



Infrastructure · Water · Environment · Buildings

Re: Third Quarter 2011 Monitoring Report  
Former BP Station #11132  
3201 35<sup>th</sup> Avenue  
Oakland, California  
ACEH Case #RO0000014

**RECEIVED**

**10:26 am, Nov 01, 2011**

Alameda County  
Environmental Health

ARCADIS U.S., Inc.  
100 Montgomery Street, Suite 300  
San Francisco, California 94105  
Tel 415.374.2744  
Fax 415.374.2745  
www.arcadis-us.com

ENVIRONMENTAL

"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."

Submitted by:

ARCADIS U.S., Inc.

Hollis E. Phillips, PG  
Project Manager

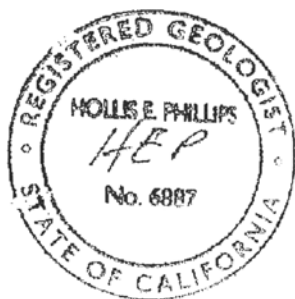
Date:  
10/31/2011

Contact:  
Hollis E. Phillips

Phone:  
415.374.2744 ext 13

Email:  
Hollis.phillips@arcadis-us.com

Our ref:  
GP09BPNA.C112



Imagine the result

**Third Quarter 2011 Monitoring Report**

Former BP Station #11132  
3201 35<sup>th</sup> Avenue, Oakland, California  
ACEH Case #RO0000014

Prepared for

Ms. Hollis Phillips, PG  
Senior Geologist  
ARCADIS-US, Inc.  
100 Montgomery Street, Ste. 300  
San Francisco, California 94104

On behalf of

Atlantic Richfield Company  
PO Box 1257  
San Ramon, California 94583

Prepared by



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October 31, 2011

Project No. 09-88-655

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October 31, 2011

Project No. 09-88-655

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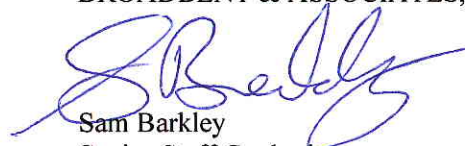
Attn.: Ms. Hollis Phillips, PG

Re: Third Quarter 2011 Monitoring Report, Former BP Service Station #11132,  
3201 35<sup>th</sup> Avenue, Oakland, Alameda County, California; ACEH Case #RO0000014

Dear Ms. Phillips:

Attached is the Third Quarter 2011 Monitoring Report for Former BP Service Station #11132 located at 3201 35<sup>th</sup> Avenue, Oakland, California. Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (707) 455-7290.

Sincerely,  
BROADBENT & ASSOCIATES, INC.

  
Sam Barkley  
Senior Staff Geologist

  
Thomas A. Sparrowe, PG #5065  
Senior Geologist



Enclosures

cc: Mr. Paresh Khatri, Alameda County Environmental Health (submitted via ACEH ftp site)  
Ms. Shelby Lathrop, ConocoPhillips, 76 Broadway, Sacramento, California 95818  
Electronic copy uploaded to GeoTracker

**THIRD QUARTER 2011 MONITORING REPORT  
FORMER BP SERVICE STATION #11132, OAKLAND, CALIFORNIA**

Broadbent & Associates, Inc. (BAI) is pleased to present this *Third Quarter 2011 Monitoring Report* on behalf of ARCADIS-US, Inc. and Atlantic Richfield Company (a BP affiliated company) for Former BP Service Station #11132 located in Oakland, Alameda County, California. Monitoring activities at the site were performed in accordance with the reporting requirements issued by the Alameda County Environmental Health Services Agency (ACEH). Details of work performed, discussion of results, and recommendations are provided below.

Facility Name / Address:	<u>Former BP Service Station #11132 / 3201 35<sup>th</sup> Avenue, Oakland</u>
Client Project Manager / Title:	<u>Ms. Hollis Phillips, PG</u>
BAI Contact:	<u>Sam Barkley &amp; Tom Sparrowe, (707) 455-7290</u>
BAI Project No.:	<u>09-88-655</u>
Primary Regulatory Agency / ID No.:	<u>ACEH, Case #RO0000014</u>
Current phase of project:	<u>Monitoring</u>
List of Acronyms / Abbreviations:	<u>See end of report text for list of acronyms/abbreviations used in report.</u>

**WORK PERFORMED THIS QUARTER (Third Quarter 2011):**

1. Conducted groundwater monitoring/sampling for Third Quarter 2011 on August 17, 2011.

**WORK SCHEDULED FOR NEXT QUARTER (Fourth Quarter 2011):**

1. Submit *Third Quarter 2011 Monitoring Report* (contained herein).
2. ARCADIS will conduct CPT/UVOST investigation on November 16 and 17, 2011.

**ADDITIONAL WORK RECOMMENDED FOR NEXT QUARTER (Fourth Quarter 2011)**

1. None.

**GROUNDWATER MONITORING PLAN SUMMARY:**

Groundwater level gauging:	<u>MW-1 through MW-10, RW-1</u>	(Semi-Annually: 1Q & 3Q)
Groundwater sample collection:	<u>MW-1, MW-2, MW-5, MW-8, MW-9, MW-10, and RW-1</u>	(Semi-Annually: 1Q & 3Q)
	<u>MW-3, MW-4, MW-6, and MW-7</u>	(Annually: 1Q)
Biodegradation indicator parameter monitoring:	<u>ORP, pH</u>	(Semi-Annually: 1Q & 3Q)

**QUARTERLY RESULTS SUMMARY:**

**LNAPL**

LNAPL observed this quarter:	<u>No</u>	(yes/no)
LNAPL recovered this quarter:	<u>None</u>	(gal)
Cumulative LNAPL recovered:	<u>234.3 (FP/water mixture)</u>	(gal)

**Groundwater Elevation and Gradient:**

Depth to groundwater:	<u>16.50 MW-6 to 20.94 MW-4</u>	(ft below TOC)
Gradient direction:	<u>Southwest</u>	(compass direction)
Gradient magnitude:	<u>0.003</u>	(ft/ft)
Average change in elevation:	<u>-5.48</u>	(ft since last measurement)

**Laboratory Analytical Data**

Summary:	GRO was detected in MW-1, MW-2, MW-5, MW-8, MW-9, MW-10 and RW-1. Benzene was detected in MW-2, MW-5, MW-8, MW-9, MW-10 and RW-1. Toluene was detected in MW-2, MW-5, MW-8 and MW-10. Ethylbenzene was detected in MW-1, MW-2, MW-5, MW-8, MW-9, MW-10 and RW-1. Total Xylenes were detected in MW-1, MW-2, MW-5, MW-8, MW-9, MW-10 and RW-1. MTBE was detected in MW-1, MW-2 and RW-1. Other
----------	---

petroleum hydrocarbon constituents were below laboratory reporting limits.

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## ACTIVITIES CONDUCTED & RESULTS:

Third Quarter 2011 groundwater monitoring was conducted on August 17, 2011 by BAI personnel in accordance with the monitoring plan summarized above. No irregularities were noted during water level gauging. Light, Non-Aqueous Phase Liquid (LNAPL, or Free Product) was not found in any site wells during this event. Depth to water measurements ranged from 16.50 ft at MW-6 to 20.94 ft at MW-4. Resulting groundwater surface elevations ranged from 148.52 ft at MW-5 to 149.42 ft at MW-4. Groundwater elevations are summarized in Table 1. Water level elevations yielded a potentiometric groundwater flow direction and horizontal gradient to the southwest at approximately 0.003 ft/ft. Field methods used during groundwater monitoring are provided in Appendix A. Field data sheets are included in Appendix B. A Site Location Map is presented as Drawing 1. Potentiometric groundwater elevation contours are presented in Drawing 2.

Groundwater samples were collected on August 17, 2011, consistent with the current monitoring schedule. No irregularities were reported during sampling. Samples were submitted under chain-of-custody protocol to TestAmerica Laboratories, Inc. (Pleasanton, California) for analysis of Gasoline-Range Organics (GRO, C6-C12) by EPA Method 8015M; for Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX), Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), Tert-Amyl Methyl Ether (TAME), Di-Isopropyl Ether (DIPE), 1,2-Dibromomethane (EDB), 1,2-Dichloroethane (1,2-DCA), Tert-Butyl Alcohol (TBA) and Ethanol by EPA Method 8260. There were no significant irregularities reported by the laboratory. The laboratory analytical report, including chain-of-custody documentation, is provided in Appendix C.

Hydrocarbons in the GRO range were detected above the laboratory reporting limit in all seven wells sampled at concentrations up to 23,000 micrograms per liter ( $\mu\text{g/L}$ ) in MW-2. Benzene was detected above the laboratory reporting limit in six wells sampled at concentrations up to 4,900  $\mu\text{g/L}$  in well MW-2. Toluene was detected above the laboratory reporting limit in three wells sampled at concentrations up to 620  $\mu\text{g/L}$  in well MW-2. Ethylbenzene was detected above the laboratory reporting limit in all seven of the wells sampled at concentrations up to of 1,500  $\mu\text{g/L}$  in MW-2. Total Xylenes was detected above the laboratory reporting limit in six wells sampled at concentrations up to 4,400  $\mu\text{g/L}$  in MW-2. MTBE was detected above the laboratory reporting limit in three wells sampled at concentrations up to 150  $\mu\text{g/L}$  in MW-2. The remaining analytes were not detected above their laboratory reporting limits in the wells sampled during this event.

Groundwater monitoring laboratory analytical results are summarized in Table 1 and Table 2. The results of the laboratory analysis of the inorganic compounds can be found in the laboratory analytical report in Appendix C. The most recent GRO, Benzene, and MTBE concentrations are also presented in Drawing 2. Groundwater monitoring data (GEO\_WELL) and laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 database. GeoTracker upload confirmation receipts are provided in Appendix D.

## DISCUSSION:

Groundwater levels were between historic minimum and maximum elevations during Third Quarter 2011, Groundwater elevations yielded a potentiometric groundwater flow direction and horizontal gradient to the southwest at approximately 0.003 ft/ft, within the variable range of historic flow direction and gradient data presented in Table 3.

Detectable chemical concentrations reported by the laboratory for this sampling event were within the historic minimum and maximum ranges for each well, with the following exceptions: GRO reached an historic minimum in MW-1 with a concentration of 1,200  $\mu\text{g/L}$ ; Ethylbenzene reached an historic minimum in MW-1 with a concentration of 24  $\mu\text{g/L}$ ; and Total Xylenes reached an historic minimum in MW-1 with a

concentration of 15 µg/L. Recent and historic laboratory analytical results are summarized in Table 1 and Table 2.

#### **RECOMMENDATIONS:**

Based on the site concentration trends observed in the wells associated with the Site, it is recommended to continue the current scheduling event. The next semi-annual monitoring and sampling event is scheduled to be conducted during the First Quarter of 2012.

#### **LIMITATIONS:**

The findings presented in this report are based upon observations of field personnel, points investigated, results of laboratory tests performed by TestAmerica Laboratories, Inc. (Pleasanton, California), and our understanding of ACEH 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-US, Inc. and Atlantic Richfield Company (a BP affiliated company). 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.

#### **ATTACHMENTS:**

Drawing 1: Site Location Map  
Drawing 2: Groundwater Elevation Contours and Analytical Summary Map August 17, 2011

Table 1: Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Table 2: Summary of Fuel Additives Analytical Data

Table 3: Historical Groundwater Flow Direction and Gradient

Table 4: Bio-Degradation Parameters

Appendix A: Field Methods

Appendix B: Field Data Sheets

Appendix C: Laboratory Report and Chain-of-Custody Documentation

Appendix D: GeoTracker Upload Confirmation Receipts

**LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:**

ACEH:	Alameda County Environmental Health	ft/ft:	feet per foot
BAI:	Broadbent & Associates, Inc.	gal:	Gallons
BTEX:	Benzene, Toluene, Ethylbenzene, Total Xylenes	GRO:	Gasoline-Range Organics
1,2-DCA:	1,2-Dichloroethane	LNAPL:	Light Non-Aqueous Phase Liquid
DIPE:	Di-Isopropyl Ether	MTBE:	Methyl Tertiary Butyl Ether
DO:	Dissolved Oxygen	TAME:	Tert-Amyl Methyl Ether
EDB:	1,2-Dibromomethane	TBA:	Tertiary Butyl Ether
ETBE:	Ethyl Tertiary Butyl Ether	TOC:	Top of Casing
µg/L:	Micrograms per liter		



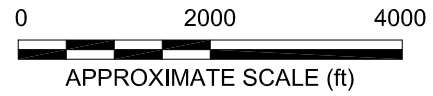
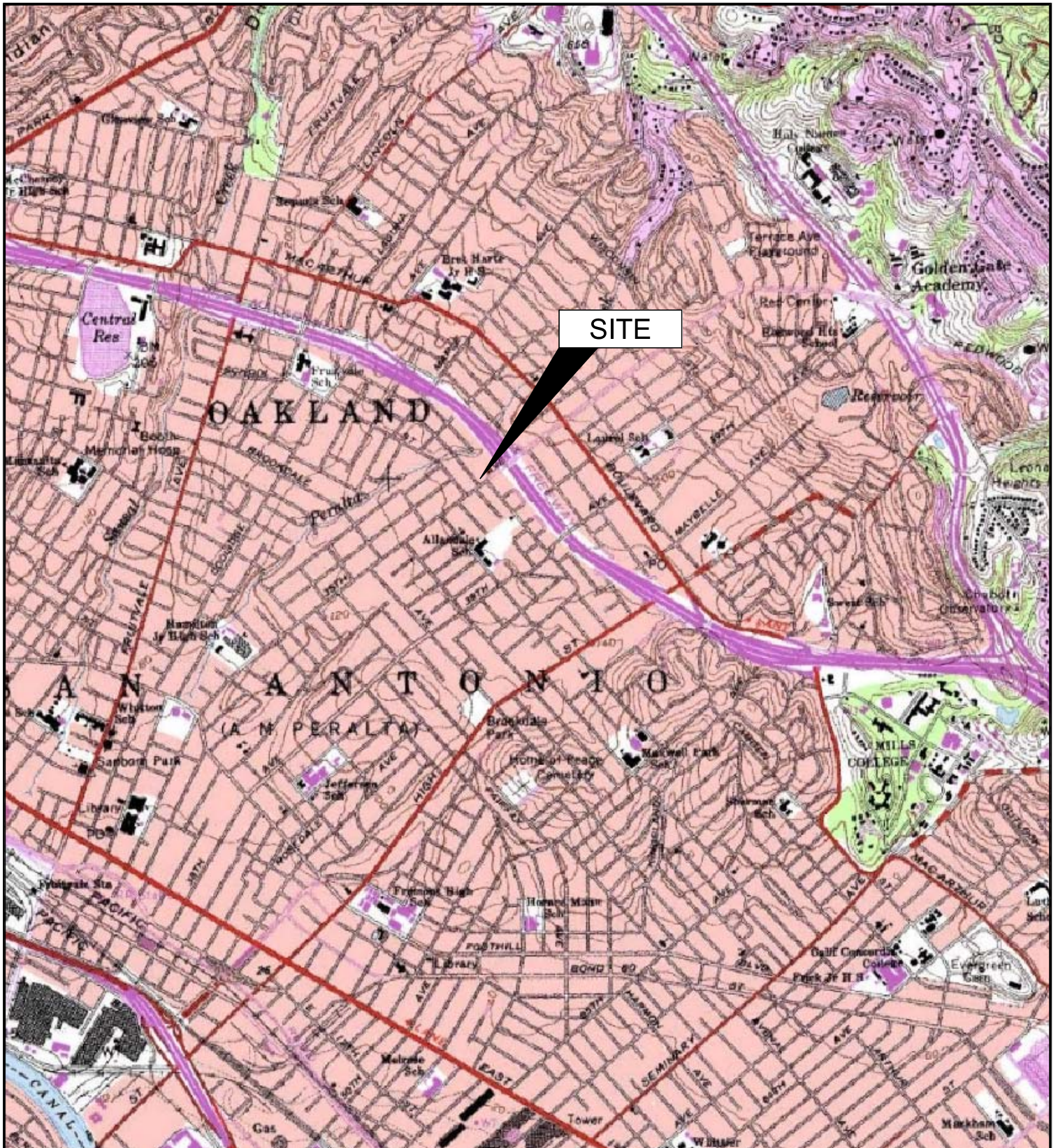
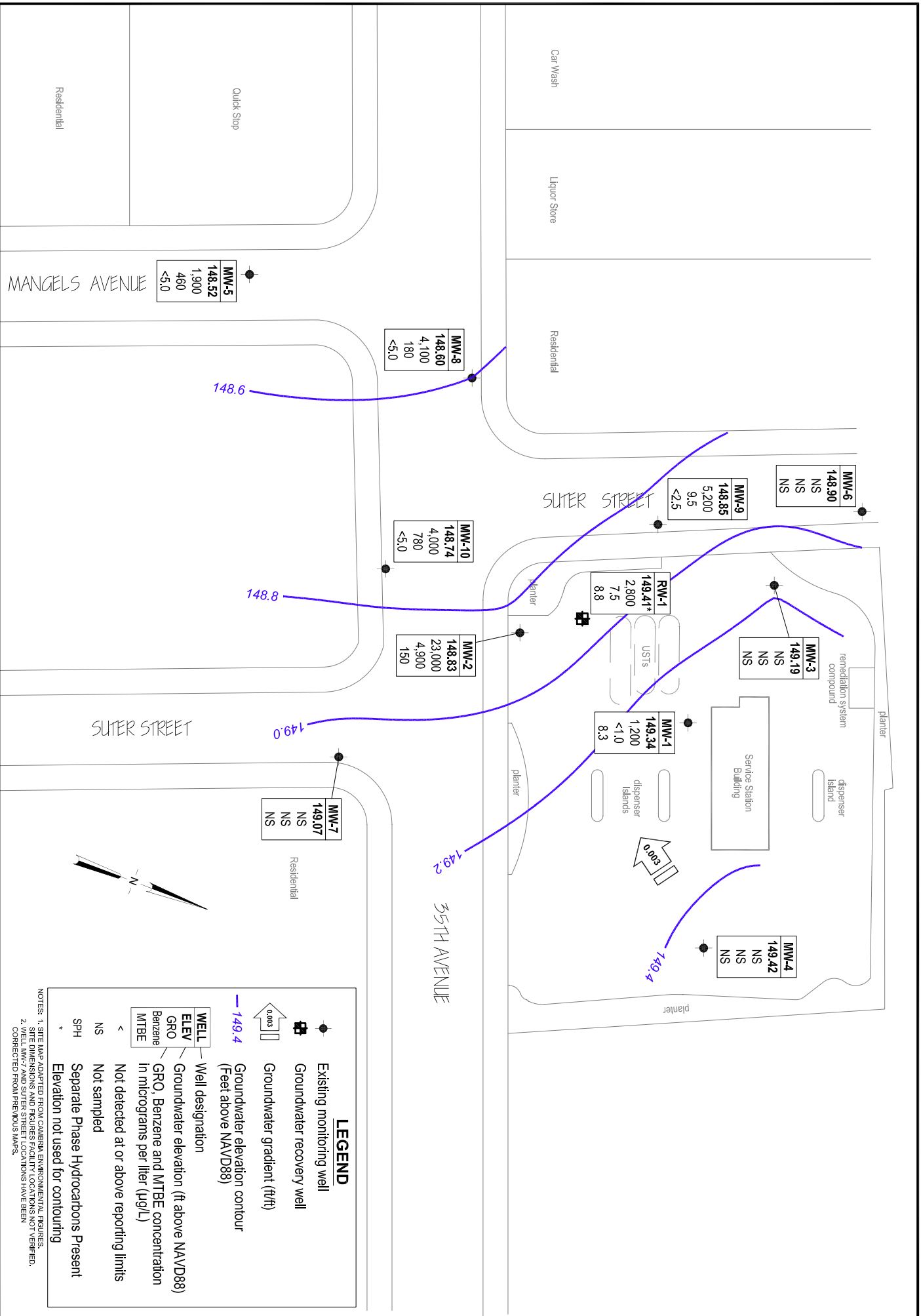


IMAGE SOURCE: USGS





Quick Stop

Residential

MANGELS AVENUE

Car Wash

Liquor Store

Residential

SUTER STREET

35TH AVENUE

MW-5	148.52
	1,900
	460
	<5.0

MW-8	148.60
	4,100
	180
	<5.0

MW-9	148.85
	5,200
	9.5
	<2.5

MW-6	148.90
	NS
	NS
	NS

MW-10	148.74
	4,000
	780
	<5.0

MW-2	148.83
	23,000
	4,900
	150

MW-3	149.19
	NS
	NS
	NS

MW-1	149.34
	1,200
	<1.0
	8.3

MW-4	149.42
	NS
	NS
	NS

Remediation system compound

dispenser Island

Service Station Building

dispenser Islands

USTs

planter

planter

planter

planter

planter

148.6

148.8

149.0

149.2

149.4

300'

planter

planter

planter

Residential

Residential

Residential

Residential

Residential

Residential

Residential

Residential

Residential

0

50

100

SCALE (ft)

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

1324 Mangrove Ave., Suite 212, Chico, California 95926

Project No.: 09-88-655

Date: 9/7/2011

Former BP Service Station #11132

3201 35th Avenue

Oakland, California

Groundwater Elevation Contours and Analytical Summary Map

August 17, 2011

Drawing

2

LEGEND

Existing monitoring well

Groundwater recovery well

Groundwater gradient (ft/ft)

Groundwater elevation contour (Feet above NAVD88)

Well designation

Well designations: MW-1 through MW-10, RW-1

Groundwater elevation (ft above NAVD88)

GRO

GRQ

Benzene

MTBE

Not detected at or above reporting limits

Not sampled

Separate Phase Hydrocarbons Present

Elevation not used for contouring

SPH

+

NOTES:

1. SITE MAP ADAPTED FROM CAMERA ENVIRONMENTAL FIGURES

2. WELL MW-7 AND SUTER STREET LOCATIONS NOT VERIFIED.

CORRECTED FROM PREVIOUS MAPS.

RESOURCES

RESOURCES

RESOURCES

**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	88,000	7,300	4,800	3,600	16,900	8,200	--	--	c
11/5/1997	--		23.70	0.00	145.51	68,000	6,200	4,400	3,300	14,300	8,000	4.7	--	
2/3/1998	--		13.63	0.32	155.80	--	--	--	--	--	--	--	--	
2/4/1998	--		--	--	--	160,000	2,300	8,400	5,000	29,400	<10000	--	--	c
2/4/1998	--		--	--	--	190,000	2,200	10,000	5,600	32,000	<10000	5.3	--	
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
<b>8/17/2011</b>	<b>P</b>		<b>20.41</b>	<b>0.00</b>	<b>149.34</b>	<b>1,200</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>24</b>	<b>15</b>	<b>8.3</b>	<b>0.71</b>	<b>7.39</b>	
<b>MW-2</b>														
7/9/1990	--	168.14	--	--	--	--	--	--	--	--	--	--	--	

**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-2 Cont.</b>														
12/21/1990	--	168.14	--	--	--	--	--	--	--	--	--	--	--	
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	--	
2/3/1998	--		11.51	0.00	156.63	75,000	590	1,500	1,800	12,800	<2500	4.5	--	

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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>														
5/28/1998	--	168.14	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	
11/18/2005	P		20.89	0.00	147.25	37,000	11,000	2,400	1,500	4,600	340	--	6.6	

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						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-2 Cont.</b>														
02/07/2006	P	168.14	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	
<b>8/17/2011</b>	<b>P</b>		<b>19.31</b>	<b>0.00</b>	<b>148.83</b>	<b>23,000</b>	<b>4,900</b>	<b>620</b>	<b>1,500</b>	<b>4,400</b>	<b>150</b>	<b>0.50</b>	<b>7.07</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	--	--	--	
12/18/1991	--		--	--	--	0.26	34	24	0.8	28	--	--	--	
7/3/1992	--		19.59	0.00	147.58	71	9.4	0.9	5	13	--	--	--	



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						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-3 Cont.</b>														
10/5/1992	--	167.17	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	99	6.2	1.1	4.5	5.2	<5.0	1.4	--	i
8/1/1994	--		20.74	0.00	146.43	120	7.7	1.6	5.9	6.7	5.43	--	--	c,i
12/23/1994	--		14.70	0.00	152.47	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	c
12/23/1994	--		14.70	0.00	152.47	<50	<0.5	0.78	<0.5	<0.5	9.8	1.7	--	i
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	--	
5/28/1998	--		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	--	--	--	--	--	--	--	--	

**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>														
2/2/1999	--	167.17	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	--	--	--	--	--	--	--	--	
02/07/2006	P		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	--	--	--	--	--	--	--	--	

**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>														
8/23/2006	--	167.17	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	
<b>8/17/2011</b>	--		<b>17.98</b>	<b>0.00</b>	<b>149.19</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	--	--	--	
1/13/1993	--		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

**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>									
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	--	--	--	--	--	
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	



**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>														
10/21/1993	--	170.36	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	--	--	--	--	--	--	--	--	
11/20/2000	--		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	--	--	--	--	--	--	--	--	

**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>														
9/5/2001	--	170.36	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	
5/7/2008	--		21.38	0.00	148.98	--	--	--	--	--	--	--	--	
8/20/2008	--		22.44	0.00	147.92	--	--	--	--	--	--	--	--	
11/17/2008	--		22.20	0.00	148.16	--	--	--	--	--	--	--	--	

**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>														
2/25/2009	P	170.36	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	
<b>8/17/2011</b>	<b>--</b>		<b>20.94</b>	<b>0.00</b>	<b>149.42</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</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	--	
6/8/1995	--		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	--	--	--	--	--	--	--	--	

**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>														
10/30/1995	--	165.14	--	--	--	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	--	--	
6/20/2002	--		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



**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>														
5/22/2003	--	165.14	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
3/4/2010	P		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	
<b>8/17/2011</b>	<b>P</b>		<b>16.62</b>	<b>0.00</b>	<b>148.52</b>	<b>1,900</b>	<b>460</b>	<b>7.6</b>	<b>44</b>	<b>51</b>	<b>&lt;5.0</b>	<b>0.61</b>	<b>7.11</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-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	--	--	--	--	--	--	--	--	
11/11/1996	--		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	--	--	--	--	--	--	--	--	

**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>														
5/28/1998	--	165.40	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	--	--	--	--	--	--	--	--	
08/04/2004	--		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

**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>														
02/07/2006	P	165.40	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	
<b>8/17/2011</b>	<b>--</b>		<b>16.50</b>	<b>0.00</b>	<b>148.90</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</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	--	--	--	
4/1/1991	--		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

**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>														
4/23/1993	--	167.61	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	--	--	--	--	--	--	--	--	
2/2/1999	--		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	--	--	--	--	--	--	--	--	

**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>														
11/20/2000	--	167.61	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	--	--	--	--	--	--	--	--	
11/18/2003	--		20.50	0.00	147.58	--	--	--	--	--	--	--	--	s
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	
5/19/2006	--		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	--	--	--	--	--	--	--	--	

**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>														
2/20/2008	P	168.08	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	
<b>8/17/2011</b>	--		<b>19.01</b>	<b>0.00</b>	<b>149.07</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
10/21/1993	--		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	--	--	--	--	--	--	--	--	

**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>														
8/22/1995	--	165.74	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	--	--	
2/18/2001	--		--	--	--	--	--	--	--	--	--	--	--	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	--	--	



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						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-8 Cont.</b>														
11/12/2002	--	165.74	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	
11/18/2005	P		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	

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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>														
11/8/2007	P	165.74	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	
<b>8/17/2011</b>	<b>P</b>		<b>17.14</b>	<b>0.00</b>	<b>148.60</b>	<b>4,100</b>	<b>180</b>	<b>24</b>	<b>280</b>	<b>340</b>	<b>&lt;5.0</b>	<b>0.61</b>	<b>7.08</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	--	--	--	
10/5/1992	--		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	--	--	--	--	--	--	--	--	

**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>														
4/20/1994	--	166.20	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	--	--	
2/2/1999	--		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	--	--	

**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>														
6/7/2001	--	166.20	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	--	--	--	--	--	--	--	--	--	
08/04/2004	--		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

**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>														
8/23/2006	P	166.20	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	
<b>8/17/2011</b>	<b>--</b>		<b>17.35</b>	<b>0.00</b>	<b>148.85</b>	<b>5,200</b>	<b>9.5</b>	<b>&lt;2.5</b>	<b>71</b>	<b>54</b>	<b>&lt;2.5</b>	<b>0.64</b>	<b>7.18</b>	
<b>MW-10</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	--	--	--	--	--	--	--	--	

**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>														
10/21/1993	--	167.01	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	--	--	--	--	--	--	--	--	--	
2/3/1998	--		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	--	--	

**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>														
7/31/2000	--	167.01	--	--	--	--	--	--	--	--	--	--	--	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	--	--	--	--	--	--	--	--	--	
02/23/2004	P		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	--	--	--	--	--	--	--	--	

**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>														
02/15/2005	P	167.01	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	--	--	--	--	--	--	--	--	
8/6/2009	P		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
<b>8/17/2011</b>	<b>P</b>		<b>18.27</b>	<b>0.00</b>	<b>148.74</b>	<b>4,000</b>	<b>780</b>	<b>39</b>	<b>250</b>	<b>290</b>	<b>&lt;5.0</b>	<b>0.44</b>	<b>7.18</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



**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>QC-2 Cont.</b>														
10/21/1993	--	168.01	--	--	--	<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	--		--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--		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

**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>														
6/8/1995	--	168.01	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	--	
2/3/1998	--		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	--	--	

**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>														
6/7/2001	--	168.01	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	--	--	--	--	--	--	--	--	--	
4/13/2004	--		--	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	--	--	--	--	--	--	--	--	

**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>														
4/29/2005	--	168.01	--	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
11/8/2007	--		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	

**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>														
3/15/2011	P	168.01	13.03	0.00	154.98	7,000	3.7	<2.5	44	31	6.7	0.79	7.0	
<b>8/17/2011</b>	<b>P</b>		<b>18.60</b>	<b>0.00</b>	<b>149.41</b>	<b>2,800</b>	<b>7.5</b>	<b>&lt;2.5</b>	<b>12</b>	<b>10</b>	<b>8.8</b>	<b>0.43</b>	<b>7.14</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	--	--	8,200	--	--	--	--	--	
11/5/1997	--	--	8,000	--	--	--	--	--	
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	
<b>8/17/2011</b>	<b>&lt;500</b>	<b>&lt;8.0</b>	<b>8.3</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	--	--	--	--	--	
8/21/1997	--	--	<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-2 Cont.</b>									
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	
11/18/2005	<20,000	<4,000	340	<100	<100	<100	<100	<100	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>MW-2 Cont.</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	
<b>8/17/2011</b>	<b>&lt;50,000</b>	<b>&lt;800</b>	<b>150</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	--	--	<5.0	--	--	--	--	--	
8/1/1994	--	--	5.43	--	--	--	--	--	
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	--	--	--	--	--	
1/21/1997	--	--	<10	--	--	--	--	--	
4/29/1997	--	--	<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-3 Cont.</b>									
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	--	--	--	--	--	
2/2/1999	--	--	130	--	--	--	--	--	
3/1/2000	--	--	110	--	--	--	--	--	

**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>									
2/18/2001	--	--	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>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	--	--	--	--	--	
2/3/1998	--	--	<10	--	--	--	--	--	
5/28/1998	--	--	<10	--	--	--	--	--	
2/2/1999	--	--	9.1	--	--	--	--	--	

**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>									
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	
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	

**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>									
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>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	--	--	--	--	--	
1/25/1996	--	--	<5.0	--	--	--	--	--	
11/11/1996	--	--	<10	--	--	--	--	--	
4/29/1997	--	--	<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-7 Cont.</b>									
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>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	--	--	--	--	--	
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	

**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>									
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	
<b>8/17/2011</b>	<b>&lt;2,500</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	--	--	--	--	--	
2/3/1998	--	--	<1000	--	--	--	--	--	
5/28/1998	--	--	<500	--	--	--	--	--	
5/28/1998	--	--	<250	--	--	--	--	--	
12/30/1998	--	--	180	--	--	--	--	--	
2/2/1999	--	--	<50	--	--	--	--	--	
5/10/1999	--	--	72	--	--	--	--	--	



**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>									
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	
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	

**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>									
2/25/2009	<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	
<b>8/17/2011</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	--	--	--	--	--	
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

**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>									
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	
<b>8/17/2011</b>	<b>&lt;2,500</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>QC-2</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	--	--	--	--	--	

**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>									
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	
<b>8/17/2011</b>	<b>&lt;1,300</b>	<b>&lt;20</b>	<b>8.8</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>	

Symbols & Abbreviations:

-- = Not analyzed/applicable/measured/available

< = Not detected at or above specified laboratory reporting limit

1,2-DCA = 1,2-Dichloroethane

DIPE = Di-isopropyl 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
<b>8/17/2011</b>	<b>Southwest</b>	<b>0.003</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	
<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	
<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	
<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
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	

**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>													
3/15/2011	0.85	--	--	--	--	--	--	--	--	--	-50	6.8	
8/17/2011	0.61	--	--	--	--	--	--	--	--	--	-29	7.11	
<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	
<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	
<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
3/4/2010	0.62	--	--	--	--	--	--	--	--	--	-83	6.84	
9/2/2010	0.46	--	--	--	--	--	--	--	--	--	214	6.85	
3/15/2011	1.07	--	--	--	--	--	--	--	--	--	-69	6.8	
<b>MW-10</b>													
11/17/2008	--	<0.1	4.890	4.700	1.7	<0.050	--	283	1.720	686	160	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	BV (S2-, FE)



**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-10 Cont.</b>														
5/28/2009	0.03	<0.1	4.380	4.000	6.9	<0.050	--	657	0.618	634	-40	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	DO measurement suspect	
3/4/2010	0.56	--	--	--	--	--	--	--	--	--	-115	6.81		
8/17/2011	0.44	--	--	--	--	--	--	--	--	--	-72	7.18		
<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	DO meter not working	
3/4/2010	1.24	--	--	--	--	--	--	--	--	--	-116	6.77		
9/2/2010	0.66	--	--	--	--	--	--	--	--	--	131	7.31		
3/15/2011	0.79	--	--	--	--	--	--	--	--	--	-41	7.0		
8/17/2011	0.43	--	--	--	--	--	--	--	--	--	-80	7.14		

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

**APPENDIX A**  
**FIELD METHODS**

## BROADBENT & ASSOCIATES INC. FIELD PROCEDURES

### A.1 QUALITY ASSURANCE/QUALITY CONTROL FIELD PROTOCOLS

Field protocols have been implemented to enhance the accuracy and reliability of data collection, ground-water sample collection, transportation and laboratory analysis. Discussion of these protocols is provided below.

#### A.1.1 Water Level & Free-Product Measurement

Prior to ground-water sample collection from each monitoring well, the presence of separate-phase hydrocarbons (SPH or free product, FP) and depth to ground water shall be measured. Depth to ground water will be measured with a standard water level indicator that has been decontaminated prior to its use in accordance with procedures discussed below. Depth to groundwater will be gauged from a saw cut notch at the top of the well casing on each well head. Where FP is suspected, the initial gauging will be done with an oil-water interface probe. Once depth to water has been measured, the first retrieval of a new disposable bailer will be scrutinized for the presence of SPH/FP.

#### A.1.2 Monitoring Well Purging

Subsequent to measuring depth to ground water and prior to the collection of ground-water samples, purging of standing water within the monitoring well will be performed if called for. Consistent with the American Society for Testing and Materials (ASTM) Standard D6452-99, Section 7.1, the well will be purged of approximately three wetted-casing volumes of water, or until the well is dewatered, or until monitored field parameters indicate stabilization. The well will be purged using a pre-cleaned disposable bailer or submersible pump and disposable plastic tubing dedicated to each individual well. The well will be purged at a low flow rate to minimize the possibility of purging the well dry. So that the sample collected is representative of formation water, several field parameters will be monitored during the purging process. The sample will not be collected until these parameters (i.e. temperature, pH, and conductivity) have stabilized to within 10% of the previously measured value. If a well is purged dry, the sample should not be collected until the well has recovered to a minimum 50% of its initial volume.

#### A.1.3 Ground-Water Sample Collection

Once the wells are satisfactorily purged, water samples will be collected from each well. Water samples for organic analyses will be collected using a pre-cleaned, new, disposable bailer and transferred into the appropriate, new, laboratory-prepared containers such that no head space or air bubbles are present in the sample container (if appropriate to the analysis). The samples will be properly labeled (i.e. sample identification, sampler initials, date/time of collection, site location, requested analyses), placed in an ice chest with bagged ice or ice substitute, and delivered to the contracted analytical laboratory.

#### A.1.4 Surface Water Sample Collection

Unless specified otherwise, surface water samples will be collected from mid-depth in the central area of the associated surface water body. Water samples will be collected into appropriate, new, laboratory-prepared containers by dipping the container into the surface water unless the container has a preservative present. If a sample preservative is present, a new, cleaned non-preserved surrogate container will be used to obtain the sample which will then be directly transferred into a new, laboratory-provided, preserved container. Samples will be properly labeled and transported as described above.

#### A.1.5 Decontamination Protocol

Prior to use in each well, re-usable ground-water sampling equipment (e.g., water level indicator, oil-interface probe, purge pump, etc.) will be decontaminated. Decontamination protocol will include thoroughly cleaning with a solution of Liquinox, rinsing with clean water, and final rinsing with control water (potable water of known quality, distilled, or de-ionized water). Pre-cleaned new disposable bailers and disposable plastic tubing will be dedicated to each individual well.

#### A.1.6 Chain of Custody Procedures

Sample identification documents will be carefully prepared so identification and chain of custody can be maintained and sample disposition can be controlled. The sample identification documents include Chain-of-Custody (COC) records and Daily Field Report forms. Chain of custody procedures are outlined below.

##### Field Custody Procedures

The field sampler is individually responsible for the care and custody of the samples collected until they are properly transferred.

Samples will have unique labels. The information on these labels will correspond to the COC which shows the identification of individual samples and the contents of the shipping container. The original COC will accompany the shipment and a copy will be retained by the field sampler.

##### Transfer of Custody and Shipment

A COC will accompany samples during transfer and shipment. When transferring samples, the individual relinquishing and the individual receiving the samples will each sign, date, and note the time on the COC. This documents the sample custody transfer.

Samples will be packaged properly for shipment and dispatched to the appropriate laboratory for analysis, with a separate COC accompanying each shipment. Shipments will be accompanied by the original COC. Samples will be delivered by BAI personnel to the laboratory, or shipped by responsible courier. When a shipping courier is utilized, the sample shipment number will be identified on the COC.

#### A.1.7 Field Records

In addition to sample identification numbers and COC records, Daily Field Report records will be maintained by field staff to provide daily records of significant events, observations, and measurements during field investigations. These documents will contain observed information such as: the personnel present, site conditions, sampling procedures, measurement procedures, calibration records, equipment used, supplies used, etc. Field measurements will be recorded on the appropriate forms. Entries on the data forms will be signed and dated. The data forms will be kept as permanent file records.

**APPENDIX B**

**FIELD DATA SHEETS**





**Micropurging Groundwater Sampling Data Sheet**

Well I.D.: MW-1  
 Project Name/Location: 11132 Project #: 09-88-655  
 Sampler's Name: JR Date: 8-17-11  
 Purging Equipment: Greepump  
 Sampling Equipment: Greepump

Casing Type: PVC  
 Casing Diameter: 2 inch  
 Total Well Depth: 37.25 feet  
 Depth to Water: 20.41 feet  
 Water Column Thickness: = 12.84 feet  
 Unit Casing Volume\*: x 0.61 Liter / foot  
 Casing Water Volume: = 7.83 Liters  
 Top of Screen: 10 feet  
 Intake Depth\*\*: 22.41 feet

**\*UNIT CASING VOLUMES**

2" = 0.61 L/lin ft.  
 3" = 1.39 L/lin ft.  
 4" = 2.47 L/lin ft.  
 6" = 5.56 L/lin ft.

\*\*One foot below water level or top of screen, whichever is lower

Free product measurement (if present): \_\_\_\_\_

Purged (L)	Time (24:00)	Flow (L/min)	DO (mg/L)	ORP (mV)	Conductance (µS)	Temperature (Fahrenheit)	pH	Water Level (feet)
0	1027	X	1.78	-67	447	20.6	7.59	20.41
0.5	1030		0.97	-73	438	20.6	7.47	20.63
1.0	1033		0.73	-73	436	20.3	7.41	20.80
1.5	1036		0.71	-71	431	20.4	7.39	20.98

Total Water Volume Purged: 1.5 Liters

Depth to Water at Sample Collection: \_\_\_\_\_ feet

Sample Collection Time: 1040

Purged Dry? (Y/N) (N)

Comments: HC odor

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**Micropurging Groundwater Sampling Data Sheet**

Well I.D.: MW-2  
 Project Name/Location: 11132 Project #: 09-88-655  
 Sampler's Name: JR Date: 8-17-11  
 Purging Equipment: B Geopump  
 Sampling Equipment: Geopump

Casing Type: PVC  
 Casing Diameter: 2 inch  
 Total Well Depth: 31.60 feet  
 Depth to Water: - 19.31 feet  
 Water Column Thickness: = 11.29 feet  
 Unit Casing Volume\*: x 0.61 Liter / foot  
 Casing Water Volume: = 6.89 Liters  
 Top of Screen 10 feet  
 Intake Depth\*\*: 21.31 feet

**\*UNIT CASING VOLUMES**

2" = 0.61 L/lin ft.  
 3" = 1.39 L/lin ft.  
 4" = 2.47 L/lin ft.  
 6" = 5.56 L/lin ft.

\*\*One foot below water level or top of screen, whichever is lower

Free product measurement (if present):

Purged (L)	Time (24:00)	Flow (L/min)	DO (mg/L)	ORP (mV)	Conductance (µS)	Temperature (Fahrenheit)	pH	Water Level (feet)
0	0945	X	1.08	-20	1285	19.6	7.07	19.31
0.5	0948	0.17	0.75	-34	1294	19.9	7.07	19.54
1.0	0951	0.17	0.70	-45	1320	20.1	7.07	19.67
1.5	0954	0.17	0.51	-53	1341	20.2	7.07	19.77
2.0	0957	0.17	0.50	-53	1354	20.3	7.07	19.85

Total Water Volume Purged: 2.0 Liters  
 Depth to Water at Sample Collection: \_\_\_\_\_ feet  
 Sample Collection Time: 1000

Purged Dry? (Y/N) (N)

Comments: Heater

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**Micropurging Groundwater Sampling Data Sheet**

Well I.D.: MW-5  
 Project Name/Location: 1132 Project #: 09-88-655  
 Sampler's Name: JR Date: 8-17-11  
 Purging Equipment: Geopump  
 Sampling Equipment: Geopump  
 Casing Type: PVC  
 Casing Diameter: 2 inch  
 Total Well Depth: 32.10 feet  
 Depth to Water: - 16.62 feet  
 Water Column Thickness: = 15.48 feet  
 Unit Casing Volume\*: x 0.61 Liter / foot  
 Casing Water Volume: = 9.44 Liters  
 Top of Screen: 10 feet  
 Intake Depth\*\*: 18.62 feet

**\*UNIT CASING VOLUMES**

2" = 0.61 L/lin ft.  
 3" = 1.39 L/lin ft.  
 4" = 2.47 L/lin ft.  
 6" = 5.56 L/lin ft.

\*\*One foot below water level or top of screen, whichever is lower

Free product measurement (if present): \_\_\_\_\_

Purged (L)	Time (24:00)	Flow (L/min)	DO (mg/L)	ORP (mV)	Conductance (µS)	Temperature (Fahrenheit)	pH	Water Level (feet)
0	1149	X	2.11	8	1363	21.1	7.11	16.62
0.5	1151	0.25	1.55	-1	1388	21.2	7.07	16.93
1.0	1153	0.25	1.03	-8	1388	21.2	7.13	16.95
1.5	1155	0.25	0.87	-22	1384	21.1	7.13	16.97
2.0	1157	0.25	0.66	-26	1381	21.1	7.12	17.00
2.5	1159	0.25	0.61	-29	1382	21.0	7.11	17.01

Total Water Volume Purged: 2.5 Liters

Depth to Water at Sample Collection: \_\_\_\_\_ feet

Sample Collection Time: 1205

Purged Dry? ( Y /  N )

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



# BROADBENT & ASSOCIATES, INC.

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

## Micropurging Groundwater Sampling Data Sheet

Well I.D.: MW-8  
 Project Name/Location: 11132 Project #: 09-88-655  
 Sampler's Name: JR Date: 8-17-11  
 Purging Equipment: Geopump  
 Sampling Equipment: Geopump

Casing Type: PVC  
 Casing Diameter: 2 inch  
 Total Well Depth: 34.84 feet  
 Depth to Water: 17.14 feet  
 Water Column Thickness: = 17.70 feet  
 Unit Casing Volume\*: x 0.61 Liter / foot  
 Casing Water Volume: = 10.80 Liters  
 Top of Screen: 20.0 feet  
 Intake Depth\*\*: 20.0 feet

### \*UNIT CASING VOLUMES

2" = 0.61 L/lin ft.  
 3" = 1.39 L/lin ft.  
 4" = 2.47 L/lin ft.  
 6" = 5.56 L/lin ft.

\*\*One foot below water level or top of screen, whichever is lower

Free product measurement (if present): \_\_\_\_\_

Purged (L)	Time (24:00)	Flow (L/min)	DO (mg/L)	ORP (mV)	Conductance (µS)	Temperature (Fahrenheit)	pH	Water Level (feet)
0	1112	X	1.87	-4	1001	20.0	7.39	17.14
0.5	1114	0.25	0.98	-13	1007	19.9	7.09	17.36
1.0	1116	0.25	0.76	-21	1014	19.8	7.09	17.41
1.5	1118	0.25	0.62	-31	1016	19.8	7.08	17.41
2.0	1120	0.25	0.61	-30	1022	19.7	7.08	17.41

Total Water Volume Purged: 2.0 Liters

Depth to Water at Sample Collection: \_\_\_\_\_ feet

Sample Collection Time: 1125

Purged Dry? (Y  N)

Comments:

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**Micropurging Groundwater Sampling Data Sheet**

Well I.D.: MW-9  
 Project Name/Location: 11132 Project #: 04-88-655  
 Sampler's Name: JR Date: 8-17-11  
 Purging Equipment: Geopump  
 Sampling Equipment: Geopump

Casing Type: PVC  
 Casing Diameter: 2 inch  
 Total Well Depth: 27.75 feet  
 Depth to Water: - 17.35 feet  
 Water Column Thickness: = 10.40 feet  
 Unit Casing Volume\*: x 0.61 Liter / foot  
 Casing Water Volume: = 186.34 Liters  
 Top of Screen: 15 feet  
 Intake Depth\*\*: 19.35 feet

**\*UNIT CASING VOLUMES**  
 2" = 0.61 L/lin ft.  
 3" = 1.39 L/lin ft.  
 4" = 2.47 L/lin ft.  
 6" = 5.56 L/lin ft.  
 \*\*One foot below water level or top of screen, whichever is lower

Free product measurement (if present): \_\_\_\_\_

Purged (L)	Time (24:00)	Flow (L/min)	DO (mg/L)	ORP (mV)	Conductance (µS)	Temperature (Fahrenheit)	pH	Water Level (feet)
0	827	X	<del>2.30</del>	-16	758	19.8	7.08	17.35
0.5	830	0.17	1.32	-31	754	19.9	7.11	17.55
1.0	833	0.17	0.92	-57	741	19.9	7.17	17.61
1.5	836	0.17	0.69	-62	736	20.0	7.17	17.65
2.0	839	0.17	0.64	-64	735	19.9	7.18	17.7

Total Water Volume Purged: 2 Liters  
 Depth to Water at Sample Collection: \_\_\_\_\_ feet  
 Sample Collection Time: 0845 Purged Dry? (Y  N)

Comments: HC CDR

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**BROADBENT & ASSOCIATES, INC.**  
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

**Micropurging Groundwater Sampling Data Sheet**

Well I.D.: MW-10  
 Project Name/Location: 11132 Project #: 09-88-655  
 Sampler's Name: JR Date: 8-17-11  
 Purging Equipment: Geopump  
 Sampling Equipment: Geopump  
 Casing Type: PVC  
 Casing Diameter: 2 inch  
 Total Well Depth: 34.15 feet  
 Depth to Water: 18.27 feet  
 Water Column Thickness: 15.88 feet  
 Unit Casing Volume\*: 0.61 Liter / foot  
 Casing Water Volume: 9.69 Liters  
 Top of Screen: 20 feet  
 Intake Depth\*\*: 20.27 feet

**\*UNIT CASING VOLUMES**

2" = 0.61 L/lin ft.  
 3" = 1.39 L/lin ft.  
 4" = 2.47 L/lin ft.  
 6" = 5.56 L/lin ft.

\*\*One foot below water level or top of screen, whichever is lower

Free product measurement (if present):

Purged (L)	Time (24:00)	Flow (L/min)	DO (mg/L)	ORP (mV)	Conductance (µS)	Temperature (Fahrenheit)	pH	Water Level (feet)
0	1228	X	1.14	-91	1063	23.2	7.36	18.27
0.5	1231	0.17	0.50	-75	1071	21.7	7.22	18.50
1.0	1234	0.17	0.49	-73	1070	21.3	7.18	18.57
1.5	1237	0.17	0.44	-72	1063	21.1	7.18	18.62

Total Water Volume Purged: 1.5 Liters

Depth to Water at Sample Collection: \_\_\_\_\_ feet

Sample Collection Time: 1242

Purged Dry? (Y/N) (N)

Comments:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Micropurging Groundwater Sampling Data Sheet**

Well I.D.: RW-1  
 Project Name/Location: 11132 Project #: 09-88-655  
 Sampler's Name: JR Date: 8-17-11  
 Purging Equipment: Geopump  
 Sampling Equipment: Geopump

Casing Type: PVC  
 Casing Diameter: 6 inch  
 Total Well Depth: \_\_\_\_\_ feet  
 Depth to Water: - 18.60 feet  
 Water Column Thickness: = \_\_\_\_\_ feet  
 Unit Casing Volume\*: x 5.56 Liter / foot  
 Casing Water Volume: = \_\_\_\_\_ Liters  
 Top of Screen 20 feet  
 Intake Depth\*\*: 20.60 feet

**\*UNIT CASING VOLUMES**  
 2" = 0.61 L/lin ft.  
 3" = 1.39 L/lin ft.  
 4" = 2.47 L/lin ft.  
 6" = 5.56 L/lin ft.

\*\*One foot below water level or top of screen, whichever is lower

Free product measurement (if present): \_\_\_\_\_

Purged (L)	Time (24:00)	Flow (L/min)	DO (mg/L)	ORP (mV)	Conductance (µS)	Temperature (Fahrenheit)	pH	Water Level (feet)
0	0909	X	1.06	-47	260	16.2	7.39	18.60
0.5	0912	0.17	0.17	-61	255	20.3	7.30	18.68
1.0	0915	0.17	0.65	-75	253	20.4	7.18	18.76
1.5	0918	0.17	0.46	-78	251	20.5	7.15	18.84
2.0	0921	0.17	0.43	-80	245	20.6	7.14	18.92

Total Water Volume Purged: 2.0 Liters  
 Depth to Water at Sample Collection: \_\_\_\_\_ feet  
 Sample Collection Time: 0925 Purged Dry? (Y/N)

Comments: HC ODR

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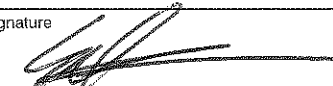
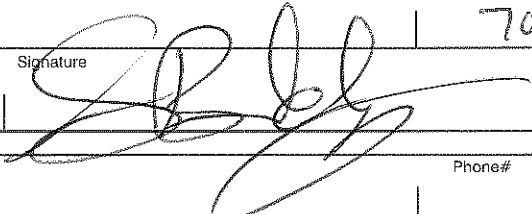
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# NON-HAZARDOUS WASTE DATA FORM

BESI # \_\_\_\_\_

GENERATOR	Generator's Name and Mailing Address BP WEST COAST PRODUCTS, LLC P.O. BOX 80249 RANCHO SANTA MARGARITA, CA 92688		Generator's Site Address (if different than mailing address) FORMER ARCO 11132 3201 35TH AVENUE OAKLAND, CA 94619																		
	Generator's Phone: <u>949-460-5200</u>																				
	Container type removed from site: <input type="checkbox"/> Drums <input checked="" type="checkbox"/> Vacuum Truck <input type="checkbox"/> Roll-off Truck <input type="checkbox"/> Dump Truck <input type="checkbox"/> Other _____		Container type transported to receiving facility: <input type="checkbox"/> Drums <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Roll-off Truck <input type="checkbox"/> Dump Truck <input type="checkbox"/> Other _____																		
	Quantity <u>3.5</u>		Quantity _____ Volume _____																		
	WASTE DESCRIPTION <u>NON-HAZARDOUS WATER</u>		GENERATING PROCESS <u>WELL FURGING / DECON WATER</u>																		
<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;">COMPONENTS OF WASTE</th> <th style="width:10%;">PPM</th> <th style="width:10%;">%</th> </tr> </thead> <tbody> <tr> <td>1. <u>WATER</u></td> <td></td> <td><u>99-100%</u></td> </tr> <tr> <td>2. <u>TPH</u></td> <td></td> <td><u>&lt;1%</u></td> </tr> </tbody> </table>		COMPONENTS OF WASTE	PPM	%	1. <u>WATER</u>		<u>99-100%</u>	2. <u>TPH</u>		<u>&lt;1%</u>	<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;">COMPONENTS OF WASTE</th> <th style="width:10%;">PPM</th> <th style="width:10%;">%</th> </tr> </thead> <tbody> <tr> <td>3. _____</td> <td></td> <td></td> </tr> <tr> <td>4. _____</td> <td></td> <td></td> </tr> </tbody> </table>		COMPONENTS OF WASTE	PPM	%	3. _____			4. _____		
COMPONENTS OF WASTE	PPM	%																			
1. <u>WATER</u>		<u>99-100%</u>																			
2. <u>TPH</u>		<u>&lt;1%</u>																			
COMPONENTS OF WASTE	PPM	%																			
3. _____																					
4. _____																					
Waste Profile _____ PROPERTIES: pH <u>7-10</u> <input type="checkbox"/> SOLID <input checked="" type="checkbox"/> LIQUID <input type="checkbox"/> SLUDGE <input type="checkbox"/> SLURRY <input type="checkbox"/> OTHER _____																					
HANDLING INSTRUCTIONS: <u>WEAR ALL APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.</u>																					
Generator Printed/Typed Name <u>Emily Leamec</u>		Signature 		Month _____ Day _____ Year _____																	
On behalf of BP West Coast Products, LLC																					
The Generator certifies that the waste as described is 100% non-hazardous																					
TRANSPORTER	Transporter 1 Company Name <u>BAI</u>		Phone# <u>707-455-7290</u>																		
	Transporter 1 Printed/Typed Name <u>Sam Barkley</u>		Signature 																		
	Transporter Acknowledgment of Receipt of Materials		Month _____ Day _____ Year <u>18/05/11</u>																		
	Transporter 2 Company Name _____		Phone# _____																		
	Transporter 2 Printed/Typed Name _____		Signature _____																		
				Month _____ Day _____ Year _____																	
Transporter Acknowledgment of Receipt of Materials																					
RECEIVING FACILITY	Designated Facility Name and Site Address INSTRAT, INC. 1105 AIRPORT RD. RIO VISTA, CA 94571		Phone# <u>530-753-1828</u>																		
	Printed/Typed Name _____		Signature _____																		
Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.																					

**APPENDIX C**

**LABORATORY REPORT  
AND CHAIN-OF-CUSTODY DOCUMENTATION**



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

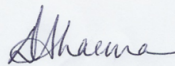
## ANALYTICAL REPORT

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

TestAmerica Job ID: 720-36989-1  
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:  
08/29/2011 09:31:41 AM

Dimple Sharma  
Project Manager I  
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# Definitions/Glossary

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

TestAmerica Job ID: 720-36989-1

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
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: 720-36989-1

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**Job ID: 720-36989-1**

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**Laboratory: TestAmerica San Francisco**

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**Narrative**

**Job Narrative**  
720-36989-1

**Comments**

No additional comments.

**Receipt**

All samples were received in good condition within temperature requirements.

**GC/MS VOA**

No analytical or quality issues were noted.

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# Detection Summary

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

TestAmerica Job ID: 720-36989-1

## Client Sample ID: MW-1 (8/17/11)

Lab Sample ID: 720-36989-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	8.3		1.0		ug/L	2		8260B/CA_LUFTM	Total/NA
Ethylbenzene	24		1.0		ug/L	2		8260B/CA_LUFTM	Total/NA
Xylenes, Total	15		2.0		ug/L	2		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	1200		100		ug/L	2		8260B/CA_LUFTM	Total/NA

## Client Sample ID: MW-2 (8/17/11)

Lab Sample ID: 720-36989-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	150		100		ug/L	200		8260B/CA_LUFTM	Total/NA
Benzene	4900		100		ug/L	200		8260B/CA_LUFTM	Total/NA
Ethylbenzene	1500		100		ug/L	200		8260B/CA_LUFTM	Total/NA
Toluene	620		100		ug/L	200		8260B/CA_LUFTM	Total/NA
Xylenes, Total	4400		200		ug/L	200		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	23000		10000		ug/L	200		8260B/CA_LUFTM	Total/NA

## Client Sample ID: MW-5 (8/17/11)

Lab Sample ID: 720-36989-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	460		5.0		ug/L	10		8260B/CA_LUFTM	Total/NA
Ethylbenzene	44		5.0		ug/L	10		8260B/CA_LUFTM	Total/NA
Toluene	7.6		5.0		ug/L	10		8260B/CA_LUFTM	Total/NA
Xylenes, Total	51		10		ug/L	10		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	1900		500		ug/L	10		8260B/CA_LUFTM	Total/NA

## Client Sample ID: MW-8 (8/17/11)

Lab Sample ID: 720-36989-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	180		5.0		ug/L	10		8260B/CA_LUFTM	Total/NA
Ethylbenzene	280		5.0		ug/L	10		8260B/CA_LUFTM	Total/NA
Toluene	24		5.0		ug/L	10		8260B/CA_LUFTM	Total/NA
Xylenes, Total	340		10		ug/L	10		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	4100		500		ug/L	10		8260B/CA_LUFTM	Total/NA

## Client Sample ID: MW-9 (8/17/11)

Lab Sample ID: 720-36989-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	9.5		2.5		ug/L	5		8260B/CA_LUFTM	Total/NA
Ethylbenzene	71		2.5		ug/L	5		8260B/CA_LUFTM	Total/NA
Xylenes, Total	54		5.0		ug/L	5		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	5200		250		ug/L	5		8260B/CA_LUFTM	Total/NA

## Client Sample ID: MW-10 (8/17/11)

Lab Sample ID: 720-36989-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	780		5.0		ug/L	10		8260B/CA_LUFTM	Total/NA
Ethylbenzene	250		5.0		ug/L	10		8260B/CA_LUFTM	Total/NA
Toluene	39		5.0		ug/L	10		8260B/CA_LUFTM	Total/NA
Xylenes, Total	290		10		ug/L	10		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	4000		500		ug/L	10		8260B/CA_LUFTM	Total/NA

# Detection Summary

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

TestAmerica Job ID: 720-36989-1

**Client Sample ID: RW-1 (8/17/11)**

**Lab Sample ID: 720-36989-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	8.8		2.5		ug/L	5		8260B/CA_LUFTM	Total/NA
Benzene	7.5		2.5		ug/L	5		8260B/CA_LUFTM	Total/NA
Ethylbenzene	12		2.5		ug/L	5		8260B/CA_LUFTM	Total/NA
Xylenes, Total	10		5.0		ug/L	5		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	2800		250		ug/L	5		8260B/CA_LUFTM	Total/NA

# Client Sample Results

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

TestAmerica Job ID: 720-36989-1

**Client Sample ID: MW-1 (8/17/11)**

**Lab Sample ID: 720-36989-1**

**Date Collected: 08/17/11 10:40**

**Matrix: Water**

**Date Received: 08/17/11 13:28**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>MTBE</b>	<b>8.3</b>		1.0		ug/L			08/20/11 15:53	2
Benzene	ND		1.0		ug/L			08/20/11 15:53	2
EDB	ND		1.0		ug/L			08/20/11 15:53	2
1,2-DCA	ND		1.0		ug/L			08/20/11 15:53	2
<b>Ethylbenzene</b>	<b>24</b>		1.0		ug/L			08/20/11 15:53	2
Toluene	ND		1.0		ug/L			08/20/11 15:53	2
<b>Xylenes, Total</b>	<b>15</b>		2.0		ug/L			08/20/11 15:53	2
<b>Gasoline Range Organics (GRO)</b>	<b>1200</b>		100		ug/L			08/20/11 15:53	2
<b>-C6-C12</b>									
TBA	ND		8.0		ug/L			08/20/11 15:53	2
Ethanol	ND		500		ug/L			08/20/11 15:53	2
DIPE	ND		1.0		ug/L			08/20/11 15:53	2
TAME	ND		1.0		ug/L			08/20/11 15:53	2
Ethyl t-butyl ether	ND		1.0		ug/L			08/20/11 15:53	2
<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					08/20/11 15:53	2
1,2-Dichloroethane-d4 (Surr)	102		67 - 130					08/20/11 15:53	2
Toluene-d8 (Surr)	106		70 - 130					08/20/11 15:53	2

# Client Sample Results

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

TestAmerica Job ID: 720-36989-1

**Client Sample ID: MW-2 (8/17/11)**

**Lab Sample ID: 720-36989-2**

Date Collected: 08/17/11 10:00

Matrix: Water

Date Received: 08/17/11 13:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>MTBE</b>	<b>150</b>		100		ug/L			08/18/11 14:57	200
<b>Benzene</b>	<b>4900</b>		100		ug/L			08/18/11 14:57	200
EDB	ND		100		ug/L			08/18/11 14:57	200
1,2-DCA	ND		100		ug/L			08/18/11 14:57	200
<b>Ethylbenzene</b>	<b>1500</b>		100		ug/L			08/18/11 14:57	200
<b>Toluene</b>	<b>620</b>		100		ug/L			08/18/11 14:57	200
<b>Xylenes, Total</b>	<b>4400</b>		200		ug/L			08/18/11 14:57	200
<b>Gasoline Range Organics (GRO) -C6-C12</b>	<b>23000</b>		10000		ug/L			08/18/11 14:57	200
TBA	ND		800		ug/L			08/18/11 14:57	200
Ethanol	ND		50000		ug/L			08/18/11 14:57	200
DIPE	ND		100		ug/L			08/18/11 14:57	200
TAME	ND		100		ug/L			08/18/11 14:57	200
Ethyl t-butyl ether	ND		100		ug/L			08/18/11 14:57	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	98		67 - 130					08/18/11 14:57	200
1,2-Dichloroethane-d4 (Surr)	82		67 - 130					08/18/11 14:57	200
Toluene-d8 (Surr)	98		70 - 130					08/18/11 14:57	200



# Client Sample Results

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

TestAmerica Job ID: 720-36989-1

**Client Sample ID: MW-5 (8/17/11)**

**Lab Sample ID: 720-36989-3**

Date Collected: 08/17/11 12:05

Matrix: Water

Date Received: 08/17/11 13:28

**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			08/18/11 15:28	10
<b>Benzene</b>	<b>460</b>		5.0		ug/L			08/18/11 15:28	10
EDB	ND		5.0		ug/L			08/18/11 15:28	10
1,2-DCA	ND		5.0		ug/L			08/18/11 15:28	10
<b>Ethylbenzene</b>	<b>44</b>		5.0		ug/L			08/18/11 15:28	10
<b>Toluene</b>	<b>7.6</b>		5.0		ug/L			08/18/11 15:28	10
<b>Xylenes, Total</b>	<b>51</b>		10		ug/L			08/18/11 15:28	10
<b>Gasoline Range Organics (GRO) -C6-C12</b>	<b>1900</b>		500		ug/L			08/18/11 15:28	10
TBA	ND		40		ug/L			08/18/11 15:28	10
Ethanol	ND		2500		ug/L			08/18/11 15:28	10
DIPE	ND		5.0		ug/L			08/18/11 15:28	10
TAME	ND		5.0		ug/L			08/18/11 15:28	10
Ethyl t-butyl ether	ND		5.0		ug/L			08/18/11 15:28	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	98		67 - 130					08/18/11 15:28	10
1,2-Dichloroethane-d4 (Surr)	83		67 - 130					08/18/11 15:28	10
Toluene-d8 (Surr)	102		70 - 130					08/18/11 15:28	10

# Client Sample Results

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

TestAmerica Job ID: 720-36989-1

**Client Sample ID: MW-8 (8/17/11)**

**Lab Sample ID: 720-36989-4**

Date Collected: 08/17/11 11:25

Matrix: Water

Date Received: 08/17/11 13:28

**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			08/20/11 16:24	10
<b>Benzene</b>	<b>180</b>		5.0		ug/L			08/20/11 16:24	10
EDB	ND		5.0		ug/L			08/20/11 16:24	10
1,2-DCA	ND		5.0		ug/L			08/20/11 16:24	10
<b>Ethylbenzene</b>	<b>280</b>		5.0		ug/L			08/20/11 16:24	10
<b>Toluene</b>	<b>24</b>		5.0		ug/L			08/20/11 16:24	10
<b>Xylenes, Total</b>	<b>340</b>		10		ug/L			08/20/11 16:24	10
<b>Gasoline Range Organics (GRO) -C6-C12</b>	<b>4100</b>		500		ug/L			08/20/11 16:24	10
TBA	ND		40		ug/L			08/20/11 16:24	10
Ethanol	ND		2500		ug/L			08/20/11 16:24	10
DIPE	ND		5.0		ug/L			08/20/11 16:24	10
TAME	ND		5.0		ug/L			08/20/11 16:24	10
Ethyl t-butyl ether	ND		5.0		ug/L			08/20/11 16:24	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	104		67 - 130					08/20/11 16:24	10
1,2-Dichloroethane-d4 (Surr)	98		67 - 130					08/20/11 16:24	10
Toluene-d8 (Surr)	105		70 - 130					08/20/11 16:24	10

# Client Sample Results

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

TestAmerica Job ID: 720-36989-1

**Client Sample ID: MW-9 (8/17/11)**

**Lab Sample ID: 720-36989-5**

Date Collected: 08/17/11 08:45

Matrix: Water

Date Received: 08/17/11 13:28

**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			08/18/11 16:29	5
<b>Benzene</b>	<b>9.5</b>		2.5		ug/L			08/18/11 16:29	5
EDB	ND		2.5		ug/L			08/18/11 16:29	5
1,2-DCA	ND		2.5		ug/L			08/18/11 16:29	5
<b>Ethylbenzene</b>	<b>71</b>		2.5		ug/L			08/18/11 16:29	5
Toluene	ND		2.5		ug/L			08/18/11 16:29	5
<b>Xylenes, Total</b>	<b>54</b>		5.0		ug/L			08/18/11 16:29	5
<b>Gasoline Range Organics (GRO) -C6-C12</b>	<b>5200</b>		250		ug/L			08/18/11 16:29	5
TBA	ND		20		ug/L			08/18/11 16:29	5
Ethanol	ND		1300		ug/L			08/18/11 16:29	5
DIPE	ND		2.5		ug/L			08/18/11 16:29	5
TAME	ND		2.5		ug/L			08/18/11 16:29	5
Ethyl t-butyl ether	ND		2.5		ug/L			08/18/11 16:29	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	102		67 - 130					08/18/11 16:29	5
1,2-Dichloroethane-d4 (Surr)	82		67 - 130					08/18/11 16:29	5
Toluene-d8 (Surr)	104		70 - 130					08/18/11 16:29	5

# Client Sample Results

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

TestAmerica Job ID: 720-36989-1

**Client Sample ID: MW-10 (8/17/11)**

**Lab Sample ID: 720-36989-6**

Date Collected: 08/17/11 12:42

Matrix: Water

Date Received: 08/17/11 13:28

**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			08/18/11 16:59	10
<b>Benzene</b>	<b>780</b>		5.0		ug/L			08/18/11 16:59	10
EDB	ND		5.0		ug/L			08/18/11 16:59	10
1,2-DCA	ND		5.0		ug/L			08/18/11 16:59	10
<b>Ethylbenzene</b>	<b>250</b>		5.0		ug/L			08/18/11 16:59	10
<b>Toluene</b>	<b>39</b>		5.0		ug/L			08/18/11 16:59	10
<b>Xylenes, Total</b>	<b>290</b>		10		ug/L			08/18/11 16:59	10
<b>Gasoline Range Organics (GRO) -C6-C12</b>	<b>4000</b>		500		ug/L			08/18/11 16:59	10
TBA	ND		40		ug/L			08/18/11 16:59	10
Ethanol	ND		2500		ug/L			08/18/11 16:59	10
DIPE	ND		5.0		ug/L			08/18/11 16:59	10
TAME	ND		5.0		ug/L			08/18/11 16:59	10
Ethyl t-butyl ether	ND		5.0		ug/L			08/18/11 16:59	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					08/18/11 16:59	10
1,2-Dichloroethane-d4 (Surr)	83		67 - 130					08/18/11 16:59	10
Toluene-d8 (Surr)	103		70 - 130					08/18/11 16:59	10

# Client Sample Results

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

TestAmerica Job ID: 720-36989-1

**Client Sample ID: RW-1 (8/17/11)**

**Lab Sample ID: 720-36989-7**

**Date Collected: 08/17/11 09:25**

**Matrix: Water**

**Date Received: 08/17/11 13:28**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>MTBE</b>	<b>8.8</b>		2.5		ug/L			08/18/11 17:30	5
<b>Benzene</b>	<b>7.5</b>		2.5		ug/L			08/18/11 17:30	5
EDB	ND		2.5		ug/L			08/18/11 17:30	5
1,2-DCA	ND		2.5		ug/L			08/18/11 17:30	5
<b>Ethylbenzene</b>	<b>12</b>		2.5		ug/L			08/18/11 17:30	5
Toluene	ND		2.5		ug/L			08/18/11 17:30	5
<b>Xylenes, Total</b>	<b>10</b>		5.0		ug/L			08/18/11 17:30	5
<b>Gasoline Range Organics (GRO)</b>	<b>2800</b>		250		ug/L			08/18/11 17:30	5
<b>-C6-C12</b>									
TBA	ND		20		ug/L			08/18/11 17:30	5
Ethanol	ND		1300		ug/L			08/18/11 17:30	5
DIPE	ND		2.5		ug/L			08/18/11 17:30	5
TAME	ND		2.5		ug/L			08/18/11 17:30	5
Ethyl t-butyl ether	ND		2.5		ug/L			08/18/11 17:30	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	101		67 - 130					08/18/11 17:30	5
1,2-Dichloroethane-d4 (Surr)	84		67 - 130					08/18/11 17:30	5
Toluene-d8 (Surr)	104		70 - 130					08/18/11 17:30	5

# QC Sample Results

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

TestAmerica Job ID: 720-36989-1

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

**Lab Sample ID: MB 720-97473/4**

**Matrix: Water**

**Analysis Batch: 97473**

**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			08/18/11 09:09	1
Benzene	ND		0.50		ug/L			08/18/11 09:09	1
EDB	ND		0.50		ug/L			08/18/11 09:09	1
1,2-DCA	ND		0.50		ug/L			08/18/11 09:09	1
Ethylbenzene	ND		0.50		ug/L			08/18/11 09:09	1
Toluene	ND		0.50		ug/L			08/18/11 09:09	1
Xylenes, Total	ND		1.0		ug/L			08/18/11 09:09	1
Gasoline Range Organics (GRO)	ND		50		ug/L			08/18/11 09:09	1
-C6-C12									
TBA	ND		4.0		ug/L			08/18/11 09:09	1
Ethanol	ND		250		ug/L			08/18/11 09:09	1
DIPE	ND		0.50		ug/L			08/18/11 09:09	1
TAME	ND		0.50		ug/L			08/18/11 09:09	1
Ethyl t-butyl ether	ND		0.50		ug/L			08/18/11 09:09	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		67 - 130		08/18/11 09:09	1
1,2-Dichloroethane-d4 (Surr)	95		67 - 130		08/18/11 09:09	1
Toluene-d8 (Surr)	96		70 - 130		08/18/11 09:09	1

**Lab Sample ID: LCS 720-97473/5**

**Matrix: Water**

**Analysis Batch: 97473**

**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	27.5		ug/L		110	62 - 130
Benzene	25.0	25.9		ug/L		104	82 - 127
EDB	25.0	27.4		ug/L		110	70 - 130
1,2-DCA	25.0	24.0		ug/L		96	70 - 126
Ethylbenzene	25.0	25.4		ug/L		102	86 - 135
Toluene	25.0	25.4		ug/L		102	83 - 129
m-Xylene & p-Xylene	50.0	53.7		ug/L		107	70 - 142
o-Xylene	25.0	27.4		ug/L		110	89 - 136
TBA	500	469		ug/L		94	82 - 116
Ethanol	500	523		ug/L		105	31 - 216
DIPE	25.0	27.4		ug/L		110	74 - 155
TAME	25.0	26.7		ug/L		107	79 - 129
Ethyl t-butyl ether	25.0	24.8		ug/L		99	70 - 130

Surrogate	LCS % Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		67 - 130
1,2-Dichloroethane-d4 (Surr)	94		67 - 130
Toluene-d8 (Surr)	103		70 - 130

# QC Sample Results

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

TestAmerica Job ID: 720-36989-1

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

**Lab Sample ID: LCS 720-97473/7**

**Matrix: Water**

**Analysis Batch: 97473**

**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	477		ug/L		95	58 - 106
Gasoline Range Organics (GRO) -C6-C12	500	477		ug/L		95	58 - 106

Surrogate	LCS % Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	100		67 - 130
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	94		67 - 130
1,2-Dichloroethane-d4 (Surr)	94		67 - 130
Toluene-d8 (Surr)	103		70 - 130
Toluene-d8 (Surr)	103		70 - 130

**Lab Sample ID: LCSD 720-97473/6**

**Matrix: Water**

**Analysis Batch: 97473**

**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	26.7		ug/L		107	62 - 130	3	20
Benzene	25.0	25.8		ug/L		103	82 - 127	0	20
EDB	25.0	26.9		ug/L		108	70 - 130	2	20
1,2-DCA	25.0	23.0		ug/L		92	70 - 126	4	20
Ethylbenzene	25.0	25.6		ug/L		102	86 - 135	1	20
Toluene	25.0	25.9		ug/L		104	83 - 129	2	20
m-Xylene & p-Xylene	50.0	53.5		ug/L		107	70 - 142	0	20
o-Xylene	25.0	27.3		ug/L		109	89 - 136	0	20
TBA	500	464		ug/L		93	82 - 116	1	20
Ethanol	500	506		ug/L		101	31 - 216	3	30
DIPE	25.0	27.1		ug/L		108	74 - 155	1	20
TAME	25.0	26.1		ug/L		104	79 - 129	2	20
Ethyl t-butyl ether	25.0	24.1		ug/L		96	70 - 130	3	20

Surrogate	LCSD % Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	102		67 - 130
1,2-Dichloroethane-d4 (Surr)	90		67 - 130
Toluene-d8 (Surr)	102		70 - 130

**Lab Sample ID: LCSD 720-97473/8**

**Matrix: Water**

**Analysis Batch: 97473**

**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	454		ug/L		91	58 - 106	5	20

Surrogate	LCSD % Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	102		67 - 130
1,2-Dichloroethane-d4 (Surr)	91		67 - 130
Toluene-d8 (Surr)	105		70 - 130

# QC Sample Results

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

TestAmerica Job ID: 720-36989-1

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

**Lab Sample ID: MB 720-97616/4**

**Matrix: Water**

**Analysis Batch: 97616**

**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			08/20/11 11:04	1
Benzene	ND		0.50		ug/L			08/20/11 11:04	1
EDB	ND		0.50		ug/L			08/20/11 11:04	1
1,2-DCA	ND		0.50		ug/L			08/20/11 11:04	1
Ethylbenzene	ND		0.50		ug/L			08/20/11 11:04	1
Toluene	ND		0.50		ug/L			08/20/11 11:04	1
Xylenes, Total	ND		1.0		ug/L			08/20/11 11:04	1
Gasoline Range Organics (GRO)	ND		50		ug/L			08/20/11 11:04	1
-C6-C12									
TBA	ND		4.0		ug/L			08/20/11 11:04	1
Ethanol	ND		250		ug/L			08/20/11 11:04	1
DIPE	ND		0.50		ug/L			08/20/11 11:04	1
TAME	ND		0.50		ug/L			08/20/11 11:04	1
Ethyl t-butyl ether	ND		0.50		ug/L			08/20/11 11:04	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		67 - 130		08/20/11 11:04	1
1,2-Dichloroethane-d4 (Surr)	102		67 - 130		08/20/11 11:04	1
Toluene-d8 (Surr)	100		70 - 130		08/20/11 11:04	1

**Lab Sample ID: LCS 720-97616/5**

**Matrix: Water**

**Analysis Batch: 97616**

**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	27.4		ug/L		110	62 - 130
Benzene	25.0	26.6		ug/L		106	82 - 127
EDB	25.0	26.7		ug/L		107	70 - 130
1,2-DCA	25.0	23.8		ug/L		95	70 - 126
Ethylbenzene	25.0	26.2		ug/L		105	86 - 135
Toluene	25.0	26.8		ug/L		107	83 - 129
m-Xylene & p-Xylene	50.0	54.6		ug/L		109	70 - 142
o-Xylene	25.0	27.7		ug/L		111	89 - 136
TBA	500	458		ug/L		92	82 - 116
Ethanol	500	455		ug/L		91	31 - 216
DIPE	25.0	29.3		ug/L		117	74 - 155
TAME	25.0	26.7		ug/L		107	79 - 129
Ethyl t-butyl ether	25.0	25.0		ug/L		100	70 - 130

Surrogate	LCS % Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	105		67 - 130
1,2-Dichloroethane-d4 (Surr)	96		67 - 130
Toluene-d8 (Surr)	103		70 - 130



# QC Sample Results

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

TestAmerica Job ID: 720-36989-1

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

**Lab Sample ID: LCS 720-97616/7**

**Matrix: Water**

**Analysis Batch: 97616**

**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	377		ug/L		75	58 - 106

Surrogate	LCS % Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	98		67 - 130
1,2-Dichloroethane-d4 (Surr)	96		67 - 130
Toluene-d8 (Surr)	103		70 - 130

**Lab Sample ID: LCSD 720-97616/6**

**Matrix: Water**

**Analysis Batch: 97616**

**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	27.4		ug/L		110	62 - 130	0	20
Benzene	25.0	26.6		ug/L		106	82 - 127	0	20
EDB	25.0	26.3		ug/L		105	70 - 130	2	20
1,2-DCA	25.0	23.2		ug/L		93	70 - 126	3	20
Ethylbenzene	25.0	25.9		ug/L		104	86 - 135	1	20
Toluene	25.0	26.8		ug/L		107	83 - 129	0	20
m-Xylene & p-Xylene	50.0	54.0		ug/L		108	70 - 142	1	20
o-Xylene	25.0	27.5		ug/L		110	89 - 136	1	20
TBA	500	453		ug/L		91	82 - 116	1	20
Ethanol	500	450		ug/L		90	31 - 216	1	30
DIPE	25.0	29.1		ug/L		116	74 - 155	1	20
TAME	25.0	26.5		ug/L		106	79 - 129	1	20
Ethyl t-butyl ether	25.0	24.8		ug/L		99	70 - 130	1	20

Surrogate	LCSD % Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	103		67 - 130
1,2-Dichloroethane-d4 (Surr)	93		67 - 130
Toluene-d8 (Surr)	103		70 - 130

**Lab Sample ID: LCSD 720-97616/8**

**Matrix: Water**

**Analysis Batch: 97616**

**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	389		ug/L		78	58 - 106	3	20

Surrogate	LCSD % Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	95		67 - 130
Toluene-d8 (Surr)	105		70 - 130

# QC Association Summary

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

TestAmerica Job ID: 720-36989-1

## GC/MS VOA

### Analysis Batch: 97473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-97473/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-97473/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-97473/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-97473/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-97473/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-36989-2	MW-2 (8/17/11)	Total/NA	Water	8260B/CA_LUFT MS	
720-36989-3	MW-5 (8/17/11)	Total/NA	Water	8260B/CA_LUFT MS	
720-36989-5	MW-9 (8/17/11)	Total/NA	Water	8260B/CA_LUFT MS	
720-36989-6	MW-10 (8/17/11)	Total/NA	Water	8260B/CA_LUFT MS	
720-36989-7	RW-1 (8/17/11)	Total/NA	Water	8260B/CA_LUFT MS	

### Analysis Batch: 97616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-97616/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-97616/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-97616/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-97616/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-97616/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-36989-1	MW-1 (8/17/11)	Total/NA	Water	8260B/CA_LUFT MS	
720-36989-4	MW-8 (8/17/11)	Total/NA	Water	8260B/CA_LUFT MS	

# Lab Chronicle

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

TestAmerica Job ID: 720-36989-1

## Client Sample ID: MW-1 (8/17/11)

Lab Sample ID: 720-36989-1

Date Collected: 08/17/11 10:40

Matrix: Water

Date Received: 08/17/11 13:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		2	97616	08/20/11 15:53	AC	TAL SF

## Client Sample ID: MW-2 (8/17/11)

Lab Sample ID: 720-36989-2

Date Collected: 08/17/11 10:00

Matrix: Water

Date Received: 08/17/11 13:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		200	97473	08/18/11 14:57	AC	TAL SF

## Client Sample ID: MW-5 (8/17/11)

Lab Sample ID: 720-36989-3

Date Collected: 08/17/11 12:05

Matrix: Water

Date Received: 08/17/11 13:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	97473	08/18/11 15:28	AC	TAL SF

## Client Sample ID: MW-8 (8/17/11)

Lab Sample ID: 720-36989-4

Date Collected: 08/17/11 11:25

Matrix: Water

Date Received: 08/17/11 13:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	97616	08/20/11 16:24	AC	TAL SF

## Client Sample ID: MW-9 (8/17/11)

Lab Sample ID: 720-36989-5

Date Collected: 08/17/11 08:45

Matrix: Water

Date Received: 08/17/11 13:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		5	97473	08/18/11 16:29	AC	TAL SF

## Client Sample ID: MW-10 (8/17/11)

Lab Sample ID: 720-36989-6

Date Collected: 08/17/11 12:42

Matrix: Water

Date Received: 08/17/11 13:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	97473	08/18/11 16:59	AC	TAL SF

## Client Sample ID: RW-1 (8/17/11)

Lab Sample ID: 720-36989-7

Date Collected: 08/17/11 09:25

Matrix: Water

Date Received: 08/17/11 13:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		5	97473	08/18/11 17:30	AC	TAL SF

# Lab Chronicle

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

TestAmerica Job ID: 720-36989-1

## Laboratory References:

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

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# Certification Summary

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

TestAmerica Job ID: 720-36989-1

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Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica San Francisco	California	State Program	9	2496

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Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

- 1
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# Method Summary

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

TestAmerica Job ID: 720-36989-1

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

**Protocol References:**

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

**Laboratory References:**

TAL SF = TestAmerica San Francisco, 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: 720-36989-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-36989-1	MW-1 (8/17/11)	Water	08/17/11 10:40	08/17/11 13:28
720-36989-2	MW-2 (8/17/11)	Water	08/17/11 10:00	08/17/11 13:28
720-36989-3	MW-5 (8/17/11)	Water	08/17/11 12:05	08/17/11 13:28
720-36989-4	MW-8 (8/17/11)	Water	08/17/11 11:25	08/17/11 13:28
720-36989-5	MW-9 (8/17/11)	Water	08/17/11 08:45	08/17/11 13:28
720-36989-6	MW-10 (8/17/11)	Water	08/17/11 12:42	08/17/11 13:28
720-36989-7	RW-1 (8/17/11)	Water	08/17/11 09:25	08/17/11 13:28



720.36989  
Chain of Custody Record

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING  
183143  
TestAmerica Laboratories, Inc.

San Francisco  
1220 Quarry Lane

Pleasanton, CA 94566  
phone 925.484.1919 fax 925.600.3002

Client Contact		Project Manager: Jason Duda				Site Contact:			Date:			COC No:		
Broadbent and Associates, Inc.		Tel/Fax: 530-566-1400/530-566-1401				Lab Contact: Dimple Sharma			Carrier:			_____ of _____ COCs		
Address: 1324 Mangrove Ave. Suite 212		Analysis Turnaround Time				Filtered Sample CRO by 8015M BTEX/S FO by 8260 EDB, 1,2-DCA, and Ethanol by 8260								Job No.
City/State/Zip: Chico, CA 95926		Calendar (C) or Work Days (W)												SDG No.
(530) 566-1400 Phone		TAT if different from Below _____ Standard <input checked="" type="checkbox"/>												
(530) 566-1401 FAX		<input type="checkbox"/> 2 weeks												
Project Name: BP 11132		<input type="checkbox"/> 1 week												
Site: 3201 35th Avenue, Oakland		<input type="checkbox"/> 2 days												
P O # GP09BPNA.C112		<input type="checkbox"/> 1 day												
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.								Sample Specific Notes:
MW-1 (8/17/11)		8-17-11	1040	GRAB	AQ	3	X	X	X					
MW-2 (8/17/11)			1000	GRAB	AQ	3	X	X	X					
MW-5 (8/17/11)			1205	GRAB	AQ	3	X	X	X					
MW-8 (8/17/11)			1125	GRAB	AQ	3	X	X	X					
MW-9 (8/17/11)			0845	GRAB	AQ	3	X	X	X					
MW-10 (8/17/11)			1242	GRAB	AQ	3	X	X	X					
RW-1 (8/17/11)			0928	GRAB	AQ	3	X	X	X					
FB 11132 08172011		8-17-11	1247											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 <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"/>						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Special Instructions/QC Requirements & Comments:														
Relinquished by: James Plann		Company: BM		Date/Time: 8-17-11 1328		Received by: [Signature]		Company: IAST		Date/Time: 8/17/11 1328				
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:				
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:				

Temp 2.40



## Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 720-36989-1

**Login Number: 36989**

**List Source: TestAmerica San Francisco**

**List Number: 1**

**Creator: Apostol, Anita**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is 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	2.4
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



**APPENDIX D**

**GEOTRACKER UPLOAD CONFIRMATION RECEIPTS**

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STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

UPLOADING A EDF FILE

**SUCCESS**

Processing is complete. No errors were found!  
Your file has been successfully submitted!

<b><u>Submittal Type:</u></b>	EDF - Monitoring Report - Semi-Annually
<b><u>Submittal Title:</u></b>	3Q11 GW Monitoring
<b><u>Facility Global ID:</u></b>	T0600100213
<b><u>Facility Name:</u></b>	BP #11132
<b><u>File Name:</u></b>	720-36989-1.zip
<b><u>Organization Name:</u></b>	Broadbent & Associates, Inc.
<b><u>Username:</u></b>	BROADBENT-C
<b><u>IP Address:</u></b>	67.118.40.90
<b><u>Submittal Date/Time:</u></b>	9/7/2011 9:33:19 AM
<b><u>Confirmation Number:</u></b>	1881535351

[VIEW QC REPORT](#)

[VIEW DETECTIONS REPORT](#)

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STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

UPLOADING A GEO\_WELL FILE

**SUCCESS**

Processing is complete. No errors were found!  
Your file has been successfully submitted!

<b><u>Submittal Type:</u></b>	<b>GEO_WELL</b>
<b><u>Submittal Title:</u></b>	<b>3Q11 GEO_WELL 11132</b>
<b><u>Facility Global ID:</u></b>	<b>T0600100213</b>
<b><u>Facility Name:</u></b>	<b>BP #11132</b>
<b><u>File Name:</u></b>	<b>GEO_WELL.zip</b>
<b><u>Organization Name:</u></b>	<b>Broadbent &amp; Associates, Inc.</b>
<b><u>Username:</u></b>	<b>BROADBENT-C</b>
<b><u>IP Address:</u></b>	<b>67.118.40.90</b>
<b><u>Submittal Date/Time:</u></b>	<b>9/7/2011 9:35:21 AM</b>
<b><u>Confirmation Number:</u></b>	<b>1966321587</b>