

October 5, 2004

Alameda County  
Environmental Health  
OCT 05 2004

Mr. Robert Schultz  
Alameda County Health Care Service Agency  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

Re: **Third Quarter 2004 Groundwater Monitoring Report**  
**Former BP Service Station #11117**  
**7210 Bancroft Avenue**  
**Oakland, California**  
**URS Project #38486800**

Dear Mr. Schultz,

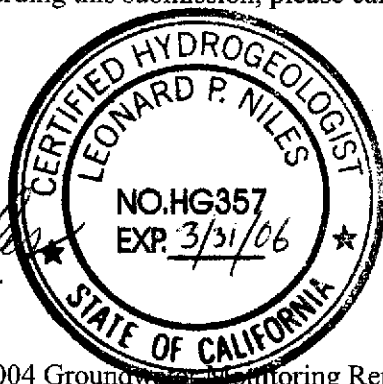
On behalf of the Atlantic Richfield Company (BP affiliated company), URS Corporation (URS) is submitting the *Third Quarter 2004 Groundwater Monitoring Report* for the Former BP Service Station #11117, located at 7210 Bancroft Avenue, Oakland, California. We are currently awaiting approval of the recommendations that were made in the *Soil and Groundwater Investigation Workplan* submitted November 28, 2003. URS also proposes reducing the sampling schedule for wells MW-1, MW-3, and MW-6 to an annual basis. URS is currently awaiting a response to these proposals, and has already implemented the proposal to add extraction wells EX-1 and EX-2 to the quarterly monitoring schedule.

If you have any questions regarding this submission, please call me at (510) 874-1720.

Sincerely,

URS CORPORATION

*Leonard P. Niles*  
Leonard P. Niles, R.G./C.H.G.  
Project Manager



Enclosure: Third Quarter 2004 Groundwater Monitoring Report

cc: Mr. Kyle Christie, Atlantic Richfield Company (RM), (copy uploaded to ENFOS)  
Ms. Liz Sewell, ConocoPhillips, (copy uploaded to FTP server)  
Ms. Diane Clark, One Eastmont Town Center, 7200 Bancroft Avenue, Oakland, CA 94605-1907

**REPORT**

Alameda County  
OCT 03 2004  
Environmental Health

**THIRD QUARTER 2004  
GROUNDWATER MONITORING**

FORMER BP SERVICE STATION #11117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA

*Prepared for*  
RM

October 5, 2004

**URS**

URS Corporation  
1333 Broadway, Suite 800  
Oakland, California 94612

38486800

Date: October 5, 2004  
Quarter: 3Q 04

### RM QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 11117 Address: 7210 Bancroft Avenue, Oakland, CA  
RM Environmental Business Manager: Kyle Christie  
Consulting Co./Contact Person: URS Corporation / Leonard Niles  
Consultant Project No.: 38486800  
Primary Agency: Alameda County Environmental Health (ACEH)

#### WORK PERFORMED THIS QUARTER (Third- 2004):

1. Performed third quarter groundwater monitoring event on August 31, 2004.
2. Prepared and submitted third quarter 2004 groundwater monitoring report.

#### WORK PROPOSED FOR NEXT QUARTER (Fourth- 2004):

1. Perform fourth quarter 2004 groundwater monitoring event.
2. Prepare and submit fourth quarter 2004 groundwater monitoring report.
3. Perform soil and groundwater investigation, pending ACHCSA approval of workplan.

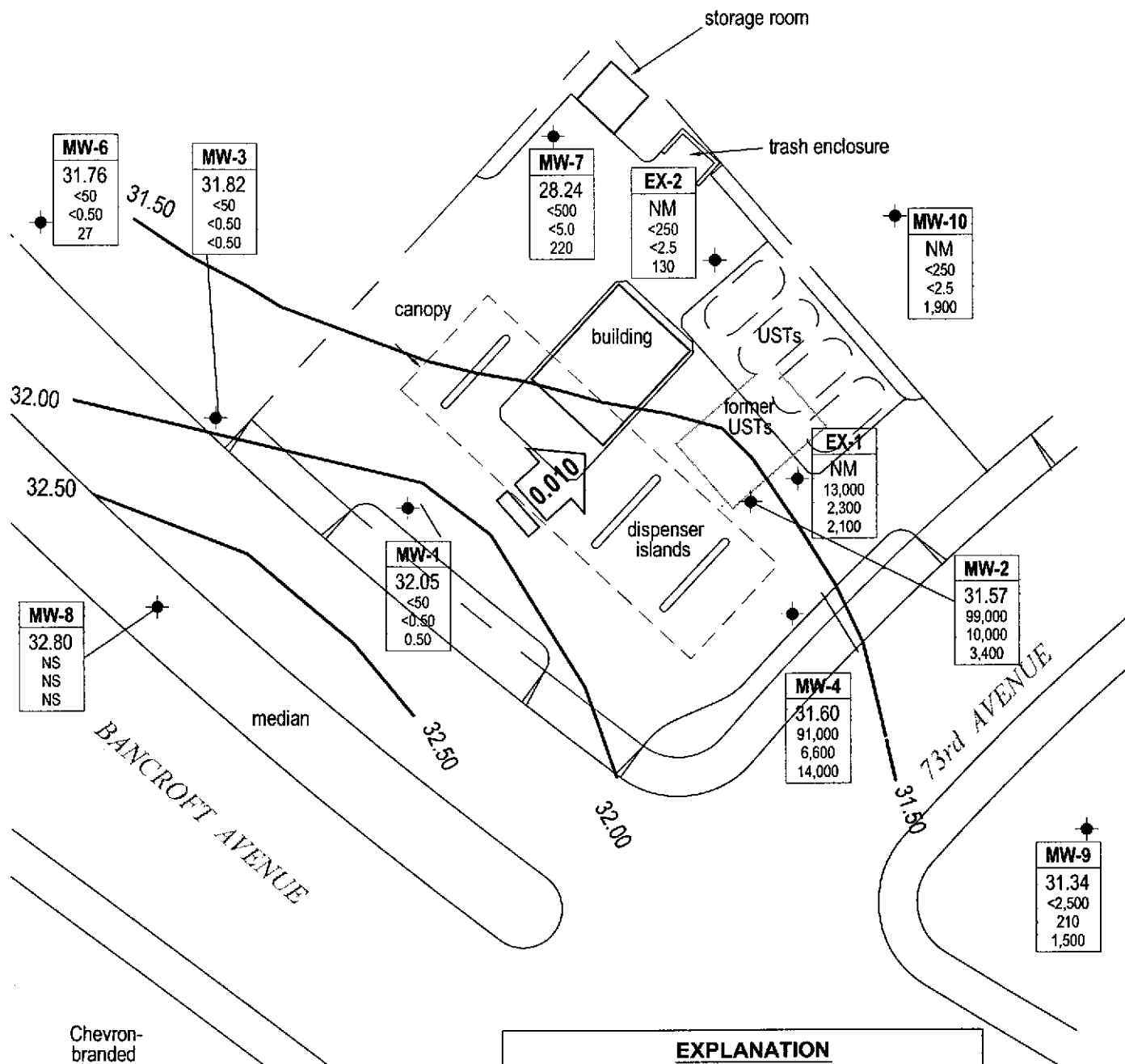
Current Phase of Project:	<u>Groundwater monitoring/sampling</u>
Frequency of Groundwater Sampling:	<u>Wells EX-1, -2, MW-1, -2, -4, -6, -7, -10 quarterly; Wells MW-9 and MW-3 semi-annually (1<sup>st</sup> and 3<sup>rd</sup> quarters); Well MW-8 annually (1<sup>st</sup> quarter).</u>
Frequency of Groundwater Monitoring:	<u>Quarterly</u>
Is Free Product (FP) Present On-Site:	<u>No</u>
Current Remediation Techniques:	<u>Monitored Natural Attenuation</u>
Approximate Depth to Groundwater:	<u>17.75 (MW-1) to 23.16 (MW-7) feet</u>
Groundwater Gradient (direction):	<u>Northeast</u>
Groundwater Gradient (magnitude):	<u>0.010 feet per foot</u>

#### DISCUSSION:

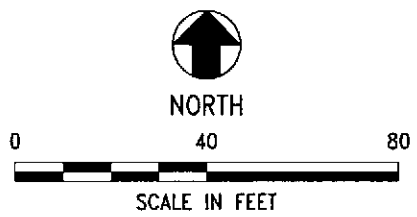
Gasoline Range Organics (GRO) were detected above laboratory reporting limits in three of the ten wells sampled this quarter at concentrations ranging from 13,000 µg/L (EX-1) to 99,000 µg/L (MW-2). Benzene was detected above laboratory reporting limits in four wells at concentrations ranging from 210 µg/L (MW-9) to 10,000 µg/L (MW-2). Methyl tert-butyl ether (MTBE) was detected above laboratory reporting limits in nine wells at concentrations ranging from 0.50 µg/L (MW-1) to 14,000 µg/L (MW-4). Tert-Amyl methyl ether (TAME) was detected in one well at a concentration of 3.4 µg/L (EX-2). No other fuel additives were detected above laboratory reporting limits. Due to very low or non-detectable concentrations of GRO, BTEX, and MTBE in wells MW-1, MW-3, MW-6 during the previous five monitoring events, URS recommends that the sampling schedule for these wells be reduced to an annual basis.

**ATTACHMENTS:**

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – August 31, 2004
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Additives Analytical Data
- Table 3 –Groundwater Flow Direction and Gradient
- Attachment A – Concentration and Water Level Trends (MW-4, MW-2, MW-10)
- Attachment B – Field Procedures and Field Data Sheets
- Attachment C – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment D – EDCC Report and EDF/Geowell Submittal Confirmation



Chevron-branded site



NOTE: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

EXPLANATION						
	Monitoring well location					
<table border="1"> <tr><td>Well</td></tr> <tr><td>ELEV</td></tr> <tr><td>GRO</td></tr> <tr><td>Benzene</td></tr> <tr><td>MTBE</td></tr> </table>	Well	ELEV	GRO	Benzene	MTBE	Well designation Groundwater elevation (ft above MSL) GRO, Benzene and MTBE concentrations in micrograms per liter (µg/L)
Well						
ELEV						
GRO						
Benzene						
MTBE						
	Groundwater flow gradient and direction (ft/ft)					
35.00 —	Groundwater elevation contour (ft above MSL)					
<	Not detected at or above laboratory reporting limit					
NM	Not measured					
NS	Not sampled					

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 Former BP Service Station #11117  
 7210 Bancroft Avenue, Oakland, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	DRO/TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-1	1/5/1992	49.80	33.16	---	16.64	57000	50000	2400	1000	1100	3100	---	ND	---	---
MW-1	1/10/1992	49.80	33.16	---	16.64	---	---	---	---	---	---	---	---	---	---
MW-1	6/5/1992	49.80	29.01	---	20.79	31000	---	2800	2100	800	2300	---	---	---	---
MW-1	7/24/1992	49.80	29.45	---	20.35	---	---	---	---	---	---	---	---	---	---
MW-1	7/27/1992	49.80	29.45	---	20.35	---	---	---	---	---	---	---	---	---	---
MW-1	9/15/1992	49.80	30.53	---	19.27	40000	1200	(c) 3400	3000	1300	3400	---	---	---	---
QC-1	(d) 9/15/1992	---	---	---	---	36000	---	3800	3400	1400	3800	---	---	---	---
MW-1	12/15/1992	49.80	31.26	---	18.54	27000	1100	(c) 1700	580	700	1900	---	---	---	---
QC-1	(d) 12/15/1992	---	---	---	---	22000	---	1500	440	510	1300	---	---	---	---
MW-1	3/15/1993	49.80	24.80	---	25.00	17000	580	1700	1200	590	1800	---	(l)	---	---
QC-1	(d) 3/15/1993	---	---	---	---	15000	---	1100	860	440	1400	---	(l)	---	---
MW-1	6/7/1993	49.80	25.01	---	24.79	750	100	0.8	0.8	ND<0.5	ND<0.5	---	(l)	---	---
QC-1	(d) 6/7/1993	---	---	---	---	720	---	0.7	0.7	ND<0.5	ND<0.5	---	(l)	---	---
MW-1	9/23/1993	49.80	28.70	---	21.10	40000	770	4000	500	920	3000	6619	(e)(l)	---	---
MW-1	12/27/1993	49.80	28.66	---	21.14	27000	---	2000	400	940	2600	13558	(e)(l)	---	---
QC-1	(d) 12/27/1993	---	---	---	---	21000	---	1700	380	830	2400	9219	(e)(l)	---	---
MW-1	4/5/1994	49.80	26.37	---	23.43	27000	---	3400	930	950	2900	8595	(e)(l)	---	---
QC-1	(d) 4/5/1994	---	---	---	---	29000	---	3700	1000	1000	3100	9672	(e)(l)	1.3	---
MW-1	7/22/1994	49.80	26.54	---	23.26	1700	---	220	2.3	2.0	3.4	262	(e)(l)	2.0	---
MW-1	10/13/1994	49.80	27.46	---	22.34	1200	---	250	21	ND<0.5	3.2	321	(e)(l)	2.6	---
MW-1	1/25/1995	49.80	20.96	---	28.84	1000	---	420	8	13	4	---	---	---	---
MW-1	4/19/1995	49.80	19.59	---	30.21	5200	---	420	51	230	340	---	---	6.0	---
MW-1	7/5/1995	49.80	19.61	---	30.19	320	---	4.2	ND<0.50	ND<0.50	ND<1.0	---	---	4.6	---
MW-1	10/5/1995	49.80	24.40	---	25.40	5800	---	1000	40	31	180	7800	---	2.3	---
MW-1	1/12/1996	49.80	25.44	---	24.36	370	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	3.7	---
MW-1	4/22/1996	49.80	18.02	---	31.78	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	3.9	---
MW-1	7/2/1996	49.80	19.72	---	30.08	---	---	---	---	---	---	---	---	---	---
MW-1	7/3/1996	49.80	---	---	---	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	ND<50	---	3.6	---
MW-1	11/8/1996	49.80	19.98	---	29.82	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.3	---
MW-1	1/3/1997	49.80	19.49	---	30.31	ND<50	---	ND<0.5	14	ND<1.0	ND<1.0	ND<10	---	4.6	---
MW-1	4/28/1997	49.80	20.20	---	29.60	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.9	---
MW-1	7/1/1997	49.80	22.53	---	27.27	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.9	---
MW-1	10/2/1997	49.80	24.27	---	25.53	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.6	---
MW-1	1/9/1998	49.80	21.07	---	28.73	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.2	---
MW-1	5/6/1998	49.80	14.94	---	34.86	60	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.8	---
MW-1	7/21/1998	49.80	15.11	---	34.69	70	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.8	---
MW-1	12/30/1998	49.80	19.95	---	29.85	---	---	---	---	---	---	---	---	---	---
MW-1	2/2/1999	49.80	19.12	---	30.68	420	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	390	---	---	---
MW-1	5/10/1999	49.80	15.51	---	34.29	---	---	---	---	---	---	---	---	---	---
MW-1	9/23/1999	49.80	21.65	---	28.15	440	---	49	ND<1.0	ND<1.0	ND<1.0	910	---	---	---
MW-1	12/23/1999	49.80	22.32	---	27.48	---	---	---	---	---	---	---	---	---	---

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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	DRO/TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-1	3/27/2000	49.80	15.72	---	34.08	2500	---	230	3.0	83	36	4400	---	---	---
MW-1	5/22/2000	49.80	16.92	---	32.88	---	---	---	---	---	---	---	---	---	---
MW-1	8/31/2000	49.80	20.12	---	29.68	1700	---	18	5.5	7.9	5.0	510	---	---	---
MW-1	12/11/2000	49.80	20.72	---	29.08	---	---	---	---	---	---	---	---	---	---
MW-1	3/20/2001	49.80	15.91	---	33.89	880	---	38.2	ND<0.5	24.1	ND<1.5	391	---	---	---
MW-1	6/19/2001	49.80	18.38	---	31.42	---	---	---	---	---	---	---	---	---	---
MW-1	9/20/2001	49.80	21.23	---	28.57	3200	---	400	19.8	42	32.5	2510	---	---	---
MW-1	12/27/2001	49.80	16.72	---	33.08	750	---	70.1	0.536	4.74	3.76	649	---	---	---
MW-1	2/28/2002	49.80	15.25	---	34.55	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	8.7	---	---	---
MW-1	6/28/2002	49.80	16.57	---	33.23	110	---	0.977	ND<0.5	0.818	ND<1.0	8.35	---	---	---
MW-1	9/12/2002*	49.80	18.41	---	31.39	98	---	2.7	1.5	1.5	5.4	48	---	---	6.9
MW-1	12/12/2002	49.80	20.26	---	29.54	210	---	1.9	ND<0.50	ND<0.50	ND<0.50	32	---	---	6.8
MW-1	3/10/2003	49.80	16.22	---	33.58	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.2	---	---	6.9
MW-1	5/12/2003	49.80	14.30	---	35.50	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	---	---	7.1
MW-1 (n)	8/27/2003	49.80	18.15	---	31.65	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.2	---	---	7.1
MW-1	11/10/2003	49.80	19.24	---	30.56	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.51	---	---	6.8
MW-1	2/3/2004	49.80	14.84	---	34.96	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	7.0
MW-1	5/4/2004	49.80	14.67	---	35.13	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	7.1
MW-1	8/31/2004	49.80	17.75	---	32.05	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.50	---	---	7.1

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MW-2	1/5/1992	51.07	DRY	---	DRY	---	---	---	---	---	---	---	---	---	---
MW-2	1/10/1992	51.07	DRY	---	DRY	---	---	---	---	---	---	---	---	---	---
MW-2	6/5/1992	51.07	30.05	---	21.02	11000	---	2000	180	490	1900	---	---	---	---
MW-2	7/24/1992	51.07	30.72	---	20.35	---	---	---	---	---	---	---	---	---	---
MW-2	7/27/1992	51.07	30.52	---	20.55	---	---	---	---	---	---	---	---	---	---
MW-2	9/15/1992	51.07	31.56	---	19.51	75000	3200	(c) 2000	6500	2300	13000	---	---	---	---
MW-2	12/15/1992	51.07	32.40	---	18.67	34000	1600	(c) 6200	8900	2000	7900	---	---	---	---
MW-2	3/15/1993	51.07	26.14	---	24.93	150000	8400	12000	18000	3200	22000	82000	(e) ---	---	---
MW-2 (f)	6/7/1993	51.07	26.38	SHEEN	24.69	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	9/23/1993	51.07	31.43	1.92	21.08	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	12/27/1993	51.07	34.07	1.07	17.80	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	4/5/1994	51.07	30.44	3.30	23.11	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	7/22/1994	51.07	28.51	0.80	23.16	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	10/13/1994	51.07	29.33	0.70	22.27	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	1/25/1995	51.07	25.55	4.25	28.71	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	4/19/1995	51.07	19.78	0.12	31.38	---	---	---	---	---	---	---	---	---	---
MW-2	7/5/1995	51.07	20.88	0.09	30.26	140000	---	14000	30000	3500	26000	---	---	---	---
MW-2 (f)	10/5/1995	51.07	24.68	0.10	26.47	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	1/12/1996	51.07	25.72	0.06	25.40	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	4/22/1996	51.07	19.33	0.08	31.80	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	7/2/1996	51.07	20.01	0.04	31.09	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	11/8/1996	51.07	20.28	0.01	30.80	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	1/3/1997	51.07	19.87	0.02	31.22	---	---	---	---	---	---	---	---	---	---
MW-2	4/28/1997	51.07	20.59	0.01	30.49	560000	---	1200	1300	290	2310	6100	---	3.9	---
MW-2	7/1/1997	51.07	22.90	0.01	28.18	24000	---	15000	16000	4900	24400	63000	---	3.7	---
QC-1 (d)	7/1/1997	---	---	---	---	150000	---	14000	13000	1800	14200	57000	---	---	---
MW-2	10/2/1997	51.07	24.65	0.02	26.44	---	---	---	---	---	---	---	---	---	---
MW-2	10/3/1997	51.07	---	---	---	250000	---	32000	39000	6000	42000	160000	---	4.5	---
MW-2	1/9/1998	51.07	21.22	0.01	29.86	420000	---	23000	29000	5800	43000	75000	---	4.0	---
QC-1 (d)	1/9/1998	---	---	---	---	300000	---	20000	25000	5200	37000	84000	---	---	---
MW-2	5/6/1998	51.07	15.10	0.01	35.98	180000	---	25000	26000	3400	22900	35000	---	3.7	---
MW-2	7/21/1998	51.07	15.31	0.01	35.77	270000	---	21000	20000	2700	18800	34000	---	3.8	---
MW-2	12/30/1998	51.07	21.10	0.10	30.05	300000	---	22000	24000	4200	26000	89000/95000	(j) ---	---	---
MW-2	2/2/1998	51.07	20.11	---	30.96	410000	---	27000	43000	6700	50000	20000	---	---	---
MW-2	5/10/1999	51.07	16.68	---	34.39	220000	---	20000	20000	2800	20000	100000	---	---	---
MW-2	9/23/1999	51.07	22.50	---	28.57	160000	---	21000	24000	2900	20000	44000	---	---	---
MW-2 (k)	12/23/1999	51.07	22.64	---	28.43	170000	---	25000	41000	3100	24000	40000	---	---	---
MW-2	3/27/2000	51.07	16.88	---	34.19	140000	---	15000	25000	3400	21000	19000	---	---	---
MW-2	5/22/2000	51.07	17.75	---	33.32	150000	---	18000	31000	3500	22000	26000	---	---	---
MW-2	8/31/2000	51.07	21.97	---	29.10	200000	---	16000	26000	2500	16000	38000	---	---	---
MW-2	12/11/2000	51.07	22.05	---	29.02	130000	---	18600	30000	3250	20600	21700	---	---	---



**Table 1**  
**Groundwater Elevation and Analytical Data**  
 Former BP Service Station #11117  
 7210 Bancroft Avenue, Oakland, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	DRO/TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-2	3/20/2001	51.07	17.75	---	33.32	140000	---	15900	24800	3700	22100	12900	---	---	---
MW-2	6/19/2001	51.07	20.15	---	30.92	130000	---	15100	19500	3300	21400	20300	---	---	---
MW-2	9/20/2001	51.07	22.14	---	28.93	110000	---	12400	12600	2230	13000	39500	---	---	---
MW-2	12/27/2001	51.07	18.17	---	32.90	150000	---	17500	26000	3050	19500	27500	---	---	---
MW-2	2/28/2002	51.07	17.42	---	33.65	120000	---	13900	18800	3030	19600	17300	---	---	---
MW-2	6/28/2002***	51.07	17.04	---	34.03	3700	---	190	23.3	139	287	826	---	---	---
MW-2	9/12/2002*	51.07	19.52	---	31.55	100,000	---	13,000	22,000	3,600	20,000	18,000	---	---	6.6
MW-2	12/12/2002	51.07	21.08	---	29.99	120,000	---	13,000	21,000	4,400	25,000	16,000	---	---	6.6
MW-2	3/10/2003	51.07	17.84	---	33.23	100,000	---	17,000	21,000	3,400	20,000	4,400	---	---	6.8
MW-2	5/12/2003	51.07	16.66	---	34.41	150,000	---	16,000	24,000	3,500	22,000	3,600	---	---	7.1
MW-2	(n) 8/27/2003	51.07	19.65	---	31.42	120,000	---	14,000	12,000	3,900	20,000	5,100	---	---	6.9
MW-2	11/10/2003	51.07	20.80	---	30.27	97,000	---	12,000	9,500	3,600	15,000	4,200	---	---	6.7
MW-2	2/3/2004	51.07	16.82	---	34.25	130,000	---	14,000	19,000	3,400	20,000	1,900	---	---	6.8
MW-2	5/4/2004	51.07	16.19	---	34.88	120,000	---	12,000	16,000	3,700	22,000	2,500	---	---	6.7
MW-2	8/31/2004	51.07	19.50	---	31.57	99,000	---	10,000	13,000	3,700	18,000	3,400	---	---	6.8

**Table 1**  
**Groundwater Elevation and Analytical Data**  
Former BP Service Station #11117  
7210 Bancroft Avenue, Oakland, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	DRO/TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-3	1/5/1992	49.95	33.69	---	16.26	7400	4000	790	23	210	40	---	ND	---	---
MW-3	1/10/1992	49.95	33.74	---	16.21	---	---	---	---	---	---	---	---	---	---
MW-3	6/5/1992	49.95	29.65	---	20.30	2000	---	130	5.3	93	20	---	---	---	---
MW-3	7/24/1992	49.95	30.14	---	19.81	---	---	---	---	---	---	---	---	---	---
MW-3	7/27/1992	49.95	30.14	---	19.81	---	---	---	---	---	---	---	---	---	---
MW-3	9/15/1992	49.95	31.07	---	18.88	450	ND<50	55	3.1	34	7.1	---	---	---	---
MW-3	12/15/1992	49.95	31.93	---	18.02	12000	710	(c) 940	ND<50	310	120	---	---	---	---
MW-3	3/15/1993	49.95	25.71	---	24.24	ND<50	60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(l)	---	---
MW-3	6/7/1993	49.95	25.80	---	24.15	150	ND<50	3.6	ND<0.5	0.9	1.3	---	(l)	---	---
MW-3	9/23/1993	49.95	29.18	---	20.77	---	---	---	---	---	---	---	---	---	---
MW-3	9/24/1993	49.95	---	---	---	160	ND<50	8.4	ND<0.5	3.7	1.3	15.3	(l)	---	---
MW-3	12/27/1993	49.95	29.25	---	20.70	9400	---	1100	48	530	120	2871	(e)(l)	---	---
MW-3	4/5/1994	49.95	26.84	---	23.11	7000	---	860	19	330	52	10414	(l)	2.0	---
MW-3	7/22/1994	49.95	26.90	---	23.11	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	2.1	---
MW-3	10/13/1994	49.95	27.83	---	22.12	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	2.6	---
MW-3	1/25/1995	49.95	21.65	---	28.30	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---
MW-3	4/19/1995	49.95	19.33	---	30.62	2400	---	170	8.0	130	27	---	---	5.0	---
MW-3	7/5/1995	49.95	20.27	---	29.68	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	4.4	---
MW-3	10/5/1995	49.95	23.73	---	26.22	2300	---	210	3.1	10	5.1	2400	---	4.2	---
MW-3	1/12/1996	49.95	24.84	---	25.11	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	4.1	---
MW-3	4/22/1996	49.95	18.60	---	31.35	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	4.4	---
MW-3	7/2/1996	49.95	18.88	---	31.07	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	4.2	---
MW-3	11/8/1996	49.95	19.14	---	30.81	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.4	---
MW-3	1/3/1997	49.95	18.72	---	31.23	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.6	---
MW-3	4/28/1997	49.95	19.38	---	30.57	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.2	---
MW-3	7/1/1997	49.95	21.65	---	28.30	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.8	---
MW-3	10/2/1997	49.95	23.45	---	26.50	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.5	---
MW-3	1/9/1998	49.95	20.10	---	29.85	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.1	---
MW-3	5/6/1998	49.95	15.57	---	34.38	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.8	---
MW-3	7/21/1998	49.95	15.88	---	34.07	51	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.8	---
QC-1	(d) 7/21/1998	---	---	---	---	60	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---
MW-3	12/30/1998	49.95	20.30	---	29.65	---	---	---	---	---	---	---	---	---	---
MW-3	2/2/1999	49.95	19.75	---	30.20	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---
MW-3	5/10/1999	49.95	16.17	---	33.78	---	---	---	---	---	---	---	---	---	---
MW-3	9/23/1999	49.95	22.05	---	27.90	---	---	---	---	---	---	---	---	---	---
MW-3	12/23/1999	49.95	22.55	---	27.40	---	---	---	---	---	---	---	---	---	---
MW-3	3/27/2000	49.95	16.40	---	33.55	350	---	22	ND<0.5	ND<0.5	ND<0.5	580	---	---	---
MW-3	5/22/2000	49.95	9.49**	---	40.46	---	---	---	---	---	---	---	---	---	---
MW-3	8/31/2000	49.95	13.02**	---	36.93	---	---	---	---	---	---	---	---	---	---
MW-3	12/11/2000	49.95	13.30**	---	36.65	---	---	---	---	---	---	---	---	---	---
MW-3	3/20/2001	49.95	16.49	---	33.46	1000	---	66.4	0.597	6.96	ND<1.5	398	---	---	---

**Table 1**  
**Groundwater Elevation and Analytical Data**  
Former BP Service Station #11117  
7210 Bancroft Avenue, Oakland, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	DRO/TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-3	6/19/2001	49.95	18.82	---	31.13	---	---	---	---	---	---	---	---	---	---
MW-3	9/20/2001	49.95	21.59	---	28.36	230	---	ND<0.5	0.593	ND<0.5	ND<1.5	289	---	---	---
MW-3	12/27/2001	49.95	17.37	---	32.58	---	---	---	---	---	---	---	---	---	---
MW-3	2/28/2002	49.95	15.81	---	34.14	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	0.58	---	---	---
MW-3	6/28/2002	49.95	17.09	---	32.86	---	---	---	---	---	---	---	---	---	---
MW-3	9/12/2002*	49.95	18.80	---	31.15	52	---	3.3	8.6	1.7	12	11	---	---	7.0
MW-3	12/12/2002	49.95	20.57	---	29.38	---	---	---	---	---	---	---	---	---	---
MW-3	3/10/2003	49.95	16.68	---	33.27	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	---	---	7.0
MW-3	5/12/2003	49.95	14.72	---	35.23	---	---	---	---	---	---	---	---	---	---
MW-3 (n)	8/27/2003	49.95	18.50	---	31.45	ND<50	---	ND<0.50	ND<0.50	ND<0.50	0.50	ND<0.50	---	---	7.1
MW-3	11/10/2003	49.95	19.66	---	30.29	---	---	---	---	---	---	---	---	---	---
MW-3	2/3/2004	49.95	15.33	---	34.62	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	7.0
MW-3	5/4/2004	49.95	15.12	---	34.83	---	---	---	---	---	---	---	---	---	---
MW-3	8/31/2004	49.95	18.13	---	31.82	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	7.1

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Former BP Service Station #11117**  
**7210 Bancroft Avenue, Oakland, CA**

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	DRO/TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-4	7/24/1992	50.76	30.02	---	20.74	42000	---	3200	3600	1400	4100	---	---	---	---
MW-4	7/27/1992	50.76	30.02	---	20.74	---	---	---	---	---	---	---	---	---	---
MW-4	9/15/1992	50.76	31.14	---	19.62	55000	1700	(c) 7600	13000	2800	9500	---	---	---	---
MW-4	12/15/1992	50.76	31.98	---	18.78	36000	2200	(c) 3700	4700	1200	4000	---	---	---	---
MW-4	3/15/1993	50.76	25.34	---	25.42	69000	1200	7600	15000	2500	11000	---	(l)	---	---
MW-4	6/7/1993	50.76	25.67	---	25.09	73000	2500	10000	19000	3400	14000	---	(l)	---	---
MW-4	9/23/1993	50.76	29.37	---	21.39	---	---	---	---	---	---	---	---	---	---
MW-4	9/24/1993	50.76	---	---	---	68000	5700	11000	2100	8600	990	390	(l)	---	---
QC-1 (d)	9/24/1993	---	---	---	---	59000	---	5300	10000	2200	8400	309	(l)	---	---
MW-4	12/27/1993	50.76	29.40	---	21.36	32000	---	2500	4400	1300	4400	387	(l)	---	---
MW-4	4/5/1994	50.76	27.09	---	23.67	64000	---	6500	14000	1900	9600	413	(l)	1.4	---
MW-4	7/22/1994	50.76	27.33	---	23.43	85000	---	10000	20000	3200	13000	796	(l)	0.8	---
QC-1 (d)	7/22/1994	---	---	---	---	85000	---	11000	21000	3300	14000	435	(l)	---	---
MW-4	10/13/1994	50.76	28.25	---	22.51	51000	---	7100	13000	2100	8900	506	(e)(l)	2.9	---
QC-1 (d)	10/13/1994	---	---	---	---	51000	---	7400	13000	2100	9100	773	(l)	---	---
MW-4	1/25/1995	50.76	21.85	---	28.91	26000	---	3600	9600	1200	6400	---	---	---	---
QC-1 (d)	1/25/1995	---	---	---	---	28000	---	4200	12000	1500	7800	---	---	---	---
MW-4	4/19/1995	50.76	19.44	---	31.32	89000	---	12000	24000	3500	18000	---	---	5.1	---
QC-1 (d)	4/19/1995	---	---	---	---	100000	---	12000	26000	3800	21000	---	---	---	---
MW-4	7/5/1995	50.76	20.52	---	30.24	130000	---	13000	29000	3300	25000	---	---	4.3	---
MW-4	10/5/1995	50.76	24.23	---	26.53	110000	---	10000	23000	3600	17000	34000	---	2.1	---
MW-4	1/12/1996	50.76	25.34	---	25.42	46000	---	3500	8300	1100	8000	3000	---	3.3	---
QC-1 (d)	1/12/1996	---	---	---	---	40000	---	3500	9000	1200	8700	4300	---	---	---
MW-4	4/22/1996	50.76	19.13	---	31.63	40000	---	5100	9600	980	11800	29000	---	3.2	---
QC-1 (d)	4/22/1996	---	---	---	---	61000	---	8300	16000	1600	15200	36000	---	---	---
MW-4	7/2/1996	50.76	20.67	---	30.09	74000	---	9800	21000	2100	16600	41000	---	3.4	---
QC-1 (d)	7/2/1996	---	---	---	---	78000	---	9800	21000	1900	15300	42000	---	---	---
MW-4	11/8/1996	50.76	20.95	---	29.81	100000	---	7900	16000	2500	13700	37000	---	3.7	---
QC-1 (d)	11/8/1996	---	---	---	---	110000	---	9100	20000	3000	15400	39000	---	---	---
MW-4	1/3/1997	50.76	20.54	---	30.22	99000	---	17000	30000	4300	22700	79000	---	4.2	---
QC-1 (d)	1/3/1997	---	---	---	---	66000	---	12000	19000	2900	15000	69000	---	---	---
MW-4	4/28/1997	50.76	21.28	---	29.48	130000	---	12000	28000	3800	21000	37000	---	3.9	---
QC-1 (d)	4/28/1997	---	---	---	---	110000	---	11000	26000	3200	18200	34000	---	---	---
MW-4	7/1/1997	50.76	23.61	---	27.15	110000	---	16000	25000	4900	24400	37000	---	3.6	---
MW-4	10/2/1997	50.76	25.39	---	25.37	---	---	---	---	---	---	---	---	---	---
MW-4	10/3/1997	50.76	---	---	---	66000	---	8200	8600	2700	13400	80000	---	4.4	---
QC-1 (d)	10/3/1997	---	---	---	---	71000	---	8600	8700	2900	13500	84000	---	---	---
MW-4	1/9/1998	50.76	21.25	---	29.51	100000	---	9700	3200	1500	4700	92000	---	3.8	---
MW-4	5/6/1998	50.76	15.96	---	34.80	430000	---	6900	31000	11000	56000	ND<5000	---	3.9	---
QC-1 (d)	5/6/1998	---	---	---	---	440000	---	8000	39000	14000	70000	ND<5000	---	---	---
MW-4	7/21/1998	50.76	16.1	---	34.66	250000	---	11000	26000	5500	26900	29000	---	3.7	---

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**Groundwater Elevation and Analytical Data**  
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**7210 Bancroft Avenue, Oakland, CA**

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	DRO/TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
QC-1	(d) 7/21/1998	---	---	---	---	210000	---	11000	27000	5600	26800	29000	---	---	---
MW-4	12/30/1998	50.76	20.91	---	29.85	370000	---	11000	22000	8500	40000	90000/92000	(j) ---	---	---
MW-4	2/2/1999	50.76	20.13	---	30.63	190000	---	4100	19000	4800	32000	28000	---	---	---
MW-4	5/10/1999	50.76	16.63	---	34.13	2700	---	23	7.1	8.1	25	120	---	---	---
MW-4	9/23/1999	50.76	22.48	---	28.28	180000	---	11000	29000	7000	38000	12000	---	---	---
MW-4	(k) 12/23/1999	50.76	22.94	---	27.82	66000	---	6300	5200	2200	7800	35000	---	---	---
MW-4	3/27/2000	50.76	16.84	---	33.92	120000	---	8700	12000	3800	16000	27000	---	---	---
MW-4	5/22/2000	50.76	17.85	---	32.91	110000	---	7600	16000	4400	20000	25000	---	---	---
MW-4	8/31/2000	50.76	21.71	---	29.05	110000	---	8800	7600	3400	14000	18000	---	---	---
MW-4	12/11/2000	50.76	22.05	---	28.71	70000	---	4580	3480	2550	9220	24400	---	---	---
MW-4	3/20/2001	50.76	17.68	---	33.08	100000	---	7100	4530	2540	9370	63100	---	---	---
MW-4	6/19/2001	50.76	19.40	---	31.36	180000	---	7430	14600	5400	25300	36100	---	---	---
MW-4	(f) 9/20/2001	50.76	22.01	0.03 (m)	28.75	---	---	---	---	---	---	---	---	---	---
MW-4	12/27/2001	50.76	17.96	---	32.80	120000	---	6880	9030	2840	14600	32300	---	---	---
MW-4	2/28/2002	50.76	17.06	---	33.70	80000	---	4920	5450	2220	12300	35900	---	---	---
MW-4	6/28/2002	50.76	17.76	---	33.00	48000	---	2780	2770	1530	6790	25100	---	---	---
MW-4	9/12/2002*	50.76	19.45	---	31.31	46,000	---	4,500	6,800	2,600	10,000	9,100	---	---	6.8
MW-4	12/12/2002	50.76	21.29	---	29.47	36,000	---	5,200	3,400	2,000	6,500	12,000	---	---	6.7
MW-4	3/10/2003	50.76	17.16	---	33.60	70,000	---	7,000	4,800	3,300	13,000	29,000	---	---	6.7
MW-4	5/12/2003	50.76	14.51	---	36.25	75,000	---	7,600	3,700	3,400	13,000	26,000	---	---	6.8
MW-4	(n) 8/27/2003	50.76	19.32	SHEEN	31.44	77,000	---	7,500	1,300	2,100	4,000	32,000	---	---	6.8
MW-4	11/10/2003	50.76	20.36	---	30.40	110,000	---	7,100	3,100	2,100	5,800	25,000	---	---	6.6
MW-4	2/3/2004	50.76	16.51	---	34.25	160,000	---	8,400	9,700	5,000	23,000	26,000	---	---	6.7
MW-4	5/4/2004	50.76	16.47	---	34.29	110,000	---	8,100	7,500	4,300	17,000	ND<250	---	---	6.7
MW-4	8/31/2004	50.76	19.16	---	31.60	91,000	---	6,600	8,400	3,700	14,000	14,000	---	---	6.7

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 Former BP Service Station #11117  
 7210 Bancroft Avenue, Oakland, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	DRO/TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-6	7/24/1992	50.32	30.63	---	19.69	ND	---	1.6	ND	ND	ND	---	---	---	---
MW-6	7/27/1992	50.32	30.63	---	19.69	---	---	---	---	---	---	---	---	---	---
MW-6	9/15/1992	50.32	31.52	---	18.80	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---
MW-6	12/15/1992	50.32	32.42	---	17.90	58	ND<50	1.3	ND<0.5	ND<0.5	ND<0.5	---	---	---	---
MW-6	3/15/1993	50.32	26.29	---	24.03	ND<50	ND<50	ND<0.5	0.6	ND<0.5	0.7	---	(l)	---	---
MW-6	6/7/1993	50.32	26.33	---	23.99	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	1.5	---	(l)	---	---
MW-6	9/23/1993	50.32	29.64	---	20.68	---	---	---	---	---	---	---	---	---	---
MW-6	9/24/1993	50.32	---	---	---	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	28.5	(l)	---	---
MW-6	12/27/1993	50.32	29.75	---	20.57	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	55.4	(e)(l)	---	---
MW-6	4/5/1994	50.32	27.26	---	23.06	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	295	(e)(l)	1.7	---
MW-6	7/22/1994	50.32	27.34	---	22.98	350	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	419	(e)(l)	4.5	---
MW-6 (g)	10/13/1994	50.32	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	1/25/1995	50.32	22.16	---	28.16	240	---	6	ND<0.5	ND<0.5	ND<1	---	---	---	---
MW-6 (g)	4/19/1995	50.32	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	7/5/1995	50.32	20.80	---	29.52	180	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	4.9	---
MW-6	10/5/1995	50.32	24.20	---	26.12	860	---	ND<5.0	ND<5.0	ND<5.0	ND<10	3600	---	2.8	---
MW-6	1/12/1996	50.32	25.30	---	25.02	860	---	ND<5.0	ND<5.0	ND<5.0	ND<10	2800	---	4.2	---
MW-6	4/22/1996	50.32	19.13	---	31.19	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	470	---	4.3	---
MW-6	7/2/1996	50.32	20.66	---	29.66	100	---	ND<0.5	ND<1	ND<1	ND<1	1100	---	4.2	---
MW-6	11/8/1996	50.32	20.98	---	29.34	1100	---	ND<5	ND<10	ND<10	ND<10	1500	---	4.3	---
MW-6	1/3/1997	50.32	20.53	---	29.79	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	450	---	4.5	---
MW-6	4/28/1997	50.32	21.25	---	29.07	1400	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	3500	---	4.4	---
MW-6	7/1/1997	50.32	23.40	---	26.92	6100	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	9100	---	3.9	---
MW-6	10/2/1997	50.32	25.16	---	25.16	---	---	---	---	---	---	---	---	---	---
MW-6	10/3/1997	50.32	---	---	---	330	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	2600	---	4.4	---
MW-6	1/9/1998	50.32	21.13	---	29.19	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.3	---
MW-6	5/6/1998	50.32	16.11	---	34.21	410	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	500	---	3.6	---
MW-6	7/21/1998	50.32	16.33	---	33.99	4300	---	ND<5	ND<10	ND<10	ND<10	3800	---	4.0	---
MW-6	12/30/1998	50.32	20.89	---	29.43	---	---	---	---	---	---	---	---	---	---
MW-6	2/2/1999	50.32	20.20	---	30.12	---	---	---	---	---	---	---	---	---	---
MW-6	5/10/1999	50.32	16.75	---	33.57	---	---	---	---	---	---	---	---	---	---
MW-6	9/23/1999	50.32	22.55	---	27.77	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1600	---	---	---
MW-6	12/23/1999	50.32	23.00	---	27.32	---	---	---	---	---	---	---	---	---	---
MW-6	3/27/2000	50.32	16.89	---	33.43	1700	---	4.4	0.54	ND<0.5	1.0	14000	---	---	---
MW-6	5/22/2000	50.32	18.02	---	32.30	---	---	---	---	---	---	---	---	---	---
MW-6	8/31/2000	50.32	21.62	---	28.70	1200	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3900	---	---	---
MW-6	12/11/2000	50.32	21.81	---	28.51	---	---	---	---	---	---	---	---	---	---
MW-6	3/20/2001	50.32	16.97	---	33.35	3300	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	3760	---	---	---
MW-6	6/19/2001	50.32	19.30	---	31.02	---	---	---	---	---	---	---	---	---	---
MW-6	9/20/2001	50.32	22.00	---	28.32	2200	---	2.04	8.1	3.62	13.7	2460	---	---	---
MW-6	12/27/2001	50.32	17.85	---	32.47	830	---	0.59	ND<0.5	ND<0.5	ND<1.0	1040	---	---	---

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Former BP Service Station #11117  
7210 Bancroft Avenue, Oakland, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	DRO/TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-6	2/28/2002	50.32	16.31	---	34.01	1100	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	1450	---	---	---
MW-6	6/28/2002	50.32	17.57	---	32.75	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	1020	---	---	---
MW-6	9/12/2002*	50.32	19.27	---	31.05	190	---	1.9	4.6	1	7.3	480	---	---	7.1
MW-6	12/12/2002	50.32	20.94	---	29.38	270	---	ND<2.5	ND<2.5	ND<2.5	ND<2.5	500	---	---	6.9
MW-6	3/10/2003	50.32	17.11	---	33.21	110	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	190	---	---	7.0
MW-6	5/12/2003	50.32	15.18	---	35.14	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	36	---	---	7.0
MW-6 (n)	8/27/2003	50.32	18.90	---	31.42	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	8.9	---	---	7.0
MW-6	11/10/2003	50.32	20.13	---	30.19	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.5	---	---	6.8
MW-6	2/3/2004	50.32	15.83	---	34.49	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	6.9
MW-6	5/4/2004	50.32	15.62	---	34.70	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	24	---	---	6.9
<b>MW-6</b>	<b>8/31/2004</b>	<b>50.32</b>	<b>18.56</b>	---	<b>31.76</b>	<b>ND&lt;50</b>	---	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>27</b>	---	---	<b>7.0</b>

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**Groundwater Elevation and Analytical Data**  
 Former BP Service Station #11117  
 7210 Bancroft Avenue, Oakland, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	DRO/TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-7	1/25/1995	51.40	21.67	---	29.73	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	7.0	---
MW-7	4/19/1995	51.40	25.27	---	26.13	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	5.0	---
MW-7	7/5/1995	51.40	24.63	---	26.77	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	4.2	---
MW-7	10/5/1995	51.40	28.21	---	23.19	83	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	77	---	4.5	---
MW-7	1/12/1996	51.40	29.29	---	22.11	63	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	120	---	4.8	---
MW-7	4/22/1996	51.40	23.11	---	28.29	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	13	---	4.8	---
MW-7	7/2/1996	51.40	23.56	---	27.84	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	4.8	---
MW-7	11/8/1996	51.40	20.06	---	31.34	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	5.1	---
MW-7	1/3/1997	51.40	23.42	---	27.98	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.7	---
MW-7	4/28/1997	51.40	24.12	---	27.28	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.9	---
MW-7	7/1/1997	51.40	26.40	---	25.00	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.2	---
MW-7	10/2/1997	51.40	28.14	---	23.26	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.7	---
MW-7	1/9/1998	51.40	24.02	---	27.38	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.1	---
MW-7	5/6/1998	51.40	21.00	---	30.40	1900	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	1800	---	3.5	---
MW-7	7/21/1998	51.40	21.17	---	30.23	50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.7	---
MW-7	12/30/1998	51.40	22.13	---	29.27	---	---	---	---	---	---	---	---	---	---
MW-7	2/2/1999	51.40	22.08	---	29.32	---	---	---	---	---	---	---	---	---	---
MW-7	5/10/1999	51.40	18.58	---	32.82	---	---	---	---	---	---	---	---	---	---
MW-7	9/23/1999	51.40	24.29	---	27.11	70	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	4700	---	---	---
MW-7	12/23/1999	51.40	24.53	---	26.87	---	---	---	---	---	---	---	---	---	---
MW-7	3/27/2000	51.40	18.58	---	32.82	910	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2600	---	---	---
MW-7	5/22/2000	51.40	19.49	---	31.91	---	---	---	---	---	---	---	---	---	---
MW-7	8/31/2000	51.40	22.53	---	28.87	440	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	900	---	---	---
MW-7	12/11/2000	51.40	22.75	---	28.65	---	---	---	---	---	---	---	---	---	---
MW-7	3/20/2001	51.40	18.79	---	32.61	1100	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	1210	---	---	---
MW-7	6/19/2001	51.40	19.82	---	31.58	---	---	---	---	---	---	---	---	---	---
MW-7	9/20/2001	51.40	21.35	---	30.05	1300	---	1.21	ND<0.5	ND<0.5	ND<1.5	1550	---	---	---
MW-7	12/27/2001	51.40	20.36	---	31.04	510	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	643	---	---	---
MW-7	2/28/2002	51.40	21.86	---	29.54	250	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	317	---	---	---
MW-7	6/28/2002	51.40	22.64	---	28.76	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	102	---	---	---
MW-7	9/12/2002*	51.40	23.51	---	27.89	ND<50	---	ND<0.5	ND<0.5	ND<0.5	1	14	---	7.5	---
MW-7	12/12/2002	51.40	23.75	---	27.65	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	---	7.5	---
MW-7	3/10/2003	51.40	21.25	---	30.15	61	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	99	---	7.6	---
MW-7	5/12/2003	51.40	21.44	---	29.96	ND<100	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	120	---	7.6	---
MW-7 (n)	8/27/2003	51.40	23.30	---	28.10	120	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	84	---	7.6	---
MW-7	11/10/2003	51.40	20.24	---	31.16	230 (o)	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	92	---	6.7	---
MW-7	2/3/2004	51.40	20.63	---	30.77	ND<250	---	ND<2.5	ND<2.5	ND<2.5	ND<2.5	91	---	7.5	---
MW-7	5/4/2004	51.40	21.89	---	29.51	ND<250	---	ND<2.5	ND<2.5	ND<2.5	ND<2.5	190	(k)	7.6	---
MW-7	8/31/2004	51.40	23.16	---	28.24	ND<500	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	220	---	7.3	---



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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (Feet) (a)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (ug/L) (b)	DRO/TPH-D (ug/L) (p)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-8	1/25/1995	50.88	31.59	---	19.29	54	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	7.1	---
MW-8	4/19/1995	50.88	19.18	---	31.70	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	5.1	---
MW-8	7/5/1995	50.88	19.03	---	31.85	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	4.5	---
MW-8	10/5/1995	50.88	24.40	---	26.48	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	4.1	---
MW-8	1/12/1996	50.88	25.51	---	25.37	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	4.6	---
MW-8	4/22/1996	50.88	18.00	---	32.88	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	4.8	---
MW-8	7/2/1996	50.88	19.83	---	31.05	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	4.5	---
MW-8	11/8/1996	50.88	20.09	---	30.79	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.7	---
MW-8	1/3/1997	50.88	19.72	---	31.16	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.4	---
MW-8	4/28/1997	50.88	20.44	---	30.44	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.1	---
MW-8	7/1/1997	50.88	22.72	---	28.16	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.8	---
MW-8	10/2/1997	50.88	24.51	---	26.37	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.2	---
MW-8	1/9/1998	50.88	21.17	---	29.71	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.5	---
MW-8	5/6/1998	50.88	18.34	---	32.54	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.6	---
MW-8	7/21/1998	50.88	18.55	---	32.33	90	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.3	---
MW-8	12/30/1998	50.88	20.40	---	30.48	---	---	---	---	---	---	---	---	---	---
MW-8	2/2/1999	50.88	19.28	---	31.60	---	---	---	---	---	---	---	---	---	---
MW-8	5/10/1999	50.88	15.62	---	35.26	---	---	---	---	---	---	---	---	---	---
MW-8	9/23/1999	50.88	21.74	---	29.14	---	---	---	---	---	---	---	---	---	---
MW-8	12/23/1999	50.88	22.83	---	28.05	---	---	---	---	---	---	---	---	---	---
MW-8	3/27/2000	50.88	16.25	---	34.63	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
MW-8	5/22/2000	50.88	17.06	---	33.82	---	---	---	---	---	---	---	---	---	---
MW-8	8/31/2000	50.88	21.72	---	29.16	---	---	---	---	---	---	---	---	---	---
MW-8	12/11/2000	50.88	22.03	---	28.85	---	---	---	---	---	---	---	---	---	---
MW-8	3/20/2001	50.88	16.23	---	34.65	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	0.991	---	---	---
MW-8	6/19/2001	50.88	19.35	---	31.53	---	---	---	---	---	---	---	---	---	---
MW-8	9/20/2001	50.88	21.95	---	28.93	---	---	---	---	---	---	---	---	---	---
MW-8	12/27/2001	50.88	16.98	---	33.90	---	---	---	---	---	---	---	---	---	---
MW-8	2/28/2002	50.88	15.38	---	35.50	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<0.5	---	---	---
MW-8	6/28/2002	50.88	16.97	---	33.91	---	---	---	---	---	---	---	---	---	---
MW-8	9/12/2002*	50.88	19.47	---	31.41	---	---	---	---	---	---	---	---	---	---
MW-8	12/12/2002	50.88	20.84	---	30.04	---	---	---	---	---	---	---	---	---	---
MW-8	3/10/2003	50.88	16.56	---	34.32	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.0	---	---	7.1
MW-8	5/12/2003	50.88	13.63	---	37.25	---	---	---	---	---	---	---	---	---	---
MW-8	(n) 8/27/2003	50.88	18.90	---	31.98	---	---	---	---	---	---	---	---	---	---
MW-8	11/10/2003	50.88	19.68	---	31.20	---	---	---	---	---	---	---	---	---	---
MW-8	2/3/2004	50.88	14.76	---	36.12	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	7.5
MW-8	5/4/2004	50.88	14.69	---	36.19	---	---	---	---	---	---	---	---	---	---
<b>MW-8</b>	<b>8/31/2004</b>	<b>50.88</b>	<b>18.08</b>	<b>---</b>	<b>32.80</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>

**Table 1**  
**Groundwater Elevation and Analytical Data**  
Former BP Service Station #11117  
7210 Bancroft Avenue, Oakland, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	DRO/TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-9	1/25/1995	51.05	22.32	--	28.73	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	--	--	7.4	--
MW-9	4/19/1995	51.05	19.86	--	31.19	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	--	--	5.2	--
MW-9	7/5/1995	51.05	20.78	--	30.27	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	4.4	--
MW-9	10/5/1995	51.05	24.33	--	26.72	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	2.3	--
QC-1	(d) 10/5/1995	--	--	--	--	52	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	160	--	--	--
MW-9	1/12/1996	51.05	25.44	--	25.61	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	--	3.2	--
MW-9	4/22/1996	51.05	18.01	--	33.04	ND<50	--	ND<0.5	ND<1	ND<1	ND<1	11	--	3.5	--
MW-9	7/2/1996	51.05	19.70	--	31.35	ND<50	--	ND<0.5	ND<1	ND<1	ND<1	ND<10	--	3.3	--
MW-9	11/8/1996	51.05	19.96	--	31.09	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	3.7	--
MW-9	1/3/1997	51.05	19.52	--	31.53	ND<250	--	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	--	4.4	--
MW-9	4/28/1997	51.05	20.22	--	30.83	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	4.0	--
MW-9	7/1/1997	51.05	22.59	--	28.46	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	3.9	--
MW-9	10/2/1997	51.05	24.33	--	26.72	--	--	--	--	--	--	--	--	--	--
MW-9	10/3/1997	51.05	--	--	--	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	4.4	--
MW-9	1/9/1998	51.05	21.11	--	29.94	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	3.9	--
MW-9	5/6/1998	51.05	18.26	--	32.79	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	4.0	--
MW-9	7/21/1998	51.05	18.46	--	32.59	70	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	3.7	--
MW-9	(g) 12/30/1998	51.05	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	(g) 2/2/1999	51.05	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	(g) 5/10/1999	51.05	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	(g) 9/23/1999	51.05	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	(g) 12/23/1999	51.05	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	(g) 3/27/2000	51.05	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	(g) 5/22/2000	51.05	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	(g) 8/31/2000	51.05	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	(g) 12/11/2000	51.05	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	(g) 3/20/2001	51.05	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	(g) 6/19/2001	51.05	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	9/20/2001	51.05	22.20	--	28.85	6300	--	2.87	ND<0.5	ND<0.5	ND<1.5	8640	--	--	--
MW-9	12/27/2001	51.05	18.92	--	32.13	--	--	--	--	--	--	--	--	--	--
MW-9	2/28/2002	51.05	17.22	--	33.83	19000	--	1560	61.3	84	111	20200	--	--	--
MW-9	6/28/2002	51.05	18.20	--	32.85	--	--	--	--	--	--	--	--	--	--
MW-9	9/12/2002*	51.05	19.92	--	31.13	5100	--	570	180	ND<25	220	6400	--	--	6.8
MW-9	12/12/2002	51.05	21.78	--	29.27	--	--	--	--	--	--	--	--	--	--
MW-9	3/10/2003	51.05	18.25	--	32.80	26,000	--	2,500	ND<100	ND<100	ND<100	33,000	--	--	6.9
MW-9	5/12/2003	51.05	16.29	--	34.76	--	--	--	--	--	--	--	--	--	--
MW-9	(n) 8/27/2003	51.05	19.69	--	31.36	11,000	--	830	ND<50	ND<50	ND<50	6,300	--	--	7.1
MW-9	11/10/2003	51.05	19.94	--	31.11	--	--	--	--	--	--	--	--	--	--
MW-9	2/3/2004	51.05	17.23	--	33.82	6,200	--	180	ND<50	ND<50	ND<50	2,100	--	--	7.2
MW-9	5/4/2004	51.05	17.17	--	33.88	--	--	--	--	--	--	--	--	--	--
MW-9	8/31/2004	51.05	19.71	--	31.34	ND<2,500	--	210	ND<25	ND<25	ND<25	1,500	--	--	7.0

**Table 1**  
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**Former BP Service Station #11117**  
**7210 Bancroft Avenue, Oakland, CA**

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	DRO/TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
MW-10	1/9/1998	---	(h) 20.97	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.3	---
MW-10	5/6/1998	---	(h) 18.07	---	---	800	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	980	---	3.9	---
MW-10	7/21/1998	---	(h) 18.28	---	---	80	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.0	---
MW-10	12/30/1998	---	(h) 22.22	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	2/2/1999	---	(h) 21.83	---	---	940	---	ND<10	ND<10	ND<10	ND<10	690	---	---	---
MW-10	5/10/1999	---	(h) 17.99	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	9/23/1999	---	(h) 22.61	---	---	ND<50	---	ND<1.0	ND<1.0	ND<1.0	1.4	1000	---	---	---
MW-10	12/23/1999	---	(h) 23.75	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	3/27/2000	---	(h) 18.83	---	---	1900	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	28000	---	---	---
MW-10	5/22/2000	---	(h) 19.47	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	8/31/2000	---	(h) 22.64	---	---	1700	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13000	---	---	---
MW-10	12/11/2000	---	(h) 22.84	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	3/20/2001	---	(h) 19.57	---	---	16000	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	11900	---	---	---
MW-10	6/19/2001	---	(h) 20.63	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	9/20/2001	---	(h) 23.07	---	---	5800	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	8160	---	---	---
MW-10	12/27/2001	---	(h) 20.92	---	---	6600	---	17.3	14.5	ND<12.5	ND<25	7750	---	---	---
MW-10	2/28/2002	---	(h) 18.52	---	---	3600	---	10.8	ND<0.5	ND<0.5	ND<1.0	5380	---	---	---
MW-10	6/28/2002	---	(h) 18.41	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	2570	---	---	---
MW-10	9/12/2002*	---	(h) 20.57	---	---	660	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	3300	---	---	7.2
MW-10	12/12/2002	---	(h) 22.80	---	---	1400	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	3300	---	---	6.9
MW-10	3/10/2003	---	(h) 19.26	---	---	1,700	---	ND<5.0	ND<5.0	5.3	15	2,800	---	---	6.9
MW-10	5/12/2003	---	(h) 17.90	---	---	1,500	---	ND<12	ND<12	ND<12	ND<12	2,200	---	---	6.9
MW-10 (n)	8/27/2003	---	(h) 20.82	---	---	4,100	---	ND<25	ND<25	ND<25	ND<25	2,800	---	---	7.0
MW-10	11/10/2003	---	(h) 21.92	---	---	ND<5,000	---	ND<50	ND<50	ND<50	ND<50	3,300	---	---	6.8
MW-10	2/3/2004	---	(h) 18.52	---	---	5,100 (q)	---	ND<50	ND<50	ND<50	ND<50	2,300	---	---	7.0
MW-10	5/4/2004	---	(h) 17.63	---	---	ND<2,500	---	ND<25	ND<25	ND<25	ND<25	1,600	---	---	6.8
<b>MW-10</b>	<b>8/31/2004</b>	---	<b>(h) 20.67</b>	---	---	<b>ND&lt;5,000</b>	---	<b>ND&lt;50</b>	<b>ND&lt;50</b>	<b>ND&lt;50</b>	<b>ND&lt;50</b>	<b>1,900</b>	---	---	<b>7.0</b>
EX-1	5/4/2004	---	(h) 16.29	---	---	12,000	---	2,300	430	740	1,100	2,500	---	---	6.8
EX-1	8/31/2004	---	(h) 19.39	---	---	13,000	---	2,300	95	650	1,500	2,100	---	---	6.7
EX-2	5/4/2004	---	(h) 16.65	---	---	ND<50	---	0.63	ND<0.50	ND<0.50	0.66	46	---	---	6.7
EX-2	8/31/2004	---	(h) 19.90	---	---	ND<250	---	ND<2.5	ND<2.5	ND<2.5	ND<2.5	130	---	---	6.9

**Table 1**  
**Groundwater Elevation and Analytical Data**  
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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	DRO/TPH-D (p) (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	pH
QC-2	(i) 9/15/1992	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---
QC-2	(i) 12/15/1992	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---
QC-2	(i) 3/15/1993	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(l)	---	---
QC-2	(i) 6/7/1993	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(l)	---	---
QC-2	(i) 9/24/1993	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	---	---
QC-2	(i) 12/27/1993	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	---	---
QC-2	(i) 4/5/1994	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	---	---
QC-2	(i) 7/22/1994	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	---	---
QC-2	(i) 10/13/1994	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	---	---
QC-2	(i) 1/25/1995	---	---	---	---	ND<50	---	ND<0.5	2	0.6	1	---	---	---	---
QC-2	(i) 4/19/1995	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---
QC-2	(i) 7/5/1995	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---
QC-2	(i) 10/5/1995	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---
QC-2	(i) 1/12/1996	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---
QC-2	(i) 4/22/1996	---	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---
QC-2	(i) 7/2/1996	---	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 Former BP Service Station #11117  
 7210 Bancroft Avenue, Oakland, CA

**ABBREVIATIONS:**

GRO	Gasoline Range Organics, C4-C12 range
TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
MTBE	Methyl tert butyl ether
DO	Dissolved Oxygen - field measurement
pH	pH Level - field measurement
ug/L	Micrograms per liter
mg/L	Milligrams per liter
ND<	Not detected at or above laboratory reporting limit
---	Not analyzed/applicable/measurable
TOC	Top of casing
DTW	Depth to water

**NOTES:**

- (a) Casing elevations surveyed to the nearest 0.01 foot relative to mean sea level.
  - (b) Groundwater elevations adjusted assuming a specific gravity of 0.75 for free product.
  - (c) Concentrations reported as diesel from MW-1, MW-2 and MW-4 are primarily due to the presence of a lighter petroleum product, possibly gasoline or kerosene.
  - (d) Blind duplicate.
  - (e) A copy of the documentation for this data is included in Alisto report 10-018-05-004.
  - (f) Well not sampled due to presence of free product.
  - (g) Well inaccessible.
  - (h) Top of casing not surveyed.
  - (i) Travel blank.
  - (j) EPA method by 8020/8260.
  - (k) Samples ran outside of EPA recommended hold time.
  - (l) A copy of the documentation for this data can be found in Blaine Tech Services report 010619-C-2. The MTBE data for the March 15, 1993 and June 7, 1993 events have been destroyed.
  - (m) Thickness of SPH is only an estimate. The resulting groundwater elevation will not be used in contouring.
  - (n) Samples analyzed by EPA Method 8260B for TPH-g, BTEX, and fuel oxygenates
  - (o) Discrete Peak @ C6-C7
  - (p) Beginning with the Third Quarter 2003 (08/27/03), the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as Gasoline (TPH-g) has been changed to Gasoline Range Organics (GRO). The resulting data may be impacted by the potential inclusion of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported. Also, beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12.
  - (q) Discrete Peak @ C5-C6
- \* During the third quarter of 2002, URS Corporation assumed groundwater monitoring activities for BP  
 \*\* Depth to water and resulting groundwater elevation is anomalous and not used in groundwater contouring.  
 \*\*\* Anomalously low concentrations reported from Cambria. Do not appear to support historic trends.

Source: The data within this table collected prior to June 2002 was provided to URS by Atlantic Richfield Company and their previous consultants. URS has not verified tenaccuracy of this information.

**Table 2**  
**Fuel Additive Analytical Data**  
Former BP Service Station #11117  
7210 Bancroft Avenue, Oakland, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-1	8/27/2003	ND<100	ND<20	4.2	ND<0.50	ND<0.50	ND<0.50	---	---
MW-1	11/10/2003	ND<100	ND<20	0.51	ND<0.50	ND<0.50	ND<0.50	---	---
MW-1	2/3/2004	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-1	5/4/2004	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
<b>MW-1</b>	<b>8/31/2004</b>	<b>ND&lt;100</b>	<b>ND&lt;20</b>	<b>0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>
MW-2	8/27/2003	ND<25,000	ND<5,000	5,100	ND<120	ND<120	140	---	---
MW-2	11/10/2003	ND<50,000	ND<10,000	4,200	ND<250	ND<250	ND<250	---	---
MW-2	2/3/2004	ND<100,000	ND<20,000	1,900	ND<500	ND<500	ND<500	ND<500	ND<500
MW-2	5/4/2004	ND<50,000	ND<10,000	2,500	ND<250	ND<250	ND<250	ND<250	ND<250
<b>MW-2</b>	<b>8/31/2004</b>	<b>ND&lt;50,000</b>	<b>ND&lt;10,000</b>	<b>3,400</b>	<b>ND&lt;250</b>	<b>ND&lt;250</b>	<b>ND&lt;250</b>	<b>ND&lt;250</b>	<b>ND&lt;250</b>
MW-3	8/27/2003	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-3	2/3/2004	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
<b>MW-3</b>	<b>8/31/2004</b>	<b>ND&lt;100</b>	<b>ND&lt;20</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>
MW-4	8/27/2003	ND<50,000	ND<10,000	32,000	ND<250	ND<250	250	250	250
MW-4	11/10/2003	ND<100,000	ND<20,000	25,000	ND<500	ND<500	ND<500	ND<500	ND<500
MW-4	2/3/2004	ND<100,000	ND<20,000	26,000	ND<500	ND<500	ND<500	ND<500	ND<500
MW-4	5/4/2004	ND<50,000	ND<10,000	ND<250	ND<250	ND<250	ND<250	ND<250	ND<250
<b>MW-4</b>	<b>8/31/2004</b>	<b>ND&lt;50,000</b>	<b>ND&lt;10,000</b>	<b>14,000</b>	<b>ND&lt;250</b>	<b>ND&lt;250</b>	<b>ND&lt;250</b>	<b>ND&lt;250</b>	<b>ND&lt;250</b>
MW-6	8/27/2003	ND<100	ND<20	8.9	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-6	11/10/2003	ND<100	ND<20	4.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-6	2/3/2004	ND<100 (a)	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-6	5/4/2004	ND<100	ND<20	24	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
<b>MW-6</b>	<b>8/31/2004</b>	<b>ND&lt;100</b>	<b>ND&lt;20</b>	<b>27</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>
MW-7	8/27/2003	ND<100	ND<20	84	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-7	11/10/2003	ND<200	ND<40	92	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
MW-7	2/3/2004	ND<500	ND<100	91	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
MW-7	5/4/2004	ND<500	ND<100	190	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
<b>MW-7</b>	<b>8/31/2004</b>	<b>ND&lt;1,000</b>	<b>ND&lt;200</b>	<b>220</b>	<b>ND&lt;5.0</b>	<b>ND&lt;5.0</b>	<b>ND&lt;5.0</b>	<b>ND&lt;5.0</b>	<b>ND&lt;5.0</b>
MW-8	2/3/2004	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-9	8/27/2003	ND<10,000	ND<2,000	6,300	ND<50	ND<50	ND<50	ND<50	ND<50
MW-9	2/3/2004	ND<10,000 (a)	ND<2,000	2,100	ND<50	ND<50	ND<50	ND<50	ND<50
<b>MW-9</b>	<b>8/31/2004</b>	<b>ND&lt;5,000</b>	<b>ND&lt;1,000</b>	<b>1,500</b>	<b>ND&lt;25</b>	<b>ND&lt;25</b>	<b>ND&lt;25</b>	<b>ND&lt;25</b>	<b>ND&lt;25</b>
MW-10	8/27/2003	ND<5,000	ND<1,000	2,800	ND<25	ND<25	ND<25	ND<25	ND<25
MW-10	11/10/2003	ND<10,000	ND<2,000	3,300	ND<50	ND<50	ND<50	ND<50	ND<50
MW-10	2/3/2004	ND<10,000 (a)	ND<2,000	2,300	ND<50	ND<50	ND<50	ND<50	ND<50
MW-10	5/4/2004	ND<5,000	ND<1,000	1,600	ND<25	ND<25	ND<25	ND<25	ND<25
<b>MW-10</b>	<b>8/31/2004</b>	<b>ND&lt;10,000</b>	<b>ND&lt;2,000</b>	<b>1,900</b>	<b>ND&lt;50</b>	<b>ND&lt;50</b>	<b>ND&lt;50</b>	<b>ND&lt;50</b>	<b>ND&lt;50</b>
EX-1	5/4/2004	ND<5,000 (a)	ND<1,000	2,500	ND<25	ND<25	38	ND<25	ND<25
<b>EX-1</b>	<b>8/31/2004</b>	<b>ND&lt;10,000</b>	<b>ND&lt;2,000</b>	<b>2,100</b>	<b>ND&lt;50</b>	<b>ND&lt;50</b>	<b>ND&lt;50</b>	<b>ND&lt;50</b>	<b>ND&lt;50</b>
EX-2	5/4/2004	ND<100	ND<20	46	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
<b>EX-2</b>	<b>8/31/2004</b>	<b>ND&lt;500</b>	<b>ND&lt;100</b>	<b>130</b>	<b>ND&lt;2.5</b>	<b>ND&lt;2.5</b>	<b>3.4</b>	<b>ND&lt;2.5</b>	<b>ND&lt;2.5</b>

**Table 2**  
**Fuel Additive Analytical Data**  
Former BP Service Station #11117  
7210 Bancroft Avenue, Oakland, CA

**NOTES:**

All volatile organic compounds (Ethanol, TBA, MTBE, DIPE, ETBE, TAME, 1,2-DCA, and EDB) analyzed using EPA Method 8260B

1,2-DCA = 1,2-Dichloroethane  
DIPE = Di-isopropyl ether  
EDB = 1,2-Dibromoethane  
ETBE = Ethyl tert-butyl ether  
MTBE = Methyl tert-butyl ether  
ND< = Not detected at or above laboratory reporting limit  
TAME = tert-Amyl methyl ether  
TBA = tert-Butyl alcohol  
µg/L = Micrograms per Liter

- a = The continuing calibration verification was outside of client contractual acceptance limits by 0.6% high. However, it was within method acceptance limits. The data should still be useful for its intended purpose.

**Table 3**  
**Groundwater Flow Direction and Gradient**

Former BP Service Station #11117  
7210 Bancroft Avenue  
Oakland, CA

<b>Date Measured</b>	<b>Average Flow Direction</b>	<b>Average Hydraulic Gradient</b>
09/12/02	Northeast	0.03
12/12/02	Northeast	0.02
03/10/03	Northeast	0.03
05/12/03	North-Northeast	0.055
08/27/03	North-Northeast	0.036
11/10/03	North-Northeast	0.012
02/03/04	Northeast	0.013
05/04/04	Northeast	0.015
<b>08/31/04</b>	<b>Northeast</b>	<b>0.010</b>

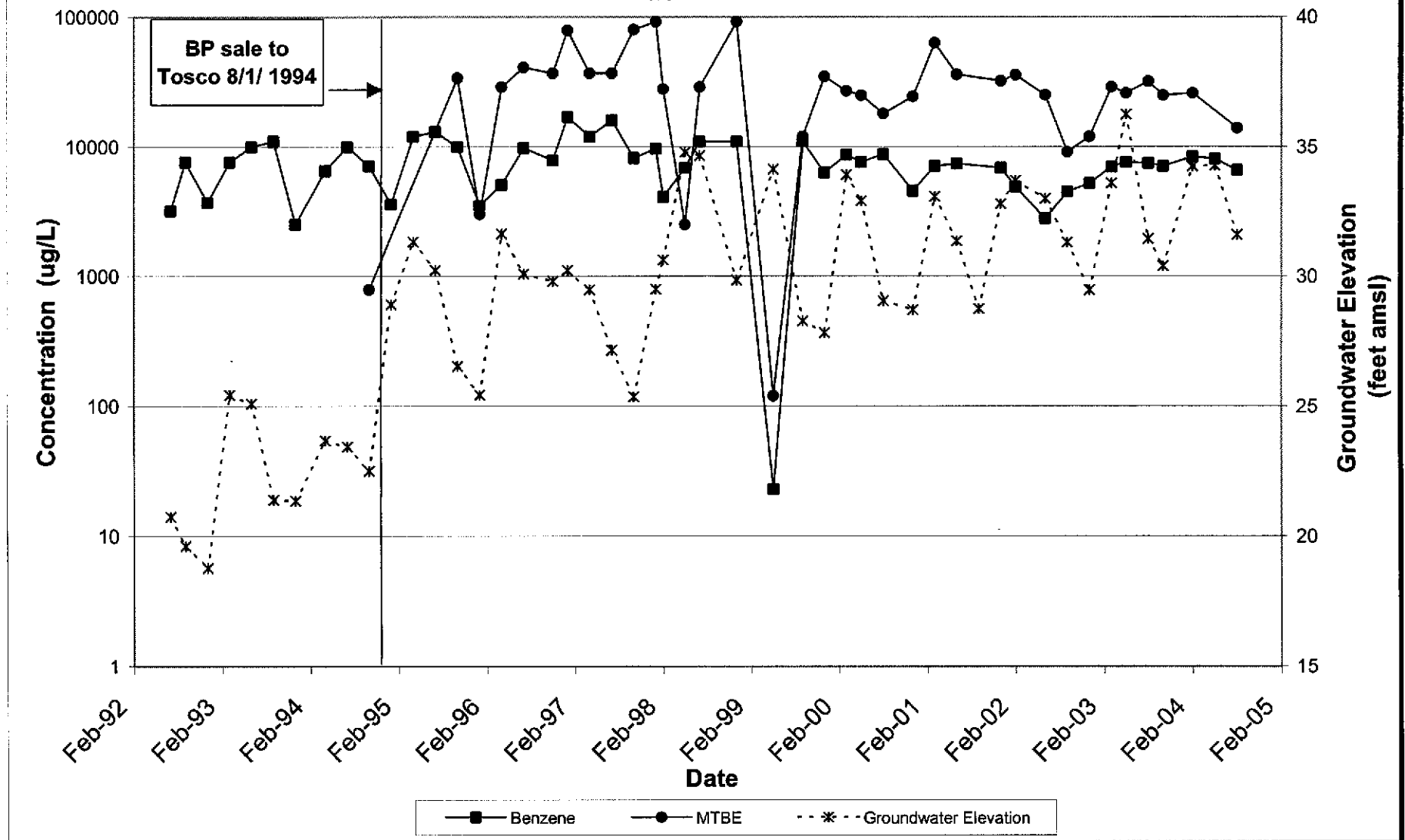


**ATTACHMENT A**

**CONCENTRATION AND WATER LEVEL TRENDS  
(MW-4, MW-2, MW-10)**

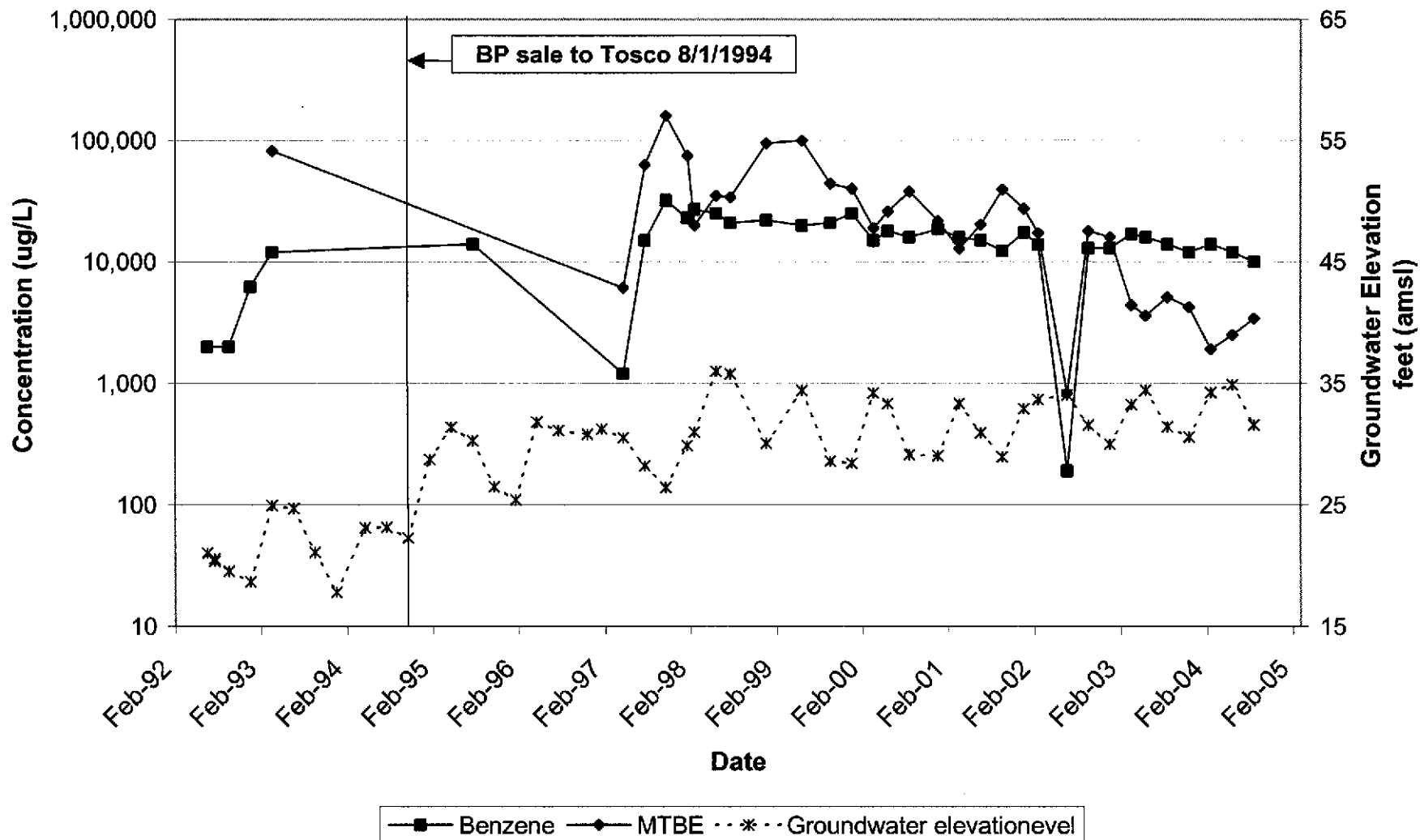
# Concentration and Water Elevation Trends

## MW-4



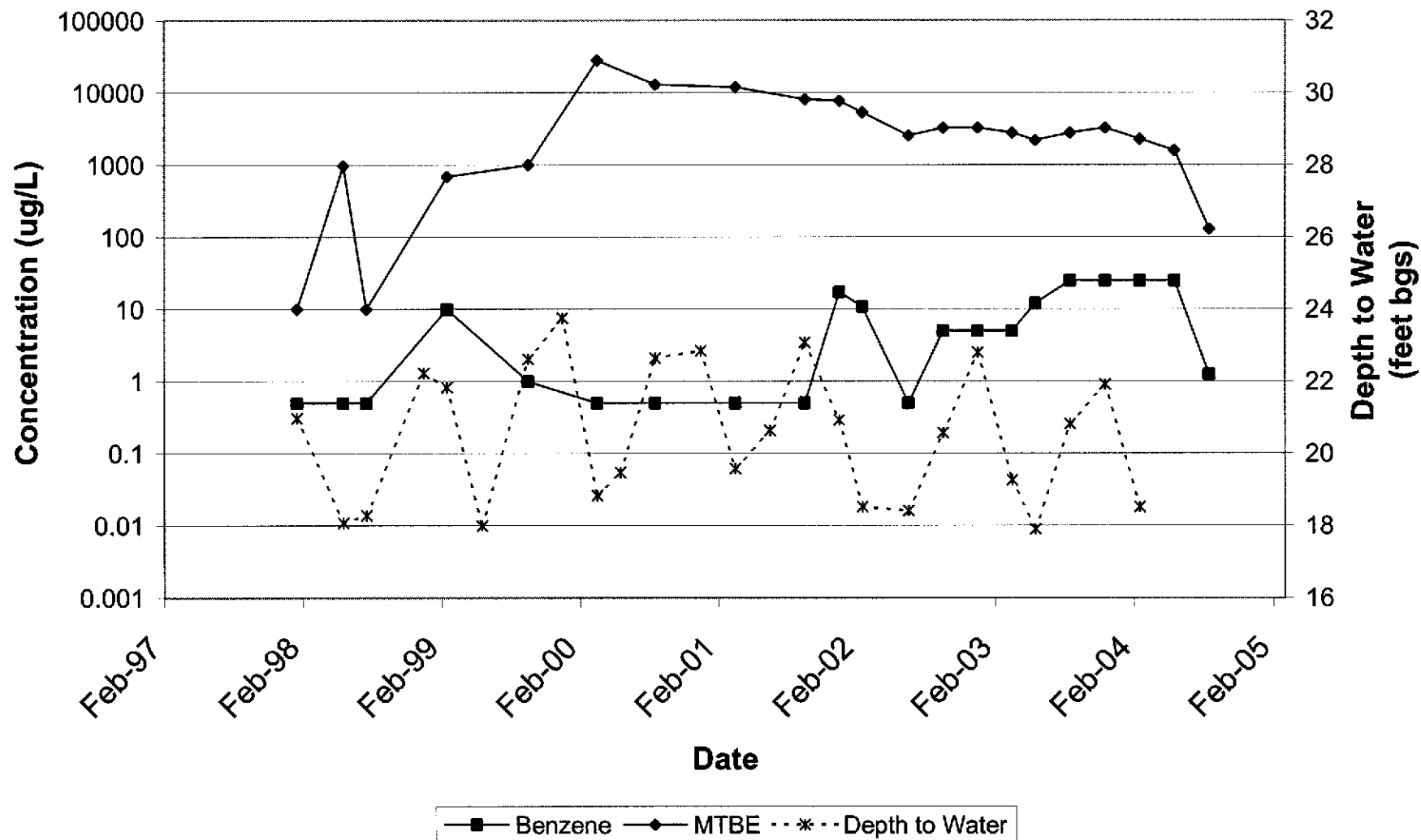
Former BP Service Station #11117  
 7210 Bancroft Avenue  
 Oakland, CA

## Concentration and Water Elevation Trends Well MW-2



Former BP Service Station #11117  
7210 Bancroft Avenue  
Oakland, CA

## Concentration and Water Elevation Trends Well MW-10



Former BP Service Station #11117  
7210 Bancroft Avenue  
Oakland, CA

**ATTACHMENT B**  
**FIELD PROCEDURES AND FIELD DATA SHEETS**

## FIELD PROCEDURES

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### Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and depth to bottom, and checking for the presence of free phase petroleum product (free product), using either an electronic indicator and a clear Teflon™ bailer or an oil-water interface probe.

Wells not containing free product are purged approximately three casing volumes of water (or until dewatered) using a centrifugal pump, gas displacement pump, or bailer. Equipment and purging method used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially (approximately 80%) recover. Groundwater samples (both purge and no purge) are collected using a Teflon bailer, placed into appropriate Environmental Protection Agency- (EPA) approved containers, labeled, logged onto chain-of-custody records, and transported on ice to a California State-certified laboratory. Wells with free product are not sampled and free product is removed according to California Code of Regulation, Title 23, Div. 3, Chap. 16, Section 2655, UST Regulations.

WELL GAUGING DATA

Project # 040831-MD1 Date 8/31/04 Client Arco/BP 1117

Site 7210 Bancroft, Oakland

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB of <del>FOE</del>
MW-1	2					17.75	36.48	↓
MW-2	2					19.50	39.50 <del>24.91-MD</del>	
MW-3	2					18.13	40.55	
MW-4	2					19.16	39.62	
MW-5	2					18.55	39.54	
MW-7	2					23.16	44.72	
MW-8	2					18.08	39.52	
MW-9	2					19.71	39.07	
MW-10	2					20.67	35.72	
Ex-1	4	*				19.39	37.72	
Ex-2	4	*				19.90	35.01	
		* No SPT detected						

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040831-MD1</u>	Station # <u>1117</u>
Sampler: <u>MW</u>	Date: <u>8/31/04</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8
Total Well Depth: <u>36.98</u>	Depth to Water: <u>17.75</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd):            YSI            HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method:                    Bailer <input checked="" type="radio"/> Disposable Bailer <input checked="" type="radio"/> Positive Air Displacement <input type="radio"/> Electric Submersible <input type="radio"/> Extraction Pump Other: _____	Sampling Method:            Bailer <input checked="" type="radio"/> Disposable Bailer <input type="radio"/> Extraction Port Other: _____
--	---

Top of Screen: \_\_\_\_\_ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>3</u>	x	<u>3</u>	=	<u>9</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
<u>0940</u>	<u>65.4</u>	<u>7.1</u>	<u>409</u>	<u>3</u>	<u>cloudy</u>
<u>0943</u>	<u>65.3</u>	<u>7.1</u>	<u>404</u>	<u>6</u>	<u>11</u>
<u>0946</u>	<u>65.3</u>	<u>7.1</u>	<u>403</u>	<u>9</u>	<u>cloudy</u>

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Gallons actually evacuated: <u>9</u>
Sampling Time: <u>0950</u>	Sampling Date: <u>8/31/04</u>
Sample I.D.: <u>MW-1</u>	Laboratory: Pace <u>Sequia</u> Other _____
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>SEE SCOPE</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L      Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV      Post-purge: _____ mV



## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040831-MW1	Station #: 11117
Sampler: <i>M</i>	Date: 8/31/04
Well I.D.: MW-2	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8
Total Well Depth: 39.50	Depth to Water: 19.50
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method:  Bailer  Disposable Bailer  Positive Air Displacement  Electric Submersible Extraction Pump  Other: \_\_\_\_\_

Sampling Method:  Bailer  Disposable Bailer  Extraction Port  Other: \_\_\_\_\_

Top of Screen: \_\_\_\_\_ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

3.2	x	3	=	9.6	Gals.
I Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
1102	70.4	6.8	519	3.2	cloudy, odor
1105	70.4	6.7	514	6.4	"
1108	70.4	6.8	511	9.6	clear, odor

Did well dewater? Yes  No  Gallons actually evacuated: 9.6

Sampling Time: 1120 Sampling Date: 8/31/04

Sample I.D.: MW-2 Laboratory: Pace  Sequoia  Other: \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: *See Scope*

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040831-MW1</u>	Station # <u>1117</u>
Sampler: <u>AND</u>	Date: <u>8/31/04</u>
Well I.D.: <u>MW-3</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>40.55</u>	Depth to Water: <u>18.13</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method:  Bailer      Sampling Method:  Bailer

Disposable Bailer       Disposable Bailer

Positive Air Displacement       Extraction Port

Electric Submersible

Extraction Pump

Other: \_\_\_\_\_

Top of Screen: \_\_\_\_\_ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>3.6</u>	x	<u>3</u>	=	<u>10.8</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
<u>0855</u>	<u>65.9</u>	<u>7.0</u>	<u>957</u>	<u>3.6</u>	<u>cloudy</u>
<u>0859</u>	<u>65.6</u>	<u>7.0</u>	<u>605</u>	<u>7.2</u>	<u>"</u>
<u>0904</u>	<u>65.5</u>	<u>7.1</u>	<u>591</u>	<u>10.8</u>	<u>clear</u>

Did well dewater? Yes  No  Gallons actually evacuated: 10.8

Sampling Time: 0915      Sampling Date: 8/31/04

Sample I.D.: MW-3      Laboratory: Pace Sequoa Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Site Scope

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>0900331-MW1</u>	Station #: <u>1117</u>
Sampler: <u>MS</u>	Date: <u>8/31/04</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>139.62</u>	Depth to Water: <u>19.16</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>DVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method:  Bailer      Sampling Method:  Bailer

Disposable Bailer       Disposable Bailer

Positive Air Displacement       Extraction Port

Electric Submersible      Other: \_\_\_\_\_

Extraction Pump

Other: \_\_\_\_\_

Top of Screen: \_\_\_\_\_ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>3.3</u>	x	<u>3</u>	=	<u>9.9</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
<u>1125</u>	<u>72.0</u>	<u>6.8</u>	<u>977</u>	<u>3.3</u>	<u>clear</u>
<u>1128</u>	<u>71.1</u>	<u>6.7</u>	<u>983</u>	<u>6.6</u>	<u>"</u>
<u>1132</u>	<u>71.1</u>	<u>6.7</u>	<u>987</u>	<u>9.9</u>	<u>clear</u>

Did well dewater? Yes  No  Gallons actually evacuated: 9.9

Sampling Time: 1140 Sampling Date: 8/31/04

Sample I.D.: MW-4 Laboratory: Pace  Sequoia Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See Scope

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040831-MW1	Station # 11117
Sampler: MW	Date: 8/31/04
Well I.D.: MW 6	Well Diameter: (2) 3 4 6 8
Total Well Depth: 39.54	Depth to Water: 18.56
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVE Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method:  Bailer  Disposable Bailer  Positive Air Displacement  Electric Submersible  Extraction Pump  Other: \_\_\_\_\_

Sampling Method:  Bailer  Disposable Bailer  Extraction Port  Other: \_\_\_\_\_

Top of Screen: \_\_\_\_\_ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

$\frac{3.4}{1 \text{ Case Volume (Gals.)}}$	$\times$	$\frac{3}{\text{Specified Volumes}}$	$=$	$\frac{10.2}{\text{Calculated Volume}}$ Gals.
---	----------	--------------------------------------	-----	---

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
0916	67.5	7.0	772	3.4	cloudy
0919	67.6	7.0	751	6.8	"
0924	67.7	7.0	755	10.2	cloudy

Did well dewater? Yes  No  Gallons actually evacuated: 10.2

Sampling Time: 0930 Sampling Date: 8/31/04

Sample I.D.: MW6 Laboratory: Pace  Sequoia  Other: \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See Scope

D.O. (if req'd): Pre-purge: \_\_\_\_\_ mg/L Post-purge: \_\_\_\_\_ mg/L

O.R.P. (if req'd): Pre-purge: \_\_\_\_\_ mV Post-purge: \_\_\_\_\_ mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040831-MW</u>	Station # <u>1117</u>
Sampler: <u>MW</u>	Date: <u>8/3/04</u>
Well I.D.: <u>MW-7</u>	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="checkbox"/> _____
Total Well Depth: <u>44.72</u>	Depth to Water: <u>23.16</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd):                      YSI                      HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
---	---

Top of Screen: \_\_\_\_\_ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>3.5</u>	x	<u>3</u>	=	<u>10.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
959	70.8	7.3	431	3.5	clear
1002	71.3	7.3	472	7	"
1007	71.2	7.3	455	10.5	clear

Did well dewater?    Yes <input checked="" type="checkbox"/> No	Gallons actually evacuated: <u>10.5</u>
Sampling Time: <u>1015</u>	Sampling Date: <u>8/3/04</u>
Sample I.D.: <u>MW-7</u>	Laboratory:    Pace <input checked="" type="checkbox"/> Sequoia    Other: _____
Analyzed for:    TPH-G    BTEX    MTBE    TPH-D    Other: <u>SEE SCOPE</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L                      Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV                      Post-purge: _____ mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040831-MW/	Station # 1117
Sampler: MW	Date: 8/31/04
Well I.D.: MW-9	Well Diameter: <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8
Total Well Depth: 39.07	Depth to Water: 19.71
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> PVS    Grade	D.O. Meter (if req'd):    YSI    HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method:                      Bailer                      Sampling Method:                      Bailer

Disposable Bailer                       Disposable Bailer  
 Positive Air Displacement                       Extraction Port  
 Electric Submersible  
 Extraction Pump  
 Other: \_\_\_\_\_

Top of Screen: \_\_\_\_\_ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

3.1	x	3	=	9.3	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
1040	67.5	7.0	624	3.1	cloudy
1044	67.0	7.0	605	6.2	cl
1047	66.8	7.0	616	9.3	cloudy

Did well dewater? Yes  No                       Gallons actually evacuated: 9.3

Sampling Time: 1055                      Sampling Date: 8/31/04

Sample I.D.: MW-9                      Laboratory: Pace  Sequoia    Other \_\_\_\_\_

Analyzed for: TPH-G    BTEX    MTBE    TPH-D    Other: See Scope

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040831-MW	Station # 1117
Sampler: MW	Date: 8/31/04
Well I.D.: MW-10	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8
Total Well Depth: 35.72	Depth to Water: 20.67
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	D.O. Meter (if req'd):    YSI    HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method: <input type="radio"/> Bailer <input type="radio"/> Disposable Bailer <input checked="" type="radio"/> Positive Air Displacement <input type="radio"/> Electric Submersible <input type="radio"/> Extraction Pump Other: _____	Sampling Method: <input type="radio"/> Bailer <input checked="" type="radio"/> Disposable Bailer <input type="radio"/> Extraction Port Other: _____
--	--

Top of Screen: \_\_\_\_\_ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

2.4	x	3	=	7.2	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
1019	72.5	7.0	912	2.4	cloudy
1022	72.2	7.0	912	4.8	"
1025	72.3	7.0	913	7.2	cloudy

Did well dewater? Yes  No       Gallons actually evacuated: 7.2

Sampling Time: 1030      Sampling Date: 8/31/04

Sample I.D.: ~~2~~ MW-10      Laboratory: Pace  Sequoia    Other \_\_\_\_\_

Analyzed for: TPH-G    BTEX    MTBE    TPH-D    Other: SEE SCOPE

D.O. (if req'd):	Pre-purge:	$\mu$ g/L	Post-purge:	$\mu$ g/L
------------------	------------	-----------	-------------	-----------

O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV
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## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040831-M1</u>	Station # <u>11117</u>
Sampler: <u>MM</u>	Date: <u>8/31/04</u>
Well I.D.: <u>EX-1</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>37.72</u>	Depth to Water: <u>19.39</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input checked="" type="checkbox"/> Electric Submersible Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
--	--

Top of Screen: \_\_\_\_\_ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>12</u>	x	<u>3</u>	=	<u>36</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
1148	72.1	6.9	753	12	odor!, clear
1150	72.2	6.8	754	24	"
		well	dewatered @ 24		DTW = 34.91
1235	72.4	6.7	755	-	DTW = 34.1 @ site departure

Did well dewater? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Gallons actually evacuated: <u>24</u>
Sampling Time: <del>700</del> <u>1235</u>	Sampling Date: <u>8/31/04</u>
Sample I.D.: <u>EX-1</u>	Laboratory: Pace <u>Sequia</u> Other _____
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See Scope</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L      Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV      Post-purge: _____ mV



## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>090831-MDI</u>	Station # <u>1117</u>
Sampler: <u>MDI</u>	Date: <u>8/31/04</u>
Well I.D.: <u>EX-2</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>35.01</u>	Depth to Water: <u>19.90</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method:  Bailer  
 Disposable Bailer  
 Positive Air Displacement  
 Electric Submersible Extraction Pump  
 Other: \_\_\_\_\_

Sampling Method:  Bailer  
 Disposable Bailer  
 Extraction Port  
 Other: \_\_\_\_\_

Top of Screen: \_\_\_\_\_ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>9.8</u>	x	<u>3</u>	=	<u>29.4</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1159	72.5	7.8	721	10	clear, odor
1201	72.1	6.7	675	20	"
1204	72.1	6.9	663	30	clear, odor

Did well dewater? Yes  No  Gallons actually evacuated: 30

Sampling Time: 1210 Sampling Date: 8/31/04

Sample I.D.: EX-2 Laboratory: Pace Sequola Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See Scope

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

**BP GEM OIL COMPANY TYPE A BILL OF LADING**

SOURCE RECORD BILL OF LADING FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT BP GEM OIL COMPANY FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY DILLARD ENVIRONMENTAL TO THE ALTAMONT LANDFILL AND RESOURCE RECOVERY FACILITY IN LIVERMORE, CALIFORNIA.

The contractor performing this work is PLAINE TECH SERVICES, INC. (BTS), 1680 Rogers Avenue, San Jose, CA 95112 (phone [408] 573-0555). Blaine Tech Services, Inc. is authorized by BP GEM OIL COMPANY to recover, collect, apportion into loads the Non-Hazardous Well Purgewater that is drawn from wells at the BP GEM Oil Company facility indicated below and deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one BP GEM facility to the designated destination point; from one BP GEM facility to the designated destination point via another BP GEM facility; from a BP GEM facility to the designated destination point via the contractor's facility, or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of BP GEM Oil Company.

This Source Record BILL OF LADING was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the BP GEM Oil Company facility described below:

11117  
Station #

7210 Bancroft, Oakland  
Station Address

Total Gallons Collected From Groundwater Monitoring Wells:  
180

added equip. \_\_\_\_\_  
rinse water \_\_\_\_\_

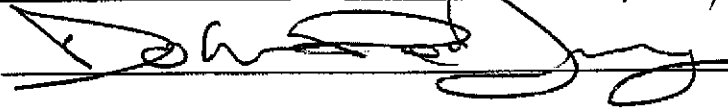
any other adjustments \_\_\_\_\_

TOTAL GALS. RECOVERED 180

loaded onto BTS vehicle # 59

BTS event # 040831-M01

time 1300 date 8/31/04

signature 

\*\*\*\*\*  
REC'D AT \_\_\_\_\_ time \_\_\_\_\_ date \_\_\_\_\_

unloaded by \_\_\_\_\_  
signature \_\_\_\_\_

**ATTACHMENT C**  
**LABORATORY PROCEDURES,**  
**CERTIFIED ANALYTICAL REPORTS,**  
**AND CHAIN-OF-CUSTODY RECORDS**

## **LABORATORY PROCEDURES**

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### **Laboratory Procedures**

The groundwater samples were analyzed for the presence of the chemicals mentioned in the chain of custody using standard EPA methods. The methods of analysis for the groundwater samples are documented in the certified analytical report. The certified analytical reports and chain-of-custody record are presented in this attachment. The analytical data provided by the laboratory approved by RM have been reviewed and verified by that laboratory.



16 September, 2004

Leonard Niles  
URS Corporation [Arco]  
1333 Broadway, Suite 800  
Oakland, CA 94612

RE: BP Heritage #11117, Oakland, CA  
Work Order: MNI0050

Enclosed are the results of analyses for samples received by the laboratory on 09/01/04 09:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race  
Senior Project Manager

CA ELAP Certificate #1210

URS Corporation [Arco]  
1333 Broadway, Suite 800  
Oakland CA, 94612

Project: BP Heritage #11117, Oakland, CA  
Project Number: N/P  
Project Manager: Leonard Niles

MNI0050  
**Reported:**  
09/16/04 10:59

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MNI0050-01	Water	08/31/04 09:50	09/01/04 09:45
MW-2	MNI0050-02	Water	08/31/04 11:20	09/01/04 09:45
MW-3	MNI0050-03	Water	08/31/04 09:15	09/01/04 09:45
MW-4	MNI0050-04	Water	08/31/04 11:40	09/01/04 09:45
MW-6	MNI0050-05	Water	08/31/04 09:30	09/01/04 09:45
MW-7	MNI0050-06	Water	08/31/04 10:15	09/01/04 09:45
MW-9	MNI0050-07	Water	08/31/04 10:55	09/01/04 09:45
MW-10	MNI0050-08	Water	08/31/04 10:30	09/01/04 09:45
EX-1	MNI0050-09	Water	08/31/04 12:35	09/01/04 09:45
EX-2	MNI0050-10	Water	08/31/04 12:10	09/01/04 09:45
TB-11117-083104	MNI0050-11	Water	08/31/04 00:00	09/01/04 09:45

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies.

These samples were received with no custody seals.

URS Corporation [Arco]  
 1333 Broadway, Suite 800  
 Oakland CA, 94612

 Project: BP Heritage #11117, Oakland, CA  
 Project Number: N/P  
 Project Manager: Leonard Niles

 MNI0050  
**Reported:**  
 09/16/04 10:59

**Volatile Organic Compounds by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (MNI0050-01) Water    Sampled: 08/31/04 09:50    Received: 09/01/04 09:45</b>									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4113012	09/13/04	09/13/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>0.50</b>	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		86 %	78-129	"	"	"	"	"	
<b>MW-2 (MNI0050-02) Water    Sampled: 08/31/04 11:20    Received: 09/01/04 09:45</b>									
tert-Amyl methyl ether	ND	250	ug/l	500	4113012	09/13/04	09/13/04	EPA 8260B	
<b>Benzene</b>	<b>10000</b>	250	"	"	"	"	"	"	
tert-Butyl alcohol	ND	10000	"	"	"	"	"	"	
Di-isopropyl ether	ND	250	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
Ethanol	ND	50000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	250	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>3700</b>	250	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>3400</b>	250	"	"	"	"	"	"	
<b>Toluene</b>	<b>13000</b>	250	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>18000</b>	250	"	"	"	"	"	"	
<b>Gasoline Range Organics (C4-C12)</b>	<b>99000</b>	25000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97 %	78-129	"	"	"	"	"	

URS Corporation [Arco]  
 1333 Broadway, Suite 800  
 Oakland CA, 94612

 Project: BP Heritage #11117, Oakland, CA  
 Project Number: N/P  
 Project Manager: Leonard Niles

 MNI0050  
**Reported:**  
 09/16/04 10:59

**Volatile Organic Compounds by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-3 (MNI0050-03) Water Sampled: 08/31/04 09:15 Received: 09/01/04 09:45</b>									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4I13012	09/13/04	09/13/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95 %		78-129	"	"	"	"	
<b>MW-4 (MNI0050-04) Water Sampled: 08/31/04 11:40 Received: 09/01/04 09:45</b>									
tert-Amyl methyl ether	ND	250	ug/l	500	4I13002	09/13/04	09/13/04	EPA 8260B	
<b>Benzene</b>	<b>6600</b>	250	"	"	"	"	"	"	
tert-Butyl alcohol	ND	10000	"	"	"	"	"	"	
Di-isopropyl ether	ND	250	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
Ethanol	ND	50000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	250	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>3700</b>	250	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>14000</b>	250	"	"	"	"	"	"	
<b>Toluene</b>	<b>8400</b>	250	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>14000</b>	250	"	"	"	"	"	"	
<b>Gasoline Range Organics (C4-C12)</b>	<b>91000</b>	25000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		83 %		78-129	"	"	"	"	



URS Corporation [Arco]  
 1333 Broadway, Suite 800  
 Oakland CA, 94612

 Project: BP Heritage #11117, Oakland, CA  
 Project Number: N/P  
 Project Manager: Leonard Niles

 MNI0050  
 Reported:  
 09/16/04 10:59

**Volatile Organic Compounds by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-6 (MNI0050-05) Water    Sampled: 08/31/04 09:30    Received: 09/01/04 09:45</b>									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4I13002	09/13/04	09/13/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>27</b>	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90 %		78-129	"	"	"	"	
<b>MW-7 (MNI0050-06) Water    Sampled: 08/31/04 10:15    Received: 09/01/04 09:45</b>									
tert-Amyl methyl ether	ND	5.0	ug/l	10	4I13002	09/13/04	09/13/04	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>220</b>	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	500	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		88 %		78-129	"	"	"	"	

URS Corporation [Arco]  
 1333 Broadway, Suite 800  
 Oakland CA, 94612

 Project: BP Heritage #11117, Oakland, CA  
 Project Number: N/P  
 Project Manager: Leonard Niles

 MNI0050  
**Reported:**  
 09/16/04 10:59

**Volatile Organic Compounds by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-9 (MNI0050-07) Water    Sampled: 08/31/04 10:55    Received: 09/01/04 09:45</b>									
tert-Amyl methyl ether	ND	25	ug/l	50	4I13002	09/13/04	09/13/04	EPA 8260B	
<b>Benzene</b>	<b>210</b>	25	"	"	"	"	"	"	
tert-Butyl alcohol	ND	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
Ethanol	ND	5000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>1500</b>	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	2500	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		88 %		78-129	"	"	"	"	
<b>MW-10 (MNI0050-08) Water    Sampled: 08/31/04 10:30    Received: 09/01/04 09:45</b>									
tert-Amyl methyl ether	ND	50	ug/l	100	4I13002	09/13/04	09/13/04	EPA 8260B	
Benzene	ND	50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	2000	"	"	"	"	"	"	
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
Ethanol	ND	10000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>1900</b>	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Xylenes (total)	ND	50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	5000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		85 %		78-129	"	"	"	"	

URS Corporation [Arco]  
 1333 Broadway, Suite 800  
 Oakland CA, 94612

 Project: BP Heritage #11117, Oakland, CA  
 Project Number: N/P  
 Project Manager: Leonard Niles

 MNI0050  
 Reported:  
 09/16/04 10:59

**Volatile Organic Compounds by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>EX-1 (MNI0050-09) Water Sampled: 08/31/04 12:35 Received: 09/01/04 09:45</b>									
tert-Amyl methyl ether	ND	50	ug/l	100	4I13002	09/13/04	09/13/04	EPA 8260B	
<b>Benzene</b>	<b>2500</b>	50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	2000	"	"	"	"	"	"	
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
Ethanol	ND	10000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>650</b>	50	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>2100</b>	50	"	"	"	"	"	"	
<b>Toluene</b>	<b>95</b>	50	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>1500</b>	50	"	"	"	"	"	"	
<b>Gasoline Range Organics (C4-C12)</b>	<b>13000</b>	5000	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 85 % 78-129 " " " "

**EX-2 (MNI0050-10) Water Sampled: 08/31/04 12:10 Received: 09/01/04 09:45**

tert-Amyl methyl ether	3.4	2.5	ug/l	5	4I13002	09/13/04	09/13/04	EPA 8260B	
Benzene	ND	2.5	"	"	"	"	"	"	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>130</b>	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	250	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 87 % 78-129 " " " "

URS Corporation [Arco]  
 1333 Broadway, Suite 800  
 Oakland CA, 94612

 Project: BP Heritage #11117, Oakland, CA  
 Project Number: N/P  
 Project Manager: Leonard Niles

 MNI0050  
 Reported:  
 09/16/04 10:59

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4I13002 - EPA 5030B P/T**
**Blank (4I13002-BLK1)**

Prepared &amp; Analyzed: 09/13/04

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.11</i>		<i>"</i>	<i>2.50</i>		<i>84</i>	<i>78-129</i>			

**Laboratory Control Sample (4I13002-BS1)**

Prepared &amp; Analyzed: 09/13/04

tert-Amyl methyl ether	10.2	0.50	ug/l	10.0		102	56-140			
Benzene	10.7	0.50	"	10.0		107	78-124			
tert-Butyl alcohol	52.4	20	"	50.0		105	0-206			
Di-isopropyl ether	10.2	0.50	"	10.0		102	76-130			
1,2-Dibromoethane (EDB)	11.1	0.50	"	10.0		111	77-132			
1,2-Dichloroethane	10.8	0.50	"	10.0		108	77-136			
Ethanol	179	100	"	200		90	31-186			
Ethyl tert-butyl ether	10.9	0.50	"	10.0		109	61-141			
Ethylbenzene	11.0	0.50	"	10.0		110	84-117			
Methyl tert-butyl ether	9.77	0.50	"	10.0		98	63-137			
Toluene	10.0	0.50	"	10.0		100	78-129			
Xylenes (total)	33.0	0.50	"	30.0		110	83-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.22</i>		<i>"</i>	<i>2.50</i>		<i>89</i>	<i>78-129</i>			

Sequoia Analytical - Morgan Hill

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.*

URS Corporation [Arco]  
 1333 Broadway, Suite 800  
 Oakland CA, 94612

 Project: BP Heritage #11117, Oakland, CA  
 Project Number: N/P  
 Project Manager: Leonard Niles

 MNI0050  
 Reported:  
 09/16/04 10:59

**Volatile Organic Compounds by EPA Method 8260B - Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4I13002 - EPA 5030B P/T**
**Laboratory Control Sample (4I13002-BS2)**

Prepared &amp; Analyzed: 09/13/04

Benzene	5.61	0.50	ug/l	6.40		88	78-124			
Ethylbenzene	8.44	0.50	"	7.52		112	84-117			
Methyl tert-butyl ether	8.32	0.50	"	9.92		84	63-137			
Toluene	32.1	0.50	"	31.9		101	78-129			
Xylenes (total)	41.4	0.50	"	36.6		113	83-125			
Gasoline Range Organics (C4-C12)	418	50	"	440		95	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.09		"	2.50		84	78-129			

**Laboratory Control Sample Dup (4I13002-BSD1)**

Prepared &amp; Analyzed: 09/13/04

tert-Amyl methyl ether	10.2	0.50	ug/l	10.0		102	56-140	0	12	
Benzene	10.6	0.50	"	10.0		106	78-124	0.9	12	
tert-Butyl alcohol	49.8	20	"	50.0		100	0-206	5	22	
Di-isopropyl ether	10.0	0.50	"	10.0		100	76-130	2	9	
1,2-Dibromoethane (EDB)	11.2	0.50	"	10.0		112	77-132	0.9	9	
1,2-Dichloroethane	10.8	0.50	"	10.0		108	77-136	0	13	
Ethanol	197	100	"	200		98	31-186	10	37	
Ethyl tert-butyl ether	10.8	0.50	"	10.0		108	61-141	0.9	9	
Ethylbenzene	10.7	0.50	"	10.0		107	84-117	3	10	
Methyl tert-butyl ether	9.63	0.50	"	10.0		96	63-137	1	13	
Toluene	10.0	0.50	"	10.0		100	78-129	0	10	
Xylenes (total)	33.1	0.50	"	30.0		110	83-125	0.3	11	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.23		"	2.50		89	78-129			

**Matrix Spike (4I13002-MS1)**

Source: MNI0050-07

Prepared &amp; Analyzed: 09/13/04

Benzene	498	25	ug/l	320	210	90	78-124			
Ethylbenzene	437	25	"	376	ND	116	84-117			
Methyl tert-butyl ether	1870	25	"	496	1500	75	63-137			
Toluene	1650	25	"	1600	4.5	103	78-129			
Xylenes (total)	2140	25	"	1830	ND	117	83-125			
Gasoline Range Organics (C4-C12)	22900	2500	"	22000	2000	95	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.33		"	2.50		93	78-129			

URS Corporation [Arco]  
 1333 Broadway, Suite 800  
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 Project Manager: Leonard Niles

 MNI0050  
 Reported:  
 09/16/04 10:59

### Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4I13002 - EPA 5030B P/T**

Matrix Spike Dup (4I13002-MSD1)	Source: MNI0050-07			Prepared & Analyzed: 09/13/04						
Benzene	488	25	ug/l	320	210	87	78-124	2	12	
Ethylbenzene	423	25	"	376	ND	112	84-117	3	10	
Methyl tert-butyl ether	1860	25	"	496	1500	73	63-137	0.5	13	
Toluene	1620	25	"	1600	4.5	101	78-129	2	10	
Xylenes (total)	2080	25	"	1830	ND	114	83-125	3	11	
Gasoline Range Organics (C4-C12)	22100	2500	"	22000	2000	91	70-124	4	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>1.99</i>		<i>"</i>	<i>2.50</i>		<i>80</i>	<i>78-129</i>			

**Batch 4I13012 - EPA 5030B P/T**

Blank (4I13012-BLK1)	Prepared & Analyzed: 09/13/04									
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.62</i>		<i>"</i>	<i>5.00</i>		<i>92</i>	<i>78-129</i>			

Laboratory Control Sample (4I13012-BS1)	Prepared & Analyzed: 09/13/04									
tert-Amyl methyl ether	9.51	0.50	ug/l	10.0		95	56-140			
Benzene	9.70	0.50	"	10.0		97	78-124			
tert-Butyl alcohol	48.7	20	"	50.0		97	0-206			
Di-isopropyl ether	9.28	0.50	"	10.0		93	76-130			
1,2-Dibromoethane (EDB)	10.6	0.50	"	10.0		106	77-132			
1,2-Dichloroethane	10.6	0.50	"	10.0		106	77-136			
Ethanol	187	100	"	200		94	31-186			
Ethyl tert-butyl ether	9.76	0.50	"	10.0		98	61-141			
Ethylbenzene	9.07	0.50	"	10.0		91	84-117			
Methyl tert-butyl ether	9.90	0.50	"	10.0		99	63-137			

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]  
 1333 Broadway, Suite 800  
 Oakland CA, 94612

 Project: BP Heritage #11117, Oakland, CA  
 Project Number: N/P  
 Project Manager: Leonard Niles

 MNI0050  
 Reported:  
 09/16/04 10:59

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4I13012 - EPA 5030B P/T**
**Laboratory Control Sample (4I13012-BS1)**

Prepared &amp; Analyzed: 09/13/04

Toluene	9.30	0.50	ug/l	10.0		93	78-129			
Xylenes (total)	26.8	0.50	"	30.0		89	83-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.84</i>		<i>"</i>	<i>5.00</i>		<i>97</i>	<i>78-129</i>			

**Laboratory Control Sample (4I13012-BS2)**

Prepared &amp; Analyzed: 09/13/04

Benzene	5.39	0.50	ug/l	6.40		84	78-124			
Ethylbenzene	7.31	0.50	"	7.52		97	84-117			
Methyl tert-butyl ether	8.95	0.50	"	9.92		90	63-137			
Toluene	34.2	0.50	"	31.9		107	78-129			
Xylenes (total)	32.0	0.50	"	36.6		87	83-125			
Gasoline Range Organics (C4-C12)	369	50	"	440		84	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.99</i>		<i>"</i>	<i>5.00</i>		<i>100</i>	<i>78-129</i>			

**Laboratory Control Sample Dup (4I13012-BSD1)**

Prepared &amp; Analyzed: 09/13/04

tert-Amyl methyl ether	8.49	0.50	ug/l	10.0		85	56-140	11	12	
Benzene	8.73	0.50	"	10.0		87	78-124	11	12	
tert-Butyl alcohol	47.1	20	"	50.0		94	0-206	3	22	
Di-isopropyl ether	8.26	0.50	"	10.0		83	76-130	12	9	RB
1,2-Dibromoethane (EDB)	9.44	0.50	"	10.0		94	77-132	12	9	RB
1,2-Dichloroethane	9.47	0.50	"	10.0		95	77-136	11	13	
Ethanol	171	100	"	200		86	31-186	9	37	
Ethyl tert-butyl ether	8.85	0.50	"	10.0		88	61-141	10	9	RB
Ethylbenzene	7.95	0.50	"	10.0		80	84-117	13	10	HM, BA
Methyl tert-butyl ether	8.87	0.50	"	10.0		89	63-137	11	13	
Toluene	8.44	0.50	"	10.0		84	78-129	10	10	
Xylenes (total)	23.4	0.50	"	30.0		78	83-125	14	11	HM, BA
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.58</i>		<i>"</i>	<i>5.00</i>		<i>92</i>	<i>78-129</i>			

URS Corporation [Arco]  
 1333 Broadway, Suite 800  
 Oakland CA, 94612

 Project: BP Heritage #11117, Oakland, CA  
 Project Number: N/P  
 Project Manager: Leonard Niles

 MNI0050  
 Reported:  
 09/16/04 10:59

**Volatile Organic Compounds by EPA Method 8260B - Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4I13012 - EPA 5030B P/T**

<b>Matrix Spike (4I13012-MS1)</b>	<b>Source: MNI0190-05</b>			<b>Prepared &amp; Analyzed: 09/13/04</b>						
Benzene	262	25	ug/l	320	ND	82	78-124			
Ethylbenzene	364	25	"	376	ND	97	84-117			
Methyl tert-butyl ether	1440	25	"	496	950	99	63-137			
Toluene	1620	25	"	1600	ND	101	78-129			
Xylenes (total)	1750	25	"	1830	ND	96	83-125			
Gasoline Range Organics (C4-C12)	19000	2500	"	22000	2100	77	70-124			

<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.85		"	5.00		97	78-129			
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<b>Matrix Spike Dup (4I13012-MSD1)</b>	<b>Source: MNI0190-05</b>			<b>Prepared: 09/13/04 Analyzed: 09/14/04</b>						
Benzene	268	25	ug/l	320	ND	84	78-124	2	12	
Ethylbenzene	360	25	"	376	ND	96	84-117	1	10	
Methyl tert-butyl ether	1380	25	"	496	950	87	63-137	4	13	
Toluene	1670	25	"	1600	ND	104	78-129	3	10	
Xylenes (total)	1740	25	"	1830	ND	95	83-125	0.6	11	
Gasoline Range Organics (C4-C12)	19000	2500	"	22000	2100	77	70-124	0	20	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.95		"	5.00		99	78-129			
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URS Corporation [Arco]  
1333 Broadway, Suite 800  
Oakland CA, 94612

Project: BP Heritage #11117, Oakland, CA  
Project Number: N/P  
Project Manager: Leonard Niles

MNI0050  
**Reported:**  
09/16/04 10:59

### Notes and Definitions

RB RPD exceeded method control limit; % recoveries within limits.

HM Analyte recovery below established limit

BA Relative percent difference out of control

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



### Chain of Custody Record

Project Name 1117 GWM  
 BP BU/GEM CO Portfolio Retail MM10050  
 BP Laboratory Contract Number: Atlantic Richfield Company  
 Requested Due Date (mm/dd/yy) 14 day TAT

Date: 8/31/04

On-site Time: 0745 Temp: 60  
 Off-site Time: 1300 Temp: 70  
 Sky Conditions: clear  
 Meteorological Events:  
 Wind Speed: Direction:

Send To:	BP/GEM Facility No.: <u>11117</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>7210 BANCROFT, OAKLAND, CA</u>	Address: <u>1333 Broadway, Suite 800</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>11117</u>	<u>Oakland, CA 94612</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail EDD: <u>donna.casper@URSCorp.com</u>
Lab PM <u>Lisa Race</u>	California Global ID #: <u>T0600100201</u>	Consultant/Contractor Project No.:
Tele/Fax: <u>408-776-9600 / 408-782-6308</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3268</u>
Report Type & QC Level: <u>1 Send EDF Reports</u>	Address: <u>P.O. Box 6549</u>	Consultant/Contractor PM: <u>Leonard Niles</u>
BP/GEM Account No.: <u>400-6-21124</u>	<u>Moraga, CA 94570</u>	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
	Tele/Fax: <u>925-299-8891/925-299-8872</u>	BP/GEM Work Release No.:

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis						Sample Point Lat/Long and Comments				
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	GRO/BTEX (8260)	DRO w/SGC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE	DIPE, TBA (8260)		1,2-DCA & EDB (8260)	Ethanol (8260)		
A1	MW-1	0930	X				MM10050	01	3					X		X	X						
A2	MW-2	1120	X				MM10050	02	3					X		X	X						
A3	MW-3	0915	X				MM10050	03	6					X		X	X						
A4	MW-4	1140	X				MM10050	04	3					X		X	X						
A5	MW-6	0930	X				MM10050	05	3					X		X	X						
A6	MW-7	1015	X				MM10050	06	3					X		X	X						
A7	MW-9	1155	X				MM10050	07	3					X		X	X						
A8	MW-10	1030	X				MM10050	08	3					X		X	X						
A9	EX-1	1235	X				MM10050	09	3					X		X	X						
A10	EX-2	1210	X				MM10050	10	3					X		X	X						

Sampler's Name: <u>John DeLong</u>	Relinquished By / Affiliation:	Date:	Time:	Accepted By / Affiliation:	Date:	Time:
Sampler's Company: <u>Blake Tech</u>	<u>[Signature]</u>	<u>8/24/04</u>	<u>9:10</u>	<u>[Signature]</u>	<u>8/31/04</u>	<u>9:10</u>
Shipment Date:		<u>8/31/04</u>	<u>9:45</u>		<u>8/31/04</u>	<u>9:45</u>
Shipment Method:						
Shipment Tracking No.:						

Special Instructions: Address Invoice to BP/GEM but send to URS for approval

Seals in Place Yes  No  Temperature Blank Yes  No  Cooler Temperature on Receipt  No  Trip Blank Yes  No



# Chain of Custody Record

Project Name 1117 GWM  
 BP BU/GEM CO Portfolio Retail  
 BP Laboratory Contract Number: Atlantic Richfield Company

Date: 8/31/04 Requested Due Date (mm/dd/yy) 14 day TAT

On-site Time: <u>0745</u>	Temp: <u>60</u>
Off-site Time: <u>1300</u>	Temp: <u>70</u>
Sky Conditions: <u>Clear</u>	
Meteorological Events:	
Wind Speed:	Direction:

Send To:	BP/GEM Facility No.: <u>11117</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>7210 BANCROFT, OAKLAND, CA</u>	Address: <u>1333 Broadway, Suite 800</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>11117</u>	<u>Oakland, CA 94612</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail EDD: <u>donna.cosper@URSCorp.com</u>
Lab PM <u>Lisa Race</u>	California Global ID #: <u>T0600100201</u>	Consultant/Contractor Project No.:
Tele/Fax: <u>408-776-9600 / 408-782-6308</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3268</u>
Report Type & QC Level: <u>1 Send EDF Reports</u>	Address: <u>P.O. Box 6549</u>	Consultant/Contractor PM: <u>Leonard Niles</u>
BP/GEM Account No.: <u>400-6-21124</u>	<u>Moraga, CA 94570</u>	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
	Tele/Fax: <u>925-299-8891/925-299-8872</u>	BP/GEM Work Release No.:

Lab Bottle Order No.			Matrix				Laboratory No.	No. of containers	Preservatives			Requested Analysis							Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Solid/Solid	Water/Liquid	Sediments	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	GRO / BTEX C8015/8021 C8260	DRO w/SGC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE DPE, TBA (8260)	1,2-DCA & EDB (8260)	
<u>1</u>	<u>TB-1117-08301</u>	<u>-</u>		<u>X</u>			<u>112</u>											<u>on hold</u>	
<u>2</u>																			
<u>3</u>																			
<u>4</u>																			
<u>5</u>																			
<u>6</u>																			
<u>7</u>																			
<u>8</u>																			
<u>9</u>																			
<u>10</u>																			

Sampler's Name: <u>John DeLong</u>	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>Blair Tech</u>	<u>[Signature]</u>	<u>8/11/04</u>	<u>9:15</u>	<u>[Signature]</u>	<u>8/11/04</u>	<u>9:10</u>
Shipment Date:		<u>8/11/04</u>	<u>9:45</u>	<u>[Signature]</u>	<u>8/11/04</u>	<u>9:45</u>
Shipment Method:						
Shipment Tracking No.:						

Special Instructions: Address Invoice to BP/GEM but send to URS for approval

Seals In Place Yes  No  Temperature Blank Yes  No  Cooler Temperature on Receipt  F/C  Trip Blank Yes  No

**ATTACHMENT D**

**EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION**

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### UPLOADING A GEO\_WELL FILE

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

<b>Submittal Title:</b>	<b>Third Quarter 2004 QMR. Site #11117</b>
<b>Submittal Date/Time:</b>	<b>9/23/2004 4:17:56 PM</b>
<b>Confirmation Number:</b>	<b>5532180607</b>

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### SUCCESSFUL EDF CHECK - NO ERRORS

<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	9/23/2004 5:26:54 PM
<u>GLOBAL ID:</u>	T0600100201
<u>FILE UPLOADED:</u>	BP#11117-EDF-MNI0050.zip

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When you complete the submittal process, you will be given a confirmation number for your submittal.

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<b>BP</b> 7210 BANCROFT AVE OAKLAND, CA 94605	<u>Regional Board - Case #: 01-0215</u> SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) <u>Local Agency (lead agency) - Case #: 3960</u> ALAMEDA COUNTY LOP - (RWS)
---	--

#### **SAMPLE DETECTIONS REPORT**

# FIELD POINTS SAMPLED	10
# FIELD POINTS WITH DETECTIONS	9
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	7
SAMPLE MATRIX TYPES	WATER

#### **METHOD QA/QC REPORT**

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

#### **QA/QC FOR 8021/8260 SERIES SAMPLES**

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y

- SURROGATE SPIKE			Y
<b>WATER SAMPLES FOR 8021/8260 SERIES</b>			
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%			Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%			Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%			Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%			Y
<b>SOIL SAMPLES FOR 8021/8260 SERIES</b>			
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%			n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%			n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%			n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%			n/a
<b>FIELD QC SAMPLES</b>			
<u>SAMPLE</u>	<u>COLLECTED</u>		<u>DETECTIONS &gt; REPD</u>
QCTB SAMPLES	N		0
QCEB SAMPLES	N		0
QCAB SAMPLES	N		0

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**Confirmation Number:** 2161502718  
**Date/Time of Submittal:** 9/23/2004 4:19:40 PM  
**Facility Global ID:** T0600100201  
**Facility Name:** BP  
**Submittal Title:** Third Quarter 2004 QMR. Site #11117  
**Submittal Type:** GW Monitoring Report

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<b>BP</b> 7210 BANCROFT AVE OAKLAND, CA 94605	<b>Regional Board - Case #: 01-0215</b> SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) <b>Local Agency (lead agency) - Case #: 3960</b> ALAMEDA COUNTY LOP - (RWS)
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CONF #	TITLE	QUARTER
2161502718	Third Quarter 2004 QMR. Site #11117	Q3 2004
SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	9/23/2004	PENDING REVIEW

### SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	10
# FIELD POINTS WITH DETECTIONS	9
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	7
SAMPLE MATRIX TYPES	WATER

### METHOD QA/QC REPORT

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

### QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

### WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY E	.cEN 65-135%	Y
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MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

**SOIL SAMPLES FOR 8021/8260 SERIES**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

**FIELD QC SAMPLES**

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS &gt; REPD/L</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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