERVICE STATION #11132 3201 35TH AVENUE OAKLAND, CALIFORNIA	
<b>GROUNDWATER ANALYTICAL SUMMARY MAP MARCH 27, 2015</b>	
	FIGURE <b>3</b>

**Attachment A**  
Field Methods

## **QUALITY ASSURANCE/QUALITY CONTROL FIELD METHODS**

Field methods discussed herein were implemented to provide for accuracy and reliability of field activities, data collection, sample collection, and handling. Discussion of these methods is provided below.

### **1.0 Equipment Calibration**

Equipment calibration was performed per equipment manufacturer specifications before use.

### **2.0 Depth to Groundwater and Light Non-Aqueous Phase Liquid Measurement**

Depth to groundwater was measured in wells identified for gauging in the scope of work using a decontaminated water level indicator. The depth to water measurement was taken from a cut notch or permanent mark at the top of the well casing to which the well head elevation was originally surveyed.

Once depth to water was measured, an oil/water interface meter or a new disposable bailer was utilized to evaluate the presence and, if present, to measure the “apparent” thickness of light non-aqueous phase liquid (LNAPL) in the well. If LNAPL was present in the well, groundwater purging and sampling were not performed, unless sampling procedures in the scope of work specified collection of samples in the presence of LNAPL. Otherwise, time allowing, LNAPL was bailed from the well using either a new disposable bailer, or the disposal bailer previously used for initial LNAPL assessment. Bailing of LNAPL continued until the thickness of LNAPL (or volume) stabilized in each bailer pulled from the well, or LNAPL was no longer present. After LNAPL thickness either stabilized or was eliminated, periodic depth to water and depth to LNAPL measurements were collected as product came back into the well to evaluate product recovery rate and to aid in further assessment of LNAPL in the subsurface. LNAPL thickness measurements were recorded as “apparent.” If a bailer was used for LNAPL thickness measurement, the field sampler noted the bailer entry diameter and chamber diameter to enable correction of thickness measurements. Recovered LNAPL was stored on-site in a labeled steel drum(s) or other appropriate container(s) prior to disposal.

### **3.0 Well Purging and Groundwater Sample Collection**

Well purging and groundwater sampling were performed in wells specified in the scope of work after measuring depth to groundwater and evaluating the presence of LNAPL. Purging and sampling were performed using one of the methods detailed below. The method used was noted in the field records. Purge water was stored on-site in labeled steel drum(s) or other appropriate container(s) prior to disposal or on-site treatment (in cases where treatment using an on-site system is authorized).

#### **3.1 Purging a Predetermined Well Volume**

Purging a predetermined well volume is performed per ASTM International (ASTM) D4448-01. This purging method has the objective of removing a predetermined volume of stagnant water from the well prior to sampling. The volume of stagnant water

is defined as either the volume of water contained within the well casing, or the volume within the well casing and sand/gravel in the annulus if natural flow through these is deemed insufficient to keep them flushed out.

This purging method involves removal of a minimum of three stagnant water volumes from the well using a decontaminated pump with new disposable plastic discharge or suction tubing, dedicated well tubing, or using a new disposable or decontaminated reusable bailer. If a new disposable bailer was used for assessment of LNAPL, that bailer may be used for purging. The withdrawal rate used is one that minimizes drawdown while satisfying time constraints.

To evaluate when purging is complete, one or more groundwater stabilization parameters are monitored and recorded during purging activities until stabilization is achieved. Most commonly, stabilization parameters include temperature, conductivity, and pH, but field procedures detailed in the scope of work may also include monitoring of dissolved oxygen concentrations, oxidation reduction potential, and/or turbidity<sup>1</sup>. Parameters are considered stable when two (2) consecutive readings recorded three (3) minutes apart fall within ranges provided below in Table 1. In the event that the parameters have not stabilized and five (5) well casing volumes have been removed, purging activities will cease and be considered complete. Once the well is purged, a groundwater sample(s) is collected from the well using a new disposable bailer. If a new disposable bailer was used for purging, that bailer may be used to collect the sample(s). A sample is not collected if the well is inadvertently purged dry.

Table 1. Criteria for Defining Stabilization of Water-Quality Indicator Parameters

Parameter	Stabilization Criterion
Temperature	± 0.2°C (± 0.36°F)
pH	± 0.1 standard units
Conductivity	± 3%
Dissolved oxygen	± 10%
Oxidation reduction potential	± 10 mV
Turbidity <sup>1</sup>	± 10% or 1.0 NTU (whichever is greater)

### 3.2 Low-Flow Purging and Sampling

“Low-Flow”, “Minimal Drawdown”, or “Low-Stress” purging is performed per ASTM D6771-02. It is a method of groundwater removal from within a well’s screened interval that is intended to minimize drawdown and mixing of the water column in the well casing. This is accomplished by pumping the well using a decontaminated pump with new disposable plastic discharge or suction tubing or dedicated well tubing at a low flow rate while evaluating the groundwater elevation during pumping.

<sup>1</sup> As stated in ASTM D6771-02, turbidity is not a chemical parameter and not indicative of when formation-quality water is being purged; however, turbidity may be helpful in evaluating stress on the formation during purging. Turbidity measurements are taken at the same time that stabilization parameter measurements are made, or, at a minimum, once when purging is initiated and again just prior to sample collection, after stabilization parameters have stabilized. To avoid artifacts in sample analysis, turbidity should be as low as possible when samples are collected. If turbidity values are persistently high, the withdrawal rate is lowered until turbidity decreases. If high turbidity persists even after lowering the withdrawal rate, the purging is stopped for a period of time until turbidity settles, and the purging process is then restarted. If this fails to solve the problem, the purging/sampling process for the well is ceased, and well maintenance or redevelopment is considered.

The low flow pumping rate is well specific and is generally established at a volume that is less than or equal to the natural recovery rate of the well. A pump with adjustable flow rate control is positioned with the intake at or near the mid-point of the submerged well screen. The pumping rate used during low-flow purging is low enough to minimize mobilization of particulate matter and drawdown (stress) of the water column. Low-flow purging rates will vary based on the individual well characteristics; however, the purge rate should not exceed 1.0 Liter per minute (L/min) or 0.25 gallon per minute (gal/min). Low-flow purging should begin at a rate of approximately 0.1 L/min (0.03 gal/min)<sup>2</sup>, or the lowest rate possible, and be adjusted based on an evaluation of drawdown. Water level measurements should be recorded at approximate one (1) to two (2) minute intervals until the low-flow rate has been established, and drawdown is minimized. As a general rule, drawdown should not exceed 25% of the distance between the top of the water column and the pump in-take.

To evaluate when purging is complete, one or more groundwater stabilization parameters are monitored and recorded during purging activities until stabilization is achieved. Most commonly, stabilization parameters include temperature, conductivity, and pH, but field procedures detailed in the scope of work may also include monitoring of dissolved oxygen concentrations, oxidation reduction potential, and/or turbidity<sup>1</sup>. The frequency between measurements will be at an interval of one (1) to three (3) minutes; however, if a flow cell is used, the frequency will be determined based on the time required to evacuate one cell volume. Stabilization is defined as three (3) consecutive readings recorded several minutes apart falling within ranges provided in Table 1. Samples will be collected by filling appropriate containers from the pump discharge tubing at a rate not to exceed the established pumping rate.

### 3.3 Minimal Purge, Discrete Depth, and Passive Sampling

Per ASTM D4448-01, sampling techniques that do not rely on purging, or require only minimal purging, may be used if a particular zone within a screened interval is to be sampled or if a well is not capable of yielding sufficient groundwater for purging. To properly use these sampling techniques, a water sample is collected within the screened interval with little or no mixing of the water column within the casing. These techniques include minimal purge sampling which uses a dedicated sampling pump capable of pumping rates of less than 0.1 L/min (0.03 gal/min)<sup>2</sup>, discrete depth sampling using a bailer that allows groundwater entry at a controlled depth (e.g. differential pressure bailer), or passive (diffusion) sampling. These techniques are based on certain studies referenced in ASTM D4448-01 that indicate that under certain conditions, natural groundwater flow is laminar and horizontal with little or no mixing within the well screen.

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<sup>2</sup> According to ASTM D4448-01, studies have indicated that at flow rates of 0.1 L/min, low-density polyethylene (LDPE) and plasticized polypropylene tubing materials are prone to sorption. Therefore, TFE-fluorocarbon or other appropriate tubing material is used, particularly when tubing lengths of 50 feet or longer are used.

#### 4.0 Decontamination

Reusable groundwater sampling equipment were cleaned using a solution of Alconox or other acceptable detergent, rinsed with tap water, and finally rinsed with distilled water prior to use in each well. Decontamination water was stored on-site in labeled steel drum(s) or other appropriate container(s) prior to disposal.

#### 5.0 Sample Containers, Labeling, and Storage

Samples were collected in laboratory prepared containers with appropriate preservative (if preservative was required). Samples were properly labeled (site name, sample I.D., sampler initials, date, and time of collection) and stored chilled (refrigerator or ice chest with ice) until delivery to a certified laboratory, under chain of custody procedures.

#### 6.0 Chain of Custody Record and Procedure

The field sampler was personally responsible for care and custody of the samples collected until they were properly transferred to another party. To document custody and transfer of samples, a Chain of Custody Record was prepared. The Chain of Custody Record provided identification of the samples corresponding to sample labels and specified analyses to be performed by the laboratory. The original Chain of Custody Record accompanied the shipment, and a copy of the record was stored in the project file. When the samples were transferred, the individuals relinquishing and receiving them signed, dated, and noted the time of transfer on the record.

#### 7.0 Field Records

Daily Report and data forms were completed by staff personnel to provide daily record of significant events, observations, and measurements. Field records were signed, dated, and stored in the project file.



**Attachment B**  
Groundwater Sampling Data  
Package

**Gauging Data**


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Date 03/27/2015  
 Project\_Number 09-88-655  
 Location 3201 35th Avenue, Oakland, CA  
 Sampler Alex Martinez

Well	Date/Time	Well Depth (ft)	Depth To Water (ft)	Depth to LNAPL (ft)	Remarks
MW-1	03/27/2015 08:11	41.49	19.54		Strong hydrocarbon odor.
MW-2	03/27/2015 08:13	31.65	18.32		
MW-3	03/27/2015 07:34	33.13	17.16		
MW-4	03/27/2015 07:31	39.88	20.23		
MW-5	03/27/2015 07:43	61.51	15.56		
MW-6	03/27/2015 07:36	34.55	15.58		
MW-7	03/27/2015 07:46	34.88	18.09		
MW-8	03/27/2015 08:00	38.83	16.10		
MW-9	03/27/2015 07:51	27.83	16.42		
MW-10	03/27/2015 08:04	34.29	17.19	17.18	Sheen present
RW-1	03/27/2015 08:15	38.72	17.57		

**MW-1**

Date	<u>03/27/2015</u>	Well Head Integrity	<u>Okay</u>
Project_Number	<u>09-88-655</u>	Well Head	_____
Location	<u>3201 35th Avenue, Oakland, CA</u>	Comments	_____
Weather Conditions	<u>Sunny</u>	Pump Inlet Depth (ft)	_____
Waste Container	<u>Tank</u>	Well Diameter (in)	<u>2</u>
Waste Location	<u>Off site</u>	Initial DTW (ft)	_____
Sampler	<u>Alex Martinez</u>	Well Depth (ft)	_____

**Field Parameters**

Time	Purge Volume (L)	DTW (ft)	DO (mg/L)	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	Turbidity (NTU)	Remarks
09:28	1.0	-	3.23	18.71	6.78	574	-118	8.6	Sheen present but no LNAPL. Hydrasleeve deployed after no LNAPL was measured.

**Sampling Summary**

Sample ID	<u>MW-1</u>	Purge Rate (LPM)	-
Sample Collection Date	<u>03/27/2015</u>	VOA Preserved #	<u>3</u>
Sample Collection Time	<u>09:25</u>	VOA Un-preserved #	_____
DTW at Sampling (ft)	<u>19.54</u>	Liter Amber #	_____
Sampled using	<u>Hydrasleeve</u>	Plastic Bottles #	_____
		Other	_____
		Remarks	_____

Sampler's Signature



**MW-2**

Date	<u>03/27/2015</u>	Well Head Integrity	<u>Okay</u>	Pump Inlet Depth (ft)	<u>          </u>
Project_Number	<u>09-88-655</u>	Well Head	<u>          </u>	Well Diameter (in)	<u>2</u>
Location	<u>3201 35th Avenue, Oakland, CA</u>	Comments	<u>          </u>	Initial DTW (ft)	<u>          </u>
Weather Conditions	<u>Sunny</u>			Well Depth (ft)	<u>          </u>
Waste Container	<u>Tank</u>				
Waste Location	<u>Off site</u>				
Sampler	<u>Alex Martinez</u>				

**Field Parameters**

Time	Purge Volume (L)	DTW (ft)	DO (mg/L)	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	Turbidity (NTU)	Remarks
11:21	1.0	-	2.29	19.67	6.50	2072	-110	0.1	Moderate hydrocarbon odor

**Sampling Summary**

Sample ID	<u>MW-2</u>	Purge Rate (LPM)	<u>-</u>
Sample Collection Date	<u>03/27/2015</u>	VOA Preserved #	<u>3</u>
Sample Collection Time	<u>11:20</u>	VOA Un-preserved #	<u>          </u>
DTW at Sampling (ft)	<u>18.32</u>	Liter Amber #	<u>          </u>
Sampled using	<u>Hydrasleeve</u>	Plastic Bottles #	<u>          </u>
		Other	<u>          </u>
		Remarks	<u>          </u>

Sampler's Signature



**MW-4**

Date	<u>03/27/2015</u>	Well Head Integrity	<u>Okay</u>	Pump Inlet Depth (ft)	<u>          </u>
Project_Number	<u>09-88-655</u>	Well Head	<u>          </u>	Well Diameter (in)	<u>2</u>
Location	<u>3201 35th Avenue, Oakland, CA</u>	Comments	<u>          </u>	Initial DTW (ft)	<u>          </u>
Weather Conditions	<u>Sunny</u>			Well Depth (ft)	<u>          </u>
Waste Container	<u>Tank</u>				
Waste Location	<u>Off site</u>				
Sampler	<u>Alex Martinez</u>				

**Field Parameters**

Time	Purge Volume (L)	DTW (ft)	DO (mg/L)	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	Turbidity (NTU)	Remarks
08:48	1.0	-	3.50	18.64	6.70	751	61	0.3	

**Sampling Summary**

Sample ID	<u>MW-4</u>	Purge Rate (LPM)	<u>-</u>
Sample Collection Date	<u>03/27/2015</u>	VOA Preserved #	<u>3</u>
Sample Collection Time	<u>08:45</u>	VOA Un-preserved #	<u>          </u>
DTW at Sampling (ft)	<u>20.23</u>	Liter Amber #	<u>          </u>
Sampled using	<u>Hydrasleeve</u>	Plastic Bottles #	<u>          </u>
		Other	<u>          </u>
		Remarks	<u>          </u>

Sampler's Signature



### MW-5

Date	<u>03/27/2015</u>	Well Head Integrity	<u>Okay</u>	Pump Inlet Depth (ft)	<u>          </u>
Project_Number	<u>09-88-655</u>	Well Head	<u>          </u>	Well Diameter (in)	<u>2</u>
Location	<u>3201 35th Avenue, Oakland, CA</u>	Comments	<u>          </u>	Initial DTW (ft)	<u>          </u>
Weather Conditions	<u>Sunny</u>			Well Depth (ft)	<u>          </u>
Waste Container	<u>Tank</u>				
Waste Location	<u>Off site</u>				
Sampler	<u>Alex Martinez</u>				

### Field Parameters

Time	Purge Volume (L)	DTW (ft)	DO (mg/L)	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	Turbidity (NTU)	Remarks
10:02	1.0	-	3.08	17.63	6.68	1360	-137	1.1	Moderate hydrocarbon odor

### Sampling Summary

Sample ID	<u>MW-5</u>	Purge Rate (LPM)	<u>-</u>
Sample Collection Date	<u>03/27/2015</u>	VOA Preserved #	<u>3</u>
Sample Collection Time	<u>09:55</u>	VOA Un-preserved #	<u>          </u>
DTW at Sampling (ft)	<u>15.56</u>	Liter Amber #	<u>          </u>
Sampled using	<u>Hydrasleeve</u>	Plastic Bottles #	<u>          </u>
		Other	<u>          </u>
		Remarks	<u>          </u>

Sampler's Signature



**MW-7**

Date	<u>03/27/2015</u>	Well Head Integrity	<u>Okay</u>	Pump Inlet Depth (ft)	<u>          </u>
Project_Number	<u>09-88-655</u>	Well Head	<u>          </u>	Well Diameter (in)	<u>2</u>
Location	<u>3201 35th Avenue, Oakland, CA</u>	Comments	<u>          </u>	Initial DTW (ft)	<u>          </u>
Weather Conditions	<u>Sunny</u>			Well Depth (ft)	<u>          </u>
Waste Container	<u>Tank</u>				
Waste Location	<u>Off site</u>				
Sampler	<u>Alex Martinez</u>				

**Field Parameters**

Time	Purge Volume (L)	DTW (ft)	DO (mg/L)	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	Turbidity (NTU)	Remarks
09:06	1.0	-	3.42	17.61	6.89	817	25	0.0	

**Sampling Summary**

Sample ID	<u>MW-7</u>	Purge Rate (LPM)	<u>-</u>
Sample Collection Date	<u>03/27/2015</u>	VOA Preserved #	<u>3</u>
Sample Collection Time	<u>09:05</u>	VOA Un-preserved #	<u>          </u>
DTW at Sampling (ft)	<u>18.09</u>	Liter Amber #	<u>          </u>
Sampled using	<u>Hydrasleeve</u>	Plastic Bottles #	<u>          </u>
		Other	<u>          </u>
		Remarks	<u>          </u>

Sampler's Signature



**MW-8**

Date	<u>03/27/2015</u>	Well Head Integrity	<u>Okay</u>	Pump Inlet Depth (ft)	<u>          </u>
Project_Number	<u>09-88-655</u>	Well Head	<u>          </u>	Well Diameter (in)	<u>2</u>
Location	<u>3201 35th Avenue, Oakland, CA</u>	Comments	<u>          </u>	Initial DTW (ft)	<u>          </u>
Weather Conditions	<u>Sunny</u>			Well Depth (ft)	<u>          </u>
Waste Container	<u>Tank</u>				
Waste Location	<u>Off site</u>				
Sampler	<u>Alex Martinez</u>				

**Field Parameters**

Time	Purge Volume (L)	DTW (ft)	DO (mg/L)	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	Turbidity (NTU)	Remarks
11:01	1.0	-	1.48	18.59	6.59	1190	-105	0.0	Hydrocarbon odor

**Sampling Summary**

Sample ID	<u>MW-8</u>	Purge Rate (LPM)	<u>-</u>
Sample Collection Date	<u>03/27/2015</u>	VOA Preserved #	<u>3</u>
Sample Collection Time	<u>11:00</u>	VOA Un-preserved #	<u>          </u>
DTW at Sampling (ft)	<u>16.10</u>	Liter Amber #	<u>          </u>
Sampled using	<u>Hydrasleeve</u>	Plastic Bottles #	<u>          </u>
		Other	<u>          </u>
		Remarks	<u>          </u>

Sampler's Signature





**MW-9**

Date	<u>03/27/2015</u>	Well Head Integrity	<u>Okay</u>	Pump Inlet Depth (ft)	<u>          </u>
Project_Number	<u>09-88-655</u>	Well Head	<u>          </u>	Well Diameter (in)	<u>2</u>
Location	<u>3201 35th Avenue, Oakland, CA</u>	Comments	<u>          </u>	Initial DTW (ft)	<u>          </u>
Weather Conditions	<u>Sunny</u>			Well Depth (ft)	<u>          </u>
Waste Container	<u>Tank</u>				
Waste Location	<u>Off site</u>				
Sampler	<u>Alex Martinez</u>				

**Field Parameters**

Time	Purge Volume (L)	DTW (ft)	DO (mg/L)	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	Turbidity (NTU)	Remarks
10:40	1.0	-	1.96	18.95	6.72	821	-155	11.9	

**Sampling Summary**

Sample ID	<u>MW-9</u>	Purge Rate (LPM)	<u>-</u>
Sample Collection Date	<u>03/27/2015</u>	VOA Preserved #	<u>3</u>
Sample Collection Time	<u>10:40</u>	VOA Un-preserved #	<u>          </u>
DTW at Sampling (ft)	<u>16.42</u>	Liter Amber #	<u>          </u>
Sampled using	<u>Hydrasleeve</u>	Plastic Bottles #	<u>          </u>
		Other	<u>          </u>
		Remarks	<u>          </u>

Sampler's Signature



**RW-1**

Date	<u>03/27/2015</u>	Well Head Integrity	<u>Okay</u>	Pump Inlet Depth (ft)	<u>        </u>
Project_Number	<u>09-88-655</u>	Well Head	<u>        </u>	Well Diameter (in)	<u>6</u>
Location	<u>3201 35th Avenue, Oakland, CA</u>	Comments	<u>        </u>	Initial DTW (ft)	<u>        </u>
Weather Conditions	<u>Sunny</u>			Well Depth (ft)	<u>        </u>
Waste Container	<u>Tank</u>				
Waste Location	<u>Off site</u>				
Sampler	<u>Alex Martinez</u>				

**Field Parameters**

Time	Purge Volume (L)	DTW (ft)	DO (mg/L)	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	Turbidity (NTU)	Remarks
10:25	1.0	-	2.35	18.60	6.76	134	-127	4.6	Moderate hydrocarbon odor.

**Sampling Summary**

Sample ID	<u>RW-1</u>	Purge Rate (LPM)	<u>-</u>
Sample Collection Date	<u>03/27/2015</u>	VOA Preserved #	<u>3</u>
Sample Collection Time	<u>10:25</u>	VOA Un-preserved #	<u>        </u>
DTW at Sampling (ft)	<u>17.57</u>	Liter Amber #	<u>        </u>
Sampled using	<u>Hydrasleeve</u>	Plastic Bottles #	<u>        </u>
		Other	<u>        </u>
		Remarks	<u>        </u>

Sampler's Signature



**Attachment C**

Certified Laboratory Analytical Report  
and Chain of Custody  
Documentation

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

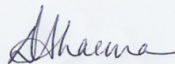
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Pleasanton  
1220 Quarry Lane  
Pleasanton, CA 94566  
Tel: (925)484-1919

TestAmerica Job ID: 720-63793-1  
Client Project/Site: BP #11132, Oakland

For:  
ARCADIS U.S., Inc.  
100 Montgomery Street  
Suite 300  
San Francisco, California 94104

Attn: Hollis Phillips



Authorized for release by:  
4/7/2015 3:07:57 PM

Dimple Sharma, Senior Project Manager  
(925)484-1919  
[dimple.sharma@testamericainc.com](mailto:dimple.sharma@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Definitions/Glossary

Client: ARCADIS U.S., Inc.  
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: ARCADIS U.S., Inc.  
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

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**Job ID: 720-63793-1**

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**Laboratory: TestAmerica Pleasanton**

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**Narrative**

**Job Narrative**  
**720-63793-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 3/27/2015 12:22 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

**GC/MS VOA**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



# Detection Summary

Client: ARCADIS U.S., Inc.  
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

## Client Sample ID: MW-1

## Lab Sample ID: 720-63793-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	13		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Benzene	17		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	110		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	25		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C6-C12	7900		250		ug/L	5		8260B/CA_LUFT MS	Total/NA

## Client Sample ID: MW-2

## Lab Sample ID: 720-63793-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	140		100		ug/L	200		8260B/CA_LUFT MS	Total/NA
Benzene	13000		100		ug/L	200		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	1400		100		ug/L	200		8260B/CA_LUFT MS	Total/NA
Toluene	210		100		ug/L	200		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	1300		200		ug/L	200		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C6-C12	29000		10000		ug/L	200		8260B/CA_LUFT MS	Total/NA

## Client Sample ID: MW-4

## Lab Sample ID: 720-63793-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	22		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA

## Client Sample ID: MW-5

## Lab Sample ID: 720-63793-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	4.2		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Benzene	370		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	74		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	5.1		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	37		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C6-C12	2200		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

## Client Sample ID: MW-7

## Lab Sample ID: 720-63793-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	240		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton



# Detection Summary

Client: ARCADIS U.S., Inc.  
 Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

## Client Sample ID: MW-7 (Continued)

Lab Sample ID: 720-63793-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
TAME	3.3		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA

## Client Sample ID: MW-8

Lab Sample ID: 720-63793-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	140		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	380		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Toluene	25		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	310		10		ug/L	10		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C6-C12	6300		500		ug/L	10		8260B/CA_LUFT MS	Total/NA

## Client Sample ID: MW-9

Lab Sample ID: 720-63793-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.8		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	38		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	5.6		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C6-C12	6500		250		ug/L	5		8260B/CA_LUFT MS	Total/NA

## Client Sample ID: RW-1

Lab Sample ID: 720-63793-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	0.74		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Benzene	0.98		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	0.91		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	1.5		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C6-C12	970		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

**Client Sample ID: MW-1**  
**Date Collected: 03/27/15 09:25**  
**Date Received: 03/27/15 12:22**

**Lab Sample ID: 720-63793-1**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>MTBE</b>	<b>13</b>		2.5		ug/L			03/30/15 13:51	5
<b>Benzene</b>	<b>17</b>		2.5		ug/L			03/30/15 13:51	5
EDB	ND		2.5		ug/L			03/30/15 13:51	5
1,2-DCA	ND		2.5		ug/L			03/30/15 13:51	5
<b>Ethylbenzene</b>	<b>110</b>		2.5		ug/L			03/30/15 13:51	5
Toluene	ND		2.5		ug/L			03/30/15 13:51	5
<b>Xylenes, Total</b>	<b>25</b>		5.0		ug/L			03/30/15 13:51	5
<b>Gasoline Range Organics (GRO)</b>	<b>7900</b>		250		ug/L			03/30/15 13:51	5
<b>-C6-C12</b>									
TBA	ND		100		ug/L			03/30/15 13:51	5
Ethanol	ND		2500		ug/L			03/30/15 13:51	5
DIPE	ND		2.5		ug/L			03/30/15 13:51	5
TAME	ND		2.5		ug/L			03/30/15 13:51	5
Ethyl t-butyl ether	ND		2.5		ug/L			03/30/15 13:51	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	105		67 - 130					03/30/15 13:51	5
1,2-Dichloroethane-d4 (Surr)	99		72 - 130					03/30/15 13:51	5
Toluene-d8 (Surr)	99		70 - 130					03/30/15 13:51	5

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

**Client Sample ID: MW-2**  
**Date Collected: 03/27/15 11:20**  
**Date Received: 03/27/15 12:22**

**Lab Sample ID: 720-63793-2**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>MTBE</b>	<b>140</b>		100		ug/L			03/30/15 14:19	200
<b>Benzene</b>	<b>13000</b>		100		ug/L			03/30/15 14:19	200
EDB	ND		100		ug/L			03/30/15 14:19	200
1,2-DCA	ND		100		ug/L			03/30/15 14:19	200
<b>Ethylbenzene</b>	<b>1400</b>		100		ug/L			03/30/15 14:19	200
<b>Toluene</b>	<b>210</b>		100		ug/L			03/30/15 14:19	200
<b>Xylenes, Total</b>	<b>1300</b>		200		ug/L			03/30/15 14:19	200
<b>Gasoline Range Organics (GRO)</b>	<b>29000</b>		10000		ug/L			03/30/15 14:19	200
<b>-C6-C12</b>									
TBA	ND		4000		ug/L			03/30/15 14:19	200
Ethanol	ND		100000		ug/L			03/30/15 14:19	200
DIPE	ND		100		ug/L			03/30/15 14:19	200
TAME	ND		100		ug/L			03/30/15 14:19	200
Ethyl t-butyl ether	ND		100		ug/L			03/30/15 14:19	200
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	102		67 - 130					03/30/15 14:19	200
1,2-Dichloroethane-d4 (Surr)	102		72 - 130					03/30/15 14:19	200
Toluene-d8 (Surr)	101		70 - 130					03/30/15 14:19	200

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

**Client Sample ID: MW-4**  
**Date Collected: 03/27/15 08:45**  
**Date Received: 03/27/15 12:22**

**Lab Sample ID: 720-63793-3**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>MTBE</b>	<b>22</b>		0.50		ug/L			03/30/15 14:47	1
Benzene	ND		0.50		ug/L			03/30/15 14:47	1
EDB	ND		0.50		ug/L			03/30/15 14:47	1
1,2-DCA	ND		0.50		ug/L			03/30/15 14:47	1
Ethylbenzene	ND		0.50		ug/L			03/30/15 14:47	1
Toluene	ND		0.50		ug/L			03/30/15 14:47	1
Xylenes, Total	ND		1.0		ug/L			03/30/15 14:47	1
Gasoline Range Organics (GRO)	ND		50		ug/L			03/30/15 14:47	1
-C6-C12									
TBA	ND		20		ug/L			03/30/15 14:47	1
Ethanol	ND		500		ug/L			03/30/15 14:47	1
DIPE	ND		0.50		ug/L			03/30/15 14:47	1
TAME	ND		0.50		ug/L			03/30/15 14:47	1
Ethyl t-butyl ether	ND		0.50		ug/L			03/30/15 14:47	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	102		67 - 130					03/30/15 14:47	1
1,2-Dichloroethane-d4 (Surr)	98		72 - 130					03/30/15 14:47	1
Toluene-d8 (Surr)	99		70 - 130					03/30/15 14:47	1

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

**Client Sample ID: MW-5**  
**Date Collected: 03/27/15 09:55**  
**Date Received: 03/27/15 12:22**

**Lab Sample ID: 720-63793-4**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>MTBE</b>	<b>4.2</b>		0.50		ug/L			03/30/15 15:15	1
<b>Benzene</b>	<b>370</b>		5.0		ug/L			04/03/15 17:38	10
EDB	ND		0.50		ug/L			03/30/15 15:15	1
1,2-DCA	ND		0.50		ug/L			03/30/15 15:15	1
<b>Ethylbenzene</b>	<b>74</b>		0.50		ug/L			03/30/15 15:15	1
<b>Toluene</b>	<b>5.1</b>		0.50		ug/L			03/30/15 15:15	1
<b>Xylenes, Total</b>	<b>37</b>		1.0		ug/L			03/30/15 15:15	1
<b>Gasoline Range Organics (GRO)</b>	<b>2200</b>		50		ug/L			03/30/15 15:15	1
<b>-C6-C12</b>									
TBA	ND		20		ug/L			03/30/15 15:15	1
Ethanol	ND		500		ug/L			03/30/15 15:15	1
DIPE	ND		0.50		ug/L			03/30/15 15:15	1
TAME	ND		0.50		ug/L			03/30/15 15:15	1
Ethyl t-butyl ether	ND		0.50		ug/L			03/30/15 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		67 - 130		03/30/15 15:15	1
4-Bromofluorobenzene	94		67 - 130		04/03/15 17:38	10
1,2-Dichloroethane-d4 (Surr)	97		72 - 130		03/30/15 15:15	1
1,2-Dichloroethane-d4 (Surr)	92		72 - 130		04/03/15 17:38	10
Toluene-d8 (Surr)	101		70 - 130		03/30/15 15:15	1
Toluene-d8 (Surr)	93		70 - 130		04/03/15 17:38	10

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

**Client Sample ID: MW-7**  
**Date Collected: 03/27/15 09:05**  
**Date Received: 03/27/15 12:22**

**Lab Sample ID: 720-63793-5**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>MTBE</b>	<b>240</b>		5.0		ug/L			04/03/15 18:12	10
Benzene	ND		0.50		ug/L			03/30/15 15:43	1
EDB	ND		0.50		ug/L			03/30/15 15:43	1
1,2-DCA	ND		0.50		ug/L			03/30/15 15:43	1
Ethylbenzene	ND		0.50		ug/L			03/30/15 15:43	1
Toluene	ND		0.50		ug/L			03/30/15 15:43	1
Xylenes, Total	ND		1.0		ug/L			03/30/15 15:43	1
Gasoline Range Organics (GRO)	ND		50		ug/L			03/30/15 15:43	1
-C6-C12									
TBA	ND		20		ug/L			03/30/15 15:43	1
Ethanol	ND		500		ug/L			03/30/15 15:43	1
DIPE	ND		0.50		ug/L			03/30/15 15:43	1
<b>TAME</b>	<b>3.3</b>		0.50		ug/L			03/30/15 15:43	1
Ethyl t-butyl ether	ND		0.50		ug/L			03/30/15 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		67 - 130		03/30/15 15:43	1
4-Bromofluorobenzene	95		67 - 130		04/03/15 18:12	10
1,2-Dichloroethane-d4 (Surr)	97		72 - 130		03/30/15 15:43	1
1,2-Dichloroethane-d4 (Surr)	89		72 - 130		04/03/15 18:12	10
Toluene-d8 (Surr)	99		70 - 130		03/30/15 15:43	1
Toluene-d8 (Surr)	91		70 - 130		04/03/15 18:12	10

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

**Client Sample ID: MW-8**  
**Date Collected: 03/27/15 11:00**  
**Date Received: 03/27/15 12:22**

**Lab Sample ID: 720-63793-6**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		5.0		ug/L			03/30/15 16:11	10
<b>Benzene</b>	<b>140</b>		5.0		ug/L			03/30/15 16:11	10
EDB	ND		5.0		ug/L			03/30/15 16:11	10
1,2-DCA	ND		5.0		ug/L			03/30/15 16:11	10
<b>Ethylbenzene</b>	<b>380</b>		5.0		ug/L			03/30/15 16:11	10
<b>Toluene</b>	<b>25</b>		5.0		ug/L			03/30/15 16:11	10
<b>Xylenes, Total</b>	<b>310</b>		10		ug/L			03/30/15 16:11	10
<b>Gasoline Range Organics (GRO)</b>	<b>6300</b>		500		ug/L			03/30/15 16:11	10
<b>-C6-C12</b>									
TBA	ND		200		ug/L			03/30/15 16:11	10
Ethanol	ND		5000		ug/L			03/30/15 16:11	10
DIPE	ND		5.0		ug/L			03/30/15 16:11	10
TAME	ND		5.0		ug/L			03/30/15 16:11	10
Ethyl t-butyl ether	ND		5.0		ug/L			03/30/15 16:11	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	100		67 - 130					03/30/15 16:11	10
1,2-Dichloroethane-d4 (Surr)	97		72 - 130					03/30/15 16:11	10
Toluene-d8 (Surr)	101		70 - 130					03/30/15 16:11	10

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

**Client Sample ID: MW-9**  
**Date Collected: 03/27/15 10:40**  
**Date Received: 03/27/15 12:22**

**Lab Sample ID: 720-63793-7**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		2.5		ug/L			03/30/15 16:39	5
<b>Benzene</b>	<b>7.8</b>		2.5		ug/L			03/30/15 16:39	5
EDB	ND		2.5		ug/L			03/30/15 16:39	5
1,2-DCA	ND		2.5		ug/L			03/30/15 16:39	5
<b>Ethylbenzene</b>	<b>38</b>		2.5		ug/L			03/30/15 16:39	5
Toluene	ND		2.5		ug/L			03/30/15 16:39	5
<b>Xylenes, Total</b>	<b>5.6</b>		5.0		ug/L			03/30/15 16:39	5
<b>Gasoline Range Organics (GRO)</b>	<b>6500</b>		250		ug/L			03/30/15 16:39	5
<b>-C6-C12</b>									
TBA	ND		100		ug/L			03/30/15 16:39	5
Ethanol	ND		2500		ug/L			03/30/15 16:39	5
DIPE	ND		2.5		ug/L			03/30/15 16:39	5
TAME	ND		2.5		ug/L			03/30/15 16:39	5
Ethyl t-butyl ether	ND		2.5		ug/L			03/30/15 16:39	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	105		67 - 130					03/30/15 16:39	5
1,2-Dichloroethane-d4 (Surr)	104		72 - 130					03/30/15 16:39	5
Toluene-d8 (Surr)	100		70 - 130					03/30/15 16:39	5



# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

**Client Sample ID: RW-1**

**Lab Sample ID: 720-63793-8**

**Date Collected: 03/27/15 10:25**

**Matrix: Water**

**Date Received: 03/27/15 12:22**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>MTBE</b>	<b>0.74</b>		0.50		ug/L			03/30/15 12:55	1
<b>Benzene</b>	<b>0.98</b>		0.50		ug/L			03/30/15 12:55	1
EDB	ND		0.50		ug/L			03/30/15 12:55	1
1,2-DCA	ND		0.50		ug/L			03/30/15 12:55	1
<b>Ethylbenzene</b>	<b>0.91</b>		0.50		ug/L			03/30/15 12:55	1
Toluene	ND		0.50		ug/L			03/30/15 12:55	1
<b>Xylenes, Total</b>	<b>1.5</b>		1.0		ug/L			03/30/15 12:55	1
<b>Gasoline Range Organics (GRO)</b>	<b>970</b>		50		ug/L			03/30/15 12:55	1
<b>-C6-C12</b>									
TBA	ND		20		ug/L			03/30/15 12:55	1
Ethanol	ND		500		ug/L			03/30/15 12:55	1
DIPE	ND		0.50		ug/L			03/30/15 12:55	1
TAME	ND		0.50		ug/L			03/30/15 12:55	1
Ethyl t-butyl ether	ND		0.50		ug/L			03/30/15 12:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	107		67 - 130					03/30/15 12:55	1
1,2-Dichloroethane-d4 (Surr)	101		72 - 130					03/30/15 12:55	1
Toluene-d8 (Surr)	100		70 - 130					03/30/15 12:55	1

# Surrogate Summary

Client: ARCADIS U.S., Inc.  
 Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

**Matrix: Water**

**Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (67-130)	12DCE (72-130)	TOL (70-130)
720-63793-1	MW-1	105	99	99
720-63793-2	MW-2	102	102	101
720-63793-3	MW-4	102	98	99
720-63793-4	MW-5	103	97	101
720-63793-4	MW-5	94	92	93
720-63793-4 MS	MW-5	94	86	97
720-63793-4 MSD	MW-5	92	87	97
720-63793-5	MW-7	98	97	99
720-63793-5	MW-7	95	89	91
720-63793-6	MW-8	100	97	101
720-63793-7	MW-9	105	104	100
720-63793-8	RW-1	107	101	100
720-63793-8 MS	RW-1	99	96	102
720-63793-8 MSD	RW-1	99	97	101
LCS 720-178585/5	Lab Control Sample	99	97	100
LCS 720-178585/7	Lab Control Sample	103	100	102
LCS 720-178990/6	Lab Control Sample	94	90	98
LCSD 720-178585/6	Lab Control Sample Dup	98	93	98
LCSD 720-178585/8	Lab Control Sample Dup	102	100	100
LCSD 720-178990/7	Lab Control Sample Dup	92	86	96
MB 720-178585/4	Method Blank	102	101	102
MB 720-178990/5	Method Blank	94	90	92

**Surrogate Legend**

BFB = 4-Bromofluorobenzene  
 12DCE = 1,2-Dichloroethane-d4 (Surr)  
 TOL = Toluene-d8 (Surr)

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS

**Lab Sample ID: MB 720-178585/4**

**Matrix: Water**

**Analysis Batch: 178585**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			03/30/15 09:38	1
Benzene	ND		0.50		ug/L			03/30/15 09:38	1
EDB	ND		0.50		ug/L			03/30/15 09:38	1
1,2-DCA	ND		0.50		ug/L			03/30/15 09:38	1
Ethylbenzene	ND		0.50		ug/L			03/30/15 09:38	1
Toluene	ND		0.50		ug/L			03/30/15 09:38	1
Xylenes, Total	ND		1.0		ug/L			03/30/15 09:38	1
Gasoline Range Organics (GRO)	ND		50		ug/L			03/30/15 09:38	1
-C6-C12									
TBA	ND		20		ug/L			03/30/15 09:38	1
Ethanol	ND		500		ug/L			03/30/15 09:38	1
DIPE	ND		0.50		ug/L			03/30/15 09:38	1
TAME	ND		0.50		ug/L			03/30/15 09:38	1
Ethyl t-butyl ether	ND		0.50		ug/L			03/30/15 09:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		67 - 130		03/30/15 09:38	1
1,2-Dichloroethane-d4 (Surr)	101		72 - 130		03/30/15 09:38	1
Toluene-d8 (Surr)	102		70 - 130		03/30/15 09:38	1

**Lab Sample ID: LCS 720-178585/5**

**Matrix: Water**

**Analysis Batch: 178585**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
MTBE	25.0	25.0		ug/L		100	62 - 130
Benzene	25.0	22.9		ug/L		92	79 - 130
EDB	25.0	24.4		ug/L		98	70 - 130
1,2-DCA	25.0	23.1		ug/L		92	61 - 132
Ethylbenzene	25.0	23.1		ug/L		92	80 - 120
Toluene	25.0	22.4		ug/L		90	78 - 120
TBA	250	227		ug/L		91	70 - 130
Ethanol	1250	1300		ug/L		104	31 - 216
DIPE	25.0	24.4		ug/L		98	69 - 134
TAME	25.0	26.7		ug/L		107	79 - 130
Ethyl t-butyl ether	25.0	25.0		ug/L		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	99		67 - 130
1,2-Dichloroethane-d4 (Surr)	97		72 - 130
Toluene-d8 (Surr)	100		70 - 130

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# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCS 720-178585/7**

**Matrix: Water**

**Analysis Batch: 178585**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C12	500	489		ug/L		98	58 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		67 - 130
1,2-Dichloroethane-d4 (Surr)	100		72 - 130
Toluene-d8 (Surr)	102		70 - 130

**Lab Sample ID: LCSD 720-178585/6**

**Matrix: Water**

**Analysis Batch: 178585**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
MTBE	25.0	24.3		ug/L		97	62 - 130	3	20
Benzene	25.0	24.9		ug/L		100	79 - 130	8	20
EDB	25.0	21.1		ug/L		84	70 - 130	15	20
1,2-DCA	25.0	22.5		ug/L		90	61 - 132	3	20
Ethylbenzene	25.0	23.9		ug/L		96	80 - 120	3	20
Toluene	25.0	25.1		ug/L		101	78 - 120	12	20
TBA	250	236		ug/L		94	70 - 130	4	20
Ethanol	1250	1340		ug/L		108	31 - 216	3	30
DIPE	25.0	26.4		ug/L		106	69 - 134	8	20
TAME	25.0	25.6		ug/L		102	79 - 130	4	20
Ethyl t-butyl ether	25.0	25.3		ug/L		101	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	98		67 - 130
1,2-Dichloroethane-d4 (Surr)	93		72 - 130
Toluene-d8 (Surr)	98		70 - 130

**Lab Sample ID: LCSD 720-178585/8**

**Matrix: Water**

**Analysis Batch: 178585**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C12	500	483		ug/L		97	58 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	102		67 - 130
1,2-Dichloroethane-d4 (Surr)	100		72 - 130
Toluene-d8 (Surr)	100		70 - 130

TestAmerica Pleasanton

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: 720-63793-8 MS**

**Matrix: Water**

**Analysis Batch: 178585**

**Client Sample ID: RW-1**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
MTBE	0.74		25.0	24.7		ug/L		99	60 - 138
Benzene	0.98		25.0	24.1		ug/L		92	60 - 140
EDB	ND		25.0	23.1		ug/L		92	60 - 140
1,2-DCA	ND		25.0	22.5		ug/L		90	60 - 140
Ethylbenzene	0.91		25.0	24.3		ug/L		94	60 - 140
Toluene	ND		25.0	22.7		ug/L		90	60 - 140
TBA	ND		250	236		ug/L		95	60 - 140
Ethanol	ND		1250	1320		ug/L		105	60 - 140
DIPE	ND		25.0	23.3		ug/L		93	60 - 140
TAME	ND		25.0	25.4		ug/L		101	60 - 140
Ethyl t-butyl ether	ND		25.0	24.0		ug/L		96	60 - 140

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	99		67 - 130
1,2-Dichloroethane-d4 (Surr)	96		72 - 130
Toluene-d8 (Surr)	102		70 - 130

**Lab Sample ID: 720-63793-8 MSD**

**Matrix: Water**

**Analysis Batch: 178585**

**Client Sample ID: RW-1**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
MTBE	0.74		25.0	26.5		ug/L		106	60 - 138	7	20
Benzene	0.98		25.0	23.9		ug/L		92	60 - 140	1	20
EDB	ND		25.0	24.6		ug/L		98	60 - 140	6	20
1,2-DCA	ND		25.0	23.0		ug/L		92	60 - 140	2	20
Ethylbenzene	0.91		25.0	23.8		ug/L		92	60 - 140	2	20
Toluene	ND		25.0	22.6		ug/L		89	60 - 140	0	20
TBA	ND		250	234		ug/L		94	60 - 140	1	20
Ethanol	ND		1250	1250		ug/L		100	60 - 140	5	20
DIPE	ND		25.0	24.0		ug/L		96	60 - 140	3	20
TAME	ND		25.0	27.2		ug/L		109	60 - 140	7	20
Ethyl t-butyl ether	ND		25.0	25.3		ug/L		101	60 - 140	5	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	99		67 - 130
1,2-Dichloroethane-d4 (Surr)	97		72 - 130
Toluene-d8 (Surr)	101		70 - 130

**Lab Sample ID: MB 720-178990/5**

**Matrix: Water**

**Analysis Batch: 178990**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
MTBE	ND		0.50		ug/L			04/03/15 12:24	1
Benzene	ND		0.50		ug/L			04/03/15 12:24	1

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# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: MB 720-178990/5**  
**Matrix: Water**  
**Analysis Batch: 178990**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	94		67 - 130		04/03/15 12:24	1
1,2-Dichloroethane-d4 (Surr)	90		72 - 130		04/03/15 12:24	1
Toluene-d8 (Surr)	92		70 - 130		04/03/15 12:24	1

**Lab Sample ID: LCS 720-178990/6**  
**Matrix: Water**  
**Analysis Batch: 178990**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	24.4		ug/L		98	79 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	94		67 - 130
1,2-Dichloroethane-d4 (Surr)	90		72 - 130
Toluene-d8 (Surr)	98		70 - 130

**Lab Sample ID: LCSD 720-178990/7**  
**Matrix: Water**  
**Analysis Batch: 178990**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	24.5		ug/L		98	79 - 130	0	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	92		67 - 130
1,2-Dichloroethane-d4 (Surr)	86		72 - 130
Toluene-d8 (Surr)	96		70 - 130

**Lab Sample ID: 720-63793-4 MS**  
**Matrix: Water**  
**Analysis Batch: 178990**

**Client Sample ID: MW-5**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	370		250	633		ug/L		104	60 - 140

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	94		67 - 130
1,2-Dichloroethane-d4 (Surr)	86		72 - 130
Toluene-d8 (Surr)	97		70 - 130

TestAmerica Pleasanton

# QC Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: 720-63793-4 MSD**  
**Matrix: Water**  
**Analysis Batch: 178990**

**Client Sample ID: MW-5**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
MTBE	5.3		250	237		ug/L		93	60 - 138	4	20
Benzene	370		250	649		ug/L		110	60 - 140	2	20
<b>MSD MSD</b>											
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene	92		67 - 130								
1,2-Dichloroethane-d4 (Surr)	87		72 - 130								
Toluene-d8 (Surr)	97		70 - 130								



# QC Association Summary

Client: ARCADIS U.S., Inc.  
 Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

## GC/MS VOA

### Analysis Batch: 178585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-63793-1	MW-1	Total/NA	Water	8260B/CA_LUFT MS	
720-63793-2	MW-2	Total/NA	Water	8260B/CA_LUFT MS	
720-63793-3	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-63793-4	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
720-63793-5	MW-7	Total/NA	Water	8260B/CA_LUFT MS	
720-63793-6	MW-8	Total/NA	Water	8260B/CA_LUFT MS	
720-63793-7	MW-9	Total/NA	Water	8260B/CA_LUFT MS	
720-63793-8	RW-1	Total/NA	Water	8260B/CA_LUFT MS	
720-63793-8 MS	RW-1	Total/NA	Water	8260B/CA_LUFT MS	
720-63793-8 MSD	RW-1	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-178585/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-178585/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-178585/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-178585/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-178585/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

### Analysis Batch: 178990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-63793-4	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
720-63793-4 MS	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
720-63793-4 MSD	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
720-63793-5	MW-7	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-178990/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-178990/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-178990/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	



# Lab Chronicle

Client: ARCADIS U.S., Inc.  
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

## Client Sample ID: MW-1

Lab Sample ID: 720-63793-1

Date Collected: 03/27/15 09:25

Matrix: Water

Date Received: 03/27/15 12:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		5	178585	03/30/15 13:51	ASC	TAL PLS

## Client Sample ID: MW-2

Lab Sample ID: 720-63793-2

Date Collected: 03/27/15 11:20

Matrix: Water

Date Received: 03/27/15 12:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		200	178585	03/30/15 14:19	ASC	TAL PLS

## Client Sample ID: MW-4

Lab Sample ID: 720-63793-3

Date Collected: 03/27/15 08:45

Matrix: Water

Date Received: 03/27/15 12:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	178585	03/30/15 14:47	ASC	TAL PLS

## Client Sample ID: MW-5

Lab Sample ID: 720-63793-4

Date Collected: 03/27/15 09:55

Matrix: Water

Date Received: 03/27/15 12:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	178585	03/30/15 15:15	ASC	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		10	178990	04/03/15 17:38	LPL	TAL PLS

## Client Sample ID: MW-7

Lab Sample ID: 720-63793-5

Date Collected: 03/27/15 09:05

Matrix: Water

Date Received: 03/27/15 12:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	178585	03/30/15 15:43	ASC	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		10	178990	04/03/15 18:12	LPL	TAL PLS

## Client Sample ID: MW-8

Lab Sample ID: 720-63793-6

Date Collected: 03/27/15 11:00

Matrix: Water

Date Received: 03/27/15 12:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	178585	03/30/15 16:11	ASC	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: ARCADIS U.S., Inc.  
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

## Client Sample ID: MW-9

Date Collected: 03/27/15 10:40

Date Received: 03/27/15 12:22

## Lab Sample ID: 720-63793-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		5	178585	03/30/15 16:39	ASC	TAL PLS

## Client Sample ID: RW-1

Date Collected: 03/27/15 10:25

Date Received: 03/27/15 12:22

## Lab Sample ID: 720-63793-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	178585	03/30/15 12:55	ASC	TAL PLS

### Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

# Certification Summary

Client: ARCADIS U.S., Inc.  
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

## Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

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# Method Summary

Client: ARCADIS U.S., Inc.  
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



# Sample Summary

Client: ARCADIS U.S., Inc.  
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-63793-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-63793-1	MW-1	Water	03/27/15 09:25	03/27/15 12:22
720-63793-2	MW-2	Water	03/27/15 11:20	03/27/15 12:22
720-63793-3	MW-4	Water	03/27/15 08:45	03/27/15 12:22
720-63793-4	MW-5	Water	03/27/15 09:55	03/27/15 12:22
720-63793-5	MW-7	Water	03/27/15 09:05	03/27/15 12:22
720-63793-6	MW-8	Water	03/27/15 11:00	03/27/15 12:22
720-63793-7	MW-9	Water	03/27/15 10:40	03/27/15 12:22
720-63793-8	RW-1	Water	03/27/15 10:25	03/27/15 12:22

San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

phone 925.484.1919 fax 925.600.3002

720-63793

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

COC No:

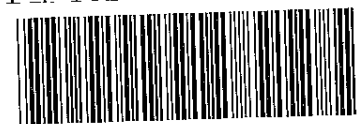
1 of 1 COCs

Job No.

SDG No.

Sample Specific Notes:

Client Contact		Project Manager: James Ramos		Site Contact/Sampler: Alex Martinez		Date:		COC No:	
Broadbent & Associates, Inc. 4820 Business Center Drive, Suite 110 Fairfield, CA 94534 Phone: 707-455-7290 Fax: 707-863-9046 Project Name: Arcadis 11132 3201 35th Avenue, Oakland, CA P O # GP09BPNA.C112		Tel/Fax: 707-455-7290 / 707-863-9046		Lab Contact: Dimple Sharma		Carrier:		1 of 1 COCs	
		Analysis Turnaround Time		GRO & BTEX by 8260B				Job No.	
		Calendar (C) or Work Days (W)		5 Fuelx Oxy, EDB & 1,2-DCA by 8260				SDG No.	
		TAT if different from Below <u>STD</u>		Ethanol by 8260				Sample Specific Notes:	
		<input type="checkbox"/> 2 weeks							
		<input type="checkbox"/> 1 week							
		<input type="checkbox"/> 2 days							
		<input type="checkbox"/> 1 day							
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample			
MW-1	3/27/2015	0925	GRAB	AQ	3	X	X	X	
MW-2	3/27/2015	1120	GRAB	AQ	3	X	X	X	
MW-4	3/27/2015	0845	GRAB	AQ	3	X	X	X	
MW-5	3/27/2015	0955	GRAB	AQ	3	X	X	X	
MW-7	3/27/2015	0905	GRAB	AQ	3	X	X	X	
MW-8	3/27/2015	1100	GRAB	AQ	3	X	X	X	
MW-9	3/27/2015	1040	GRAB	AQ	3	X	X	X	
<del>MW-10</del>	<del>3/27/2015</del>	<del></del>	<del>GRAB</del>	<del>AQ</del>	<del>2</del>	<del>X</del>	<del>X</del>	<del>X</del>	
RW-1	3/27/2015	1025	GRAB	AQ	3	X	X	X	
TB-11132-03272015	-	-	-	AQ	2				On Hold
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Possible Hazard Identification						Return To Client			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						<input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Special Instructions:						2.3°C			
Relinquished by: <i>[Signature]</i>		Company: Broadbent		Date/Time: 3/27/15 1222		Received by: <i>[Signature]</i>		Company: TAP	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	



720-63793 Chain of Custody

## Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 720-63793-1

**Login Number: 63793**

**List Source: TestAmerica Pleasanton**

**List Number: 1**

**Creator: Gonzales, Justinn**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



**Attachment D**  
Historical Tables Provided by  
Broadbent



**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-1</b>														
7/9/1990	--	169.75	--	0.22	--	--	--	--	--	--	--	--	--	
12/21/1990	--		--	0.58	--	--	--	--	--	--	--	--	--	
3/7/1991	--		20.59	0.00	149.16	--	--	--	--	--	--	--	--	
4/1/1991	--		16.51	0.15	153.09	--	--	--	--	--	--	--	--	
6/27/1991	--		--	0.18	--	--	--	--	--	--	--	--	--	
9/27/1991	--		--	0.27	--	--	--	--	--	--	--	--	--	
12/18/1991	--		--	0.28	--	--	--	--	--	--	--	--	--	
7/3/1992	--		22.30	0.27	147.18	--	--	--	--	--	--	--	--	
10/5/1992	--		23.98	0.24	145.53	--	--	--	--	--	--	--	--	
1/13/1993	--		17.03	0.24	152.48	--	--	--	--	--	--	--	--	
4/23/1993	--		18.10	0.42	151.23	--	--	--	--	--	--	--	--	
7/12/1993	--		22.02	0.49	147.24	--	--	--	--	--	--	--	--	
10/21/1993	--		25.12	1.09	143.54	--	--	--	--	--	--	--	--	
1/21/1994	--		23.02	0.76	145.97	--	--	--	--	--	--	--	--	
4/20/1994	--		24.54	1.80	143.41	--	--	--	--	--	--	--	--	
8/1/1994	--		24.11	0.35	145.29	--	--	--	--	--	--	--	--	
12/23/1994	--		18.19	0.00	151.56	--	--	--	--	--	--	--	--	
1/26/1995	--		16.25	1.10	152.40	--	--	--	--	--	--	--	--	
2/16/1995	--		--	1.40	--	--	--	--	--	--	--	--	--	
6/8/1995	--		22.92	1.25	145.63	--	--	--	--	--	--	--	--	
6/8/1995	--		22.92	1.25	145.63	--	--	--	--	--	--	--	--	
8/22/1995	--		24.45	0.85	144.45	--	--	--	--	--	--	--	--	
10/27/1995	--		25.41	0.00	143.65	--	--	--	--	--	--	--	--	
10/30/95-12/23/95	--		--	--	--	--	--	--	--	--	--	--	--	
12/23/1995	--		--	0.69	--	--	--	--	--	--	--	--	--	
1/25/1996	--		18.20	1.40	150.15	--	--	--	--	--	--	--	--	
1/25/1996	--		18.20	1.40	150.15	--	--	--	--	--	--	--	--	
4/19/1996	--		19.06	1.22	149.47	--	--	--	--	--	--	--	--	
7/23/1996	--		22.98	0.89	145.88	--	--	--	--	--	--	--	--	
11/11/1996	--		23.99	0.89	144.78	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-1 Cont.</b>														
1/21/1997	--	169.75	16.80	0.90	152.05	--	--	--	--	--	--	--	--	
4/29/1997	--		21.90	0.85	147.00	--	--	--	--	--	--	--	--	
4/30/1997	--		--	--	--	92,000	3,500	8,100	4,400	23,800	6,900	--	--	c
4/30/1997	--		--	--	--	100,000	3,600	8,000	4,000	21,300	7,700	5.2	--	
8/21/1997	--		23.40	0.00	146.35	120,000	3,200	8,100	3,800	19,600	5,200	--	--	c
8/21/1997	--		23.40	0.00	146.35	140,000	3,000	8,500	3,900	22,100	5,700	5.3	--	
11/2/97-12/9/97	--		--	0.87	--	--	--	--	--	--	--	--	--	
11/5/1997	--		23.70	0.00	145.51	68,000	6,200	4,400	3,300	14,300	8,000	4.7	--	
11/5/1997	--		23.70	0.00	145.51	88,000	7,300	4,800	3,600	16,900	8,200	--	--	c
2/3/1998	--		13.63	0.32	155.80	--	--	--	--	--	--	--	--	
2/4/1998	--		--	--	--	190,000	2,200	10,000	5,600	32,000	<10000	5.3	--	
2/4/1998	--		--	--	--	160,000	2,300	8,400	5,000	29,400	<10000	--	--	c
5/28/1998	--		18.03	0.17	151.55	87,000	980	3,900	3,600	19,000	2,900	3.8	--	
12/30/1998	--		19.50	0.08	150.17	70,000	530	3,200	2,900	16,000	3,600	--	--	
2/2/1999	--		18.93	0.03	150.79	79,000	480	3,100	3,500	21,000	3,500	--	--	
5/10/1999	--		18.28	0.03	151.44	110,000	160	1,900	3,700	24,000	3,000	--	--	
8/24/1999	--		20.13	0.06	149.56	110,000	850	1,300	1,900	19,000	<50	--	--	
11/3/1999	--		22.27	0.36	147.12	65,000	6,300	1,100	3,300	9,500	8,900	--	--	
3/1/2000	--		14.79	0.23	154.73	--	--	--	--	--	--	--	--	h
4/21/2000	--		18.10	0.33	151.32	61,000	330	780	2,700	17,000	1,300	--	--	
7/31/2000	--		21.60	0.53	147.62	1,500,000	340	2,100	24,000	120,000	2,700	--	--	
11/20/2000	--		21.69	0.37	147.69	1,700,000	1,800	2,300	19,000	93,000	3,900	--	--	
2/18/2001	--		16.70	0.13	152.92	--	--	--	--	--	--	--	--	
2/26/2001	--		14.38	0.15	155.22	100,000	658	466	4,210	15,000	1,890	--	--	
6/7/2001	--		20.78	0.00	148.97	70,000	705	440	3,870	12,200	2,720	--	--	
9/5/2001	--		23.36	0.35	146.04	--	--	--	--	--	--	--	--	j
11/30/2001	--		20.85	0.41	148.49	--	--	--	--	--	--	--	--	k
12/6/2001	--		18.72	0.27	150.76	39,000	3,500	237	2,150	4,500	5,400	--	--	
2/20/2002	--		17.43	0.15	152.17	52,000	465	271	1,600	11,400	106	--	--	
6/20/2002	--		21.18	0.34	148.23	--	--	--	--	--	--	--	--	j

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-1 Cont.</b>														
9/11/2002	--	169.75	22.86	0.40	146.49	--	--	--	--	--	--	--	--	j
11/12/2002	--		22.65	0.37	146.73	--	--	--	--	--	--	--	--	j
1/29/2003	--		18.15	0.30	151.30	--	--	--	--	--	--	--	--	j,n
5/22/2003	--		18.49	0.20	151.06	--	--	--	--	--	--	--	--	j
6/24/2003	--		21.44	0.35	147.96	--	--	--	--	--	--	--	--	o
7/28/2003	--		22.72	0.35	146.68	--	--	--	--	--	--	--	--	j
8/12/2003	--		22.64	0.23	146.88	--	--	--	--	--	--	--	--	o
9/12/2003	--		20.70	0.24	148.81	--	--	--	--	--	--	--	--	o
10/3/2003	--		--	0.23	--	--	--	--	--	--	--	--	--	
11/18/2003	NP		21.70	0.25	148.25	--	--	--	--	--	--	--	--	
12/31/2003	--		--	0.15	--	--	--	--	--	--	--	--	--	
2/2/2004	--		--	0.15	--	--	--	--	--	--	--	--	--	
02/23/2004	NP		16.34	0.09	153.48	--	--	--	--	--	--	--	--	
3/18/2004	--		--	0.09	--	--	--	--	--	--	--	--	--	
4/13/2004	--		--	0.24	--	--	--	--	--	--	--	--	--	
05/04/2004	NP		21.28	0.16	148.60	--	--	--	--	--	--	--	--	
6/2/2004	--		--	0.08	--	--	--	--	--	--	--	--	--	
7/2/2004	--		--	0.28	--	--	--	--	--	--	--	--	--	
08/04/2004	--		22.54	0.10	147.29	--	--	--	--	--	--	--	--	
09/22/2004	NP		22.76	0.20	147.15	--	--	--	--	--	--	--	--	
10/26/2004	--		--	0.12	--	--	--	--	--	--	--	--	--	
11/10/2004	--		20.19	0.14	149.67	--	--	--	--	--	--	--	--	
12/27/2004	--		--	0.08	--	--	--	--	--	--	--	--	--	
01/13/2005	--		14.58	0.03	155.19	--	--	--	--	--	--	--	--	
02/15/2005	--		16.13	0.04	153.65	--	--	--	--	--	--	--	--	
03/07/2005	--		13.31	0.01	156.45	--	--	--	--	--	--	--	--	
4/29/2005	--		--	0.01	--	--	--	--	--	--	--	--	--	
05/16/2005	--		15.74	0.02	154.03	--	--	--	--	--	--	--	--	j
6/21/2005	--		--	0.01	--	--	--	--	--	--	--	--	--	
7/7/2005	--		--	0.18	--	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-1 Cont.</b>														
08/17/2005	--	169.75	21.15	0.08	148.66	--	--	--	--	--	--	--	--	j
9/6/2005	--		--	0.02	--	--	--	--	--	--	--	--	--	
10/4/2005	--		--	0.12	--	--	--	--	--	--	--	--	--	
11/18/2005	--		20.15	0.00	149.60	--	--	--	--	--	--	--	--	j
12/30/2005	--		--	0.03	--	--	--	--	--	--	--	--	--	
1/24/2006	--		--	--	--	--	--	--	--	--	--	--	--	
02/07/2006	--		15.19	0.01	154.57	--	--	--	--	--	--	--	--	j
3/30/2006	--		--	--	--	--	--	--	--	--	--	--	--	
5/19/2006	P		17.42	0.00	152.33	44,000	73	510	3,300	5,300	86	--	6.9	u, t
8/23/2006	--		22.01	0.14	147.74	--	--	--	--	--	--	--	--	b, j
11/15/2006	--		21.98	0.18	147.91	--	--	--	--	--	--	--	--	b, j
2/14/2007	--		17.12	0.17	152.76	--	--	--	--	--	--	--	--	b, j
5/22/2007	--		19.49	0.01	150.26	--	--	--	--	--	--	--	--	b, j
8/15/2007	--		22.24	0.01	147.52	--	--	--	--	--	--	--	--	b, j
11/8/2007	--		21.84	0.01	147.92	--	--	--	--	--	--	--	--	b, j
2/20/2008	--		16.52	0.02	153.25	--	--	--	--	--	--	--	--	b, j
5/7/2008	--		20.91	0.02	148.86	--	--	--	--	--	--	--	--	b, j
8/20/2008	--		22.77	0.02	147.00	--	--	--	--	--	--	--	--	b
11/17/2008	P		22.05	0.00	147.70	27,000	780	30	1,800	1,400	590	--	6.60	w
2/25/2009	--		15.28	0.02	154.49	--	--	--	--	--	--	--	--	b
4/8/2009	--		18.18	0.00	151.57	--	--	--	--	--	--	--	--	
5/28/2009	--		19.62	0.01	150.14	--	--	--	--	--	--	--	--	b
6/16/2009	--		20.94	0.01	148.82	--	--	--	--	--	--	--	--	
8/6/2009	--		22.31	0.01	147.45	--	--	--	--	--	--	--	--	b, j
3/4/2010	P		14.27	Sheen	155.48	14,000	45	<10	610	390	<10	0.54	6.96	
9/2/2010	NP		22.32	0.00	147.43	8,200	10	<5.0	230	140	<5.0	0.52	7.01	
3/15/2011	P		14.99	Sheen	154.76	4,500	<5.0	<5.0	56	30	16	0.85	7.0	t
8/17/2011	P		20.41	0.00	149.34	1,200	<1.0	<1.0	24	15	8.3	0.71	7.39	
<b>2/6/2012</b>	<b>P</b>		<b>18.69</b>	<b>0.00</b>	<b>151.06</b>	<b>710</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>2.9</b>	<b>2.2</b>	<b>10</b>	<b>0.78</b>	<b>7.34</b>	
<b>MW-2</b>														

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Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-2 Cont.</b>														
7/9/1990	--	168.14	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--		--	--	--	--	--	--	--	--	--	--	--	
3/7/1991	--		19.18	0.00	148.96	--	--	--	--	--	--	--	--	
4/1/1991	--		15.21	0.00	152.93	--	--	--	--	--	--	--	--	
6/27/1991	--		--	--	--	--	--	--	--	--	--	--	--	
9/27/1991	--		--	--	--	--	--	--	--	--	--	--	--	
12/18/1991	--		--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--		20.93	0.00	147.21	--	--	--	--	--	--	--	--	
10/5/1992	--		22.74	0.00	145.40	--	--	--	--	--	--	--	--	
1/13/1993	--		15.55	0.00	152.59	--	--	--	--	--	--	--	--	
4/23/1993	--		16.54	0.00	151.60	--	--	--	--	--	--	--	--	
7/12/1993	--		20.46	0.00	147.68	--	--	--	--	--	--	--	--	
10/21/1993	--		24.91	0.00	143.23	--	--	--	--	--	--	--	--	
1/21/1994	--		21.20	0.00	146.94	--	--	--	--	--	--	--	--	
4/20/1994	--		22.44	0.00	145.70	1,800	140	370	54	290	24	1.7	--	i
8/1/1994	--		22.24	0.00	145.90	--	--	--	--	--	--	--	--	
12/23/1994	--		16.25	0.00	151.89	--	--	--	--	--	--	--	--	
1/26/1995	--		14.55	0.00	153.59	--	--	--	--	--	--	--	--	
6/8/1995	--		21.18	0.00	146.96	--	--	--	--	--	--	--	--	
8/22/1995	--		22.76	0.00	145.38	--	--	--	--	--	--	--	--	
10/27/1995	--		23.61	0.00	144.53	--	--	--	--	--	--	--	--	
1/25/1996	--		15.95	0.00	152.19	--	--	--	--	--	--	--	--	
4/19/1996	--		17.33	0.00	150.81	--	--	--	--	--	--	--	--	
7/23/1996	--		21.25	0.00	146.89	--	--	--	--	--	--	--	--	
11/11/1996	--		22.27	0.00	145.87	--	--	--	--	--	--	--	--	
1/21/1997	--		15.19	0.00	152.95	--	--	--	--	--	--	--	--	
4/29/1997	--		20.22	0.00	147.92	--	--	--	--	--	--	--	--	
4/30/1997	--		--	--	--	130,000	4,600	15,000	6,000	37,000	<5000	5	--	
8/21/1997	--		21.74	0.00	146.40	110,000	6,000	16,000	4,700	28,000	<500	4.6	--	
11/5/1997	--		21.61	0.00	146.53	120,000	7,800	18,000	4,900	28,100	<2500	4.6	--	

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						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-2 Cont.</b>														
2/3/1998	--	168.14	11.51	0.00	156.63	75,000	590	1,500	1,800	12,800	<2500	4.5	--	
5/28/1998	--		16.51	0.00	151.63	79,000	3,900	3,100	3,100	18,000	900	4.3	--	
12/30/1998	--		17.70	0.00	150.44	95,000	4,700	3,500	3,700	21,000	<250	--	--	
2/2/1999	--		15.46	0.00	152.68	170,000	3,500	1,500	5,200	34,000	<500	--	--	
5/10/1999	--		16.52	0.00	151.62	84,000	3,200	3,200	3,700	20,000	75	--	--	
8/24/1999	--		20.73	0.00	147.41	130,000	9,100	9,200	4,700	27,000	<250	--	--	
11/3/1999	--		20.93	0.00	147.21	120,000	10,000	21,000	4,700	30,200	2,200	--	--	
3/1/2000	--		13.37	0.00	154.77	39,000	1,400	1,500	1,700	8,100	44	--	--	
4/21/2000	--		16.59	0.00	151.55	68,000	3,300	2,500	3,100	20,000	260	--	--	
7/31/2000	--		16.37	0.00	151.77	99,000	5,600	1,400	4,300	22,000	490	--	--	
11/20/2000	--		19.71	0.00	148.43	37,000	5,100	1,500	1,300	4,800	2,800	--	--	
2/18/2001	--		15.29	0.00	152.85	54,000	5,020	3,880	2,850	15,400	1,010	--	--	
6/7/2001	--		19.43	0.00	148.71	110,000	7,240	4,380	4,160	22,100	567	--	--	
9/5/2001	--		22.44	0.00	145.70	69,000	5,750	5,790	2,770	14,200	1,510	--	--	
11/30/2001	--		19.58	0.00	148.56	120,000	7,270	6,540	4,590	23,000	794	--	--	
2/20/2002	--		16.39	0.00	151.75	56,000	2,410	2,270	2,910	14,300	160	--	--	
6/20/2002	--		19.77	0.00	148.37	86,000	7,310	6,490	3,080	14,600	659	--	--	
9/11/2002	--		21.60	0.00	146.54	130,000	7,600	13,000	5,400	30,000	<5000	--	--	
11/12/2002	--		21.34	0.00	146.80	46,000	4,100	4,300	1,900	10,000	1,900	--	--	t
1/29/2003	--		16.80	0.00	151.34	77,000	4,700	2,600	2,800	13,000	820	--	--	n,t
5/22/2003	--		17.15	0.00	150.99	52,000	6,400	2,600	1,800	7,400	1,000	--	--	t
7/28/2003	--		21.47	0.00	146.67	31,000	6,900	5,500	2,200	12,000	1,700	--	--	p
11/18/2003	P		20.50	0.00	147.64	23,000	3,300	800	500	2,000	500	--	6.6	
02/23/2004	P		14.77	0.00	153.37	84,000	14,000	6,200	3,100	14,000	790	--	6.6	t
05/04/2004	P		20.09	0.00	148.05	120,000	15,000	17,000	4,900	24,000	780	--	6.6	t
08/04/2004	P		21.39	0.00	146.75	38,000	9,100	3,300	1,900	5,800	430	--	6.69	t
11/10/2004	P		18.98	0.00	149.16	22,000	4,400	2,000	940	3,600	310	--	7.5	
02/15/2005	P		15.62	0.00	152.52	67,000	11,000	4,200	3,000	11,000	690	--	7.1	t
05/16/2005	P		14.71	0.00	153.43	94,000	11,000	7,600	4,100	17,000	560	--	6.5	
08/17/2005	P		20.00	0.00	148.14	110,000	13,000	8,000	4,300	18,000	480	--	6.6	

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						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-2 Cont.</b>														
11/18/2005	P	168.14	20.89	0.00	147.25	37,000	11,000	2,400	1,500	4,600	340	--	6.6	
02/07/2006	P		13.31	0.00	154.83	74,000	8,900	5,800	3,600	14,000	440	--	6.7	
5/19/2006	P		16.30	0.00	151.84	78,000	11,000	3,700	4,500	14,000	430	--	6.6	t
8/23/2006	P		20.83	0.00	147.31	100,000	12,000	9,100	5,800	25,000	480	--	6.6	
11/15/2006	--		20.80	0.00	147.34	46,000	8,800	3,600	2,300	8,500	400	0.70	6.73	
2/14/2007	P		15.96	Sheen	152.18	100,000	13,000	3,600	6,200	26,000	810	1.43	6.97	t
5/22/2007	P		18.20	0.00	149.94	91,000	15,000	8,700	4,700	20,000	1,000	0.08	6.90	
8/15/2007	P		21.23	Sheen	146.91	14,000	7,300	130	280	600	260	4.24	6.78	
11/8/2007	P		20.32	0.00	147.82	22,000	7,400	420	640	1,700	240	1.21	7.03	
2/20/2008	--		15.20	0.06	152.99	--	--	--	--	--	--	--	--	b, j
5/7/2008	--		19.80	0.04	148.37	--	--	--	--	--	--	--	--	b, j
8/20/2008	--		21.70	0.01	146.45	--	--	--	--	--	--	--	--	b
11/17/2008	P		20.73	0.00	147.41	45,000	8,400	700	1,500	5,600	320	--	6.46	t, w
2/25/2009	P		14.15	0.00	153.99	18,000	5,200	<250	380	1,400	<250	2.11	6.50	
4/8/2009	--		17.00	0.00	151.14	--	--	--	--	--	--	--	--	
5/28/2009	P		18.43	Sheen	149.71	37,000	5,300	1,600	1,400	5,600	510	0.16	6.59	t, x
6/16/2009	--		19.80	0.01	148.35	--	--	--	--	--	--	--	--	
8/6/2009	--		21.17	0.01	146.98	--	--	--	--	--	--	--	--	b, j
3/4/2010	P		13.03	Sheen	155.11	18,000	9,500	270	510	1,400	350	1.28	6.80	
9/2/2010	NP		20.62	0.00	147.52	58,000	11,000	3,600	3,900	16,000	470	0.70	6.90	y
3/15/2011	P		13.70	Sheen	154.44	63,000	12,000	2,900	4,100	15,000	500	0.69	6.8	
8/17/2011	P		19.31	0.00	148.83	23,000	4,900	620	1,500	4,400	150	0.50	7.07	
<b>2/6/2012</b>	<b>P</b>		<b>17.49</b>	<b>0.00</b>	<b>150.65</b>	<b>26,000</b>	<b>6,400</b>	<b>200</b>	<b>1,700</b>	<b>3,400</b>	<b>360</b>	<b>0.91</b>	<b>7.08</b>	
<b>MW-3</b>														
7/9/1990	--	167.17	--	--	--	140	5.3	4.6	2	3.8	--	--	--	
12/21/1990	--		--	--	--	0.19	100	6	0.9	27	--	--	--	
3/7/1991	--		17.40	0.00	149.77	0.4	69	22	6.1	57	--	--	--	
4/1/1991	--		13.69	0.00	153.48	--	--	--	--	--	--	--	--	
6/27/1991	--		--	--	--	380	28	26	13	46	--	--	--	
9/27/1991	--		--	--	--	0.07	7.9	--	0.4	1.1	--	--	--	

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						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-3 Cont.</b>														
12/18/1991	--	167.17	--	--	--	0.26	34	24	0.8	28	--	--	--	
7/3/1992	--		19.59	0.00	147.58	71	9.4	0.9	5	13	--	--	--	
10/5/1992	--		21.22	0.00	145.95	<50	2.2	<0.5	1.5	2.8	--	--	--	c
10/5/1992	--		21.22	0.00	145.95	67	5.1	1.1	6.1	8.1	--	--	--	
1/13/1993	--		13.63	0.00	153.54	830	50	34	42	89	--	--	--	i
4/23/1993	--		15.02	0.00	152.15	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	c,i
4/23/1993	--		15.02	0.00	152.15	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
7/12/1993	--		19.16	0.00	148.01	250	12	4.2	12	16	<5.0	--	--	i
10/21/1993	--		21.81	0.00	145.36	65	7.4	1	6.9	4.2	--	--	--	c
10/21/1993	--		21.81	0.00	145.36	52	4.4	1.4	4.7	3.3	<5.0	--	--	i
1/21/1994	--		19.94	0.00	147.23	57	3	3.4	3.6	9	<5.0	--	--	i
4/20/1994	--		20.24	0.00	146.93	600	26	23	33	88	28.7	1.8	--	i
8/1/1994	--		20.74	0.00	146.43	120	7.7	1.6	5.9	6.7	5.43	--	--	c,i
8/1/1994	--		20.74	0.00	146.43	99	6.2	1.1	4.5	5.2	<5.0	1.4	--	i
12/23/1994	--		14.70	0.00	152.47	<50	<0.5	0.78	<0.5	<0.5	9.8	1.7	--	i
12/23/1994	--		14.70	0.00	152.47	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	c
1/26/1995	--		12.89	0.00	154.28	190	16	0.5	35	24	--	6.6	--	d
6/8/1995	--		19.95	0.00	147.22	330	21	4	34	32	--	7	--	
8/22/1995	--		21.41	0.00	145.76	150	14	<0.50	<0.50	1.6	<5.0	6.6	--	d
10/27/1995	--		22.43	0.00	144.74	--	--	--	--	--	--	--	--	
10/30/1995	--		--	--	--	51	2.4	<0.50	<0.50	<1.0	<5.0	6.9	--	
1/25/1996	--		14.03	0.00	153.14	<50	<0.50	<0.50	<0.50	<1.0	5.1	--	--	
4/19/1996	--		15.26	0.00	151.91	460	55	4	33	63	<10	9.4	--	
7/23/1996	--		19.19	0.00	147.98	<50	<0.5	<0.5	<0.5	<0.5	<10	9.2	--	
11/11/1996	--		20.24	0.00	146.93	<250	<2.5	<5.0	<5.0	<5.0	<50	8.4	--	
1/21/1997	--		13.09	0.00	154.08	<50	<0.5	<1.0	<1.0	<1.0	<10	5.4	--	
4/29/1997	--		18.14	0.00	149.03	<50	<0.5	<1.0	<1.0	<1.0	<10	4.3	--	
8/21/1997	--		19.64	0.00	147.53	<50	<0.5	<1.0	<1.0	<1.0	<10	4.9	--	
11/5/1997	--		19.95	0.00	147.22	<250	<2.5	<5.0	<5.0	<5.0	<50	4.5	--	
2/3/1998	--		10.57	0.00	156.60	<50	<0.50	<1.0	<1.0	<1.0	<10	4.7	--	



**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-3 Cont.</b>														
5/28/1998	--	167.17	14.65	0.00	152.52	330	<2.5	<5.0	<5.0	<5.0	<50	4.2	--	
12/30/1998	--		16.63	0.00	150.54	--	--	--	--	--	--	--	--	
2/2/1999	--		13.12	0.00	154.05	<250	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	
5/10/1999	--		14.21	0.00	152.96	--	--	--	--	--	--	--	--	
8/24/1999	--		14.36	0.00	152.81	--	--	--	--	--	--	--	--	
11/3/1999	--		19.21	0.00	147.96	--	--	--	--	--	--	--	--	
3/1/2000	--		15.17	0.00	152.00	<50	<0.5	0.57	<0.5	0.62	<0.5	--	--	
4/21/2000	--		14.88	0.00	152.29	--	--	--	--	--	--	--	--	
7/31/2000	--		15.29	0.00	151.88	--	--	--	--	--	--	--	--	
11/20/2000	--		17.31	0.00	149.86	--	--	--	--	--	--	--	--	
2/18/2001	--		12.85	0.00	154.32	160	1.95	1.31	10.2	9.09	1	--	--	
6/7/2001	--		18.00	0.00	149.17	--	--	--	--	--	--	--	--	
9/5/2001	--		20.32	0.00	146.85	--	--	--	--	--	--	--	--	
11/30/2001	--		16.94	0.00	150.23	--	--	--	--	--	--	--	--	
2/20/2002	--		14.84	0.00	152.33	86	<0.5	0.845	6.58	5.75	<0.5	--	--	
6/20/2002	--		18.40	0.00	148.77	--	--	--	--	--	--	--	--	
9/11/2002	--		20.06	0.00	147.11	--	--	--	--	--	--	--	--	
11/12/2002	--		19.84	0.00	147.33	--	--	--	--	--	--	--	--	
1/27/2003	--		14.83	0.00	152.34	850	20	9.7	24	45	0.76	--	--	n
5/22/2003	--		15.60	0.00	151.57	--	--	--	--	--	--	--	--	
7/28/2003	--		20.12	0.00	147.05	--	--	--	--	--	--	--	--	p
11/18/2003	--		19.15	0.00	148.02	--	--	--	--	--	--	--	--	
02/23/2004	--		13.53	0.00	153.64	160	<0.50	1.1	9.6	12	<0.50	--	6.7	
05/04/2004	--		18.61	0.00	148.56	--	--	--	--	--	--	--	--	
08/04/2004	--		19.21	0.00	147.96	--	--	--	--	--	--	--	--	
11/10/2004	--		17.48	0.00	149.69	--	--	--	--	--	--	--	--	
02/15/2005	P		14.31	0.00	152.86	500	7.8	1.8	9.2	9.6	1.7	--	7.5	
05/16/2005	--		13.11	0.00	154.06	--	--	--	--	--	--	--	--	
08/17/2005	--		18.53	0.00	148.64	--	--	--	--	--	--	--	--	
11/18/2005	--		19.34	0.00	147.83	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-3 Cont.</b>														
02/07/2006	P	167.17	11.64	0.00	155.53	65	<0.50	<0.50	1.4	2.3	<0.50	--	7.1	
5/19/2006	--		14.88	0.00	152.29	--	--	--	--	--	--	--	--	
8/23/2006	--		19.43	0.00	147.74	--	--	--	--	--	--	--	--	
11/15/2006	--		19.22	0.00	147.95	--	--	--	--	--	--	--	--	
2/14/2007	P		13.80	0.00	153.37	200	1.1	<0.50	5.9	3.2	3.8	0.68	7.52	
5/22/2007	--		16.80	0.00	150.37	--	--	--	--	--	--	--	--	
8/15/2007	--		19.87	0.00	147.30	--	--	--	--	--	--	--	--	
11/8/2007	--		19.27	0.00	147.90	--	--	--	--	--	--	--	--	
2/20/2008	P		13.58	0.00	153.59	240	1.1	<0.50	0.99	0.79	2.3	2.58	7.06	
5/7/2008	--		18.32	0.00	148.85	--	--	--	--	--	--	--	--	
8/20/2008	--		20.29	0.00	146.88	--	--	--	--	--	--	--	--	
11/17/2008	--		19.35	0.00	147.82	--	--	--	--	--	--	--	--	
2/25/2009	P		11.77	0.00	155.40	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.45	7.09	
5/28/2009	--		17.02	0.00	150.15	--	--	--	--	--	--	--	--	
8/6/2009	--		19.87	0.00	147.30	--	--	--	--	--	--	--	--	
3/4/2010	P		10.79	0.00	156.38	<50	<0.50	<0.50	<0.50	<1.0	<0.50	3.16	7.06	
9/2/2010	--		19.32	0.00	147.85	--	--	--	--	--	--	--	--	
3/15/2011	P		11.77	0.00	155.40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	3.14	7.2	
8/17/2011	--		17.98	0.00	149.19	--	--	--	--	--	--	--	--	
<b>2/6/2012</b>	<b>--</b>		<b>15.92</b>	<b>0.00</b>	<b>151.25</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	
<b>MW-4</b>														
7/9/1990	--	170.36	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--		--	--	--	--	--	--	--	0.8	--	--	--	
3/7/1991	--		20.72	0.00	149.64	--	2.2	3.8	1.5	2.8	--	--	--	
4/1/1991	--		17.49	0.00	152.87	--	--	--	--	--	--	--	--	
6/27/1991	--		--	--	--	--	6.3	1.8	0.4	1	--	--	--	
9/27/1991	--		--	--	--	--	--	--	--	--	--	--	--	
12/18/1991	--		--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--		22.16	0.00	148.20	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
10/5/1992	--		23.38	0.00	146.98	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses**  
**Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-4 Cont.</b>														
1/13/1993	--	170.36	17.58	0.00	152.78	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
4/23/1993	--		15.72	0.00	154.64	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
7/12/1993	--		21.74	0.00	148.62	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	i
10/21/1993	--		23.84	0.00	146.52	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	i
1/21/1994	--		22.42	0.00	147.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	i
4/20/1994	--		22.66	0.00	147.70	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.2	--	i
8/1/1994	--		23.01	0.00	147.35	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.9	--	i
12/23/1994	--		17.03	0.00	153.33	--	--	--	--	--	--	--	--	
1/26/1995	--		17.42	0.00	152.94	<50	<0.5	<0.5	<0.5	<1	--	7.5	--	
6/8/1995	--		21.55	0.00	148.81	--	--	--	--	--	--	--	--	
8/22/1995	--		23.47	0.00	146.89	<50	<0.50	<0.50	<0.50	<1.0	<5.0	6.4	--	d
10/27/1995	--		24.50	0.00	145.86	--	--	--	--	--	--	--	--	
1/25/1996	--		18.74	0.00	151.62	<50	<0.50	<0.50	<0.50	<1.0	58	--	--	
4/19/1996	--		18.63	0.00	151.73	--	--	--	--	--	--	--	--	
7/23/1996	--		22.56	0.00	147.80	--	--	--	--	--	--	--	--	
11/11/1996	--		23.63	0.00	146.73	<50	<1.0	<1.0	<1.0	<1.0	34	8.2	--	
1/21/1997	--		16.59	0.00	153.77	--	--	--	--	--	--	--	--	
4/29/1997	--		21.43	0.00	148.93	<50	<0.5	<1.0	<1.0	<1.0	<10	4.7	--	
8/21/1997	--		22.91	0.00	147.45	--	--	--	--	--	--	--	--	
11/5/1997	--		22.34	0.00	148.02	60	<0.5	<1.0	<1.0	<1.0	76	4.9	--	
2/3/1998	--		12.26	0.00	158.10	--	--	--	--	--	--	--	--	
5/28/1998	--		18.50	0.00	151.86	70	<0.5	<1.0	<1.0	<1.0	160	4.2	--	
12/30/1998	--		19.69	0.00	150.67	--	--	--	--	--	--	--	--	
2/2/1999	--		18.26	0.00	152.10	70	<1.0	<1.0	<1.0	<1.0	130	--	--	
5/10/1999	--		17.86	0.00	152.50	--	--	--	--	--	--	--	--	
8/24/1999	--		17.93	0.00	152.43	--	--	--	--	--	--	--	--	
11/3/1999	--		22.78	0.00	147.58	--	--	--	--	--	--	--	--	
3/1/2000	--		18.04	0.00	152.32	<50	<0.5	0.67	<0.5	0.7	110	--	--	
4/21/2000	--		17.36	0.00	153.00	--	--	--	--	--	--	--	--	
7/31/2000	--		17.83	0.00	152.53	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-4 Cont.</b>														
11/20/2000	--	170.36	18.91	0.00	151.45	--	--	--	--	--	--	--	--	
2/18/2001	--		17.72	0.00	152.64	88	<0.5	<0.5	<0.5	<0.5	97.3	--	--	
6/7/2001	--		20.23	0.00	150.13	--	--	--	--	--	--	--	--	
9/5/2001	--		22.76	0.00	147.60	--	--	--	--	--	--	--	--	
11/30/2001	--		21.30	0.00	149.06	--	--	--	--	--	--	--	--	
2/20/2002	--		19.32	0.00	151.04	76	<0.5	<0.5	<0.5	<1.0	81	--	--	
6/20/2002	--		20.71	0.00	149.65	--	--	--	--	--	--	--	--	
9/11/2002	--		22.22	0.00	148.14	--	--	--	--	--	--	--	--	
11/12/2002	--		22.22	0.00	148.14	--	--	--	--	--	--	--	--	
1/29/2003	--		19.80	0.00	150.56	100	<0.5	<0.5	<0.5	<0.5	66	--	--	n
5/22/2003	--		19.35	0.00	151.01	--	--	--	--	--	--	--	--	
7/28/2003	--		22.18	0.00	148.18	--	--	--	--	--	--	--	--	p
11/18/2003	--		21.65	0.00	148.71	--	--	--	--	--	--	--	--	
02/23/2004	P		17.53	0.00	152.83	75	<0.50	<0.50	<0.50	<0.50	65	--	6.8	
05/04/2004	--		20.62	0.00	149.74	--	--	--	--	--	--	--	--	
08/04/2004	--		21.30	0.00	149.06	--	--	--	--	--	--	--	--	
11/10/2004	--		20.65	0.00	149.71	--	--	--	--	--	--	--	--	
02/15/2005	P		18.91	0.00	151.45	<50	<0.50	<0.50	<0.50	<0.50	62	--	7.6	
05/16/2005	--		17.34	0.00	153.02	--	--	--	--	--	--	--	--	
08/17/2005	--		21.31	0.00	149.05	--	--	--	--	--	--	--	--	
11/18/2005	--		21.67	0.00	148.69	--	--	--	--	--	--	--	--	
02/07/2006	P		16.74	0.00	153.62	100	<0.50	<0.50	1.0	3.0	29	--	6.8	
5/19/2006	--		18.22	0.00	152.14	--	--	--	--	--	--	--	--	
8/23/2006	--		20.95	0.00	149.41	--	--	--	--	--	--	--	--	
11/15/2006	--		22.21	0.00	148.15	--	--	--	--	--	--	--	--	
2/14/2007	P		18.25	0.00	152.11	<50	<0.50	<0.50	<0.50	<0.50	61	0.95	7.34	
5/22/2007	--		20.16	0.00	150.20	--	--	--	--	--	--	--	--	
8/15/2007	--		22.34	0.00	148.02	--	--	--	--	--	--	--	--	
11/8/2007	--		21.86	0.00	148.50	--	--	--	--	--	--	--	--	
2/20/2008	P		17.74	0.00	152.62	<50	<0.50	<0.50	<0.50	<0.50	36	2.13	6.93	

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Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-4 Cont.</b>														
5/7/2008	--	170.36	21.38	0.00	148.98	--	--	--	--	--	--	--	--	
8/20/2008	--		22.44	0.00	147.92	--	--	--	--	--	--	--	--	
11/17/2008	--		22.20	0.00	148.16	--	--	--	--	--	--	--	--	
2/25/2009	P		16.81	0.00	153.55	<50	<0.50	<0.50	<0.50	<0.50	26	2.80	6.83	
5/28/2009	--		20.37	0.00	149.99	--	--	--	--	--	--	--	--	
8/6/2009	--		22.46	0.00	147.90	--	--	--	--	--	--	--	--	
3/4/2010	P		17.11	Sheen	153.25	<50	<0.50	<0.50	<0.50	<1.0	34	0.63	6.80	
9/2/2010	--		20.63	0.00	149.73	--	--	--	--	--	--	--	--	
3/15/2011	P		16.47	0.00	153.89	<50	<0.50	<0.50	<0.50	<1.0	26	1.05	6.9	
8/17/2011	--		20.94	0.00	149.42	--	--	--	--	--	--	--	--	
<b>2/6/2012</b>	<b>P</b>		<b>19.65</b>	<b>0.00</b>	<b>150.71</b>	<b>&lt;50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>32</b>	<b>1.06</b>	<b>7.28</b>	
<b>MW-5</b>														
7/9/1990	--	165.14	--	--	--	280	200	210	46	290	--	--	--	
12/21/1990	--		--	--	--	0.69	300	34	8.4	39	--	--	--	
3/7/1991	--		16.60	0.00	148.54	--	17	0.9	0.7	1.6	--	--	--	
4/1/1991	--		11.99	0.00	153.15	800	250	54	11	60	--	--	--	
6/27/1991	--		--	--	--	330	120	10	12	8	--	--	--	
9/27/1991	--		--	--	--	0.73	230	16	20	22	--	--	--	
12/18/1991	--		--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--		18.65	0.00	146.49	150	36	<0.5	<0.5	1.1	--	--	--	
10/5/1992	--		20.32	0.00	144.82	270	79	4	1.7	2.9	--	--	--	
1/13/1993	--		13.03	0.00	152.11	180	59	6	1.8	7.6	--	--	--	i
4/23/1993	--		13.51	0.00	151.63	8,700	440	96	35	136	--	--	--	i
7/12/1993	--		18.06	0.00	147.08	250	57	2.9	2.1	6	<5.0	--	--	i
10/21/1993	--		20.41	0.00	144.73	210	82	1.5	<0.5	1.4	--	--	--	i
1/21/1994	--		18.86	0.00	146.28	110	36	1.2	<0.5	0.7	<5.0	--	--	i
4/20/1994	--		17.30	0.00	147.84	690	230	4.5	1.6	11	21.2	1.3	--	i
8/1/1994	--		17.53	0.00	147.61	170	44	1.6	0.9	2.7	<5.0	0.9	--	i
12/23/1994	--		11.63	0.00	153.51	630	180	1.9	0.66	1.9	7.81	1.4	--	i
1/26/1995	--		11.25	0.00	153.89	160	68	<0.5	<0.5	22	--	5.9	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-5 Cont.</b>														
6/8/1995	--	165.14	16.80	0.00	148.34	1,700	560	51	55	170	--	--	--	c
6/8/1995	--		16.80	0.00	148.34	2,000	630	58	61	180	--	6.5	--	
8/22/1995	--		19.02	0.00	146.12	3,700	1,100	18	27	59	<130	7.3	--	d
10/27/1995	--		20.94	0.00	144.20	--	--	--	--	--	--	--	--	
10/30/1995	--		--	--	--	6,500	2,200	55	180	270	<250	7.5	--	
1/25/1996	--		13.30	0.00	151.84	540	37	0.66	<0.50	<1.0	<5.0	--	--	c
1/25/1996	--		13.30	0.00	151.84	590	37	0.7	<0.50	<1.0	<5.0	--	--	
4/19/1996	--		13.63	0.00	151.51	1,500	470	38	49	210	<50	8.1	--	
7/23/1996	--		17.61	0.00	147.53	140	4.6	<0.5	<0.5	<0.5	<10	8	--	
11/11/1996	--		18.70	0.00	146.44	140	40	<1.0	<1.0	<1.0	<10	7.9	--	
1/21/1997	--		11.63	0.00	153.51	730	300	<5.0	7.8	26	<50	5	--	
4/29/1997	--		16.74	0.00	148.40	340	530	<5.0	<5.0	<5.0	<50	4.8	--	
8/21/1997	--		18.26	0.00	146.88	<50	<0.5	<1.0	<1.0	<1.0	<10	4.9	--	
11/5/1997	--		18.84	0.00	146.30	120	13	<1.0	<1.0	<1.0	<10	4.4	--	
2/3/1998	--		9.49	0.00	155.65	<50	<0.50	<1.0	<1.0	<1.0	<10	4.3	--	
5/28/1998	--		13.57	0.00	151.57	4,900	1,500	34	180	311	<10	4.1	--	
12/30/1998	--		14.65	0.00	150.49	--	--	--	--	--	--	--	--	
2/2/1999	--		12.56	0.00	152.58	100	<1.0	<1.0	<1.0	<1.0	9.1	--	--	
5/10/1999	--		13.36	0.00	151.78	--	--	--	--	--	--	--	--	
8/24/1999	--		13.50	0.00	151.64	--	--	--	--	--	--	--	--	
11/3/1999	--		18.48	0.00	146.66	--	--	--	--	--	--	--	--	
3/1/2000	--		9.59	0.00	155.55	<50	<0.5	0.58	<0.5	0.54	2.9	--	--	
4/21/2000	--		13.52	0.00	151.62	--	--	--	--	--	--	--	--	
7/31/2000	--		14.04	0.00	151.10	--	--	--	--	--	--	--	--	
11/20/2000	--		15.89	0.00	149.25	--	--	--	--	--	--	--	--	
2/18/2001	--		11.88	0.00	153.26	560	161	2.38	6.11	13	5.67	--	--	
6/7/2001	--		15.30	0.00	149.84	--	--	--	--	--	--	--	--	
9/5/2001	--		19.32	0.00	145.82	--	--	--	--	--	--	--	--	
11/30/2001	--		17.44	0.00	147.70	--	--	--	--	--	--	--	--	
2/20/2002	--		13.88	0.00	151.26	4,200	940	18.7	98.2	176	55.6	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-5 Cont.</b>														
6/20/2002	--	165.14	16.20	0.00	148.94	--	--	--	--	--	--	--	--	
9/11/2002	--		19.15	0.00	145.99	--	--	--	--	--	--	--	--	
11/12/2002	--		19.01	0.00	146.13	390	55	0.89	3.4	3.5	210	--	--	
1/29/2003	--		16.33	0.00	148.81	7,900	1,400	34	220	350	82	--	--	n
5/22/2003	--		14.35	0.00	150.79	9,900	2,300	91	400	690	<50	--	--	
7/28/2003	--		18.90	0.00	146.24	3,200	690	14	81	100	120	--	--	p
11/18/2003	--		--	--	--	--	--	--	--	--	--	--	--	Well inaccessible e, q
02/23/2004	P		12.21	0.00	152.93	7,500	1,500	100	190	350	100	--	6.7	
05/04/2004	P		17.12	0.00	148.02	5,900	1,500	57	200	280	42	--	6.6	
08/04/2004	P		19.05	0.00	146.09	<2,500	<25	<25	<25	<25	390	--	6.69	
11/10/2004	P		16.95	0.00	148.19	870	80	<5.0	<5.0	<5.0	530	--	7.5	
02/15/2005	P		12.75	0.00	152.39	1,600	330	8.0	37	67	260	--	7.2	
05/16/2005	P		15.46	0.00	149.68	<500	<5.0	<5.0	<5.0	<5.0	370	--	6.7	
08/17/2005	P		17.00	0.00	148.14	7,000	1,000	17	110	130	51	--	6.6	
11/18/2005	P		18.33	0.00	146.81	1,900	91	<5.0	33	29	340	--	7.3	
02/07/2006	P		10.27	0.00	154.87	2,100	590	9.6	86	110	200	--	6.7	
5/19/2006	P		13.08	0.00	152.06	3,200	720	9.7	150	170	44	--	6.8	
8/23/2006	P		17.02	0.00	148.12	1,400	69	<5.0	20	24	230	--	7.11	
11/15/2006	P		18.30	0.00	146.84	1,100	24	<2.5	10	8.6	490	0.85	6.82	
2/14/2007	P		13.16	0.00	151.98	680	110	<2.5	16	11	420	2.54	7.24	
5/22/2007	P		15.42	0.00	149.72	2,800	660	8.8	74	100	26	1.41	7.03	
8/15/2007	P		18.80	0.00	146.34	2,800	50	<10	26	29	280	3.81	7.14	
11/8/2007	P		18.55	Sheen	146.59	3,800	77	<2.5	46	35	270	1.08	7.23	t
2/20/2008	P		12.21	0.00	152.93	2,500	530	<5.0	75	62	43	2.01	6.84	
5/7/2008	P		16.91	0.00	148.23	6,700	1,800	29	270	360	30	2.45	6.87	t
8/20/2008	P		19.45	0.00	145.69	300	22	<2.0	8.5	5.3	260	5.57	6.86	
11/17/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
2/25/2009	P		11.12	0.00	154.02	140	6.4	<0.50	2.4	3.1	68	4.38	6.65	
5/28/2009	P		15.70	0.00	149.44	3,800	790	9.5	140	110	11	0.04	6.82	x
8/6/2009	P		18.84	Sheen	146.30	78	<5.0	<5.0	<5.0	<5.0	190	0.06	7.27	x

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-5 Cont.</b>														
3/4/2010	P	165.14	10.02	0.00	155.12	1,200	420	5.5	69	58	15	0.66	6.87	
9/2/2010	NP		16.24	0.00	148.90	200	69	1.3	3.2	7.3	13	0.75	6.75	y
3/15/2011	P		11.36	0.00	153.78	1,700	410	7.9	88	80	5.9	0.85	6.8	
8/17/2011	P		16.62	0.00	148.52	1,900	460	7.6	44	51	<5.0	0.61	7.11	
<b>2/6/2012</b>	<b>P</b>		<b>14.36</b>	<b>0.00</b>	<b>150.78</b>	<b>580</b>	<b>140</b>	<b>&lt;5.0</b>	<b>9.2</b>	<b>&lt;10</b>	<b>9.8</b>	<b>1.31</b>	<b>7.21</b>	
<b>MW-6</b>														
7/9/1990	--	165.40	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--		--	--	--	0.17	2.6	7	4.9	26	--	--	--	
3/7/1991	--		--	--	--	--	--	--	--	--	--	--	--	e
4/1/1991	--		11.79	0.00	153.61	--	--	--	--	--	--	--	--	
6/27/1991	--		--	--	--	--	--	--	--	--	--	--	--	e
9/27/1991	--		--	--	--	--	--	--	--	--	--	--	--	e
12/18/1991	--		--	--	--	--	1.3	22	--	2.7	--	--	--	
7/3/1992	--		17.77	0.00	147.63	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
10/5/1992	--		19.46	0.00	145.94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
1/13/1993	--		11.34	0.00	154.06	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
4/23/1993	--		12.92	0.00	152.48	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
7/12/1993	--		17.36	0.00	148.04	<50	<0.5	<0.5	<0.5	0.7	<5.0	--	--	i
10/21/1993	--		19.98	0.00	145.42	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
1/21/1994	--		18.10	0.00	147.30	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	i
4/20/1994	--		18.68	0.00	146.72	<50	<0.5	<0.5	<0.5	<0.5	17.4	2	--	i
8/1/1994	--		18.90	0.00	146.50	<50	<0.5	<0.5	<0.5	<0.5	8.66	1.5	--	i
12/23/1994	--		12.94	0.00	152.46	--	--	--	--	--	--	--	--	
1/26/1995	--		10.46	0.00	154.94	<50	<0.5	<0.5	<0.5	<1	--	7.3	--	
6/8/1995	--		16.84	0.00	148.56	--	--	--	--	--	--	--	--	
8/22/1995	--		19.48	0.00	145.92	<50	<0.50	<0.50	<0.50	<1.0	<5.0	6.7	--	d
10/27/1995	--		20.39	0.00	145.01	--	--	--	--	--	--	--	--	
1/25/1996	--		12.24	0.00	153.16	<50	<0.50	<0.50	<0.50	<1.0	9.9	--	--	
4/19/1996	--		13.90	0.00	151.50	--	--	--	--	--	--	--	--	
7/23/1996	--		17.83	0.00	147.57	--	--	--	--	--	--	--	--	



**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-6 Cont.</b>														
11/11/1996	--	165.40	18.90	0.00	146.50	<50	<0.5	<1.0	<1.0	<1.0	<10	7.7	--	
1/21/1997	--		11.97	0.00	153.43	--	--	--	--	--	--	--	--	
4/29/1997	--		17.04	0.00	148.36	<50	<0.5	<1.0	<1.0	<1.0	<10	4.5	--	
8/21/1997	--		18.58	0.00	146.82	--	--	--	--	--	--	--	--	
11/5/1997	--		19.17	0.00	146.23	70	<0.5	<1.0	<1.0	<1.0	85	4.3	--	
2/3/1998	--		9.87	0.00	155.53	--	--	--	--	--	--	--	--	
5/28/1998	--		13.38	0.00	152.02	<50	<0.5	<1.0	<1.0	<1.0	<10	3.7	--	
12/30/1998	--		14.45	0.00	150.95	--	--	--	--	--	--	--	--	
2/2/1999	--		18.29	0.00	147.11	--	--	--	--	--	--	--	--	
5/10/1999	--		17.49	0.00	147.91	--	--	--	--	--	--	--	--	
8/24/1999	--		17.61	0.00	147.79	--	--	--	--	--	--	--	--	
11/3/1999	--		16.26	0.00	149.14	--	--	--	--	--	--	--	--	
3/1/2000	--		17.43	0.00	147.97	--	--	--	--	--	--	--	--	
4/21/2000	--		13.32	0.00	152.08	--	--	--	--	--	--	--	--	
7/31/2000	--		13.46	0.00	151.94	--	--	--	--	--	--	--	--	
11/20/2000	--		14.78	0.00	150.62	--	--	--	--	--	--	--	--	
2/18/2001	--		11.33	0.00	154.07	--	--	--	--	--	--	--	--	
6/7/2001	--		16.36	0.00	149.04	--	--	--	--	--	--	--	--	
9/5/2001	--		18.61	0.00	146.79	--	--	--	--	--	--	--	--	
11/30/2001	--		15.20	0.00	150.20	--	--	--	--	--	--	--	--	
2/20/2002	--		12.74	0.00	152.66	--	--	--	--	--	--	--	--	
6/20/2002	--		16.68	0.00	148.72	--	--	--	--	--	--	--	--	
9/11/2002	--		18.38	0.00	147.02	--	--	--	--	--	--	--	--	
11/12/2002	--		18.78	0.00	146.62	--	--	--	--	--	--	--	--	
1/29/2003	--		14.45	0.00	150.95	--	--	--	--	--	--	--	--	n
5/22/2003	--		14.36	0.00	151.04	--	--	--	--	--	--	--	--	
7/28/2003	--		18.43	0.00	146.97	--	--	--	--	--	--	--	--	p
11/18/2003	--		17.48	0.00	147.92	--	--	--	--	--	--	--	--	
02/23/2004	--		11.54	0.00	153.86	--	--	--	--	--	--	--	--	
05/04/2004	--		16.58	0.00	148.82	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses**  
**Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-6 Cont.</b>														
08/04/2004	--	165.40	18.12	0.00	147.28	--	--	--	--	--	--	--	--	
11/10/2004	--		15.75	0.00	149.65	--	--	--	--	--	--	--	--	
02/15/2005	--		12.50	0.00	152.90	--	--	--	--	--	--	--	--	
05/16/2005	P		11.51	0.00	153.89	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	7.0	
08/17/2005	--		16.85	0.00	148.55	--	--	--	--	--	--	--	--	
11/18/2005	--		--	--	--	--	--	--	--	--	--	--	--	e
02/07/2006	P		9.93	0.00	155.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	7.1	
5/19/2006	--		--	--	--	--	--	--	--	--	--	--	--	e
8/23/2006	--		16.35	0.00	149.05	--	--	--	--	--	--	--	--	
11/15/2006	--		17.42	0.00	147.98	--	--	--	--	--	--	--	--	
2/14/2007	P		12.03	0.00	153.37	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.07	7.73	
5/22/2007	--		15.11	0.00	150.29	--	--	--	--	--	--	--	--	
8/15/2007	--		18.08	0.00	147.32	--	--	--	--	--	--	--	--	
11/8/2007	--		17.79	0.00	147.61	--	--	--	--	--	--	--	--	
2/20/2008	P		11.81	0.00	153.59	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.29	7.10	
5/7/2008	--		16.75	0.00	148.65	--	--	--	--	--	--	--	--	
8/20/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
11/17/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
2/25/2009	P		9.99	0.00	155.41	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.39	7.09	
5/28/2009	--		--	--	--	--	--	--	--	--	--	--	--	e
8/6/2009	--		18.33	0.00	147.07	--	--	--	--	--	--	--	--	
3/4/2010	P		9.11	0.00	156.29	<50	<0.50	<0.50	<0.50	<1.0	<0.50	0.88	7.01	
9/2/2010	--		17.80	0.00	147.60	--	--	--	--	--	--	--	--	
3/15/2011	P		10.08	0.00	155.32	<50	<0.50	<0.50	<0.50	<1.0	<0.50	1.43	7.1	
8/17/2011	--		16.50	0.00	148.90	--	--	--	--	--	--	--	--	
<b>2/6/2012</b>	--		<b>14.44</b>	<b>0.00</b>	<b>150.96</b>	--	--	--	--	--	--	--	--	
<b>MW-7</b>														
7/9/1990	--	167.61	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--		--	--	--	--	--	--	--	--	--	--	--	
3/7/1991	--		19.04	0.00	148.57	--	--	0.4	0.3	2.4	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-7 Cont.</b>														
4/1/1991	--	167.61	15.18	0.00	152.43	--	--	--	--	--	--	--	--	
6/27/1991	--		--	--	--	70	17	4	0.8	2.2	--	--	--	
9/27/1991	--		--	--	--	--	0.4	--	--	0.4	--	--	--	
12/18/1991	--		--	--	--	--	0.7	2.9	0.8	3.3	--	--	--	
7/3/1992	--		20.28	0.00	147.33	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
10/5/1992	--		21.56	0.00	146.05	<50	<0.5	<0.5	<0.5	1.5	--	--	--	
1/13/1993	--		15.41	0.00	152.20	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
4/23/1993	--		15.84	0.00	151.77	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
7/12/1993	--		19.84	0.00	147.77	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	i
10/21/1993	--		21.61	0.00	146.00	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
1/21/1994	--		20.49	0.00	147.12	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	c
1/21/1994	--		20.49	0.00	147.12	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	i
4/20/1994	--		20.54	0.00	147.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.5	--	i
8/1/1994	--		20.99	0.00	146.62	<50	0.7	<0.5	<0.5	<0.5	<5.0	1.9	--	i
12/23/1994	--		15.00	0.00	152.61	--	--	--	--	--	--	--	--	
1/26/1995	--		14.69	0.00	152.92	<50	<0.5	<0.5	<0.5	<1	--	7	--	
6/8/1995	--		19.87	0.00	147.74	--	--	--	--	--	--	--	--	
8/22/1995	--		21.49	0.00	146.12	<50	<0.50	<0.50	<0.50	<1.0	<5.0	6.4	--	d
10/27/1995	--		22.53	0.00	145.08	--	--	--	--	--	--	--	--	
1/25/1996	--		17.21	0.00	150.40	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	
4/19/1996	--		17.09	0.00	150.52	--	--	--	--	--	--	--	--	
7/23/1996	--		21.02	0.00	146.59	--	--	--	--	--	--	--	--	
11/11/1996	--		22.03	0.00	145.58	<50	<0.5	<1.0	<1.0	<1.0	<10	7.8	--	
1/21/1997	--		15.06	0.00	152.55	--	--	--	--	--	--	--	--	
4/29/1997	--		20.11	0.00	147.50	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	--	
8/21/1997	--		21.59	0.00	146.02	--	--	--	--	--	--	--	--	
11/5/1997	--		20.05	0.00	147.56	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	--	
2/3/1998	--		9.97	0.00	157.64	--	--	--	--	--	--	--	--	
5/28/1998	--		13.52	0.00	154.09	<50	<0.5	<1.0	<1.0	<1.0	<10	4.3	--	
12/30/1998	--		18.33	0.00	149.28	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-7 Cont.</b>														
2/2/1999	--	167.61	12.33	0.00	155.28	--	--	--	--	--	--	--	--	
5/10/1999	--		13.52	0.00	154.09	--	--	--	--	--	--	--	--	
8/24/1999	--		14.01	0.00	153.60	--	--	--	--	--	--	--	--	
11/3/1999	--		19.91	0.00	147.70	--	--	--	--	--	--	--	--	
3/1/2000	--		19.89	0.00	147.72	--	--	--	--	--	--	--	--	
4/21/2000	--		17.94	0.00	149.67	--	--	--	--	--	--	--	--	
7/31/2000	--		17.33	0.00	150.28	--	--	--	--	--	--	--	--	
11/20/2000	--		18.41	0.00	149.20	--	--	--	--	--	--	--	--	
2/18/2001	--		15.13	0.00	152.48	--	--	--	--	--	--	--	--	
6/7/2001	--		18.75	0.00	148.86	--	--	--	--	--	--	--	--	
9/5/2001	--		20.48	0.00	147.13	--	--	--	--	--	--	--	--	
11/30/2001	--		20.11	0.00	147.50	--	--	--	--	--	--	--	--	
2/20/2002	--		18.40	0.00	149.21	--	--	--	--	--	--	--	--	
6/20/2002	--		18.62	0.00	148.99	--	--	--	--	--	--	--	--	
9/11/2002	--		20.05	0.00	147.56	--	--	--	--	--	--	--	--	
11/12/2002	--		21.13	0.00	146.48	--	--	--	--	--	--	--	--	n
1/29/2003	--		19.10	0.00	148.51	--	--	--	--	--	--	--	--	
5/22/2003	--		18.83	0.00	148.78	--	--	--	--	--	--	--	--	
7/28/2003	--		19.88	0.00	147.73	--	--	--	--	--	--	--	--	p
11/18/2003	--	168.08	20.50	0.00	147.58	--	--	--	--	--	--	--	--	s
11/18/2003	--		20.50	0.00	147.58	--	--	--	--	--	--	--	--	
02/23/2004	--		15.92	0.00	152.16	--	--	--	--	--	--	--	--	
05/04/2004	--		18.86	0.00	149.22	--	--	--	--	--	--	--	--	
08/04/2004	--		19.10	0.00	148.98	--	--	--	--	--	--	--	--	
11/10/2004	--		20.25	0.00	147.83	--	--	--	--	--	--	--	--	
02/15/2005	--		16.37	0.00	151.71	--	--	--	--	--	--	--	--	
05/16/2005	--		--	--	--	--	--	--	--	--	--	--	--	e
08/17/2005	--		19.74	0.00	148.34	--	--	--	--	--	--	--	--	
11/18/2005	--		20.82	0.00	147.26	--	--	--	--	--	--	--	--	
02/07/2006	P		14.26	0.00	153.82	<500	<5.0	<5.0	<5.0	<5.0	270	--	7.3	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-7 Cont.</b>														
5/19/2006	--	168.08	16.51	0.00	151.57	--	--	--	--	--	--	--	--	
8/23/2006	--		20.30	0.00	147.78	--	--	--	--	--	--	--	--	
11/15/2006	--		20.85	0.00	147.23	--	--	--	--	--	--	--	--	
2/14/2007	P		16.57	0.00	151.51	520	<5.0	<5.0	<5.0	<5.0	740	3.08	7.30	v
5/22/2007	--		18.40	0.00	149.68	--	--	--	--	--	--	--	--	
8/15/2007	--		20.85	0.00	147.23	--	--	--	--	--	--	--	--	
11/8/2007	--		20.41	0.00	147.67	--	--	--	--	--	--	--	--	
2/20/2008	P		15.90	0.00	152.18	<50	<0.50	<0.50	<0.50	<0.50	700	4.34	7.09	
5/7/2008	--		19.41	0.00	148.67	--	--	--	--	--	--	--	--	
8/20/2008	--		21.34	0.00	146.74	--	--	--	--	--	--	--	--	
11/17/2008	--		20.54	0.00	147.54	--	--	--	--	--	--	--	--	
2/25/2009	P		14.89	0.00	153.19	130	<20	<20	<20	<20	540	4.28	6.87	
5/28/2009	--		18.57	0.00	149.51	--	--	--	--	--	--	--	--	
8/6/2009	--		20.83	0.00	147.25	--	--	--	--	--	--	--	--	
3/4/2010	P		14.02	0.00	154.06	430	<0.50	<0.50	<0.50	<1.0	920	3.30	7.02	
9/2/2010	--		20.43	0.00	147.65	--	--	--	--	--	--	--	--	
3/15/2011	P		14.86	0.00	153.22	<1,000	<0.50	<0.50	<0.50	<1.0	990	4.05	7.0	
8/17/2011	--		19.01	0.00	149.07	--	--	--	--	--	--	--	--	
<b>2/6/2012</b>	<b>P</b>		<b>18.20</b>	<b>0.00</b>	<b>149.88</b>	<b>&lt;50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>22</b>	<b>1.58</b>	<b>7.44</b>	
<b>MW-8</b>														
3/7/1991	--	165.74	16.72	0.00	149.02	2.7	780	450	64	310	--	--	--	
4/1/1991	--		12.54	0.00	153.20	15,000	3,600	2,600	410	1,900	--	--	--	
6/27/1991	--		--	--	--	12,000	3,400	1,100	240	750	--	--	--	
9/27/1991	--		--	--	--	41	5,700	5,200	1,100	4,300	--	--	--	
12/18/1991	--		--	--	--	3.2	990	150	120	250	--	--	--	
7/3/1992	--		18.78	0.00	146.96	72,000	19,000	32,000	3,000	15,000	--	--	--	
10/5/1992	--		20.48	0.00	145.26	--	--	--	--	--	--	--	--	
1/13/1993	--		12.87	0.00	152.87	--	--	--	--	--	--	--	--	
4/23/1993	--		13.90	0.00	151.84	--	--	--	--	--	--	--	--	t
7/12/1993	--		18.30	0.00	147.44	--	--	--	--	--	--	--	--	t

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-8 Cont.</b>														
10/21/1993	--	165.74	21.91	0.00	142.88	--	--	--	--	--	--	--	--	
10/2/93-12/9/98	--		--	0.12	--	--	--	--	--	--	--	--	--	
1/21/1994	--		19.12	0.00	146.62	--	--	--	--	--	--	--	--	
4/20/1994	--		19.28	0.00	146.46	26,000	1,700	4,100	960	4,000	632	1.1	--	i
8/1/1994	--		--	--	--	--	--	--	--	--	--	--	--	
12/23/1994	--		13.81	0.00	151.93	--	--	--	--	--	--	--	--	
1/26/1995	--		--	--	--	--	--	--	--	--	--	--	--	
6/8/1995	--		17.82	0.00	147.92	--	--	--	--	--	--	--	--	
8/22/1995	--		19.41	0.00	146.33	--	--	--	--	--	--	--	--	
10/27/1995	--		20.47	0.00	145.27	--	--	--	--	--	--	--	--	
1/25/1996	--		13.35	0.00	152.39	--	--	--	--	--	--	--	--	
4/19/1996	--		14.40	0.00	151.34	--	--	--	--	--	--	--	--	
7/23/1996	--		18.35	0.00	147.39	--	--	--	--	--	--	--	--	
11/11/1996	--		19.41	0.00	146.33	--	--	--	--	--	--	--	--	
1/21/1997	--		12.29	0.00	153.45	--	--	--	--	--	--	--	--	
4/29/1997	--		--	--	--	--	--	--	--	--	--	--	--	e
8/21/1997	--		19.61	0.00	146.13	240,000	1,100	9,300	4,100	31,100	<1000	5.2	--	
11/5/1997	--		19.45	0.00	146.29	57,000	790	2,700	2,300	15,200	<1000	5	--	
2/3/1998	--		9.33	0.00	156.41	--	--	--	--	--	--	--	--	
2/4/1998	--		--	--	--	94,000	570	1,500	2,100	15,200	<2500	5.5	--	
5/28/1998	--		--	--	--	--	--	--	--	--	--	--	--	e
12/30/1998	--		15.48	0.00	150.26	120,000	460	2,300	2,200	15,000	150	--	--	
2/2/1999	--		18.29	0.00	147.45	82,000	450	2,200	3,700	26,000	<500	--	--	
5/10/1999	--		15.62	0.00	150.12	28,000	740	1,800	1,100	5,800	<25	--	--	
8/24/1999	--		18.41	0.00	147.33	75,000	530	1,400	3,300	21,000	150	--	--	
11/3/1999	--		18.71	0.00	147.03	70,000	600	1,300	3,600	20,500	750	--	--	
3/1/2000	--		19.37	0.00	146.37	27,000	1,600	1,200	2,600	6,600	120	--	--	
4/21/2000	--		--	--	--	--	--	--	--	--	--	--	--	e
7/31/2000	--		--	--	--	--	--	--	--	--	--	--	--	e
11/20/2000	--		17.42	0.00	148.32	1,300,000	1,400	1,700	20,000	16,000	5,700	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-8 Cont.</b>														
2/18/2001	--	165.74	--	--	--	--	--	--	--	--	--	--	--	e
6/7/2001	--		--	--	--	--	--	--	--	--	--	--	--	e
9/5/2001	--		21.45	0.04	144.25	--	--	--	--	--	--	--	--	j
11/30/2001	--		18.31	0.00	147.43	--	--	--	--	--	--	--	--	h
12/6/2001	--		--	--	--	--	--	--	--	--	--	--	--	e
2/20/2002	--		14.02	0.00	151.72	20,000	163	114	403	3,810	80.4	--	--	
6/20/2002	--		17.56	0.00	148.18	28,000	466	141	962	5,850	2,520	--	--	
9/11/2002	--		19.45	0.00	146.29	190,000	1,500	670	4,500	23,000	1,200	--	--	
11/12/2002	--		19.15	0.00	146.59	420	6.4	2.9	16	110	31	--	--	t
1/29/2003	--		15.02	0.00	150.72	200,000	810	<500	2,000	11,000	<500	--	--	n
5/22/2003	--		15.07	0.00	150.67	--	--	--	--	--	--	--	--	t
6/24/2003	--		17.95	0.00	147.79	43,000	860	300	2,100	9,600	46	--	--	
7/28/2003	--		19.45	0.00	146.29	62,000	690	230	1,800	15,000	2,100	--	--	
8/12/2003	--		19.40	<0.01	146.34	--	--	--	--	--	--	--	--	o,t
9/12/2003	--		19.34	0.00	146.40	--	--	--	--	--	--	--	--	o
10/3/2003	--		--	<0.01	--	--	--	--	--	--	--	--	--	
11/18/2003	P		18.80	<0.01	146.94	8,800	500	37	530	930	1,700	--	--	o,p
12/31/2003	--		--	<0.01	--	--	--	--	--	--	--	--	--	
2/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
02/23/2004	P		12.82	<0.01	152.92	32,000	840	360	1,000	7,100	110	--	6.6	t
3/18/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
4/13/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
05/04/2004	P		18.87	<0.01	146.87	42,000	570	230	1,700	8,400	2,000	--	7.0	t
6/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
08/04/2004	--		19.37	0.05	146.41	--	--	--	--	--	--	--	--	
09/22/2004	NP		19.60	0.00	146.14	--	--	--	--	--	--	--	--	
11/10/2004	P		16.58	0.00	149.16	11,000	790	61	1,000	830	74	--	7.3	t
02/15/2005	P		12.85	0.00	152.89	38,000	1,300	390	2,300	7,900	<50	--	7.2	
05/16/2005	P		12.22	0.00	153.52	31,000	1,000	360	2,500	7,500	<50	--	6.5	
08/17/2005	P		17.80	0.00	147.94	60,000	540	240	2,500	8,600	<50	--	6.7	

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Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-8 Cont.</b>														
11/18/2005	P	165.74	21.02	0.00	144.72	33,000	340	120	1,400	4,900	140	--	6.9	
02/07/2006	P		10.73	0.00	155.01	5,700	94	27	260	820	7.5	--	6.6	
5/19/2006	P		13.89	0.00	151.85	40,000	1,100	320	2,900	6,000	<25	--	6.6	t
8/23/2006	P		18.85	0.00	146.89	21,000	520	150	1,800	6,300	82	--	7.35	
11/15/2006	P		18.75	0.00	146.99	3,300	81	<25	130	430	110	0.81	6.91	
2/14/2007	P		13.45	Sheen	152.29	9,300	320	<25	360	710	82	1.89	7.13	t
5/22/2007	P		15.92	Sheen	149.82	17,000	370	51	760	1,600	11	1.05	6.99	t
8/15/2007	P		19.11	Sheen	146.63	17,000	170	44	1,000	2,700	28	3.93	7.08	
11/8/2007	P		18.46	Sheen	147.28	24,000	150	43	1,100	3,200	27	1.29	7.14	t
2/20/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
5/7/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
8/20/2008	--		19.66	0.01	146.09	--	--	--	--	--	--	--	--	b
11/17/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
2/25/2009	P		11.50	Sheen	154.24	3,400	160	11	88	65	35	2.18	6.98	t
4/8/2009	--		14.55	0.00	151.19	--	--	--	--	--	--	--	--	
5/28/2009	P		16.12	Sheen	149.62	8,300	410	54	660	800	<2.5	0.06	6.78	t, x
6/16/2009	--		17.63	0.00	148.11	--	--	--	--	--	--	--	--	
8/6/2009	--		--	--	--	--	--	--	--	--	--	--	--	e
3/4/2010	P		10.33	0.00	155.41	11,000	520	110	830	1,600	<5.0	0.82	6.72	
9/2/2010	P		18.52	0.00	147.22	6,900	180	24	280	480	<5.0	0.56	6.75	
3/15/2011	P		11.03	Sheen	154.71	14,000	470	150	1,400	3,000	<2.5	0.90	6.6	
8/17/2011	P		17.14	0.00	148.60	4,100	180	24	280	340	<5.0	0.61	7.08	
<b>2/6/2012</b>	<b>P</b>		<b>15.07</b>	<b>0.00</b>	<b>150.67</b>	<b>5,100</b>	<b>140</b>	<b>18</b>	<b>210</b>	<b>220</b>	<b>&lt;5.0</b>	<b>0.91</b>	<b>7.17</b>	
<b>MW-9</b>														
3/7/1991	--	166.20	16.79	0.00	149.41	7.1	220	4	2.4	2,400	--	--	--	
4/1/1991	--		12.89	0.00	153.31	12,000	2,000	2,600	360	1,600	--	--	--	
6/27/1991	--		--	--	--	3,600	520	400	85	310	--	--	--	
9/27/1991	--		--	--	--	3.2	720	150	50	180	--	--	--	
12/18/1991	--		--	--	--	--	2.5	1.1	0.3	5.8	--	--	--	
7/3/1992	--		18.89	0.00	147.31	5,700	17,000	840	230	800	--	--	--	



**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-9 Cont.</b>														
10/5/1992	--	166.20	20.52	0.00	145.68	1,400	440	17	14	100	--	--	--	
1/13/1993	--		12.92	0.00	153.28	11,000	1,200	1,600	330	1,300	--	--	--	c,i
1/13/1993	--		12.92	0.00	153.28	11,000	1,200	1,700	340	1,400	--	--	--	i
4/23/1993	--		14.08	0.00	152.12	24,000	2,800	4,500	730	3,400	--	--	--	i
7/12/1993	--		18.44	0.00	147.76	10,000	1,200	900	310	1,200	--	--	--	c
7/12/1993	--		18.44	0.00	147.76	13,000	1,400	1,100	360	1,400	20.8	--	--	i
10/21/1993	--		21.81	0.00	143.50	--	--	--	--	--	--	--	--	
11/2/93-4/29/97	--		--	0.10	--	--	--	--	--	--	--	--	--	
1/21/1994	--		19.28	0.00	146.92	--	--	--	--	--	--	--	--	
4/20/1994	--		19.72	0.00	146.48	45,000	2,700	6,800	1,200	8,200	740	--	--	c,d
4/20/1994	--		19.72	0.00	146.48	43,000	2,800	6,800	1,300	7,900	768	1.7	--	i
8/1/1994	--		20.18	0.00	146.02	--	--	--	--	--	--	--	--	
12/23/1994	--		14.22	0.00	151.98	--	--	--	--	--	--	--	--	
1/26/1995	--		11.85	0.00	154.35	--	--	--	--	--	--	--	--	
6/8/1995	--		18.33	0.00	147.87	--	--	--	--	--	--	--	--	
8/22/1995	--		19.95	0.00	146.25	--	--	--	--	--	--	--	--	
10/27/1995	--		20.88	0.00	145.32	--	--	--	--	--	--	--	--	
1/25/1996	--		13.84	0.00	152.36	--	--	--	--	--	--	--	--	
4/19/1996	--		--	--	--	--	--	--	--	--	--	--	--	e
7/23/1996	--		18.84	0.00	147.36	--	--	--	--	--	--	--	--	
11/11/1996	--		19.91	0.00	146.29	--	--	--	--	--	--	--	--	
1/21/1997	--		12.93	0.00	153.27	--	--	--	--	--	--	--	--	
4/29/1997	--		18.03	0.10	148.17	--	--	--	--	--	--	--	--	t
4/30/1997	--		--	--	--	78,000	1,900	3,600	3,100	20,600	<5000	5.5	--	
8/21/1997	--		19.56	0.00	146.64	110,000	2,100	3,400	2,300	18,800	<500	5.1	--	
11/5/1997	--		20.59	0.01	145.60	59,000	1,400	1,700	2,200	17,000	<500	4.5	--	
2/3/1998	--		10.56	0.00	155.64	55,000	490	1,200	1,400	10,200	<1000	4.9	--	
5/28/1998	--		14.21	0.00	151.99	53,000	290	830	1,400	10,500	<500	--	--	c
5/28/1998	--		14.21	0.00	151.99	41,000	250	1,200	1,500	11,400	<250	3.8	--	
12/30/1998	--		15.61	0.00	150.59	83,000	860	1,300	2,400	21,000	180	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-9 Cont.</b>														
2/2/1999	--	166.20	12.33	0.00	153.87	75,000	530	960	1,900	17,000	<50	--	--	
5/10/1999	--		15.67	0.00	150.53	22,000	600	1,500	1,100	4,400	72	--	--	
8/24/1999	--		19.10	0.00	147.10	85,000	850	1,300	1,700	20,000	<250	--	--	
11/3/1999	--		19.58	0.00	146.62	72,000	700	780	1,900	19,000	<5.0	--	--	
3/1/2000	--		13.19	0.00	153.01	34,000	78	490	1,100	8,200	63	--	--	
4/21/2000	--		14.29	0.00	151.91	55,000	260	920	1,500	16,000	<5.0	--	--	
7/31/2000	--		15.01	0.00	151.19	1,200,000	1,500	6,300	15,000	120,000	1,600	--	--	
11/20/2000	--		18.23	0.00	147.97	320,000	3,500	19,000	5,000	40,000	3,900	--	--	
2/18/2001	--		13.14	0.00	153.06	32,000	290	417	1,180	10,400	121	--	--	
6/7/2001	--		17.41	0.00	148.79	96,000	421	704	2,330	17,300	223	--	--	
9/5/2001	--		20.56	0.00	145.64	39,000	445	323	1,240	8,940	310	--	--	
11/30/2001	--		17.42	0.00	148.78	60,000	310	586	1,890	14,200	285	--	--	
2/20/2002	--		13.87	0.00	152.33	14,000	64	122	897	2,650	293	--	--	
6/20/2002	--		18.22	0.00	147.98	29,000	307	168	1,100	5,670	208	--	--	
9/11/2002	--		20.27	0.00	145.93	230,000	1,400	680	3,600	23,000	<2500	--	--	
11/12/2002	--		19.40	0.00	146.80	840	5.8	3.6	28	160	21	--	--	t
1/29/2003	--		14.30	0.10	151.80	--	--	--	--	--	--	--	--	j,n
5/22/2003	--		15.16	0.00	151.04	23,000	260	<50	1,000	2,900	<50	--	--	t
6/24/2003	--		--	--	--	--	--	--	--	--	--	--	--	e
7/28/2003	--		19.55	<0.01	146.65	1,500,000	<500	<500	9,800	79,000	<500	--	--	
8/12/2003	--		19.60	<0.01	146.60	--	--	--	--	--	--	--	--	o,t
9/12/2003	--		19.60	<0.01	146.60	--	--	--	--	--	--	--	--	o,t
11/18/2003	P		18.98	<0.01	147.22	19,000	250	18	690	2,400	45	--	6.8	o,p
12/31/2003	--		--	<0.01	--	--	--	--	--	--	--	--	--	
2/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
02/23/2004	P		13.91	<0.01	152.29	91,000	<250	440	2,200	13,000	<250	--	6.8	t
3/18/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
4/13/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
05/04/2004	P		18.11	<0.01	148.09	39,000	230	44	1,100	4,200	<25	--	6.9	t
6/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-9 Cont.</b>														
08/04/2004	--	166.20	18.90	0.03	147.32	--	--	--	--	--	--	--	--	
09/22/2004	NP		19.69	0.00	146.51	--	--	--	--	--	--	--	--	
11/10/2004	NP		16.95	0.00	149.25	31,000	300	<50	1,100	3,800	<50	--	7.3	t
02/15/2005	P		12.95	0.00	153.25	19,000	200	<50	720	2,000	<50	--	7.3	t
05/16/2005	P		12.53	0.00	153.67	17,000	99	15	770	2,500	<10	--	6.7	
08/17/2005	P		18.03	0.00	148.17	28,000	160	26	1,000	2,700	<12	--	6.8	
11/18/2005	P		19.04	0.00	147.16	12,000	98	<5.0	410	510	19	--	7.1	
02/07/2006	P		10.95	Sheen	155.25	18,000	110	8.7	770	1,500	<5.0	--	6.9	t
5/19/2006	--		--	--	--	--	--	--	--	--	--	--	--	e
8/23/2006	P		18.91	0.00	147.29	28,000	84	<50	1,600	6,200	<50	--	7.3	
11/15/2006	P		18.60	0.00	147.60	8,200	44	<25	190	370	26	0.92	6.88	
2/14/2007	P		13.30	0.00	152.90	20,000	64	<25	720	2,000	<25	0.87	7.17	t
5/22/2007	P		16.14	Sheen	150.06	16,000	80	<25	460	1,200	<25	0.81	7.08	t
8/15/2007	P		19.31	Sheen	146.89	5,900	27	<2.5	59	170	27	2.57	6.98	
11/8/2007	P		18.70	0.00	147.50	6,100	29	<5.0	98	250	52	1.24	7.47	
2/20/2008	--		12.79	0.03	153.43	--	--	--	--	--	--	--	--	b, j
5/7/2008	--		17.68	0.03	148.54	--	--	--	--	--	--	--	--	b, j
8/20/2008	--		19.75	0.01	146.46	--	--	--	--	--	--	--	--	b
11/17/2008	P		18.73	0.00	147.47	10,000	24	<2.5	160	140	33	--	6.64	w
2/25/2009	P		11.23	Sheen	154.97	14,000	60	<10	550	140	<10	2.27	6.69	t
4/8/2009	--		14.21	0.00	151.99	--	--	--	--	--	--	--	--	
5/28/2009	P		16.33	Sheen	149.87	15,000	49	<10	790	1,500	<10	0.07	6.83	t, x
6/16/2009	--		17.82	0.01	148.39	--	--	--	--	--	--	--	--	
8/6/2009	P		19.25	Sheen	146.95	6,800	19	<2.0	120	250	18	0.00	7.26	x
3/4/2010	P		10.32	0.00	155.88	6,000	29	<2.5	<2.5	100	<2.5	0.62	6.84	
9/2/2010	NP		18.72	0.00	147.48	5,700	31	<2.5	160	120	<2.5	0.46	6.85	
3/15/2011	P		11.08	0.00	155.12	6,500	17	<2.5	150	73	<2.5	1.07	6.8	
8/17/2011	--		17.35	0.00	148.85	5,200	9.5	<2.5	71	54	<2.5	0.64	7.18	
<b>2/6/2012</b>	<b>P</b>		<b>15.52</b>	<b>0.00</b>	<b>150.68</b>	<b>4,200</b>	<b>14</b>	<b>&lt;2.5</b>	<b>49</b>	<b>22</b>	<b>&lt;2.5</b>	<b>1.43</b>	<b>7.21</b>	
<b>MW-10</b>														

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-10 Cont.</b>														
3/7/1991	--	167.01	18.09	0.00	148.92	1.6	120	190	32	230	--	--	--	
4/1/1991	--		13.92	0.00	153.09	--	--	--	--	--	--	--	--	
6/27/1991	--		--	--	--	12,000	7,300	500	150	300	--	--	--	
9/27/1991	--		--	--	--	57	12,000	7,200	1,400	4,600	--	--	--	
12/18/1991	--		--	--	--	5.3	2,500	120	36	79	--	--	--	
7/3/1992	--		19.92	0.00	147.09	8,600	5,100	1,300	180	690	--	--	--	
10/5/1992	--		21.92	0.00	145.09	--	--	--	--	--	--	--	--	
1/13/1993	--		14.43	0.00	152.58	--	--	--	--	--	--	--	--	
4/23/1993	--		15.26	0.00	151.75	--	--	--	--	--	--	--	--	
7/12/1993	--		19.78	0.00	147.23	--	--	--	--	--	--	--	--	
10/21/1993	--		22.90	0.00	144.11	--	--	--	--	--	--	--	--	
1/21/1994	--		20.25	0.00	146.76	--	--	--	--	--	--	--	--	
4/20/1994	--		20.74	0.00	146.27	100,000	12,000	24,000	2,400	14,000	1,577	1	--	d,i
8/1/1994	--		22.00	0.00	145.01	--	--	--	--	--	--	--	--	
12/23/1994	--		16.08	0.00	150.93	--	--	--	--	--	--	--	--	
1/26/1995	--		13.68	0.00	153.33	--	--	--	--	--	--	--	--	
6/8/1995	--		19.08	0.00	147.93	--	--	--	--	--	--	--	--	
8/22/1995	--		20.73	0.00	146.28	--	--	--	--	--	--	--	--	
10/27/1995	--		21.69	0.00	145.32	--	--	--	--	--	--	--	--	
1/25/1996	--		15.05	0.00	151.96	--	--	--	--	--	--	--	--	
4/19/1996	--		16.26	0.00	150.75	--	--	--	--	--	--	--	--	
7/23/1996	--		20.18	0.00	146.83	--	--	--	--	--	--	--	--	
9/4/1996	--		--	0.76	--	--	--	--	--	--	--	--	--	
11/11/1996	--		21.20	0.00	145.81	--	--	--	--	--	--	--	--	
1/21/1997	--		13.66	0.00	153.35	--	--	--	--	--	--	--	--	
4/29/1997	--		18.71	0.00	148.30	--	--	--	--	--	--	--	--	
4/30/1997	--		--	--	--	170,000	9,700	38,000	4,700	30,500	<5000	5.6	--	
8/21/1997	--		20.19	0.00	146.82	170,000	9,500	35,000	4,300	27,100	<5000	5.3	--	
11/5/1997	--		20.52	0.00	146.49	80,000	3,800	12,000	2,700	15,700	<500	4.4	--	
12/2/1997	--		--	0.03	--	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-10 Cont.</b>														
2/3/1998	--	167.01	10.62	0.00	156.39	--	--	--	--	--	--	--	--	
2/4/1998	--		--	--	--	72,000	500	1,300	1,700	12,000	<1000	5.1	--	
5/28/1998	--		15.46	0.00	151.55	220,000	3,200	24,000	5,200	43,000	<1000	4.8	--	
12/30/1998	--		16.65	0.00	150.36	110,000	3,500	14,000	5,800	50,000	<50	--	--	
2/2/1999	--		14.58	0.00	152.43	74,000	1,000	2,800	1,000	26,000	860	--	--	
5/10/1999	--		15.72	0.00	151.29	81,000	2,800	2,800	3,000	17,000	220	--	--	
8/24/1999	--		19.85	0.00	147.16	54,000	3,500	3,800	1,500	9,100	<250	--	--	
11/3/1999	--		20.00	0.00	147.01	30,000	3,000	3,500	1,200	5,000	31	--	--	
3/1/2000	--		14.62	0.00	152.39	62,000	320	1,200	1,100	26,000	4,400	--	--	
4/21/2000	--		15.46	0.00	151.55	88,000	2,700	7,400	3,700	35,000	2,400	--	--	
7/31/2000	--		--	--	--	--	--	--	--	--	--	--	--	e
11/20/2000	--		18.74	0.00	148.27	78,000	3,800	5,500	2,800	13,000	450	--	--	
2/18/2001	--		14.10	0.00	152.91	39,000	1,050	1,160	1,550	14,700	4,180	--	--	
6/7/2001	--		18.78	0.00	148.23	76,000	2,460	2,840	3,330	20,700	635	--	--	
9/5/2001	--		21.40	0.01	145.60	25,000	2,510	2,070	1,090	4,540	189	--	--	
11/30/2001	--		18.50	0.00	148.51	100,000	2,480	5,720	3,890	22,800	325	--	--	
2/20/2002	--		14.39	0.00	152.62	49,000	2,170	3,070	1,960	12,300	1,090	--	--	
6/20/2002	--		18.80	0.00	148.21	44,000	2,040	3,050	1,690	8,430	224	--	--	
9/11/2002	--		20.52	0.00	146.49	28,000	1,200	2,700	1,400	6,800	<250	--	--	
11/12/2002	--		20.37	0.07	146.57	--	--	--	--	--	--	--	--	j
1/29/2003	--		16.33	0.03	150.65	--	--	--	--	--	--	--	--	j,n
5/22/2003	--		16.32	0.00	150.69	13,000	2,100	850	630	1,600	300	--	--	t
6/24/2003	--		18.73	0.04	148.24	--	--	--	--	--	--	--	--	o
7/28/2003	--		20.39	0.04	146.58	--	--	--	--	--	--	--	--	j
8/12/2003	--		20.43	<0.01	146.58	--	--	--	--	--	--	--	--	o,t
9/12/2003	--		20.41	0.00	146.60	--	--	--	--	--	--	--	--	o
10/3/2003	--		--	<0.01	--	--	--	--	--	--	--	--	--	
11/18/2003	P		19.55	<0.01	147.46	9,900	2,200	530	320	860	<50	--	6.8	o,p
12/31/2003	--		--	<0.01	--	--	--	--	--	--	--	--	--	
2/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-10 Cont.</b>														
02/23/2004	P	167.01	15.45	<0.01	151.56	46,000	1,900	2,000	1,800	9,000	180	--	6.7	t
3/18/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
4/13/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
05/04/2004	P		18.81	<0.01	148.20	35,000	3,100	3,600	1,400	5,600	<25	--	7.1	t
6/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
7/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
08/04/2004	--		18.90	0.00	148.11	--	--	--	--	--	--	--	--	
09/22/2004	NP		20.60	0.00	146.41	--	--	--	--	--	--	--	--	
11/10/2004	P		17.95	0.00	149.06	9,800	470	91	450	1,700	230	--	7.3	t
01/13/2005	--		12.21	0.00	154.80	--	--	--	--	--	--	--	--	
02/15/2005	P		14.19	0.00	152.82	30,000	510	330	1,800	7,200	77	--	7.2	
05/16/2005	P		13.85	0.00	153.16	37,000	540	730	2,100	9,200	<50	--	6.7	
08/17/2005	P		19.01	0.00	148.00	15,000	1,100	420	1,200	4,100	<50	--	6.7	
11/18/2005	P		19.95	0.00	147.06	12,000	1,200	240	550	1,300	16	--	6.8	
02/07/2006	P		12.28	Sheen	154.73	22,000	340	580	1,300	4,500	73	--	6.8	t
5/19/2006	P		15.12	0.00	151.89	40,000	690	430	2,600	4,900	<25	--	6.9	t
8/23/2006	P		20.00	0.00	147.01	13,000	1,500	540	1,200	3,000	<10	--	6.97	
11/15/2006	P		19.84	0.00	147.17	3,800	700	22	67	160	54	0.65	6.78	
2/14/2007	P		14.94	Sheen	152.07	37,000	350	120	2,400	8,100	120	2.12	7.05	t
5/22/2007	P		17.17	Sheen	149.84	13,000	810	130	750	2,200	15	0.06	7.10	t
8/15/2007	P		20.30	Sheen	146.71	4,400	550	38	160	310	<10	3.09	7.09	
11/8/2007	P		19.58	Sheen	147.43	13,000	970	130	480	1,600	6.0	1.47	7.95	t
2/20/2008	--		14.27	0.05	152.78	--	--	--	--	--	--	--	--	b, j
5/7/2008	P		18.61	0.00	148.40	16,000	970	150	770	2,000	<20	2.18	6.98	t
8/20/2008	--		20.71	0.01	146.31	--	--	--	--	--	--	--	--	b
11/17/2008	P		19.71	0.00	147.30	10,000	960	57	270	720	23	--	6.54	t, w
2/25/2009	P		13.10	0.00	153.91	2,900	53	14	69	160	170	4.06	6.68	
4/8/2009	--		15.91	0.00	151.10	--	--	--	--	--	--	--	--	
5/28/2009	P		17.37	Sheen	149.64	15,000	640	280	790	2,500	65	0.03	6.69	t, x
6/16/2009	--		18.79	0.01	148.23	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-10 Cont.</b>														
8/6/2009	P	167.01	20.19	Sheen	146.82	23,000	850	490	1,200	4,100	<25	0.06	7.23	x
3/4/2010	P		12.32	Sheen	154.69	12,000	71	72	740	1,800	<2.5	0.56	6.81	
9/2/2010	--		19.63	0.02	147.40	--	--	--	--	--	--	--	--	b, j
3/15/2011	--		13.20	0.01	153.82	--	--	--	--	--	--	--	--	b, j
8/17/2011	P		18.27	0.00	148.74	4,000	780	39	250	290	<5.0	0.44	7.18	
2/6/2012	P		<b>16.32</b>	<b>0.00</b>	<b>150.69</b>	<b>6,300</b>	<b>1,100</b>	<b>39</b>	<b>340</b>	<b>470</b>	<b>&lt;5.0</b>	<b>0.71</b>	<b>7.21</b>	
<b>QC-2</b>														
10/5/1992	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f
1/13/1993	--		--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f,i
4/23/1993	--		--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f,i
7/12/1993	--		--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f
10/21/1993	--		--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f
1/21/1994	--		--	--	--	<50	<0.5	2.1	<0.5	2.1	--	--	--	f
4/20/1994	--		--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f
12/23/1994	--		--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f
1/26/1995	--		--	--	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	f
6/8/1995	--		--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	f
8/22/1995	--		--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	d,f
10/30/1995	--		--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	f
1/25/1996	--		--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	f
4/19/1996	--		--	--	--	<50	<0.5	<1	<1	<1	<10	--	--	f
<b>RW-1</b>														
7/9/1990	--	168.01	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--		--	--	--	--	--	--	--	--	--	--	--	
3/7/1991	--		17.62	0.00	150.39	--	--	--	--	--	--	--	--	t
4/1/1991	--		14.40	0.00	153.61	--	--	--	--	--	--	--	--	
6/27/1991	--		--	--	--	--	--	--	--	--	--	--	--	
9/27/1991	--		--	--	--	--	--	--	--	--	--	--	--	
12/18/1991	--		--	--	--	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>RW-1 Cont.</b>														
7/3/1992	--	168.01	20.66	0.00	147.35	--	--	--	--	--	--	--	--	t
10/5/1992	--		23.34	0.00	144.67	--	--	--	--	--	--	--	--	
1/13/1993	--		16.59	0.00	151.42	--	--	--	--	--	--	--	--	
4/23/1993	--		16.17	0.00	151.84	--	--	--	--	--	--	--	--	
7/12/1993	--		20.18	0.00	147.83	--	--	--	--	--	--	--	--	
10/21/1993	--		25.70	0.00	142.31	--	--	--	--	--	--	--	--	
1/21/1994	--		21.24	0.00	146.77	--	--	--	--	--	--	--	--	
4/20/1994	--		32.20	0.00	135.81	--	--	--	--	--	--	--	--	
8/1/1994	--		21.70	0.00	146.31	29,000	580	950	300	7,800	1,200	1.1	--	d
12/23/1994	--		16.02	0.00	151.99	1,300	25	8.6	1.4	69	616	1.8	--	i
1/26/1995	--		13.78	0.00	154.23	<50	<0.5	<0.5	<0.5	<1	--	--	--	
1/26/1995	--		13.78	0.00	154.23	<50	<0.5	<0.5	<0.5	<1	--	--	--	c
6/8/1995	--		20.05	0.00	147.96	1,300	130	<1.0	<1.0	36	--	--	--	
8/22/1995	--		21.74	0.00	146.27	2,800	210	9.3	4.3	250	<25	--	--	c
8/22/1995	--		21.74	0.00	146.27	3,300	230	13	4.9	280	<25	6.6	--	d
10/27/1995	--		32.00	0.00	136.01	--	--	--	--	--	--	--	--	
10/30/1995	--		--	--	--	240	1.6	<1.0	<1.0	<2.0	630	--	--	c
10/30/1995	--		--	--	--	230	1.4	<1.0	<1.0	<2.0	650	6.9	--	
1/25/1996	--		15.41	0.00	152.60	15,000	3,400	930	330	2,500	5,300	--	--	
4/19/1996	--		16.83	0.00	151.18	35,000	5,500	3,300	1,700	9,400	14,000	7.6	--	
4/19/1996	--		16.83	0.00	151.18	33,000	5,600	3,200	1,700	8,800	15,000	--	--	c
7/23/1996	--		20.76	0.00	147.25	47,000	3,700	2,500	930	5,300	35,000	--	--	c
7/23/1996	--		20.76	0.00	147.25	46,000	3,600	2,300	900	5,100	36,000	7.4	--	
11/11/1996	--		21.73	0.00	146.28	31,000	2,900	1,000	860	4,600	22,000	--	--	c
11/11/1996	--		21.73	0.00	146.28	34,000	3,000	1,200	880	4,600	22,000	8.3	--	
1/21/1997	--		14.20	0.00	153.81	270	42	17	2.7	36	1,500	--	--	c
1/21/1997	--		14.20	0.00	153.81	260	40	16	2.7	34	1,500	6.1	--	
4/29/1997	--		19.15	0.00	148.86	32,000	3,100	590	1,300	6,000	46,000	5.3	--	
8/21/1997	--		20.67	0.00	147.34	7,600	730	58	370	1,780	9,500	4.7	--	
11/5/1997	--		21.01	0.00	147.00	39,000	2,300	86	1,300	3,840	56,000	4.5	--	



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Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>RW-1 Cont.</b>														
2/3/1998	--	168.01	10.68	0.00	157.33	3,400	31	11	29	161	3,200	5.1	--	
5/28/1998	--		15.55	0.00	152.46	2,000	90	15	60	305	2,700	4.3	--	
12/30/1998	--		17.35	0.00	150.66	--	--	--	--	--	--	--	--	
2/2/1999	--		14.58	0.00	153.43	82,000	2,300	120	2,000	3,200	51000/78000	--	--	g
5/10/1999	--		16.00	0.00	152.01	15,000	620	88	340	660	61,000	--	--	
8/24/1999	--		20.00	0.00	148.01	52,000	1,400	170	2,200	2,900	37,000	--	--	
11/3/1999	--		20.39	0.00	147.62	17,000	2,500	86	1,500	970	54,000	--	--	
3/1/2000	--		12.97	0.00	155.04	17,000	580	78	790	1,100	13,000	--	--	
4/21/2000	--		16.02	0.00	151.99	31,000	2,100	100	1,400	1,100	39,000	--	--	
7/31/2000	--		21.89	0.00	146.12	47,000	1,300	170	2,700	2,300	30,000	--	--	
11/20/2000	--		19.15	0.00	148.86	--	--	--	--	--	--	--	--	h
2/18/2001	--		15.35	0.00	152.66	14,000	589	89	600	712	13,000	--	--	
6/7/2001	--		19.09	0.00	148.92	28,000	1,140	68.2	504	530	19,100	--	--	
9/5/2001	--		22.06	0.02	145.93	--	--	--	--	--	--	--	--	j
11/30/2001	--		19.53	0.00	148.48	20,000	405	39.4	545	740	8,260	--	--	
2/20/2002	--		15.99	0.00	152.02	13,000	469	29	434	655	7,240	--	--	
6/20/2002	--		19.31	0.00	148.70	--	--	--	--	--	--	--	--	j,l
9/11/2002	--		21.07	0.03	146.91	--	--	--	--	--	--	--	--	j
11/12/2002	--		20.92	0.02	147.07	--	--	--	--	--	--	--	--	j
1/29/2003	--		16.31	0.04	151.66	--	--	--	--	--	--	--	--	j,n
5/22/2003	--		16.68	0.00	151.33	--	--	--	--	--	--	--	--	j,t
6/24/2003	--		19.76	0.07	148.18	--	--	--	--	--	--	--	--	o
7/28/2003	--		21.04	0.04	146.93	--	--	--	--	--	--	--	--	j
8/12/2003	--		21.41	<0.01	146.60	--	--	--	--	--	--	--	--	o,t
9/12/2003	--		21.10	0.07	146.84	--	--	--	--	--	--	--	--	o
10/3/2003	--		--	0.03	--	--	--	--	--	--	--	--	--	
11/18/2003	P		20.10	<0.01	147.91	12,000	770	<50	320	250	6,100	--	6.6	o,p
12/31/2003	--		--	<0.01	--	--	--	--	--	--	--	--	--	
02/23/2004	--		14.35	0.01	153.67	--	--	--	--	--	--	--	--	
3/18/2004	--		--	0.09	--	--	--	--	--	--	--	--	--	

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Former BP Station #11132, 3201 35th Ave, Oakland, CA**

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						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>RW-1 Cont.</b>														
4/13/2004	--	168.01	--	0.02	--	--	--	--	--	--	--	--	--	
05/04/2004	--		19.58	0.02	148.45	--	--	--	--	--	--	--	--	
6/2/2004	--		--	0.05	--	--	--	--	--	--	--	--	--	
7/2/2004	--		--	0.11	--	--	--	--	--	--	--	--	--	
08/04/2004	--		22.05	0.05	146.00	--	--	--	--	--	--	--	--	
09/22/2004	NP		21.28	0.06	146.78	--	--	--	--	--	--	--	--	
10/26/2004	--		--	0.01	--	--	--	--	--	--	--	--	--	
11/10/2004	--		18.56	0.02	149.47	--	--	--	--	--	--	--	--	
12/27/2004	--		--	0.03	--	--	--	--	--	--	--	--	--	
01/13/2005	--		12.51	0.01	155.51	--	--	--	--	--	--	--	--	
02/15/2005	--		15.24	0.03	152.79	--	--	--	--	--	--	--	--	
03/07/2005	--		11.90	0.02	156.13	--	--	--	--	--	--	--	--	
4/29/2005	--		--	0.03	--	--	--	--	--	--	--	--	--	
05/16/2005	--		14.39	0.02	153.64	--	--	--	--	--	--	--	--	j
6/21/2005	--		--	0.03	--	--	--	--	--	--	--	--	--	
7/7/2005	--		--	0.06	--	--	--	--	--	--	--	--	--	
08/17/2005	--		19.91	0.03	148.12	--	--	--	--	--	--	--	--	j
9/6/2005	--		--	0.03	--	--	--	--	--	--	--	--	--	
10/4/2005	--		--	0.07	--	--	--	--	--	--	--	--	--	
11/18/2005	--		20.36	0.07	147.71	--	--	--	--	--	--	--	--	b, j
12/30/2005	--		--	0.04	--	--	--	--	--	--	--	--	--	
1/24/2006	--		--	0.01	--	--	--	--	--	--	--	--	--	
02/07/2006	--		12.87	0.01	155.15	--	--	--	--	--	--	--	--	j
3/30/2006	--		--	0.02	--	--	--	--	--	--	--	--	--	
5/19/2006	--		15.87	0.04	152.17	--	--	--	--	--	--	--	--	b
8/23/2006	--		20.50	0.07	147.56	--	--	--	--	--	--	--	--	b, j
11/15/2006	--		20.52	0.07	147.54	--	--	--	--	--	--	--	--	b, j
2/14/2007	--		15.44	0.04	152.60	--	--	--	--	--	--	--	--	b, j
5/22/2007	--		17.78	Sheen	150.23	--	--	--	--	--	--	--	--	j, l
8/15/2007	--		20.80	0.02	147.23	--	--	--	--	--	--	--	--	b, j

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Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>RW-1 Cont.</b>														
11/8/2007	--	168.01	20.32	0.01	147.70	--	--	--	--	--	--	--	--	b, j
2/20/2008	--		14.55	0.02	153.48	--	--	--	--	--	--	--	--	b, j
5/7/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
8/20/2008	--		21.34	0.02	146.69	--	--	--	--	--	--	--	--	b
11/17/2008	P		20.41	0.00	147.60	13,000	120	<20	590	320	120	--	6.47	w
2/25/2009	--		13.40	0.02	154.63	--	--	--	--	--	--	--	--	b
4/8/2009	--		16.45	0.00	151.56	--	--	--	--	--	--	--	--	
5/28/2009	--		17.88	0.01	150.14	--	--	--	--	--	--	--	--	b
6/16/2009	--		19.30	0.01	148.72	--	--	--	--	--	--	--	--	
8/6/2009	--		20.72	0.01	147.30	--	--	--	--	--	--	--	--	b, j
3/4/2010	P		12.33	Sheen	155.68	8,000	20	<2.5	230	140	110	1.24	6.77	
9/2/2010	NP		20.14	0.00	147.87	4,700	18	<2.5	78	46	<2.5	0.66	7.31	
3/15/2011	P		13.03	0.00	154.98	7,000	3.7	<2.5	44	31	6.7	0.79	7.0	
8/17/2011	P		18.60	0.00	149.41	2,800	7.5	<2.5	12	10	8.8	0.43	7.14	
<b>2/6/2012</b>	<b>P</b>		<b>16.81</b>	<b>0.00</b>	<b>151.20</b>	<b>1,300</b>	<b>3.1</b>	<b>&lt;2.5</b>	<b>5.2</b>	<b>5.1</b>	<b>2.9</b>	<b>0.61</b>	<b>7.03</b>	

Symbols & Abbreviations:

-- = Not analyzed/applicable/measured/available  
< = Not detected at or above specified laboratory reporting limit  
DO = Dissolved oxygen  
DTW = Depth to water in ft bgs  
ft bgs = Feet below ground surface  
ft MSL = Feet above mean sea level  
GRO = Gasoline range organics  
GWE = Groundwater elevation measured in ft MSL  
mg/L = Milligrams per liter  
MTBE = Methyl tert-butyl ether  
NP = Well not purged prior to sampling  
P = Well purged prior to sampling  
TOC = Top of casing measured in ft MSL  
TPH-g = Total petroleum hydrocarbons as gasoline  
µg/L = Micrograms per liter  
SEQ/SEQM= Sequoia Analytical/Sequoia Analytical Morgan Hill (Laboratories)  
SPH = Separate phase hydrocarbons  
CEL = Calscience Environmental Laboratories

Footnotes:

a = Casing elevations surveyed to the nearest 0.01 ft MSL  
b = GWE adjusted assuming a specific gravity of 0.75 for free product (FP)  
c = Blind duplicate.  
d = A copy of the documentation for this data is included in Appendix C of Alisto report 10-024-10-001  
e = Well inaccessible  
f = Travel blank  
g = EPA Methods 8020/8260 used  
h = Unable to sample  
i = A copy of the documentation for this data can be found in Blaine Tech Services report 010607-M-3. MTBE data for the January 13, 1993 and April 23, 1993 sampling events has been destroyed. No chromatograms could be located for MTBE data from wells MW-5, MW-6, and MW-7, sampled on October 21, 1993  
j = Well not sampled due to presence of SPH and nature of the product  
k = Could not purge and sample; waste drum full  
l = Value represents the depth to product. Unable to determine depth to water, product disabled the interface probe.  
m = Discrete p[ak @ C6-7  
n = TPH-g, BTEX, and MTBE analyzed by EPA method 8260 B beginning on 1st quarter 2003 sampling event (1/29/03)  
o = Groundwater samples are not collected during FP bailing event  
p = Well not included in the monthly FP bailing program  
q = Well not sampled in November 2003 due to the presence of a pile of gravel dumped over the well box  
r = This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose  
s = MW-7 TOC elevation raised +0.47 ft during well repair on January 20, 2004  
t = Sheen in well  
u = Calib. verif. is within method limits but outside contract limits  
v = GRO result partly due to individual peak(s) in quantitation range  
w = DO meter not working at time of measurement  
x = DO measurement suspect  
y = Sample dilution was done with headspace in the sample vial. The samples were originally analyzed from VOAs without headspace

Notes:

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g was changed to GRO. The resulting data may be impacted by the potential of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported

Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12

Values for DO and pH were obtained through field measurements

GRO analysis was completed by EPA method 8260B (C4-C12) for samples collected from the time period April 2006 through February 4, 2008. The analysis for GRO was changed to EPA method 8015B (C6-C12) for samples collected from the time period February 5, 2008 through the present

The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information

**Table 2. Summary of Fuel Additives Analytical Data  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-1</b>									
4/30/1997	--	--	6,900	--	--	--	--	--	
4/30/1997	--	--	7,700	--	--	--	--	--	
8/21/1997	--	--	5,200	--	--	--	--	--	
8/21/1997	--	--	5,700	--	--	--	--	--	
11/5/1997	--	--	8,000	--	--	--	--	--	
11/5/1997	--	--	8,200	--	--	--	--	--	
2/4/1998	--	--	<10000	--	--	--	--	--	
2/4/1998	--	--	<10000	--	--	--	--	--	
5/28/1998	--	--	2,900	--	--	--	--	--	
12/30/1998	--	--	3,600	--	--	--	--	--	
2/2/1999	--	--	3,500	--	--	--	--	--	
5/10/1999	--	--	3,000	--	--	--	--	--	
8/24/1999	--	--	<50	--	--	--	--	--	
11/3/1999	--	--	8,900	--	--	--	--	--	
4/21/2000	--	--	1,300	--	--	--	--	--	
7/31/2000	--	--	2,700	--	--	--	--	--	
11/20/2000	--	--	3,900	--	--	--	--	--	
2/26/2001	--	--	1,890	--	--	--	--	--	
6/7/2001	--	--	2,720	--	--	--	--	--	
12/6/2001	--	--	5,400	--	--	--	--	--	
2/20/2002	--	--	106	--	--	--	--	--	
5/19/2006	<6,000	<400	86	<10	<10	<10	<10	<10	
11/17/2008	<6,000	350	590	<10	<10	27	<10	<10	
3/4/2010	<2,000	<80	<10	<10	<10	<10	<10	<10	
9/2/2010	<1,000	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
3/15/2011	<2500	<40	16	<5.0	<5.0	<5.0	<5.0	<5.0	
8/17/2011	<500	<8.0	8.3	<1.0	<1.0	<1.0	<1.0	<1.0	
<b>2/6/2012</b>	<b>&lt;500</b>	<b>100</b>	<b>10</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	
<b>MW-2</b>									
4/20/1994	--	--	24	--	--	--	--	--	
4/30/1997	--	--	<5000	--	--	--	--	--	

**Table 2. Summary of Fuel Additives Analytical Data  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-2 Cont.</b>									
8/21/1997	--	--	<500	--	--	--	--	--	
11/5/1997	--	--	<2500	--	--	--	--	--	
2/3/1998	--	--	<2500	--	--	--	--	--	
5/28/1998	--	--	900	--	--	--	--	--	
12/30/1998	--	--	<250	--	--	--	--	--	
2/2/1999	--	--	<500	--	--	--	--	--	
5/10/1999	--	--	75	--	--	--	--	--	
8/24/1999	--	--	<250	--	--	--	--	--	
11/3/1999	--	--	2,200	--	--	--	--	--	
3/1/2000	--	--	44	--	--	--	--	--	
4/21/2000	--	--	260	--	--	--	--	--	
7/31/2000	--	--	490	--	--	--	--	--	
11/20/2000	--	--	2,800	--	--	--	--	--	
2/18/2001	--	--	1,010	--	--	--	--	--	
6/7/2001	--	--	567	--	--	--	--	--	
9/5/2001	--	--	1,510	--	--	--	--	--	
11/30/2001	--	--	794	--	--	--	--	--	
2/20/2002	--	--	160	--	--	--	--	--	
6/20/2002	--	--	659	--	--	--	--	--	
9/11/2002	--	--	<5000	--	--	--	--	--	
11/12/2002	--	--	1,900	--	--	--	--	--	
1/29/2003	<4000	<2000	820	<50	<50	<50	<50	<50	
5/22/2003	<10000	<2000	1,000	<50	<50	<50	--	--	
7/28/2003	<20000	<4000	1,700	<100	<100	<100	<100	<100	a
11/18/2003	<5,000	<1,000	500	<25	<25	<25	--	--	
02/23/2004	<25,000	<5,000	790	<120	<120	<120	<120	<120	
05/04/2004	<50,000	<10,000	780	<250	<250	<250	<250	<250	
08/04/2004	<50,000	<10,000	430	<250	<250	<250	<250	<250	
11/10/2004	<5,000	<1,000	310	<25	<25	<25	<25	<25	
02/15/2005	<20,000	<4,000	690	<100	<100	<100	<100	<100	
05/16/2005	<50,000	<10,000	560	<250	<250	<250	<250	<250	
08/17/2005	<20,000	<4,000	480	<100	<100	<100	<100	<100	

**Table 2. Summary of Fuel Additives Analytical Data  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-2 Cont.</b>									
11/18/2005	<20,000	<4,000	340	<100	<100	<100	<100	<100	b
02/07/2006	<60,000	<4,000	440	<100	<100	<100	160	<100	
5/19/2006	<60,000	<4,000	430	<100	<100	<100	<100	<100	b
8/23/2006	<60,000	<4,000	480	<100	<100	<100	<100	<100	
11/15/2006	<60,000	<4,000	400	<100	<100	<100	<100	<100	
2/14/2007	<60,000	<4,000	810	<100	<100	<100	<100	<100	
5/22/2007	<150,000	<10,000	1,000	<250	<250	<250	<250	<250	
8/15/2007	<30,000	2,400	260	<50	<50	<50	<50	<50	b
11/8/2007	<30,000	2,800	240	<50	<50	<50	<50	<50	
11/17/2008	<6,000	1,800	320	<10	<10	<10	<10	<10	
2/25/2009	<150,000	<5,000	<250	<250	<250	<250	<250	<250	
5/28/2009	<75,000	<2,500	510	<120	<120	<120	<120	<120	
3/4/2010	<1,000	2,600	350	<5.0	<5.0	12	<5.0	<5.0	
9/2/2010	<2,000	<80	470	<10	<10	14	<10	<10	
3/15/2011	<50,000	<800	500	<100	<100	<100	<100	<100	
8/17/2011	<50,000	<800	150	<100	<100	<100	<100	<100	
<b>2/6/2012</b>	<b>&lt;50,000</b>	<b>&lt;800</b>	<b>360</b>	<b>&lt;100</b>	<b>&lt;100</b>	<b>&lt;100</b>	<b>&lt;100</b>	<b>&lt;100</b>	
<b>MW-3</b>									
7/12/1993	--	--	<5.0	--	--	--	--	--	
10/21/1993	--	--	<5.0	--	--	--	--	--	
1/21/1994	--	--	<5.0	--	--	--	--	--	
4/20/1994	--	--	28.7	--	--	--	--	--	
8/1/1994	--	--	5.43	--	--	--	--	--	
8/1/1994	--	--	<5.0	--	--	--	--	--	
12/23/1994	--	--	9.8	--	--	--	--	--	
8/22/1995	--	--	<5.0	--	--	--	--	--	
10/30/1995	--	--	<5.0	--	--	--	--	--	
1/25/1996	--	--	5.1	--	--	--	--	--	
4/19/1996	--	--	<10	--	--	--	--	--	
7/23/1996	--	--	<10	--	--	--	--	--	
11/11/1996	--	--	<50	--	--	--	--	--	



**Table 2. Summary of Fuel Additives Analytical Data  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-3 Cont.</b>									
1/21/1997	--	--	<10	--	--	--	--	--	
4/29/1997	--	--	<10	--	--	--	--	--	
8/21/1997	--	--	<10	--	--	--	--	--	
11/5/1997	--	--	<50	--	--	--	--	--	
2/3/1998	--	--	<10	--	--	--	--	--	
5/28/1998	--	--	<50	--	--	--	--	--	
2/2/1999	--	--	<5.0	--	--	--	--	--	
3/1/2000	--	--	<0.5	--	--	--	--	--	
2/18/2001	--	--	1	--	--	--	--	--	
2/20/2002	--	--	<0.5	--	--	--	--	--	
1/27/2003	<40	<20	0.76	<50	<50	<50	<50	<50	
02/23/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
02/15/2005	<100	<20	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	
02/07/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/14/2007	<300	<20	3.8	<0.50	<0.50	<0.50	<0.50	<0.50	u
2/20/2008	<100	<10	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	
2/25/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/4/2010	<100	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/15/2011	<250	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>MW-4</b>									
7/12/1993	--	--	<5.0	--	--	--	--	--	
10/21/1993	--	--	<5.0	--	--	--	--	--	
1/21/1994	--	--	<5.0	--	--	--	--	--	
4/20/1994	--	--	<5.0	--	--	--	--	--	
8/1/1994	--	--	<5.0	--	--	--	--	--	
8/22/1995	--	--	<5.0	--	--	--	--	--	
1/25/1996	--	--	58	--	--	--	--	--	
11/11/1996	--	--	34	--	--	--	--	--	
4/29/1997	--	--	<10	--	--	--	--	--	
11/5/1997	--	--	76	--	--	--	--	--	
5/28/1998	--	--	160	--	--	--	--	--	

**Table 2. Summary of Fuel Additives Analytical Data  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-4 Cont.</b>									
2/2/1999	--	--	130	--	--	--	--	--	
3/1/2000	--	--	110	--	--	--	--	--	
2/18/2001	--	--	97.3	--	--	--	--	--	
2/20/2002	--	--	81	--	--	--	--	--	
1/29/2003	<40	<20	66	<0.50	<0.50	<0.50	<0.50	<0.50	
02/23/2004	<100	<20	65	<0.50	<0.50	<0.50	<0.50	<0.50	
02/15/2005	<100	<20	62	<0.50	<0.50	<0.50	<0.50	<0.50	
02/07/2006	<300	<20	29	<0.50	<0.50	<0.50	<0.50	<0.50	
2/14/2007	<300	<20	61	<0.50	<0.50	<0.50	<0.50	<0.50	
2/20/2008	<100	<10	36	<0.50	<0.50	<0.50	<0.50	<0.50	
2/25/2009	<300	<10	26	<0.50	<0.50	<0.50	<0.50	<0.50	
3/4/2010	<100	4.4	34	<0.50	<0.50	<0.50	<0.50	<0.50	
3/15/2011	<250	4.1	26	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>2/6/2012</b>	<b>&lt;250</b>	<b>&lt;4.0</b>	<b>32</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	
<b>MW-5</b>									
7/12/1993	--	--	<5.0	--	--	--	--	--	
1/21/1994	--	--	<5.0	--	--	--	--	--	
4/20/1994	--	--	21.2	--	--	--	--	--	
8/1/1994	--	--	<5.0	--	--	--	--	--	
12/23/1994	--	--	7.81	--	--	--	--	--	
8/22/1995	--	--	<130	--	--	--	--	--	
10/30/1995	--	--	<250	--	--	--	--	--	
1/25/1996	--	--	<5.0	--	--	--	--	--	
1/25/1996	--	--	<5.0	--	--	--	--	--	
4/19/1996	--	--	<50	--	--	--	--	--	
7/23/1996	--	--	<10	--	--	--	--	--	
11/11/1996	--	--	<10	--	--	--	--	--	
1/21/1997	--	--	<50	--	--	--	--	--	
4/29/1997	--	--	<50	--	--	--	--	--	
8/21/1997	--	--	<10	--	--	--	--	--	
11/5/1997	--	--	<10	--	--	--	--	--	

**Table 2. Summary of Fuel Additives Analytical Data  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-5 Cont.</b>									
2/3/1998	--	--	<10	--	--	--	--	--	
5/28/1998	--	--	<10	--	--	--	--	--	
2/2/1999	--	--	9.1	--	--	--	--	--	
3/1/2000	--	--	2.9	--	--	--	--	--	
2/18/2001	--	--	5.67	--	--	--	--	--	
2/20/2002	--	--	55.6	--	--	--	--	--	
11/12/2002	--	--	210	--	--	--	--	--	
1/29/2003	<400	<200	82	<5.0	<5.0	<5.0	<5.0	<5.0	
5/22/2003	<10000	<2000	<50	<50	<50	<50	--	--	
7/28/2003	<2000	<400	120	<10	<10	<10	<10	<10	
11/18/2003	--	--	--	--	--	--	--	--	Well inaccessible
02/23/2004	<5,000	<1,000	100	<25	<25	<25	38	<25	
05/04/2004	<5,000	<1,000	42	<25	<25	<25	<25	<25	
08/04/2004	<5,000	<1,000	390	<25	<25	<25	<25	<25	
11/10/2004	<1,000	<200	530	<5.0	<5.0	5.5	<5.0	<5.0	
02/15/2005	<1,000	<200	260	<5.0	<5.0	<5.0	<5.0	<5.0	
05/16/2005	<1,000	<200	370	<5.0	<5.0	<5.0	<5.0	<5.0	
08/17/2005	<1,000	<200	51	<5.0	<5.0	<5.0	<5.0	<5.0	
11/18/2005	<1,000	<200	340	<5.0	<5.0	<5.0	<5.0	<5.0	b
02/07/2006	<3,000	<200	200	<5.0	<5.0	<5.0	<5.0	<5.0	
5/19/2006	<3,000	<200	44	<5.0	<5.0	<5.0	<5.0	<5.0	b
8/23/2006	<3,000	<200	230	<5.0	<5.0	<5.0	<5.0	<5.0	
11/15/2006	<1,500	<100	490	<2.5	<2.5	4.2	<2.5	<2.5	
2/14/2007	<1,500	<100	420	<2.5	<2.5	3.6	<2.5	<2.5	
5/22/2007	<1,500	<100	26	<2.5	<2.5	<2.5	<2.5	<2.5	
8/15/2007	<6,000	<400	280	<10	<10	<10	<10	<10	
11/8/2007	<1,500	310	270	<2.5	<2.5	<2.5	<2.5	<2.5	
2/20/2008	<1,000	<100	43	<5.0	<5.0	<5.0	<5.0	<5.0	
5/7/2008	<6,000	<200	30	<10	<10	<10	<10	<10	
8/20/2008	<1,200	270	260	<2.0	<2.0	3.0	<2.0	<2.0	
2/25/2009	<300	110	68	<0.50	<0.50	0.62	<0.50	<0.50	
5/28/2009	<600	<20	11	<1.0	<1.0	<1.0	<1.0	<1.0	

**Table 2. Summary of Fuel Additives Analytical Data  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-5 Cont.</b>									
8/6/2009	<3,000	340	190	<5.0	<5.0	<5.0	<5.0	<5.0	
3/4/2010	<100	38	15	<0.50	<0.50	<0.50	<0.50	<0.50	
9/2/2010	<100	<4.0	13	<0.50	<0.50	<0.50	<0.50	<0.50	
3/15/2011	<250	<4.0	5.9	<0.50	<0.50	<0.50	<0.50	<0.50	
8/17/2011	<2,500	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
<b>2/6/2012</b>	<b>&lt;2,500</b>	<b>&lt;40</b>	<b>9.8</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	
<b>MW-6</b>									
7/12/1993	--	--	<5.0	--	--	--	--	--	
1/21/1994	--	--	<5.0	--	--	--	--	--	
4/20/1994	--	--	17.4	--	--	--	--	--	
8/1/1994	--	--	8.66	--	--	--	--	--	
8/22/1995	--	--	<5.0	--	--	--	--	--	
1/25/1996	--	--	9.9	--	--	--	--	--	
11/11/1996	--	--	<10	--	--	--	--	--	
4/29/1997	--	--	<10	--	--	--	--	--	
11/5/1997	--	--	85	--	--	--	--	--	
5/28/1998	--	--	<10	--	--	--	--	--	
05/16/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
02/07/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/14/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/20/2008	<100	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/25/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/4/2010	<100	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/15/2011	<250	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>MW-7</b>									
7/12/1993	--	--	<5.0	--	--	--	--	--	
1/21/1994	--	--	<5.0	--	--	--	--	--	
4/20/1994	--	--	<5.0	--	--	--	--	--	
8/1/1994	--	--	<5.0	--	--	--	--	--	
8/22/1995	--	--	<5.0	--	--	--	--	--	

**Table 2. Summary of Fuel Additives Analytical Data  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-7 Cont.</b>									
1/25/1996	--	--	<5.0	--	--	--	--	--	
11/11/1996	--	--	<10	--	--	--	--	--	
4/29/1997	--	--	<10	--	--	--	--	--	
11/5/1997	--	--	<10	--	--	--	--	--	
5/28/1998	--	--	<10	--	--	--	--	--	
02/07/2006	<3,000	<200	270	<5.0	<5.0	<5.0	<5.0	<5.0	
2/14/2007	<3,000	<200	740	<5.0	<5.0	9.6	<5.0	<5.0	
2/20/2008	<100	13	700	<0.50	<0.50	12	0.60	<0.50	
2/25/2009	<12,000	<400	540	<20	<20	<20	<20	<20	
3/4/2010	<100	4.0	920	<0.50	<0.50	17	0.74	<0.50	
3/15/2011	<250	130	990	<0.50	<0.50	17	0.81	<0.50	
<b>2/6/2012</b>	<b>&lt;250</b>	<b>&lt;4.0</b>	<b>22</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	
<b>MW-8</b>									
4/20/1994	--	--	632	--	--	--	--	--	
8/21/1997	--	--	<1000	--	--	--	--	--	
11/5/1997	--	--	<1000	--	--	--	--	--	
2/4/1998	--	--	<2500	--	--	--	--	--	
12/30/1998	--	--	150	--	--	--	--	--	
2/2/1999	--	--	<500	--	--	--	--	--	
5/10/1999	--	--	<25	--	--	--	--	--	
8/24/1999	--	--	150	--	--	--	--	--	
11/3/1999	--	--	750	--	--	--	--	--	
3/1/2000	--	--	120	--	--	--	--	--	
11/20/2000	--	--	5,700	--	--	--	--	--	
2/20/2002	--	--	80.4	--	--	--	--	--	
6/20/2002	--	--	2,520	--	--	--	--	--	
9/11/2002	--	--	1,200	--	--	--	--	--	
11/12/2002	--	--	31	--	--	--	--	--	
1/29/2003	<4000	<2000	<500	<50	<50	<50	<50	<50	
5/22/2003	<5000	<1000	--	<25	<25	<25	--	--	
6/24/2003	--	--	46	--	--	--	--	--	

**Table 2. Summary of Fuel Additives Analytical Data  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-8 Cont.</b>									
7/28/2003	<20000	<4000	2,100	<100	<100	<100	<100	<100	
11/18/2003	<2,000	<400	1,700	<10	<10	20	--	--	a,b
02/23/2004	<10,000	<2,000	110	<50	<50	<50	<50	<50	
05/04/2004	<5,000	<1,000	2,000	<25	<25	33	<25	<25	
11/10/2004	<5,000	<1,000	74	<25	<25	<25	<25	<25	
02/15/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
05/16/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
08/17/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
11/18/2005	<10,000	<2,000	140	<50	<50	<50	<50	<50	b
02/07/2006	<3,000	<200	7.5	<5.0	<5.0	<5.0	<5.0	<5.0	
5/19/2006	<15,000	<1,000	<25	<25	<25	<25	<25	<25	b
8/23/2006	<15,000	<1,000	82	<25	<25	<25	<25	<25	
11/15/2006	<15,000	<1,000	110	<25	<25	<25	<25	<25	
2/14/2007	<15,000	<1,000	82	<25	<25	<25	<25	<25	
5/22/2007	<6,000	<400	11	<10	<10	<10	<10	<10	
8/15/2007	<6,000	<400	28	<10	<10	<10	<10	<10	
11/8/2007	<15,000	<1,000	27	<25	<25	<25	<25	<25	
2/25/2009	<6,000	<200	35	<10	<10	<10	<10	<10	
5/28/2009	<1,500	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
3/4/2010	<1,000	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
9/2/2010	<1,000	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
3/15/2011	<1,200	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
8/17/2011	<2,500	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
2/6/2012	<b>2,900</b>	<b>&lt;40</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	
<b>MW-9</b>									
7/12/1993	--	--	20.8	--	--	--	--	--	
4/20/1994	--	--	740	--	--	--	--	--	
4/20/1994	--	--	768	--	--	--	--	--	
4/30/1997	--	--	<5000	--	--	--	--	--	
8/21/1997	--	--	<500	--	--	--	--	--	
11/5/1997	--	--	<500	--	--	--	--	--	

**Table 2. Summary of Fuel Additives Analytical Data  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-9 Cont.</b>									
2/3/1998	--	--	<1000	--	--	--	--	--	
5/28/1998	--	--	<500	--	--	--	--	--	
5/28/1998	--	--	<250	--	--	--	--	--	
12/30/1998	--	--	180	--	--	--	--	--	
2/2/1999	--	--	<50	--	--	--	--	--	
5/10/1999	--	--	72	--	--	--	--	--	
8/24/1999	--	--	<250	--	--	--	--	--	
11/3/1999	--	--	<5.0	--	--	--	--	--	
3/1/2000	--	--	63	--	--	--	--	--	
4/21/2000	--	--	<5.0	--	--	--	--	--	
7/31/2000	--	--	1,600	--	--	--	--	--	
11/20/2000	--	--	3,900	--	--	--	--	--	
2/18/2001	--	--	121	--	--	--	--	--	
6/7/2001	--	--	223	--	--	--	--	--	
9/5/2001	--	--	310	--	--	--	--	--	
11/30/2001	--	--	285	--	--	--	--	--	
2/20/2002	--	--	293	--	--	--	--	--	
6/20/2002	--	--	208	--	--	--	--	--	
9/11/2002	--	--	<2500	--	--	--	--	--	
11/12/2002	--	--	21	--	--	--	--	--	
5/22/2003	<10000	<2000	<50	<50	<50	<50	--	--	
7/28/2003	<100000	<20000	<500	<500	<500	<500	<500	<500	
11/18/2003	<2,000	<400	45	<10	<10	<10	--	--	a,b
02/23/2004	<50,000	<10,000	<250	<250	<250	<250	<250	<250	
05/04/2004	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
11/10/2004	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
02/15/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
05/16/2005	<2,000	<400	<10	<10	<10	<10	<10	<10	
08/17/2005	<2,500	<500	<12	<12	<12	<12	<12	<12	
11/18/2005	<1,000	<200	19	<5.0	<5.0	<5.0	<5.0	<5.0	b
02/07/2006	<3,000	<200	<5.0	<5.0	<5.0	5.4	<5.0	<5.0	
8/23/2006	<30,000	<2,000	<50	<50	<50	<50	<50	<50	

**Table 2. Summary of Fuel Additives Analytical Data  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-9 Cont.</b>									
11/15/2006	<15,000	<1,000	26	<25	<25	<25	<25	<25	
2/14/2007	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
5/22/2007	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
8/15/2007	<1,500	<100	27	<2.5	<2.5	<2.5	<2.5	<2.5	b
11/8/2007	<3,000	<200	52	<5.0	<5.0	<5.0	<5.0	<5.0	
11/17/2008	<1,500	<50	33	<2.5	<2.5	<2.5	<2.5	<2.5	
2/25/2009	<6,000	<200	<10	<10	<10	<10	<10	<10	
5/28/2009	<6,000	<200	<10	<10	<10	<10	<10	<10	
8/6/2009	<1,200	<40	18	<2.0	<2.0	<2.0	<2.0	<2.0	
3/4/2010	<500	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
9/2/2010	<500	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
3/15/2011	<1,200	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
8/17/2011	<1,300	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
<b>2/6/2012</b>	<b>&lt;1,300</b>	<b>&lt;20</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	
<b>MW-10</b>									
4/20/1994	--	--	1,577	--	--	--	--	--	
4/30/1997	--	--	<5000	--	--	--	--	--	
8/21/1997	--	--	<5000	--	--	--	--	--	
11/5/1997	--	--	<500	--	--	--	--	--	
2/4/1998	--	--	<1000	--	--	--	--	--	
5/28/1998	--	--	<1000	--	--	--	--	--	
12/30/1998	--	--	<50	--	--	--	--	--	
2/2/1999	--	--	860	--	--	--	--	--	
5/10/1999	--	--	220	--	--	--	--	--	
8/24/1999	--	--	<250	--	--	--	--	--	
11/3/1999	--	--	31	--	--	--	--	--	
3/1/2000	--	--	4,400	--	--	--	--	--	
4/21/2000	--	--	2,400	--	--	--	--	--	
11/20/2000	--	--	450	--	--	--	--	--	
2/18/2001	--	--	4,180	--	--	--	--	--	
6/7/2001	--	--	635	--	--	--	--	--	



**Table 2. Summary of Fuel Additives Analytical Data  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-10 Cont.</b>									
9/5/2001	--	--	189	--	--	--	--	--	
11/30/2001	--	--	325	--	--	--	--	--	
2/20/2002	--	--	1,090	--	--	--	--	--	
6/20/2002	--	--	224	--	--	--	--	--	
9/11/2002	--	--	<250	--	--	--	--	--	
5/22/2003	<10000	<2000	300	<50	<50	<50	--	--	
11/18/2003	<10,000	<2,000	<50	<50	<50	<50	--	--	b
02/23/2004	<20,000	<4,000	180	<100	<100	<100	<100	<100	
05/04/2004	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
11/10/2004	<5,000	<1,000	230	<25	<25	<25	<25	<25	b
02/15/2005	<10,000	<2,000	77	<50	<50	<50	<50	<50	
05/16/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
08/17/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
11/18/2005	<2,500	<500	16	<12	<12	<12	<12	<12	b
02/07/2006	<15,000	<1,000	73	<25	<25	<25	<25	<25	
5/19/2006	<15,000	<1,000	<25	<25	<25	<25	<25	<25	b
8/23/2006	<6,000	<400	<10	<10	<10	<10	<10	<10	
11/15/2006	<6,000	<400	54	<10	<10	<10	<10	<10	
2/14/2007	<6,000	<400	120	<10	<10	<10	<10	<25	
5/22/2007	<6,000	<400	15	<10	<10	<10	<10	<10	
8/15/2007	<6,000	<400	<10	<10	<10	<10	<10	<10	
11/8/2007	<3,000	<200	6.0	<5.0	<5.0	<5.0	<5.0	<5.0	
5/7/2008	<12,000	<400	<20	<20	<20	<20	<20	<20	
11/17/2008	<12,000	<400	23	<20	<20	<20	<20	<20	
2/25/2009	<6,000	280	170	<10	<10	<10	<10	<10	
5/28/2009	<1,500	110	65	<2.5	<2.5	<2.5	<2.5	<2.5	
8/6/2009	<15,000	<500	<25	<25	<25	<25	<25	<25	
3/4/2010	<500	160	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
8/17/2011	<2,500	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
<b>2/6/2012</b>	<b>&lt;2,500</b>	<b>&lt;40</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;4.0</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	
<b>QC-2</b>									

**Table 2. Summary of Fuel Additives Analytical Data  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>QC-2 Cont.</b>									
8/22/1995	--	--	<5.0	--	--	--	--	--	
10/30/1995	--	--	<5.0	--	--	--	--	--	
1/25/1996	--	--	<5.0	--	--	--	--	--	
4/19/1996	--	--	<10	--	--	--	--	--	
<b>RW-1</b>									
8/1/1994	--	--	1,200	--	--	--	--	--	
12/23/1994	--	--	616	--	--	--	--	--	
8/22/1995	--	--	<25	--	--	--	--	--	
8/22/1995	--	--	<25	--	--	--	--	--	
10/30/1995	--	--	630	--	--	--	--	--	
10/30/1995	--	--	650	--	--	--	--	--	
1/25/1996	--	--	5,300	--	--	--	--	--	
4/19/1996	--	--	14,000	--	--	--	--	--	
4/19/1996	--	--	15,000	--	--	--	--	--	
7/23/1996	--	--	35,000	--	--	--	--	--	
7/23/1996	--	--	36,000	--	--	--	--	--	
11/11/1996	--	--	22,000	--	--	--	--	--	
11/11/1996	--	--	22,000	--	--	--	--	--	
1/21/1997	--	--	1,500	--	--	--	--	--	
1/21/1997	--	--	1,500	--	--	--	--	--	
4/29/1997	--	--	46,000	--	--	--	--	--	
8/21/1997	--	--	9,500	--	--	--	--	--	
11/5/1997	--	--	56,000	--	--	--	--	--	
2/3/1998	--	--	3,200	--	--	--	--	--	
5/28/1998	--	--	2,700	--	--	--	--	--	
2/2/1999	--	--	51000/78000	--	--	--	--	--	
5/10/1999	--	--	61,000	--	--	--	--	--	
8/24/1999	--	--	37,000	--	--	--	--	--	
11/3/1999	--	--	54,000	--	--	--	--	--	
3/1/2000	--	--	13,000	--	--	--	--	--	
4/21/2000	--	--	39,000	--	--	--	--	--	

**Table 2. Summary of Fuel Additives Analytical Data  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>RW-1 Cont.</b>									
7/31/2000	--	--	30,000	--	--	--	--	--	
2/18/2001	--	--	13,000	--	--	--	--	--	
6/7/2001	--	--	19,100	--	--	--	--	--	
11/30/2001	--	--	8,260	--	--	--	--	--	
2/20/2002	--	--	7,240	--	--	--	--	--	
11/18/2003	<10,000	11,000	6,100	<50	<50	160	--	--	a,b
11/17/2008	<12,000	<400	120	<20	<20	<20	<20	<20	
3/4/2010	<500	45	110	<2.5	<2.5	5.7	<2.5	<2.5	
9/2/2010	<500	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
3/15/2011	<1,200	<20	6.7	<2.5	<2.5	<2.5	<2.5	<2.5	
8/17/2011	<1,300	<20	8.8	<2.5	<2.5	<2.5	<2.5	<2.5	
2/6/2012	<1,300	<20	2.9	<2.5	<2.5	<2.5	<2.5	<2.5	

Symbols & Abbreviations:

-- = Not analyzed/applicable/measured/available

< = Not detected at or above specified laboratory reporting limit

1,2-DCA = 1,2-Dichloroethane

DIPE = Diisopropyl ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

µg/L = Micrograms per Liter

Footnotes:

a = The result for TBA was reported with a possible high bias due to the continuing calibration verification falling outside acceptance criteria

b = The continuing calibration verification for ethanol was outside of client contractual acceptance limits. However, it was within method acceptance limits. The data should still be useful for its intended purpose

Notes:

All volatile organic compounds analyzed using EPA Method 8260B

The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information

**Table 3. Historical Groundwater Gradient - Direction and Magnitude  
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

<b>Date Measured</b>	<b>Approximate Gradient Direction</b>	<b>Approximate Gradient Magnitude (ft/ft)</b>
5/19/2006	South	0.003 to 0.005
8/23/2006	Southwest	0.01
11/15/2006	South	0.004
2/14/2007	Southeast	0.01
5/22/2007	South	0.005
8/15/2007	South-Southwest	0.008
11/8/2007	Southwest	0.006
2/20/2008	Southeast	0.008
5/7/2008	South-Southwest	0.003
8/20/2008	South-Southwest	0.007
11/17/2008	South-Southwest	0.005
2/25/2009	Southeast	0.01
5/28/2009	South	0.004
8/6/2009	South-Southwest	0.005
3/4/2010	East-Southeast	0.02
9/2/2010	Southwest	0.01
3/15/2011	Southeast	0.01
8/17/2011	Southwest	0.003
<b>2/6/2012</b>	<b>Southeast</b>	<b>0.005</b>

Notes:

The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information

**Table 4. Bio-Degradation Parameters**  
**Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	Concentrations in mg/L										ORP (mV)	pH	Footnote
	Dissolved Oxygen	Nitrate (NO3)	Manganese	Ferrous Iron	Sulfate (SO4)	Dissolved Sulfide	Hydrogen Sulfide	Dissolved CO2	Methane	Total Alkalinity			
<b>MW-1</b>													
11/17/2008	--	<0.1	2.750	3.400	<1	<0.050	--	65	4.830	426	126	6.60	DO meter not working
3/4/2010	0.54	--	--	--	--	--	--	--	--	--	-106	6.96	
9/2/2010	0.52	--	--	--	--	--	--	--	--	--	186	7.01	
3/15/2011	0.85	--	--	--	--	--	--	--	--	--	-95	7.0	
8/17/2011	0.71	--	--	--	--	--	--	--	--	--	-71	7.39	
2/6/2012	0.78	--	--	--	--	--	--	--	--	--	33	7.34	
<b>MW-2</b>													
11/17/2008	--	<0.1	6.380	7.300	1.1	<0.050	--	98.5	5.350	838	111	6.46	DO meter not working
2/25/2009	2.11	<0.1	5.380	8.600	5.1	<0.050	--	294	3.480	846	-8	6.50	
5/28/2009	0.16	<0.1	5.340	2.400	8.7	<0.050	--	209	1.160	782	-75	6.59	BV (S2-, FE); DO measurement suspect
3/4/2010	1.28	--	--	--	--	--	--	--	--	--	-92	6.80	
9/2/2010	0.70	--	--	--	--	--	--	--	--	--	230	6.90	
3/15/2011	0.69	--	--	--	--	--	--	--	--	--	-94	6.8	
8/17/2011	0.50	--	--	--	--	--	--	--	--	--	-53	7.07	
2/6/2012	0.91	--	--	--	--	--	--	--	--	--	-9	7.08	
<b>MW-3</b>													
2/25/2009	3.45	1.6	0.0185	<0.100	29	<0.050	--	17.4	<0.0010	146	78	7.09	
3/4/2010	3.16	--	--	--	--	--	--	--	--	--	-10	7.06	
3/15/2011	3.14	--	--	--	--	--	--	--	--	--	75	7.2	
<b>MW-4</b>													
2/25/2009	2.80	3.8	<0.0050	<0.100	42	<0.050	--	44.1	<0.0010	244	-23	6.83	
3/4/2010	0.63	--	--	--	--	--	--	--	--	--	74	6.80	
3/15/2011	1.05	--	--	--	--	--	--	--	--	--	28	6.9	
2/6/2012	1.06	--	--	--	--	--	--	--	--	--	189	7.28	
<b>MW-5</b>													
8/20/2008	5.57	0.11	6.310	<0.10	12	<0.050	--	1,660	0.0355	698	170	6.86	BV (S2-, FE)
2/25/2009	4.38	0.22	2.930	<0.100	7.7	<0.050	--	17.6	0.00133	352	23	6.65	BV (S2-, FE)
5/28/2009	0.04	<0.1	4.450	0.840	2.9	<0.050	--	145	0.128	898	-89	6.82	BV (S2-, FE); DO measurement suspect

**Table 4. Bio-Degradation Parameters**  
**Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	Concentrations in mg/L										ORP (mV)	pH	Footnote
	Dissolved Oxygen	Nitrate (NO3)	Manganese	Ferrous Iron	Sulfate (SO4)	Dissolved Sulfide	Hydrogen Sulfide	Dissolved CO2	Methane	Total Alkalinity			
<b>MW-5 Cont.</b>													
8/6/2009	0.06	<0.1	5.820	<0.100	10	<0.050	--	139	0.00312	694	--	7.27	DO measurement suspect
3/4/2010	0.66	--	--	--	--	--	--	--	--	--	-69	6.87	
9/2/2010	0.75	--	--	--	--	--	--	--	--	--	190	6.75	
3/15/2011	0.85	--	--	--	--	--	--	--	--	--	-50	6.8	
8/17/2011	0.61	--	--	--	--	--	--	--	--	--	-29	7.11	
2/6/2012	1.31	--	--	--	--	--	--	--	--	--	35	7.21	
<b>MW-6</b>													
2/25/2009	2.39	2.2	0.0176	<0.100	55	<0.050	--	23.4	<0.0010	196	16	7.09	
3/4/2010	0.88	--	--	--	--	--	--	--	--	--	4	7.01	
3/15/2011	1.43	--	--	--	--	--	--	--	--	--	74	7.1	
<b>MW-7</b>													
2/25/2009	4.28	1.2	0.0167	<0.100	16	<0.050	--	36	<0.0010	280	90	6.87	BV (S2-, FE)
3/4/2010	3.30	--	--	--	--	--	--	--	--	--	-36	7.02	
3/15/2011	4.05	--	--	--	--	--	--	--	--	--	8	7.0	
2/6/2012	1.58	--	--	--	--	--	--	--	--	--	178	7.44	
<b>MW-8</b>													
2/25/2009	2.18	0.1	4.140	3.000	4.7	<0.050	--	198	1.890	702	19	6.98	
5/28/2009	0.06	<0.1	3.040	1.500	2.2	<0.050	--	186	1.750	664	-41	6.78	BV (S2-, FE); DO measurement suspect
3/4/2010	0.82	--	--	--	--	--	--	--	--	--	63	6.72	
9/2/2010	0.56	--	--	--	--	--	--	--	--	--	199	6.75	
3/15/2011	0.90	--	--	--	--	--	--	--	--	--	-56	6.6	
8/17/2011	0.61	--	--	--	--	--	--	--	--	--	-30	7.08	
2/6/2012	0.91	--	--	--	--	--	--	--	--	--	22	7.17	
<b>MW-9</b>													
11/17/2008	--	0.18	3.190	3.400	12	<0.050	--	19.5	1.290	480	139	6.64	DO meter not working
2/25/2009	2.27	<0.1	3.060	1.900	1.9	<0.050	--	156	1.960	554	-23	6.69	
5/28/2009	0.07	<0.1	2.730	0.900	3.8	<0.050	--	169	0.826	522	-73	6.83	BV (S2-, FE); DO measurement suspect
8/6/2009	0.00	0.39	2.680	2.500	15	<0.050	--	--	0.573	478	--	7.26	DO measurement suspect

**Table 4. Bio-Degradation Parameters**  
**Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well ID and Date Monitored	Concentrations in mg/L										ORP (mV)	pH	Footnote	
	Dissolved Oxygen	Nitrate (NO3)	Manganese	Ferrous Iron	Sulfate (SO4)	Dissolved Sulfide	Hydrogen Sulfide	Dissolved CO2	Methane	Total Alkalinity				
<b>MW-9 Cont.</b>														
3/4/2010	0.62	--	--	--	--	--	--	--	--	--	--	-83	6.84	
9/2/2010	0.46	--	--	--	--	--	--	--	--	--	--	214	6.85	
3/15/2011	1.07	--	--	--	--	--	--	--	--	--	--	-69	6.8	
2/6/2012	1.43	--	--	--	--	--	--	--	--	--	--	113	7.21	
<b>MW-10</b>														
11/17/2008	--	<0.1	4.890	4.700	1.7	<0.050	--	283	1.720	686	160	6.54	6.54	DO meter not working
2/25/2009	4.06	0.29	4.530	3.700	13	<0.050	--	182	0.117	572	-33	6.68	6.68	BV (S2-, FE)
5/28/2009	0.03	<0.1	4.380	4.000	6.9	<0.050	--	657	0.618	634	-40	6.69	6.69	BV (S2-, FE); DO measurement suspect
8/6/2009	0.06	<0.1	4.770	0.130	1.7	<0.050	--	81.4	0.587	728	--	7.23	7.23	DO measurement suspect
3/4/2010	0.56	--	--	--	--	--	--	--	--	--	-115	6.81	6.81	
8/17/2011	0.44	--	--	--	--	--	--	--	--	--	-72	7.18	7.18	
2/6/2012	0.71	--	--	--	--	--	--	--	--	--	-19	7.21	7.21	
<b>QC-2</b>														
<b>RW-1</b>														
11/17/2008	--	<0.1	0.581	0.990	<1	<0.050	--	35.8	3.780	94	108	6.47	6.47	DO meter not working
3/4/2010	1.24	--	--	--	--	--	--	--	--	--	-116	6.77	6.77	
9/2/2010	0.66	--	--	--	--	--	--	--	--	--	131	7.31	7.31	
3/15/2011	0.79	--	--	--	--	--	--	--	--	--	-41	7.0	7.0	
8/17/2011	0.43	--	--	--	--	--	--	--	--	--	-80	7.14	7.14	
2/6/2012	0.61	--	--	--	--	--	--	--	--	--	101	7.03	7.03	



Symbols & Abbreviations:

< = Not detected at or above specified laboratory reporting limit

ORP = Oxygen reduction potential

DO = Dissolved oxygen

CO<sub>2</sub> = Carbon dioxide

S<sub>2</sub><sup>-</sup> = Soluble Sulfide

mV = Millivolts

µg/L = Micrograms per liter

mg/L = Milligrams per liter

BV = Sample received after holding time expired