URS

R0606

October 5, 2004

Mr. Robert Schultz
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: **Third Quarter 2004 Groundwater Monitoring Report**
Former BP Service Station #11126
1700 Powell Street
Emeryville, California
URS Project #38486797

Dear Mr. Schultz:

On behalf of the Atlantic Richfield Company (a BP affiliated company), URS Corporation (URS) is submitting the *Third Quarter 2004 Groundwater Monitoring Report* for the Former BP Service Station #11126, located at 1700 Powell Street, Emeryville, California.

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

Sincerely,

URS CORPORATION

CERTIFIED HYDROGEOLOGIST
LEONARD P. NILES
NO.HG357
EXP. 3/31/06
STATE OF CALIFORNIA

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, 76 Broadway, Sacramento, CA 95818

URS Corporation
1333 Broadway, Suite 800
Oakland, CA 94612-1924
Tel: 510.893.3600
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THIRD QUARTER 2004 GROUNDWATER MONITORING

FORMER BP SERVICE STATION #11126
1700 POWELL STREET
EMERYVILLE, CALIFORNIA

Prepared for
RM

October 5, 2004

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

38486797

Date: October 5, 2004

Quarter: 3Q 04

RM QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 11126 Address: 1700 Powell Street, Emeryville, CA

RM Environmental Business Manager: Kyle Christie

Consulting Co./Contact Person: URS Corporation / Leonard Niles

Consultant Project No.: 38486797

Primary Agency: Alameda County Environmental Health (ACEH)

WORK PERFORMED THIS QUARTER (Third – 2004):

1. Performed third quarter groundwater monitoring event on August 26, 2004.
2. Prepared and submitted third quarter 2004 groundwater monitoring report.
3. Performed interim remedial action consisting of bi-weekly batch groundwater extraction events.

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 subsurface investigation pending approval of off-site access agreements and permitting.
4. Discontinue batch groundwater extraction events due to limited recovery.
5. Prepare and submit Corrective Action Plan and Site Conceptual Model report

Current Phase of Project:	GW monitoring/sampling
Frequency of Groundwater Sampling:	Wells MW-1 through MW-9 quarterly
Frequency of Groundwater Monitoring:	Quarterly
Is Free Product (FP) Present On-Site:	No
Current Remediation Techniques:	Groundwater Batch Extraction
Approximate Depth to Groundwater:	3.61 (MW-9) to 6.06 (MW-6) feet
Groundwater Recovered this quarter (as of 9/14/04):	83 gallons (approximate)
Cumulative Groundwater Recovered since 6/8/04:	111 gallons (approximate)
Groundwater Gradient (direction):	Variable from west-northwest to south-southeast; primarily to south-southwest
Groundwater Gradient (magnitude):	0.036 feet per foot

DISCUSSION:

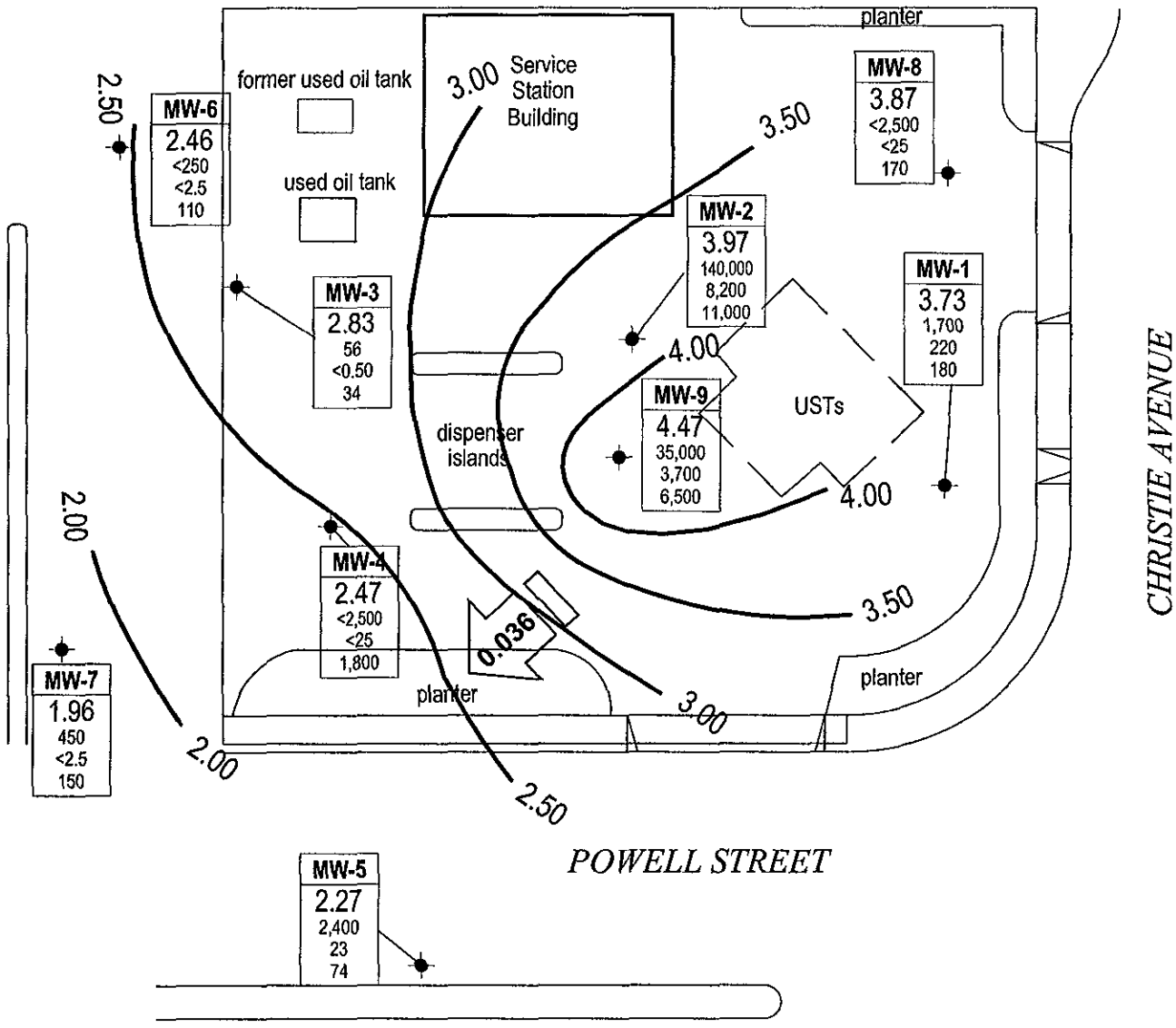
GRO were detected above laboratory reporting limits in six of the nine wells sampled at concentrations ranging from 56 µg/L (MW-3) to 140,000 µg/L (MW-2). Benzene was detected above laboratory reporting limits in four wells sampled at concentrations ranging from 23 µg/L (MW-5) to 8,200 µg/L (MW-2). MTBE was detected above laboratory reporting limits in all nine wells at concentrations ranging from 34 µg/L (MW-3) to 11,000 µg/L (MW-2). DRO and TOG were only analyzed in well MW-3. DRO was detected above laboratory reporting limit at a concentration of 250 µg/L. TOG was not detected above laboratory reporting limit of 10,000 µg/L. Groundwater samples collected during this event were also analyzed for fuel oxygenates, including ethanol, by EPA Method 8260B. Other than MTBE, the only other fuel oxygenates detected above laboratory reporting limits were ethanol, TBA and TAME. TBA was detected above laboratory reporting limits in six wells at concentrations ranging from 260 µg/L (MW-3) to 47,000 µg/L (MW-8). TAME was detected above laboratory reporting limits in six wells at concentrations ranging from 2.0 µg/L (MW-3) to 320 µg/L (MW-2). It is important to note that the analytical method used during this sampling event, EPA Method 8260B, resulted in elevated detection limits for GRO, BTEX and fuel oxygenates in several samples due to matrix interference from elevated MTBE concentrations. In order to obtain lower detection limits for ethanol analysis, split samples were analyzed for ethanol by EPA Method 8260B SIM. Ethanol was detected in five of the wells at concentrations ranging from 6.0 µg/L (MW-7) to 23 µg/L (MW-2). Since BP did not historically use ethanol in their gasoline prior to the Site sale in 1994, the pressure of ethanol in the groundwater indicates a recent (post-1994) or ongoing release. A full HVOC scan was also performed using EPA Method 8260B; the only HVOC detected was methylene chloride (a common laboratory contaminant) at 38 µg/L in MW-4.

A program of biweekly batch extraction using a vacuum truck was started in June 2004. Groundwater is extracted from wells MW-1, MW-2, MW-4, MW-8 and MW-9, as proposed in the July 2003 *Interim Remedial Action and Offsite Assessment Workplan,* as modified in April 2004. Well yields have been low; each well typically dewaters and recharges extremely slowly. The volume of groundwater extracted per event is estimated based on the calculated well volume and the number of times it is dewatered per event (typically 1 or 2). Approximately 100 gallons have been extracted from the site during the third quarter 2004. Depth to water taken before extraction, after extraction from MW-9, and after extraction from remaining wells, and volumes of groundwater extracted are shown in Table 3. Batch extraction field logs are provided as Attachment E. As a result of the limited groundwater recovery, URS plans to discontinue batch extraction.

The installation of three downgradient offsite monitoring wells was proposed in the July 2003 "*Interim Remedial Action and Offsite Assessment Workplan*", approved April 2004 by ACEH. Access to install two of these wells on the Powell Street Plaza property has been denied by the property owner. The access agreement to install one well on the adjacent Denny's Restaurant property is pending. URS will prepare and submit a Corrective Action Plan and Site Conceptual Model report by December 30, 2004, as required by ACEH's letter dated April 28, 2004.

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – August 26, 2004
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Oxygenate Analytical Data
- Table 3 – Groundwater Extraction Volumes and Depth to Water Measurements
- Attachment A – Concentration and Water Level Trends (MW-2, MW-4, & MW-9)
- 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
- Attachment E – Batch Extraction Field Logs



EXPLANATION

- Monitoring well
- 2.50 — Groundwater elevation contour (ft/MSL)
- Well / ELEV / GRO / Benzene / MTBE — Well designation; Groundwater elevation (ft/MSL); GRO, Benzene and MTBE concentrations in micrograms per liter (µg/L)
- < Not detected at or above laboratory reporting limits
- 0.023 — Groundwater flow direction and gradient (ft/ft)

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

NORTH

0 30 60

SCALE IN FEET

URS	Project No. 38486797 Former BP Service Station #11126 1700 Powell Street Emeryville, California	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Third Quarter 2004 (August 26, 2004)	FIGURE 1

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (a) (Feet)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	DRO/TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
MW-1	11/4/1992	7 76	4.96	—	2.80	5300	—	1100	480	ND<0.5	1500	— (k)	—	—	—	PACE
MW-1	10/12/1993	7 76	5.26	—	2.50	3600	—	970	71	100	550	6111 (k)	—	—	—	PACE
MW-1	2/15/1994	7.76	4.98	—	2.78	17000	—	4200	510	360	1600	5495 (k)	—	—	3.9	PACE
MW-1	5/11/1994	7.76	4.55	—	3.21	5500	—	2900	37	56	64	705 (k)	—	—	8.0	PACE
MW-1	8/1/1994	7.76	5.51	—	2.25	15000	—	3600	740	510	2800	9718 (d)(k)	—	—	2.9	PACE
QC-1 (e)	8/1/1994	—	—	—	—	16000	—	3600	750	510	2800	9800 (d)	—	—	—	PACE
MW-1	10/18/1994	7.76	5.11	—	2.65	16000	—	1800	61	160	890	15668 (k)	—	—	2.9	PACE
QC-1 (e)	10/18/1994	—	—	—	—	16000	—	1900	64	170	950	—	—	—	—	PACE
MW-1	1/13/1995	7.76	3.05	—	4.71	220	—	7	ND<0.5	I	23	—	—	—	6.6	ATI
QC-1 (e)	1/13/1995	—	—	—	—	590	—	88	0.7	ND<0.5	55	—	—	—	—	ATI
MW-1	4/13/1995	7.76	3.84	—	3.92	9300	—	4000	300	200	950	—	—	—	7.7	ATI
MW-1	7/11/1995	7.76	3.60	—	4.16	15000	—	2200	84	ND<25	2500	—	—	—	8.8	ATI
MW-1	11/2/1995	7.76	4.58	—	3.18	19000	—	920	ND<100	ND<100	430	52000	—	—	7.3	ATI
MW-1	2/5/1996	7.76	4.43	—	3.33	4600	—	1400	330	54	247	8700	—	—	3 2	SPL
MW-1	4/24/1996	7.76	4 00	—	3.76	2000	—	510	33	61	228	4500	—	—	7.5	SPL
MW-1	7/15/1996	7.76	4.30	—	3.46	—	—	—	—	—	—	—	—	—	—	—
MW-1	7/16/1996	7.76	—	—	—	12000	—	2800	170	390	1630	64000	—	—	7.9	SPL
QC-1 (e)	7/16/1996	—	—	—	—	12000	—	2800	160	390	1610	63000	—	—	—	SPL
MW-1	7/30/1996	7.76	4.64	—	3.12	—	—	—	—	—	—	—	—	—	—	—
MW-1	8/12/1996	7.76	—	—	—	11000	—	2500	160	ND<10	1740	440000	—	—	7.0	SPL
MW-1	11/4/1996	7.76	5 98	—	1.78	—	—	—	—	—	—	—	—	—	—	—
MW-1	11/5/1996	7.76	—	—	—	53000	—	1300	43	100	349	42000/190000 (f)	—	—	6 6	SPL
MW-1	5/17/1997	7.76	4.65	—	3.11	52000	—	1958	55	305	1216	140198	—	—	5.7	SPL
MW-1	8/11/1997	7.76	4.90	—	2.86	25000	—	540	6.7	ND<5.0	57	360000	—	—	7.9	SPL
MW-1	11/17/1997	7 76	6.12	—	1.64	93000	—	1200	31	180	40	400000	—	—	7.6	SPL
MW-1	1/29/1998	7 76	4.90	—	2.86	4800	—	320	24	52	19.9	ND<50	—	—	6.6	SPL
MW-1	6/22/1998	7.76	4.62	—	3.14	63000	—	180	ND<5.0	15	69	57000	—	—	6.0	
MW-1	12/30/1998	7.76	5.41	—	2.35	22000	—	2500	24	120	400	15000/13000 (f)	—	—	—	SPL
MW-1	3/9/1999	7.76	3.40	—	4.36	16000	—	2000	84	290	510	13000	—	—	—	SPL
MW-1	6/23/1999	7.76	4.60	—	3.16	9600	—	4500	21	160	260	24000	—	—	—	SPL
MW-1	9/23/1999	7.76	4.21	—	3 55	3800	—	1600	32	150	240	7100	—	—	—	SPL
MW-1	12/28/1999	7 76	4.10	—	3.66	3400	—	ND<2200	17	53	130	5500	—	—	—	PACE
MW-1	3/22/2000	7.76	5.51	—	2.25	6400	—	1100	45	190	330	4900	—	—	—	PACE
MW-1	5/26/2000	7.76	4.79	—	2.97	110000	—	700	44	140	250	320000	—	—	—	PACE
MW-1	9/6/2000	7.76	5.19	—	2.57	5600	—	1000	13	57	90	19000	—	—	—	PACE
MW-1	9/15/2000	7.76	5.73	—	2.03	—	—	—	—	—	—	—	—	—	—	—
MW-1	12/11/2000	7.76	5.82	—	1 94	5500	—	1160	47.1	155	292	3900	—	—	—	PACE
MW-1 (h)	3/29/2001	7 76	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-1	6/27/2001	7.76	5.49	—	2.27	6100	—	1200	12.9	17.3	77.9	1780	—	—	—	PACE
MW-1	9/19/2001	7.76	6.19	—	1.57	1800	—	102	ND<12.5	ND<12.5	ND<37 5	1090	—	—	—	PACE
MW-1	12/28/2001	7.76	5 27	—	2.49	4000	—	540	11.8	20.4	64.6	1120	—	—	—	PACE
MW-1	3/12/2002	7.76	5 68	—	2.08	3700	—	491	8.39	12.4	27.3	1020	—	—	—	PACE
MW-1	6/13/2002*	7.76	5.54	—	2.22	1900	—	255	ND<12.5	ND<12.5	ND<25	6490	—	—	—	PACE

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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a) DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	(b) GRO/TPH-G (ug/L)	DRO/TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
MW-1	9/6/2002	7.76	5.56	---	2.20	1100	---	170	5.1	2.2	20	550		---	---	---	SEQ
MW-1 (o)	12/13/2002	7.76	5.45	---	2.31	2700	---	610	10	18	67	470		---	---	---	SEQ
MW-1 (p)	2/19/2003	7.76	3.00	---	4.76	1500	---	180	ND<5.0	ND<5.0	15	610		---	---	---	SEQ
MW-1	6/6/2003	7.76	5.52	---	2.24	4600	---	620	ND<25	ND<25	55	1400		---	---	---	SEQ
MW-1	8/7/2003	7.76	5.55	---	2.21	2000	---	290	ND<5.0	ND<5.0	15	920		---	---	---	SEQ
MW-1	11/20/2003	7.76	5.41	---	2.35	2800	---	420	11	11	53	250		---	---	---	SEQ
MW-1	2/5/2004	7.76	3.42	---	4.34	ND<2,500	---	68	ND<25	ND<25	ND<25	460		---	---	---	SEQ
MW-1	4/28/2004	7.76	5.33	---	2.43	1600		100	5.3	ND<5.0	8.8	200		---	---	---	SEQ
MW-1	**8/26/2004**	**7.76**	**4.03**	**---**	**3.73**	**1700**		**220**	**7.2**	**15**	**35**	**180**		**---**	**ND**	**---**	**SEQ**
MW-2	11/4/1992	8.56	5.88	---	2.68	12000	---	3900	1300	ND<0.5	2300	---	(k)	---	---	---	PACE
QC-1 (e)	11/4/1992	---	---	---	---	12000	---	3200	980	ND<0.5	1900	---		---	---	---	PACE
MW-2	10/12/1993	8.56	6.29	---	2.27	4500	---	3400	180	230	940	442	(k)	---	---	---	PACE
MW-2	2/15/1994	8.56	5.56	---	3.00	2000	---	430	270	28	390	127	(k)	---	---	4.0	PACE
QC-1 (e)	2/15/1994	---	---	---	---	1800	---	290	160	14	250	---		---	---	---	PACE
MW-2	5/11/1994	8.56	5.17	---	3.39	14000	---	3900	1200	440	1900	953	(k)	---	---	8.9	PACE
QC-1 (e)	5/11/1994	---	---	---	---	15000	---	5600	1500	470	2000	740	(d)	---	---	---	PACE
MW-2	8/1/1994	8.56	5.43	---	3.13	8200	---	3000	420	230	680	1676	(k)	---	---	2.6	PACE
MW-2	10/18/1994	8.56	5.71	---	2.85	9000	---	2000	140	150	420	2417	(k)	---	---	7.2	PACE
MW-2	1/13/1995	8.56	4.67	---	3.89	7900	---	2200	42	ND<5	770	---		---	---	6.8	ATI
MW-2	4/13/1995	8.56	4.37	---	4.19	33000	---	8000	2500	1100	6600	---		---	---	7.5	ATI
QC-1 (e)	4/13/1995	---	---	---	---	25000	---	6500	1500	110	5300	---		---	---	---	ATI
MW-2	7/11/1995	8.56	4.51	---	4.05	19000	---	3300	99	7.5	4600	---		---	---	7.8	ATI
QC-1 (e)	7/11/1995	---	---	---	---	28000	---	6800	1000	900	4900	---		---	---	---	ATI
MW-2	11/2/1995	8.56	5.55	---	3.01	20000	---	3800	1200	570	2700	15000		---	---	7.3	ATI
QC-1 (e)	11/2/1995	---	---	---	---	22000	---	4000	1200	600	2700	19000		---	---	---	ATI
MW-2	2/5/1996	8.56	5.10	---	3.46	1200	---	320	220	26	187	99		---	---	2.2	SPL
QC-1 (e)	2/5/1996	---	---	---	---	910	---	290	180	19	137	93		---	---	---	SPL
MW-2	4/24/1996	8.56	4.95	---	3.61	ND<500	---	70	22	ND<10	61	ND<50		---	---	7.0	SPL
QC-1 (e)	4/24/1996	---	---	---	---	ND<500	---	100	30	ND<10	71	ND<100		---	---	---	SPL
MW-2	7/15/1996	8.56	5.40	---	3.16	---	---	---	---	---	---	---		---	---	---	---
MW-2	7/16/1996	8.56	---	---	---	12000	---	3300	1400	250	2610	1400		---	---	7.8	SPL
MW-2	7/30/1996.	8.56	5.44	---	3.12	---	---	---	---	---	---	---		---	---	---	---
MW-2	11/4/1996	8.56	7.06	---	1.50	---	---	---	---	---	---	---		---	---	---	---
MW-2	11/5/1996	8.56	---	---	---	7200	---	1400	230	38	2110	1100		---	---	7.4	SPL
QC-1 (e)	11/5/1996	---	---	---	---	9200	---	1300	170	ND<25	2240	1100		---	---	---	SPL
MW-2	5/17/1997	8.56	5.77	---	2.79	570	---	42	ND<5.0	5.0	60	210		---	---	6.9	SPL
MW-2	8/11/1997	8.56	5.71	---	2.85	6300	---	1800	130	86	397	2400		---	---	8.5	SPL
MW-2	11/17/1997	8.56	6.91	---	1.65	2400	---	220	30	33	259	130		---	---	7.9	SPL
MW-2	1/29/1998	8.56	4.61	---	3.95	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	---	6.2	SPL
MW-2	6/22/1998	8.56	4.80	---	3.76	4200	---	640	150	120	650	560		---	---	5.4	SPL
MW-2	12/30/1998	8.56	5.21	---	3.35	---	---	---	---	---	---	---		---	---	---	---
MW-2	6/23/1999	8.56	5.30	---	3.26	---	---	---	---	---	---	---		---	---	---	---
MW-2	9/23/1999	8.56	4.75	---	3.81	3800	---	760	19	210	960	910		---	---	---	SPL
MW-2	12/28/1999	8.56	4.51	---	4.05	---	---	---	---	---	---	---		---	---	---	---
MW-2	3/22/2000	8.56	4.21	---	4.35	2500	---	780	17	44	270	2800		---	---	---	PACE
MW-2	5/26/2000	8.56	4.66	---	3.90	---	---	---	---	---	---	---		---	---	---	---
MW-2	9/6/2000	8.56	4.71	---	3.85	3700	---	1200	5.5	12	170	12000		---	---	---	PACE
MW-2	9/15/2000	8.56	4.74	---	3.82	---	---	---	---	---	---	---		---	---	---	---
MW-2	12/11/2000	8.56	4.79	---	3.77	---	---	---	---	---	---	---		---	---	---	---

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a) DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	(b) GRO/TPH-G (ug/L)	DRO/TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
MW-2 (h)	3/29/2001	8.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2 (j)	6/27/2001	8.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2 (j)	9/19/2001	8.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2 (j)	12/28/2001	8.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	3/12/2002	8.56	4.25	---	4.31	26000	---	1160	4.39	61.1	171	37300	---	---	---	PACE
MW-2	6/13/2002*	8.56	4.94	---	3.62	18000	---	578	ND<50	ND<50	ND<100	84600	---	---	---	PACE
MW-2	9/6/2002	8.56	5.23	---	3.33	26000	---	440	ND<50	ND<50	ND<50	45000	---	---	---	SEQ
MW-2 (o)	12/13/2002	8 56	4.94	---	3.62	69000	---	1200	ND<500	ND<500	ND<500	98000	---	---	---	SEQ
MW-2 (p)	2/19/2003	8 56	4.14	---	4.42	78000	---	1100	ND<500	ND<500	ND<500	81000	---	---	---	SEQ
MW-2	6/6/2003	8.56	4.66	---	3.90	120000	---	1100	ND<1000	ND<1000	ND<1000	72000	---	---	---	SEQ
MW-2	8/7/2003	8.56	4.90	Sheen	3.66	71000	---	590	ND<500	ND<500	ND<500	83000	---	---	---	SEQ
MW-2	11/20/2003	8.56	4.59	---	3 97	22000	---	720	ND<100	ND<100	ND<100	18000	---	---	---	SEQ
MW-2	2/5/2004	8.56	4.34	---	4.22	40000	(s) ---	330	ND<250	ND<250	ND<250	22000	---	---	---	SEQ
MW-2	4/28/2004	8.56	4.37	---	4.19	ND<25000		690	ND<250	ND<250	ND<250	31000	---	---	---	SEQ
MW-2	**8/26/2004**	**8.56**	**4.59**	**---**	**3.97**	**140000**		**8200**	**18000**	**4200**	**19000**	**11000**	**---**	**ND**	**---**	**SEQ**

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet) (a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet) (b)	GRO/TPH-G (ug/L)	DRO/TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
MW-3	11/4/1992	8.25	6.38	—	1.87	200	690	1.6	ND<0.5	ND<0.5	1.1	---	(k) ND<5000	ND	---	PACE
MW-3	10/12/1993	8.25	5.84	—	2.41	270	###	5.0	0.7	ND<0.5	2.6	96.3	(k) ND<5000	ND	—	PACE
QC-1 (e)	10/12/1993	---	---	---	—	150	—	5.6	0.6	ND<0.5	1.6	—	---	—	—	PACE
MW-3	2/15/1994	8.25	6.60	---	1.65	140	2.3	5.7	ND<0.5	ND<0.5	ND<0.5	30.1	(k) 90	ND	3.9	PACE
MW-3	5/11/1994	8.25	5.86	---	2.39	190	###	2.7	1.9	ND<0.5	1.9	51	(d)(k) ND<5000	ND	9.2	PACE
MW-3	8/1/1994	8.25	6.13	—	2.12	120	###	1.3	ND<0.5	0 5	1.1	17.6	(k) ND<5000	ND	2.9	PACE
MW-3	10/18/1994	8.25	6.39	—	1 86	100	###	2.3	ND<0.5	ND<0.5	ND<0.5	21	(k) ND<5000	ND	3.6	PACE
MW-3	1/13/1995	8.25	5.47	---	2 78	ND<50	970	0.8	ND<0.5	ND<0.5	ND<1	—	---	ND	7.7	ATI
MW-3	4/13/1995	8.25	5.17	---	3.08	530	ND<500	8.7	1.9	ND<0.5	3.9	—	2100	ND	8.4	ATI
MW-3	7/11/1995	8.25	5.37	—	2.88	78	###	0.57	ND<0.50	ND<0.50	ND<1.0	---	1900	ND	8.3	ATI
MW-3	11/2/1995	8.25	6.29	—	1.96	250	###	0.73	ND<0.50	ND<0.50	1.8	270	1400	ND	8.3	ATI
MW-3	2/5/1996	8.25	5.80	—	2.45	ND<50	###	ND<0.5	ND<1	ND<1	2.7	11	9000	ND	3.5	SPL
MW-3	4/24/1996	8.25	5.69	—	2.56	ND<50	###	ND<5	ND<10	ND<10	ND<10	150	6000	ND	8.6	SPL
MW-3	7/15/1996	8.25	6.18	—	2.07	ND<250	###	ND<2 5	ND<5	ND<5	ND<5	ND<50	1000	ND	7.7	SPL
MW-3	7/30/1996	8 25	6.04	---	2.21	---	---	---	---	---	---	---	---	---	---	---
MW-3	11/4/1996	8.25	7.84	—	0.41	---	---	---	---	---	---	---	---	---	---	---
MW-3	11/5/1996	8.25	---	---	—	90	890	ND<0.5	ND<1.0	ND<1.0	ND<1 0	30	2000	ND	6.8	SPL
MW-3	5/17/1997	8.25	6.49	—	1.76	ND<50	###	ND<0.5	ND<1.0	ND<1.0	ND<1 0	52	700	ND	6.3	SPL
MW-3	8/11/1997	8.25	6.15	—	2.10	490	###	ND<2 5	ND<5.0	ND<5.0	ND<5.0	170	ND<5000	ND	7 4	SPL
MW-3	11/17/1997	8.25	7.15	---	1.10	120	###	ND<0.5	ND<1.0	ND<1.0	ND<1.0	46	ND<5000	ND	7.0	SPL
MW-3	1/29/1998	8 25	5.10	---	3.15	270	###	0.53	ND<1.0	ND<1.0	ND<1.0	330	2000	ND	6.4	SPL
MW-3	6/22/1998	8 25	5 50	---	2.75	200	###	ND<0.5	ND<1.0	ND<1.0	ND<1.0	130	ND<5	ND	5.5	SPL
MW-3	12/30/1998	8.25	6.68	---	1.57	---	---	---	---	---	---	---	---	---	---	---
MW-3	3/9/1999	8.25	5.53	---	2.72	60	840	ND<1 0	ND<1.0	ND<1.0	ND<1.0	19	7600	---	---	SPL
MW-3	6/23/1999	8.25	6.60	---	1.65	---	---	---	---	---	---	---	---	---	---	---
MW-3	9/23/1999	8.25	6.17	---	2.08	---	---	---	---	---	---	---	---	---	---	---
MW-3	12/28/1999	8.25	6 00	---	2.25	---	---	---	---	---	---	---	---	---	---	---
MW-3	3/22/2000	8.25	4.77	---	3.48	690	ND<58	4.2	3.1	0.81	2.7	2900	13000	---	---	PACE
MW-3	5/26/2000	8.25	5.28	---	2.97	---	---	---	---	---	---	---	---	---	---	---
MW-3	9/15/2000	8.25	5.58	---	2 67	---	---	---	---	---	---	---	---	---	---	---
MW-3	12/11/2000	8.25	11.74	---	-3.49 (i)	---	---	---	---	---	---	---	---	---	---	---
MW-3	3/29/2001	8.25	5.04	---	3.21	650	ND<50	ND<2.5	ND<2.5	ND<2.5	ND<7.5	680	6540	---	---	PACE
MW-3	6/27/2001	8.25	5.62	---	2.63	460	690	ND<2.5	ND<2.5	ND<2 5	ND<7.5	560	ND<5000	---	---	PACE
MW-3	9/19/2001	8.25	5.80	---	2.45	ND<500	520	ND<5.0	ND<5.0	ND<5.0	ND<15	464	ND<5000	---	---	PACE
MW-3	12/28/2001	8.25	4.85	---	3.40	180	550	ND<0.5	ND<0.5	ND<0.5	ND<1.0	180	ND<5000	---	---	PACE
MW-3	3/12/2002	8.25	4.39	---	3.86	410	###	ND<2.5	ND<2.5	ND<2.5	ND<5 0	443	ND<5000	---	---	PACE
MW-3	6/13/2002*	8.25	5.38	---	2.87	ND<250	###	ND<2.5	ND<2.5	ND<2.5	ND<5.0	395	ND<5000	---	---	PACE
MW-3	9/6/2002	8.25	5.68	---	2.57	ND<200	---	ND<2.0	ND<2.0	ND<2.0	ND<2.0	650	---	---	---	SEQ
MW-3 (o)	12/13/2002	8.25	5.37	—	2.88	ND<50	980	ND<0.5	ND<0.5	ND<0.5	ND<0.5	60	7000	---	---	SEQ
MW-3 (p)	2/19/2003	8.25	4.80	---	3.45	ND<1000	380	ND<10	ND<10	ND<10	ND<10	120	6700	---	---	SEQ
MW-3	6/6/2003	8 25	5.13	---	3.12	ND<500	620	ND<5.0	ND<5 0	ND<5.0	ND<5.0	180	7.9	---	---	SEQ
MW-3	8/7/2003	8.25	5.43	---	2.82	ND<500	820 (q)	5 7	ND<5.0	ND<5 0	ND<5.0	290	5.4	---	---	SEQ
MW-3	11/20/2003	8.25	4.72	---	3.53	ND<50	### (q)	ND<0.50	ND<0.50	ND<0.50	ND<0.50	17	ND<4 8	---	---	SEQ
MW-3	2/5/2004	8.25	5.17	---	3.08	ND<50	340 (q)	ND<0.50	ND<0.50	ND<0.50	ND<0.50	12	8.2	---	---	SEQ
MW-3	4/28/2004	8.25	4.87	---	3.38	ND<100	240 (q)	ND<1.0	ND<1.0	ND<1.0	ND<1.0	87	ND<5100	---	---	SEQ
MW-3	**8/26/2004**	**8.25**	**5.42**	**—**	**2.83**	**56**	**250 (q)**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**34**	**ND<10000**	**ND**	**—**	**SEQ**

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1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a) DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	(b) GRO/TPH-G (ug/L)	DRO/TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
MW-4	11/4/1992	8.12	6.66	—	1.46	340	—	4.5	ND<0.5	4.3	ND<0.5	—	(k)	—	—	—	PACE
MW-4	10/12/1993	8.12	6.87	—	1.25	160	—	5.8	1.4	0 8	2.7	261	(k)	—	—	—	PACE
MW-4	2/15/1994'	8.12	6.61	—	1.51	110	—	4.4	0.7	ND<0.5	2.5	118	(d)(k)	—	—	4.3	PACE
MW-4	5/11/1994	8.12	5.89	—	2.23	120	—	0.5	0.8	ND<0.5	ND<0.5	137	(d)(k)	—	—	9.3	PACE
MW-4	8/1/1994	8.12	6.87	—	1.25	140	—	0.7	2.0	5.2	15	138	(k)	—	—	3.3	PACE
MW-4	10/18/1994	8.12	6.62	—	1.50	140	—	3.5	ND<0.5	0.5	ND<0.5	197	(k)	—	—	3.0	PACE
MW-4	1/13/1995	8.12	7.27	—	0.85	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<1	—		—	—	7.9	ATI
MW-4	4/13/1995	8.12	6.51	—	1.61	73	—	1.2	ND<0.5	ND<0.5	ND<1	—		—	—	9.9	ATI
MW-4	7/11/1995	8.12	6.21	—	1.91	82	—	0.57	ND<0.50	ND<0.50	ND<1.0	—		—	—	7.2	ATI
MW-4	11/2/1995	8.12	6.78	—	1.34	71	—	1.4	0.96	0.99	2.8	140		—	—	8.6	ATI
MW-4	2/5/1996	8.12	6.41	—	1.71	ND<50	—	ND<5	ND<10	ND<10	ND<10	200		—	—	4 4	SPL
MW-4	4/24/1996	8.12	6.18	—	1.94	ND<250	—	ND<2.5	ND<5	ND<5	ND<5	510		—	—	8 3	SPL
MW-4	7/15/1996	8.12	6.63	—	1.49	ND<50	—	5.7	ND<1	ND<1	ND<1	550		—	—	7.4	SPL
MW-4	7/30/1996	8.12	6.34	—	1.78	—	—	—	—	—	—	—		—	—	—	—
MW-4	11/4/1996	8.12	8.27	—	-0.15	—	—	—	—	—	—	—		—	—	—	—
MW-4	11/5/1996	8.12	—	—	—	460	—	ND<2.5	11	ND<5.0	ND<5.0	620/610	(f)	—	—	7.3	SPL
MW-4	5/17/1997	8.12	7.00	—	1.12	—	—	—	—	—	—	—		—	—	—	—
MW-4	8/11/1997	8.12	6.81	—	1.31	—	—	—	—	—	—	—		—	—	—	—
MW-4	11/17/1997	8.12	9.19	—	-1.07	840	—	ND<0.5	ND<1.0	ND<1 0	ND<1.0	880		—	—	7 3	SPL
MW-4	1/29/1998	8.12	7.94	—	0.18	—	—	—	—	—	—	—		—	—	—	—
MW-4	6/22/1998	8.12	7.49	—	0.63	—	—	—	—	—	—	—		—	—	—	—
MW-4	12/30/1998	8.12	8.21	—	-0 09	—	—	—	—	—	—	—		—	—	—	—
MW-4	3/9/1999	8.12	7.70	—	0.42	1200	—	ND<1.0	ND<1.0	ND<1.0	ND<1.0	2000		—	—	—	SPL
MW-4	6/23/1999	8.12	8.81	—	-0.69	—	—	—	—	—	—	—		—	—	—	—
MW-4	9/23/1999	8 12	8.32	—	-0.20	—	—	—	—	—	—	—		—	—	—	—
MW-4	12/28/1999	8.12	8.21	—	-0.09	—	—	—	—	—	—	—		—	—	—	—
MW-4	3/22/2000	8.12	6.74	—	1.38	910	—	ND<0.5	ND<0.5	0.54	1.7	3800		—	—	—	PACE
MW-4	5/26/2000	8.12	5.13	—	2.99	—	—	—	—	—	—	—		—	—	—	—
MW-4	9/15/2000	8.12	8.20	—	-0 08	—	—	—	—	—	—	—		—	—	—	—
MW-4	12/11/2000	8.12	8.31	—	-0.19	—	—	—	—	—	—	—		—	—	—	—
MW-4 (h)	3/29/2001	8.12	—	—	—	—	—	—	—	—	—	—		—	—	—	—
MW-4	6/27/2001	8 12	7.57	—	0.55	2800	—	18.9	ND<2.5	ND<2.5	ND<7.5	4220		—	—	—	PACE
MW-4	9/19/2001	8.12	7.87	—	0.25	2500	—	ND<5.0	ND<5.0	ND<5.0	ND<15	3340		—	—	—	PACE
MW-4	12/28/2001	8.12	7.80	—	0.32	4400	—	ND<5.0	ND<5.0	ND<5.0	ND<10	5330		—	—	—	PACE
MW-4	3/12/2002	8.12	4.53	—	3.59	6400	—	71 5	ND<5.0	ND<5.0	ND<10	8440		—	—	—	PACE
MW-4	6/13/2002*	8.12	6.21	—	1.91	1800	—	7.5	ND<5.0	5.03	13.1	6870		—	—	—	PACE
MW-4	9/6/2002	8.12	7.78	—	0.34	ND<2000	—	ND<20	ND<20	ND<20	ND<20	9600		—	—	—	SEQ
MW-4 (o)	12/13/2002	8.12	7.87	—	0.25	5600	—	ND<50	ND<50	ND<50	ND<50	8600		—	—	—	SEQ
MW-4 (p)	2/19/2003	8.12	4.84	—	3.28	ND<10000	—	ND<100	ND<100	ND<100	ND<100	8000		—	—	—	SEQ
MW-4	6/6/2003	8.12	7.98	—	0.14	13000	—	ND<50	ND<50	ND<50	ND<50	6800		—	—	—	SEQ
MW-4	8/7/2003	8.12	7.24	—	0.88	6200	—	ND<50	ND<50	ND<50	ND<50	6600		—	—	—	SEQ
MW-4	11/20/2003	8.12	7.02	—	1.10	10000	—	ND<100	ND<100	ND<100	ND<100	11000		—	—	—	SEQ
MW-4	2/5/2004	8.12	7.37	—	0.75	6900 (s)	—	ND<25	ND<25	ND<25	ND<25	4700		—	—	—	SEQ
MW-4	4/28/2004	8.12	4.81	—	3.31	ND<25000	—	ND<250	ND<250	ND<250	ND<250	3600		—	—	—	SEQ
MW-4	**8/26/2004**	**8.12**	**5.65**	**—**	**2.47**	**ND<2500**	**—**	**ND<25**	**ND<25**	**ND<25**	**ND<25**	**1800**		**—**	**38 (t)**	**—**	**SEQ**

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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet) (a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	DRO/TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
MW-5	10/12/1993	7.69	6.01	---	1.68	---	---	---	---	---	---	---	(k)	---	---	---	PACE
MW-5	10/13/1993	7.69	---	---	---	2300	---	160	10	ND<0.5	26	---	(k)	---	---	---	PACE
MW-5	2/15/1994	7.69	5.74	---	1.95	5100	---	710	16	33	35	153	(d)(k)	---	---	4.0	PACE
MW-5	5/11/1994	7.69	5.28	---	2.41	11000	---	1100	39	110	57	165	(d)(k)	---	---	8.0	PACE
MW-5	8/1/1994	7.69	5.84	---	1.85	9000	---	730	35	61	41	196	(d)(k)	---	---	2.6	PACE
MW-5	10/18/1994	7.69	6.01	---	1.68	7800	---	330	30	27	27	559	(k)	---	---	5.6	PACE
MW-5	1/13/1995	7.69	4.74	---	2.95	ND<500	---	290	6	ND<5	18	---		---	---	6.8	ATI
MW-5	4/13/1995	7.69	5.50	---	2.19	9100	---	400	15	52	27	---		---	---	7.4	ATI
MW-5	7/11/1995	7.69	5.75	---	1.94	7300	---	390	13	28	23	---		---	---	7.2	ATI
MW-5	11/3/1995	7 69	6 65	---	1.04	7200	---	270	15	38	23	200		---	---	8.4	ATI
MW-5	2/5/1996	7.69	4.83	---	2.86	4600	---	370	15	53	28	ND<50		---	---	1.9	SPL
MW-5	4/24/1996	7.69	6.09	---	1.60	3000	---	180	ND<10	32	14	ND<100		---	---	8.1	SPL
MW-5	7/15/1996	7.69	6.57	---	1.12	---	---	---	---	---	---	---		---	---	---	---
MW-5	7/16/1996	7.69	---	---	---	ND<50	---	190	ND<10	31	16	ND<100		---	---	8.3	SPL
MW-5	7/30/1996	7.69	5.61	---	2.08	---	---	---	---	---	---	---		---	---	---	---
MW-5	8/12/1996.	7.69	---	---	---	2000	---	150	12	25	18.2	ND<50		---	---	7.6	SPL
MW-5	11/4/1996	7.69	8.25	---	-0.56	---	---	---	---	---	---	---		---	---	---	---
MW-5	11/5/1996	7.69	---	---	---	5200	---	42	5.5	13	ND<5.0	1700		---	---	7.4	SPL
MW-5	5/17/1997	7.69	6.95	---	0.74	80	---	0.56	ND<1.0	ND<1.0	ND<1 0	46		---	---	6.7	SPL
MW-5	8/11/1997	7.69	6.72	---	0.97	2700	---	20	12	6.7	9.7	1900		---	---	8.5	SPL
MW-5	11/17/1997	7.69	9.49	---	-1.80	8400	---	25	12	8.7	5.4	13000		---	---	7.9	SPL
MW-5	1/29/1998	7.69	7.88	---	-0.19	110000	---	2500	110	180	589	180000		---	---	6.8	SPL
MW-5	6/22/1998	7 69	7.40	---	0 29	4400	---	47	10	29	20.5	47		---	---	6.6	SPL
MW-5	12/30/1998	7.69	6.13	---	1.56	6000	---	18	9.1	22	16	63/44	(f)	---	---	---	SPL
MW-5	3/9/1999	7.69	4.79	---	2.90	4600	---	8.8	5.5	12	11	24		---	---	---	SPL
MW-5	6/23/1999	7.69	5.95	---	1.74	3400	---	1500	8.9	54	87	7500		---	---	---	SPL
MW-5	9/23/1999	7.69	5.43	---	2.26	2600	---	510	14	140	650	580		---	---	---	SPL
MW-5	12/28/1999	7.69	5 30	---	2.39	3500	---	900	18	57	140	4800		---	---	---	PACE
MW-5 (h)	3/22/2000	7 69	---	---	---	---	---	---	---	---	---	---		---	---	---	---
MW-5 (h)	5/26/2000	7.69	---	---	---	---	---	---	---	---	---	---		---	---	---	---
MW-5 (h)	9/6/2000	7.69	---	---	---	---	---	---	---	---	---	---		---	---	---	---
MW-5 (h)	9/15/2000	7.69	---	---	---	---	---	---	---	---	---	---		---	---	---	---
MW-5 (h)	12/11/2000	7.69	---	---	---	---	---	---	---	---	---	---		---	---	---	---
MW-5 (h)	3/29/2001	7 69	---	---	---	---	---	---	---	---	---	---		---	---	---	---
MW-5 (j)	6/27/2001	7.69	---	---	---	---	---	---	---	---	---	---		---	---	---	---
MW-5 (j)	9/19/2001	7.69	---	---	---	---	---	---	---	---	---	---		---	---	---	---
MW-5	12/28/2001	7.69	4.65	---	3.04	4600	---	19.9	24.6	16.2	57	72.3		---	---	---	PACE
MW-5	3/12/2002	7.69	5.35	---	2.34	5100	---	45.4	13.7	22	38.9	31.6		---	---	---	PACE
MW-5	6/13/2002	7 69	5 34	---	2.35	2900	---	31.8	ND<12.5	ND<12 5	ND<25	616		---	---	---	PACE
MW-5	9/6/2002	7.69	5 46	---	2.23	3400	---	23	5.5	ND<5.0	11	230		---	---	---	SEQ
MW-5 (o)	12/13/2002	7.69	5.47	---	2.22	2500	---	12	9 3	4.6	8.8	110		---	---	---	SEQ
MW-5 (p)	2/19/2003	7.69	5.29	---	2.40	2800	---	11	5.4	9.7	12	6.4		---	---	---	SEQ
MW-5	6/6/2003	7.69	5.30	---	2.39	3200	---	9 1	ND<5.0	7.6	9.3	ND<5.0		---	---	---	SEQ
MW-5	8/7/2003	7.69	5.33	---	2.36	2200	---	7.3	ND<5.0	ND<5.0	9.1	18		---	---	---	SEQ
MW-5	11/20/2003	7.69	5.39	---	2.30	3500	---	12	5.4	6.4	12	12		---	---	---	SEQ
MW-5	2/5/2004	7.69	5.34	Sheen	2.35	2800	---	7.0	3.5	5.2	8.2	ND<2.5		---	---	---	SEQ
MW-5	4/28/2004	7.69	5.53	Sheen	2.16	5700	---	7 8	4.2	5.2	11	11		---	---	---	SEQ
MW-5	**8/26/2004**	**7.69**	**5.42**	**---**	**2.27**	**2400**	**---**	**23**	**4.0**	**3.6**	**11**	**74**		**---**	**ND**	**---**	**SEQ**

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet) (a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	DRO/TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
MW-6	10/12/1993	8.52	6.59	—	1.93	63	---	ND<0.5	ND<0.5	ND<0.5	ND<0 5	44.4	(k)	---	---	---	PACE
MW-6	2/15/1994	8.52	6.31	—	2.21	68	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	38.1	(d)(k)	---	---	3.1	PACE
MW-6	5/11/1994	8.52	6.15	---	2.37	68	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	48.5	(d)(k)	---	---	8.7	PACE
MW-6	8/1/1994	8.52	6.46	---	2 06	91	—	ND<0.5	ND<0.5	ND<0.5	0.6	59.6	(k)	---	---	2.4	PACE
MW-6	10/18/1994	8.52	6.72	---	1.80	ND<50	—	ND<0.5	ND<0.5	ND<0 5	ND<0.5	84.6	(k)	—	—	6.0	PACE
MW-6	1/13/1995	8.52	5.95	—	2.57	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---		—	—	7.0	ATI
MW-6	4/13/1995	8.52	5.44	—	3.08	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	—		—	—	8.5	ATI
MW-6	7/11/1995	8.52	5.68	—	2.84	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—		---	---	8.4	ATI
MW-6	11/2/1995	8.52	6.57	—	1.95	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<1.0	35		---	---	8.3	ATI
MW-6	2/5/1996	8.52	6.27	---	2.25	ND<50	—	ND<5	ND<10	ND<10	ND<10	ND<100		---	—	2.2	SPL
MW-6	4/24/1996	8 52	5.95	—	2.57	ND<250	—	ND<2.5	ND<5	ND<5	ND<5	62		—	—	8.0	SPL
MW-6	7/15/1996	8.52	6.39	—	2.13	ND<250	—	ND<2.5	ND<5	ND<5	ND<5	ND<50		---	---	8.0	SPL
MW-6	7/30/1996	8.52	6.44	---	2.08	---	---	---	---	---	---	---		---	---	---	---
MW-6	11/4/1996	8.52	8.05	---	0 47	---	---	---	---	---	---	---		---	---	---	---
MW-6	11/5/1996	8.52	---	---	---	ND<50	—	ND<0.5	ND<1.0	ND<1 0	ND<1.0	ND<10		—	—	7.3	SPL
MW-6	5/17/1997	8 52	6.75	—	1.77	---	---	---	---	---	---	---		---	---	---	---
MW-6	8/11/1997	8.52	6.48	---	2.04	---	—	---	---	---	---	---		---	---	---	---
MW-6	11/17/1997	8.52	9.27	---	-0.75	ND<50	—	ND<0.5	ND<1 0	ND<1.0	ND<1.0	ND<10		---	---	7.7	SPL
MW-6	1/29/1998	8.52	7.98	---	0.54	---	---	---	---	---	---	---		---	---	---	---
MW-6	6/22/1998	8.52	7.68	—	0.84	---	---	---	---	---	---	---		---	---	---	---
MW-6	12/30/1998	8.52	6.98	—	1.54	---	---	---	---	---	---	---		---	---	---	---
MW-6	3/9/1999	8.52	5.90	---	2.62	---	---	---	---	---	---	---		---	---	---	---
MW-6	6/23/1999	8.52	6.93	---	1.59	---	---	---	---	---	---	---		---	---	---	---
MW-6	9/23/1999	8.52	6 45	---	2.07	---	---	---	---	---	---	---		---	---	---	---
MW-6	12/28/1999	8.52	6.33	---	2.19	---	—	---	---	---	---	---		---	---	---	---
MW-6	3/22/2000	8.52	5.15	---	3.37	---	---	---	---	---	---	---		---	---	---	---
MW-6	5/26/2000	8.52	5.72	---	2.80	---	---	---	---	---	---	---		---	---	---	---
MW-6	9/15/2000	8.52	6.02	---	2.50	---	---	---	---	---	---	---		---	---	---	---
MW-6	12/11/2000	8.52	6 20	---	2.32	---	---	---	---	---	---	---		---	---	---	---
MW-6	3/29/2001	8.52	5.34	---	3.18	750	---	ND<2.5	2.91	ND<2.5	11 8	820		---	---	---	PACE
MW-6	6/27/2001	8.52	6.00	---	2.52	760	---	32.9	ND<2 5	ND<2.5	ND<7.5	968		---	---	---	PACE
MW-6	9/19/2001	8.52	6.22	---	2.30	ND<500	---	ND<5.0	ND<5.0	ND<5.0	ND<15	879		---	---	---	PACE
MW-6 (n)	12/28/2001	8.52	4.71	---	3 81	---	—	---	---	---	---	---		---	---	---	---
MW-6	3/12/2002	8 52	4.96	—	3.56	ND<500	—	ND<5.0	ND<5.0	ND<5.0	ND<10	244		---	---	---	PACE
MW-6	6/13/2002*	8.52	5.78	—	2.74	ND<250	—	ND<2.5	ND<2.5	ND<2.5	ND<5.0	413		---	---	---	PACE
MW-6	9/6/2002	8.52	6.14	---	2.38	130	---	ND<0 5	ND<0.5	ND<0.5	ND<0.5	240		—	---	---	SEQ
MW-6 (o)	12/13/2002	8.52	6 05	---	2.47	140	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	200		—	---	---	SEQ
MW-6 (p)	2/19/2003	8.52	5.40	---	3.12	ND<500	—	ND<5.0	ND<5.0	ND<5.0	ND<5.0	150		---	---	---	SEQ
MW-6	6/6/2003	8.52	5.54	---	2.98	1100	—	ND<5.0	ND<5.0	ND<5.0	ND<5.0	140		---	---	---	SEQ
MW-6	8/7/2003	8.52	5.94	---	2.58	ND<500	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	160		—	---	---	SEQ
MW-6	11/20/2003	8.52	5 85	---	2.67	95	—	ND<0.50	ND<0.50	ND<0.50	ND<0.50	74		---	---	---	SEQ
MW-6	2/5/2004	8 52	5 86	Sheen	2.66	ND<250	—	ND<2.5	ND<2.5	ND<2.5	ND<2.5	76		---	---	---	SEQ
MW-6	4/28/2004	8.52	5.45		3.07	ND<250	—	ND<2.5	ND<2.5	ND<2.5	ND<2.5	120		---	---	---	SEQ
MW-6	**8/26/2004**	**8.52**	**6.06**	**—**	**2.46**	**ND<250**	**—**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**110**		**—**	**ND**	**—**	**SEQ**

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (a) (Feet)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	DRO/TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
MW-7	10/12/1993	7.61	6.14	—	1.47	ND<50	—	ND<0.5	ND<0.5	ND<0.5	0.7	ND<5.0	(k)	—	—	—	PACE
MW-7	2/15/1994	7.61	5.88	—	1.73	78	—	ND<0.5	ND<0.5	ND<0.5	0.6	ND<5.0	(k)	—	—	4.0	PACE
MW-7	5/11/1994	7.61	5.76	—	1.85	70	—	ND<0.5	ND<0.5	ND<0.5	0.9	11.5	(k)	—	—	9.1	PACE
MW-7	8/1/1994	7.61	5.97	—	1.64	77	—	ND<0.5	ND<0.5	ND<0.5	0.5	182	(k)	—	—	2.5	PACE
MW-7	10/18/1994	7.61	6.24	—	1.37	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	51.7	(k)	—	—	6.3	PACE
MW-7	1/13/1995	7.61	5.39	—	2.22	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<1	—		—	—	8.2	ATI
MW-7	4/13/1995	7.61	5.17	—	2.44	63	—	ND<0.5	ND<0.5	ND<0.5	1.4	—		—	—	8.4	ATI
MW-7	7/11/1995	7.61	5.25	—	2.36	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—		—	—	7.9	ATI
MW-7	11/2/1995	7.61	6.19	—	1.42	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<1.0	55		—	—	8.0	ATI
MW-7	2/5/1996	7.61	5.69	—	1.92	ND<50	—	ND<0.5	ND<1	ND<1	ND<1	40		—	—	1.9	SPL
MW-7	4/24/1996	7.61	5.59	—	2.02	ND<250	—	ND<2.5	ND<5	ND<5	ND<5	53		—	—	8.2	SPL
MW-7	7/15/1996	7.61	6.07	—	1.54	ND<250	—	ND<2.5	ND<5	ND<5	ND<5	ND<50		—	—	7.8	SPL
MW-7	7/30/1996	7.61	6.04	—	1.57	—	—	—	—	—	—	—		—	—	—	—
MW-7	11/4/1996	7.61	7.76	—	-0.15	—	—	—	—	—	—	—		—	—	—	—
MW-7	11/5/1996	7.61	—	—	—	ND<50	—	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		—	—	7.8	SPL
MW-7	5/17/1997	7.61	6.42	—	1.19	—	—	—	—	—	—	—		—	—	—	—
MW-7	8/11/1997	7.61	6.06	—	1.55	—	—	—	—	—	—	—		—	—	—	—
MW-7	11/17/1997	7.61	9.07	—	-1.46	ND<50	—	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		—	—	7.1	SPL
MW-7	1/29/1998	7.61	7.44	—	0.17	—	—	—	—	—	—	—		—	—	—	—
MW-7	6/22/1998	7.61	7.39	—	0.22	—	—	—	—	—	—	—		—	—	—	—
MW-7	12/30/1998	7.61	5.51	—	2.10	—	—	—	—	—	—	—		—	—	—	—
MW-7	3/9/1999	7.61	5.57	—	2.04	—	—	—	—	—	—	—		—	—	—	—
MW-7	6/23/1999	7.61	6.69	—	0.92	—	—	—	—	—	—	—		—	—	—	—
MW-7	9/23/1999	7.61	6.23	—	1.38	—	—	—	—	—	—	—		—	—	—	—
MW-7	12/28/1999	7.61	6.08	—	1.53	—	—	—	—	—	—	—		—	—	—	—
MW-7	3/22/2000	7.61	4.88	—	2.73	—	—	—	—	—	—	—		—	—	—	—
MW-7	5/26/2000	7.61	5.42	—	2.19	—	—	—	—	—	—	—		—	—	—	—
MW-7	9/15/2000	7.61	5.79	—	1.82	—	—	—	—	—	—	—		—	—	—	—
MW-7	12/11/2000	7.61	5.93	—	1.68	—	—	—	—	—	—	—		—	—	—	—
MW-7	3/29/2001	7.61	5.24	—	2.37	600	—	ND<2.5	ND<2.5	ND<2.5	ND<7.5	636		—	—	—	PACE
MW-7	6/27/2001	7.61	5.69	—	1.92	590	—	ND<2.5	ND<2.5	ND<2.5	ND<7.5	739		—	—	—	PACE
MW-7	9/19/2001	7.61	5.89	—	1.72	560	—	ND<5.0	ND<5.0	ND<5.0	ND<15	1190		—	—	—	PACE
MW-7	12/28/2001	7.61	4.53	—	3.08	910	—	22.7	ND<2.5	ND<2.5	ND<5.0	856		—	—	—	PACE
MW-7	3/12/2002	7.61	4.71	—	2.90	620	—	ND<2.5	ND<2.5	ND<2.5	ND<5.0	675		—	—	—	PACE
MW-7	6/13/2002*	7.61	5.21	—	2.40	860	—	ND<2.5	ND<2.5	ND<2.5	ND<5.0	1470		—	—	—	PACE
MW-7	9/6/2002	7.61	5.77	—	1.84	350	—	ND<2.5	ND<2.5	ND<2.5	ND<2.5	690		—	—	—	SEQ
MW-7 (o)	12/13/2002	7.61	5.65	—	1.96	1300	—	ND<10	ND<10	ND<10	ND<10	1800		—	—	—	SEQ
MW-7 (p)	2/19/2003	7.61	5.07	—	2.54	1700	—	ND<10	ND<10	ND<10	ND<10	1600		—	—	—	SEQ
MW-7	6/6/2003	7.61	5.27	—	2.34	1000	—	ND<5.0	ND<5.0	ND<5.0	ND<5.0	510		—	—	—	SEQ
MW-7	8/7/2003	7.61	5.52	—	2.09	510	—	ND<5.0	ND<5.0	ND<5.0	ND<5.0	520		—	—	—	SEQ
MW-7	11/20/2003	7.61	5.79	—	1.82	330	—	ND<2.5	ND<2.5	ND<2.5	ND<2.5	270		—	—	—	SEQ
MW-7	2/5/2004	7.61	5.48	—	2.13	470	(s) —	ND<2.5	ND<2.5	ND<2.5	ND<2.5	270		—	—	—	SEQ
MW-7	4/28/2004	7.61	5.20	—	2.41	ND<250	—	ND<2.5	ND<2.5	ND<2.5	ND<2.5	71		—	—	—	SEQ
MW-7	**8/26/2004**	**7.61**	**5.65**	**—**	**1.96**	**450**	**—**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**2.8**	**150**		**—**	**ND**	**—**	**SEQ**

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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet) (a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	GRO/TPH-G (b) (ug/L)	DRO/TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
MW-8	10/12/1993	8.60	5.86	---	2.74	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11 1 (k)	---	---	---	PACE
MW-8	2/15/1994	8.60	5.50	---	3 10	380	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 (k)	---	---	3.3	PACE
MW-8	5/11/1994	8.60	5.09	---	3.51	330	---	ND<0.5	1.2	ND<0.5	1.9	ND<5.0 (k)	---	---	8.5	PACE
MW-8	8/1/1994	8.60	5.20	---	3.40	260	---	ND<0.5	1.2	2.9	5.8	ND<5.0 (k)	---	---	2.3	PACE
MW-8	10/18/1994	8.60	5.70	---	2.90	82	---	ND<0 5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 (k)	---	---	6.4	PACE
MW-8	1/13/1995	8.60	4.96	---	3.64	ND<50	---	ND<0.5	ND<0 5	ND<0.5	ND<1	---	---	---	6.9	ATI
MW-8	4/13/1995	8.60	5 40	---	3.20	270	---	ND<0.5	ND<0.5	ND<0.5	4.4	---	---	---	8.4	ATI
MW-8	7/11/1995	8.60	6.01	---	2.59	320	---	ND<0.50	ND<0.50	ND<0.50	3.5	---	---	---	8.0	ATI
MW-8	11/2/1995	8.60	6.81	---	1.79	100	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	8.7	ATI
MW-8	2/5/1996	8.60	6.12	---	2.48	ND<50	---	ND<5	ND<10	ND<10	ND<10	ND<100	---	---	1.5	SPL
MW-8	4/24/1996	8.60	6.23	---	2.37	ND<50	---	ND<5	ND<10	ND<10	ND<10	ND<100	---	---	8.7	SPL
MW-8	7/15/1996	8.60	6.70	---	1.90	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	ND<50	---	---	8.4	SPL
MW-8	7/30/1996	8.60	6.64	---	1.96	---	---	---	---	---	---	---	---	---	---	---
MW-8	11/4/1996	8.60	8.36	---	0.24	---	---	---	---	---	---	---	---	---	---	---
MW-8	11/5/1996	8.60	---	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	7.2	SPL
MW-8	5/17/1997	8.60	7.03	---	1.57	---	---	---	---	---	---	---	---	---	---	---
MW-8	8/11/1997	8.60	6.05	---	2.55	---	---	---	---	---	---	---	---	---	---	---
MW-8	11/17/1997	8.60	9.14	---	-0.54	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	7.7	SPL
MW-8	1/29/1998	8.60	7.90	---	0.70	---	---	---	---	---	---	---	---	---	---	---
MW-8	6/22/1998	8.60	7.72	---	0.88	---	---	---	---	---	---	---	---	---	---	---
MW-8 (h)	12/30/1998	8.60	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8 (h)	3/9/1999	8.60	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	6/23/1999	8.60	4.70	---	3.90	---	---	---	---	---	---	---	---	---	---	---
MW-8	9/23/1999	8.60	4.22	---	4.38	---	---	---	---	---	---	---	---	---	---	---
MW-8	12/28/1999	8.60	4.12	---	4.48	---	---	---	---	---	---	---	---	---	---	---
MW-8	3/22/2000	8.60	4.71	---	3.89	---	---	---	---	---	---	---	---	---	---	---
MW-8	5/26/2000	8.60	4.98	---	3.62	---	---	---	---	---	---	---	---	---	---	---
MW-8	9/15/2000	8.60	4.62	---	3.98	---	---	---	---	---	---	---	---	---	---	---
MW-8	12/11/2000	8.60	4.77	---	3.83	---	---	---	---	---	---	---	---	---	---	---
MW-8 (h)	3/29/2001	8.60	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	6/27/2001	8.60	5.11	---	3 49	570	---	ND<2.5	ND<2.5	2.58	ND<7.5	3.43	---	---	---	PACE
MW-8	9/19/2001	8.60	5.00	---	3.60	ND<500	---	ND<5.0	ND<5.0	ND<5.0	ND<15	ND<5.0	---	---	---	PACE
MW-8	12/28/2001	8.60	4.15	---	4.45	440	---	ND<0 5	ND<0 5	0.975	ND<1.0	6.27	---	---	---	PACE
MW-8	3/12/2002	8.60	4.35	---	4.25	330	---	ND<2 5	ND<2.5	ND<2 5	ND<5.0	8.69	---	---	---	PACE
MW-8	6/13/2002*	8.60	5.09	---	3.51	ND<500	---	ND<5.0	ND<5.0	ND<5.0	ND<10	16.4	---	---	---	PACE
MW-8	9/6/2002	8.60	5.18	---	3.42	98	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	76	---	---	---	SEQ
MW-8 (o)	12/13/2002	8.60	4.84	---	3.76	120	---	ND<0.5	ND<0.5	0.94	0.52	140	---	---	---	SEQ
MW-8 (p)	2/19/2003	8.60	4.45	---	4.15	ND<2500	---	ND<25	ND<25	ND<25	ND<25	800	---	---	---	SEQ
MW-8	6/6/2003	8.60	5.00	---	3.60	ND<50000	---	ND<500	ND<500	ND<500	ND<500	17000	---	---	---	SEQ
MW-8	8/7/2003	8.60	4.84	---	3.76	ND<2500	---	ND<25	ND<25	ND<25	ND<25	2400	---	---	---	SEQ
MW-8	11/20/2003	8 60	4.48	---	4.12	ND<2500	---	ND<25	ND<25	ND<25	ND<25	1400	---	---	---	SEQ
MW-8	2/5/2004	8.60	4.62	---	3.98	3200 (s)	---	ND<25	ND<25	ND<25	ND<25	1600	---	---	---	SEQ
MW-8	4/15/2004	8.60	4.66	---	3 94	730	---	ND<2.5	ND<2.5	ND<2.5	ND<2.5	170	---	---	---	SEQ
MW-8	**8/26/2004**	**8.60**	**4.73**	**---**	**3.87**	**ND<2500**	**---**	**ND<25**	**ND<25**	**ND<25**	**ND<25**	**170**	**---**	**ND**	**---**	**SEQ**

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet) (a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet) (b)	GRO/TPH-G (ug/L)	DRO/TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
MW-9	10/12/1993	8.08	5.66	0.08	2.48	---	---	---	---	---	---	---	---	---	---	---
MW-9	2/15/1994	8.08	5.32	0.05	2.80	---	---	---	---	---	---	---	---	---	---	---
MW-9	5/11/1994	8.08	5.57	---	2.51	---	---	---	---	---	---	---	---	---	---	---
MW-9	8/1/1994	8.08	6.25	---	1.83	---	---	---	---	---	---	---	---	---	---	---
MW-9	10/18/1994	8.08	5.59	0.13	2.59	---	---	---	---	---	---	---	---	---	---	---
MW-9	1/13/1995	8.08	4.42	0.14	3.77	---	---	---	---	---	---	---	---	---	---	---
MW-9	4/13/1995	8.08	4.06	0.11	4.10	---	---	---	---	---	---	---	---	---	---	---
MW-9	7/11/1995	8.08	4.21	0.08	3.93	---	---	---	---	---	---	---	---	---	---	---
MW-9	11/2/1995	8.08	5.22	0.05	2.90	---	---	---	---	---	---	---	---	---	---	---
MW-9	2/5/1996	8.08	4.76	0.01	3.33	---	---	---	---	---	---	---	---	---	---	---
MW-9	4/24/1996	8.08	4.62	0.09	3.53	---	---	---	---	---	---	---	---	---	---	---
MW-9	7/15/1996	8.08	5.11	0.04	3.00	---	---	---	---	---	---	---	---	---	---	---
MW-9	7/30/1996	8.08	5.15	---	2.93	---	---	---	---	---	---	---	---	---	---	---
MW-9	11/4/1996	8.08	6.75	0.01	1.34	---	---	---	---	---	---	---	---	---	---	---
MW-9	5/17/1997	8.08	5.42	---	2.66	97000	---	16000	7700	2300	18400	40000	---	---	7.0	SPL
QC-1 (e)	5/17/1997	---	---	---	---	97000	---	16000	8200	2300	17300	39000	---	---	---	SPL
MW-9	8/11/1997	8.08	5.37	---	2.71	71000	---	12000	340	2100	4300	26000	---	---	9.1	SPL
QC-1 (e)	8/11/1997	---	---	---	---	100000	---	14000	360	3200	5790	27000	---	---	---	SPL
MW-9	11/17/1997	8.08	5.62	Sheen	2.46	100000	---	22000	4800	3100	17900	32000	---	---	8.3	SPL
QC-1 (e)	11/17/1997	---	---	---	---	100000	---	24000	5300	3500	19300	35000	---	---	---	SPL
MW-9	1/29/1998	8.08	4.07	Sheen	4.01	250000	---	20000	21000	3100	18500	110000	---	---	6.6	SPL
QC-1 (e)	1/29/1998	---	---	---	---	250000	---	20000	20000	3100	18400	110000	---	---	---	SPL
MW-9	6/22/1998	8.08	4.28	---	3.80	280000	---	21000	18000	3800	21200	110000	---	---	5.8	SPL
QC-1 (e)	6/22/1998	---	---	---	---	290000	---	20000	17000	3800	21200	110000	---	---	---	SPL
MW-9	12/30/1998	8.08	4.95	---	3.13	150000	---	10000	3800	2000	9600	86000/89000 (f)	---	---	---	SPL
MW-9	3/9/1999	8.08	3.95	---	4.13	82000	---	6800	570	1400	4700	100000	---	---	---	SPL
MW-9	6/23/1999	8.08	5.12	---	2.96	41000	---	11000	820	2300	5200	92000	---	---	---	SPL
MW-9	9/23/1999	8.08	4.74	---	3.34	57000	---	12000	5400	1900	9500	89000	---	---	---	SPL
MW-9	12/28/1999	8.08	4.58	---	3.50	46000	---	15000	490	2500	3500	100000	---	---	---	PACE
MW-9	3/22/2000	8.08	3.90	---	4.18	86000	---	18000	1800	2300	6800	120000	---	---	---	PACE
MW-9	5/26/2000	8.08	4.15	---	3.93	82000	---	17000	680	1800	3800	100000	---	---	---	PACE
MW-9	9/6/2000	8.08	4.47	---	3.61	100000	---	19000	280	2400	6400	84000	---	---	---	PACE
MW-9	9/15/2000	8.08	4.34	---	3.74	---	---	---	---	---	---	---	---	---	---	---
MW-9	12/11/2000	8.08	4.41	---	3.67	110000	---	14400	768	2610	6670	123000	---	---	---	PACE
MW-9 (h)	3/29/2001	8.08	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (m)	6/26/2001	8.08	5.03	0.13	3.15 (l)	---	---	---	---	---	---	---	---	---	---	---
MW-9 (m)	9/19/2001	8.08	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	12/28/2001	8.08	3.73	---	4.35	110000	---	15000	1500	2280	5530	60900	---	---	---	PACE
MW-9	3/12/2002	8.08	4.93	---	3.15	88000	---	12500	2600	2800	8950	44000	---	---	---	PACE
MW-9	6/13/2002*	8.08	4.13	---	3.95	59000	---	9870	161	2560	5560	35600	---	---	---	PACE
MW-9	9/6/2002	8.08	4.39	---	3.69	47000	---	10000	ND<100	2100	4600	31000	---	---	---	SEQ
MW-9 (o)	12/13/2002	8.08	3.97	---	4.11	57000	---	11000	1000	2300	5800	28000	---	---	---	SEQ
MW-9 (p)	2/19/2003	8.08	3.25	---	4.83	76000	---	10000	2100	3000	8900	11000	---	---	---	SEQ
MW-9	6/6/2003	8.08	3.94	---	4.14	66000	---	9000	ND<500	2500	4400	17000	---	---	---	SEQ
MW-9	8/7/2003	8.08	3.92	Sheen	4.16	53000	---	7600	ND<250	2600	4700	17000	---	---	---	SEQ
MW-9	11/20/2003	8.08	4.89	---	3.19	40000	---	6800	ND<250	860	1100	16000	---	---	---	SEQ
MW-9	2/5/2004	8.08	3.70	Sheen	4.38	50000 (s)	---	7000	ND<250	1900	3800	12000	---	---	---	SEQ
MW-9	4/29/2004	8.08	3.19	Sheen	4.89	47000	---	5600	690	2300	6800	8500	---	---	---	SEQ
MW-9	**8/26/2004**	**8.08**	**3.61**	**---**	**4.47**	**35000**	**---**	**3700**	**500**	**1300**	**5300**	**6500**	**---**	**ND**	**---**	**SEQ**

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet) (a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet) (b)	GRO/TPH-G (ug/L)	DRO/TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
QC-2 (g)	11/5/1992	—	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	—	PACE
QC-2 (g)	10/12/1993	—	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	—	PACE
QC-2 (g)	2/15/1994	—	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	—	PACE
QC-2 (g)	5/11/1994	—	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	—	PACE
QC-2 (g)	8/1/1994	—	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0 5	—	—	—	—	PACE
QC-2 (g)	10/18/1994	—	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	—	PACE
QC-2 (g)	1/13/1995	—	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<1	—	—	—	—	ATI
QC-2 (g)	4/13/1995	—	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<1	—	—	—	—	ATI
QC-2 (g)	7/11/1995	—	—	—	—	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	—	—	—	ATI
QC-2 (g)	11/2/1995	—	—	—	—	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	—	—	—	ATI
QC-2 (g)	2/5/1996	—	—	—	—	ND<50	—	ND<0.5	ND<1	ND<1	ND<1	ND<10	—	—	—	SPL
QC-2 (g)	4/24/1996	—	—	—	—	ND<50	—	ND<0.5	ND<1	ND<1	ND<1	ND<10	—	—	—	SPL
QC-2 (g)	7/16/1996	—	—	—	—	ND<50	—	ND<0.5	ND<1	ND<1	ND<1	ND<10	—	—	—	SPL

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

ABBREVIATIONS:

GRO	Gasoline Range Organics, C6-C10 range
TPH-G	Total petroleum hydrocarbons as gasoline
DRO	Diesel Range Organics, C10-C28 range
TPH-D	Total petroleum hydrocarbons as diesel
T	Toluene
E	Ethylbenzene
X	Total xylenes
MTBE	Methyl tert butyl ether
TOG	Total oil and grease
HVOC	Halogenated volatile organic compounds
DO	Dissolved oxygen
ug/L	Micrograms per liter
ppm	Parts per million
ND<	Not detected at or above reported detection limit
---	Not analyzed/applicable/measurable
PACE	Pace, Inc.
ATI	Analytical Technologies, Inc.
SPL	Southern Petroleum Laboratories
SEQ	Sequoia Analytical
TOC	Top of Casing
DTW	Depth to Water
GWE	Groundwater Elevation

NOTES:

(a) Top of casing elevations surveyed relative to an established benchmark with an elevation of 8.11 feet above mean sea level.

(b) Groundwater elevations adjusted assuming a specific gravity of 0.75 for free product.

(d) A copy of the documentation for this data is included in Appendix C of Alisto report 10-061-07-004.

(e) Blind duplicate.

(f) EPA Methods 8020/8260 used.

(g) Travel blank.

(h) Inaccessible.

(i) Depth to water anomalous; groundwater elevation not used in contouring.

(j) Well paved over.

(k) A copy of the documentation for this data can be found in Blaine Tech Services report 010627-Z-1.
MTBE data for the November 4, 1992 sampling event has been destroyed.
No chromatograms could be located for MTBE data from well MW-5, sampled on October 12, 1993.

(l) Groundwater elevation is an estimate.

(m) Not sampled due to nature of SPH.

(n) Unable to sample.

(o) EPA Methods 8015B / 8021B used.

(p) Beginning in the first quarter 2003, TPHg and VOCs analyzed by EPA Method 8260B.

(q) Hydrocarbon pattern is present in the requested fuel quntitation range but does not resemble the pattern of the requested fuel.

(r) Please note that beginning in the Fourth Quarter 2003, 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.

(s) Discrete peak @ C5.

(t) HVOC detected was Methylene chloride

* During the second quarter of 2002, URS Corporation assumed groundwater monitoring activities for BP.

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 the accuracy of this information.

Table 2
Fuel Additive Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, 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)	Ethanol (e) (µg/L)
MW-1	06/06/03	ND<5,000	ND<1,000	1,400	ND<25	ND<25	ND<25	NA	NA	NA
	08/07/03	ND<1,000	560	920	ND<5.0	ND<5.0	12	ND<5.0	ND<5.0	NA
	11/20/03	1800 (a)	ND<200	250	ND<5.0	ND<5.0	ND<5.0	NA	NA	NA
	02/05/04	ND<5,000	18,000	460	ND<25	ND<25	ND<25	ND<25	ND<25	NA
	04/28/04	ND<1,000	950	200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA
	08/26/04	**ND<500 (b)**	**320**	**180**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<5.0**
MW-2	06/06/03	ND<200,000	ND<40,000	72,000	ND<1,000	ND<1,000	1,300	NA	NA	NA
	08/07/03	ND<100,000	45,000	83,000	ND<500	ND<500	1,300	ND<500	ND<500	NA
	11/20/03	ND<20,000	48,000	18,000	ND<100	ND<100	200	NA	NA	NA
	02/05/04	ND<50,000	54,000	22,000	ND<250	ND<250	ND<250	ND<250	ND<250	NA
	04/28/04	ND<50,000	59,000	31,000	ND<250	ND<250	ND<250	ND<250	ND<250	NA
	08/26/04	**ND<50,000 (b)**	**ND<10,000**	**11,000**	**ND<250**	**ND<250**	**320**	**ND<250**	**ND<250**	**23**
MW-3	06/06/03	ND<1,000	ND<200	180	ND<5.0	ND<5.0	16	NA	NA	NA
	08/07/03	ND<1,000	ND<200	290	ND<5.0	ND<5.0	20	ND<5.0	ND<5.0	NA
	11/20/03	ND<100	ND<20	17	ND<0.50	ND<0.50	1.4	NA	NA	NA
	02/05/04	ND<100	32	12	ND<0.50	ND<0.50	0.90	ND<0.50	ND<0.50	NA
	04/28/04	ND<200	ND<40	87	ND<1.0	ND<1.0	3.9	ND<1.0	ND<1.0	NA
	08/26/04	**ND<100 (b)**	**260**	**34**	**ND<0.50**	**ND<0.50**	**2.0**	**ND<0.50**	**ND<0.50**	**ND<5.0**
MW-4	06/06/03	ND<10,000	2,500	6,800	ND<50	ND<50	190	NA	NA	NA
	08/07/03	ND<10,000	2,400	6,600	ND<50	ND<50	160	ND<50	ND<50	NA
	11/20/03	ND<20,000	ND<4,000	11,000	ND<100	ND<100	310	NA	NA	NA
	02/05/04	ND<5,000	10,000	4,700	ND<25	ND<25	110	ND<25	ND<25	NA
	04/28/04	ND<50,000	15,000	3,600	ND<250	ND<250	ND<250	ND<250	ND<250	NA
	08/26/04	**NA**	**16,000**	**1,800**	**ND<25**	**ND<25**	**60**	**ND<25**	**ND<25**	**ND<5.0**
MW-5	06/06/03	ND<1,000	ND<200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	NA	NA
	08/07/03	ND<1,000	ND<200	18	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA
	11/20/03	ND<500	ND<100	12	ND<2.5	ND<2.5	ND<2.5	NA	NA	NA
	02/05/04	ND<500	ND<100	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	NA
	04/28/04	ND<500	ND<100	11	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	NA
	08/26/04	**NA**	**ND<100**	**74**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**8.3**
MW-6	06/06/03	ND<1,000	ND<200	140	ND<5.0	ND<5.0	21	NA	NA	NA
	08/07/03	ND<1,000	ND<200	160	ND<5.0	ND<5.0	20	ND<5.0	ND<5.0	NA
	11/20/03	ND<100	ND<20	74	ND<0.50	ND<0.50	12	NA	NA	NA
	02/05/04	ND<500	ND<100	76	ND<2.5	ND<2.5	10	ND<2.5	ND<2.5	NA
	04/28/04	ND<500	ND<100	120	ND<2.5	ND<2.5	12	ND<2.5	ND<2.5	NA
	08/26/04	**ND<500 (b)**	**ND<100**	**110**	**ND<2.5**	**ND<2.5**	**12**	**ND<2.5**	**ND<2.5**	**11**
MW-7	06/06/03	ND<1,000	ND<200	510	ND<5.0	ND<5.0	41	NA	NA	NA
	08/07/03	ND<1,000	ND<200	520	ND<5.0	ND<5.0	43	ND<5.0	ND<5.0	NA
	11/20/03	ND<500 (b)	1,300	270	ND<2.5	ND<2.5	8.9	NA	NA	NA
	02/05/04	ND<500	740	270	ND<2.5	ND<2.5	7.7	ND<2.5	ND<2.5	NA
	04/28/04	ND<500	880	71	ND<2.5	ND<2.5	3.5	ND<2.5	ND<2.5	NA
	08/26/04	**ND<500**	**4,800**	**150**	**ND<2.5**	**ND<2.5**	**7.8**	**ND<0.50**	**ND<0.50**	**6.0**
MW-8	06/06/03	ND<100,000	ND<20,000	17,000	ND<500	ND<500	ND<500	NA	NA	NA
	08/07/03	ND<5,000	ND<1,000	2,400	ND<25	ND<25	44	ND<25	ND<25	NA
	11/20/03	ND<5,000 (b)	4,100	1,400	ND<25	ND<25	ND<25	NA	NA	NA
	02/05/04	ND<5,000	24,000	1,600	ND<25	ND<25	ND<25	ND<25	ND<25	NA
	04/28/04	ND<500	42000 (c)	170	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	NA
	08/26/04	**NA**	**47,000**	**170**	**ND<25**	**ND<25**	**ND<25**	**ND<25**	**ND<25**	**ND<5.0**

Table 2
Fuel Additive Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, 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)	Ethanol (e) (µg/L)
MW-9	06/06/03	ND<100,000	ND<20,000	17,000	ND<500	ND<500	ND<500	NA	NA	NA
	08/07/03	ND<50,000	ND<10,000	17,000	ND<250	ND<250	350	ND<250	ND<250	NA
	11/20/03	ND<50,000	12,000	16,000	ND<250	ND<250	ND<250	NA	NA	NA
	02/05/04	ND<50,000	ND<10,000	12,000	ND<250	ND<250	280	ND<250	ND<250	NA
	04/28/04	ND<25,000	ND<5,000	8,500	ND<120	ND<120	170	ND<120	ND<120	NA
	08/26/04	**NA**	**2,600 (d)**	**6,500**	**ND<50**	**ND<50**	**140**	**ND<50**	**ND<50**	**13**

Note: All fuel oxygenate compounds analyzed using EPA Method 8260B
1,2-DCA = 1,2-Dibromoethane
DIPE = Di-isopropyl ether
EDB = 1,2-Dichloroethane
ETBE = Ethyl tert butyl ether
µg/L = micrograms per liter
MTBE = Methyl tert-butyl ether
NA = Data not analyzed.
ND< = Not detected at or above the laboratory reporting limit.
TAME = tert-Amyl methyl ether
TBA = tert-Butyl alcohol
(a) = Confirmatory analysis was past holding time
(b) = The continuing calibration verification was outide of client contractual acceptance limits. However, it was within method acceptance limits. The data should still be useful for its intended purpose.
(c) = The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
(d) = Initial analysis within holding time but required dilution.
(e) = Split samples analyzed by EPA Method 8260B SIM.

Table 3
Groundwater Extraction Volumes and Depth To Water Measurements
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

Well Number	Date	Pre-extraction Depth To Water (ft)	Intermediate [1] Depth To Water (ft)	Final [2] Depth To Water (ft)	Volume Extracted (gal) [3]	Cumulative Volume Extracted (gal)	Comments
MW-1	6/8/2004	3.54	3.29	3.20	1.87	1.87	
	6/25/2004	3.24	3.24	6.29	1.92	3.79	
	7/8/2004	4.22	3.55	6.35	1.76	5.55	
	7/20/2004	3.18	3.25	6.19	1.93	7.48	
	8/3/2004	5.89	3.79	7.43	1.49	8.96	
	8/17/2004	3.55	3.47	7.44	1.87	10.83	
	8/31/2004	3.49	3.33	5.30	1.88	12.71	
	9/14/2004	3.89	3.40	4.03	1.81	14.52	Well lock broken
	9/28/2004					14.52	
Reporting Period					**Period Volume Extracted, gal**		
7/04 - 9/04 (Third Quarter 2004)					**10.73**		
MW-2	6/8/2004	4.78	4.57	8.54	1.67	1.67	
	6/25/2004	4.62	4.61	7.19	1.69	3.36	
	7/8/2004	4.70	4.69	7.75	1.68	5.04	
	7/20/2004	4.77	4.77	8.26	1.67	6.71	
	8/3/2004	4.80	4.79	5.72	1.66	8.38	
	8/17/2004	4.80	4.80	5.70	1.66	10.04	
	8/31/2004	4.67	4.46	5.15	1.69	11.73	
	9/14/2004	4.63	4.64	5.38	1.69	13.42	
	9/28/2004					13.42	
Reporting Period					**Period Volume Extracted, gal**		
7/04 - 9/04 (Third Quarter 2004)					**10.06**		
MW-4	6/8/2004	8.05	5.56	7.65	1.13	1.13	
	6/25/2004	7.92	6.42	8.83	1.16	2.29	
	7/8/2004	6.15	5.32	8.88	1.44	3.73	
	7/20/2004	6.83	5.70	9.57	1.33	5.07	
	8/3/2004	6.93	5.70	10.12	1.32	6.38	
	8/17/2004	5.45	5.20	10.14	1.56	7.94	
	8/31/2004	6.50	5.60	9.35	1.39	9.33	
	9/14/2004	5.79	5.66	10.25	1.50	10.83	
	9/28/2004					10.83	
Reporting Period					**Period Volume Extracted, gal**		
7/04 - 9/04 (Third Quarter 2004)					**8.54**		
MW-8	6/8/2004	4.87	4.66	8.66	1.65	1.65	
	6/25/2004	4.63	4.63	9.23	1.69	3.35	
	7/8/2004	4.59	4.60	11.58	1.70	5.04	
	7/20/2004	4.71	4.71	10.00	1.68	6.72	
	8/3/2004	4.66	4.67	10.40	1.69	8.41	
	8/17/2004	4.75	4.75	10.39	1.67	10.08	
	8/31/2004	4.75	4.74	11.55	1.67	11.76	
	9/14/2004	4.71	4.75	8.96	1.68	13.44	Well cap broken
	9/28/2004					13.44	
Reporting Period					**Period Volume Extracted, gal**		
7/04 - 9/04 (Third Quarter 2004)					**10.09**		

Table 3
Groundwater Extraction Volumes and Depth To Water Measurements
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

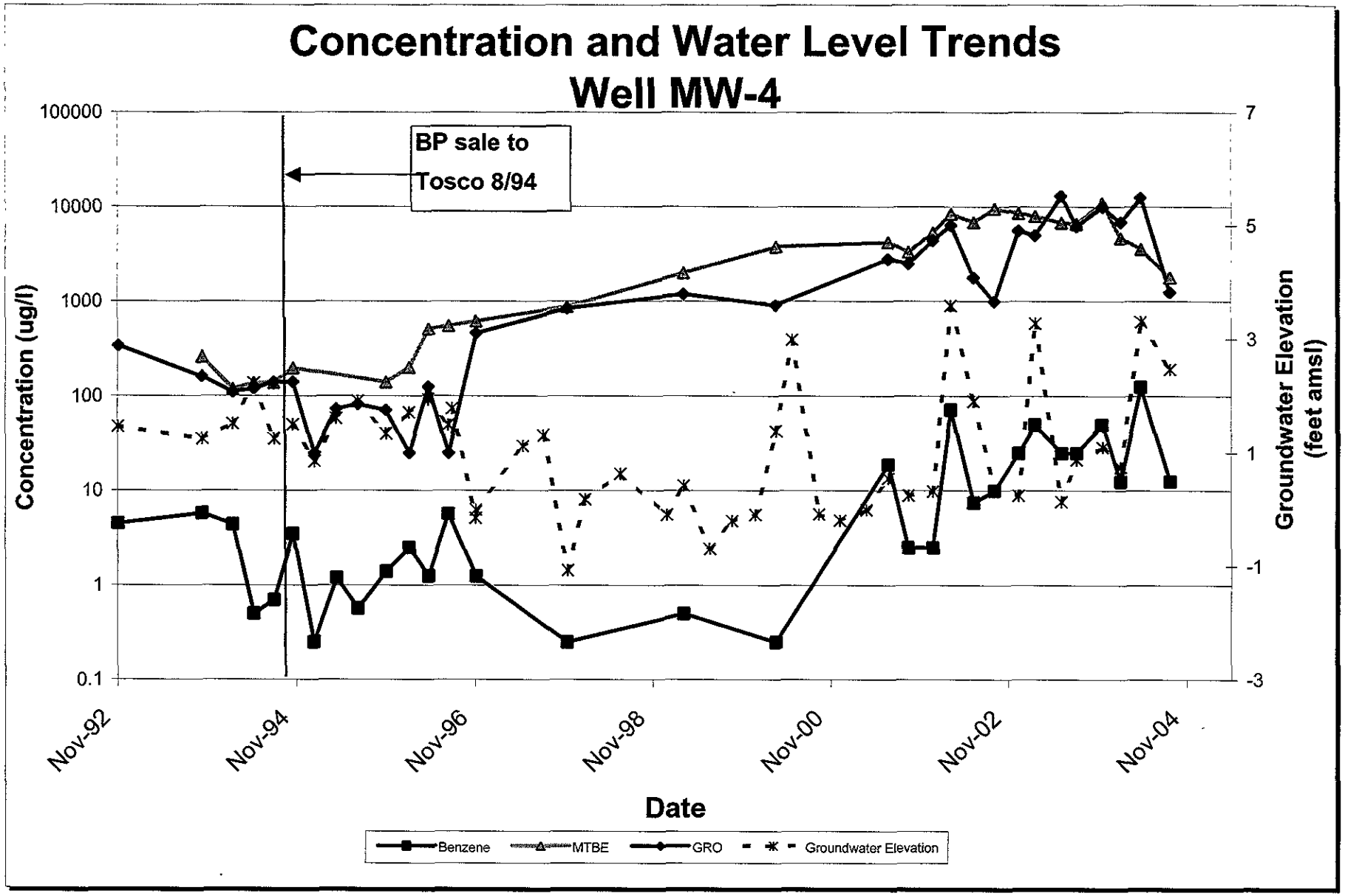
Well Number	Date	Pre-extraction Depth To Water (ft)	Intermediate [1] Depth To Water (ft)	Final [2] Depth To Water (ft)	Volume Extracted (gal) [3]	Cumulative Volume Extracted (gal)	Comments
MW-9	6/8/2004	3.55	NM	13.10	7.47	7.47	Sheen observed
	6/25/2004	3.63	NM	11.37	7.42	14.90	
	7/8/2004	3.76	DRY	13.10	7.34	22.23	Sheen observed
	7/20/2004	3.80	NM	9.27	7.31	29.54	Sheen observed
	8/3/2004	3.87	13.26	10.52	7.27	36.81	
	8/17/2004	3.73	NM	8.53	7.36	44.17	Sheen observed
	8/31/2004	3.84	NM	10.07	7.28	51.45	Sheen observed
	9/14/2004	3.76	NM	7.78	7.34	58.79	Sheen observed
	9/28/2004					58.79	
Reporting Period					**Period Volume Extracted, gal**		
7/04 - 9/04 (Third Quarter 2004)					**43.89**		
Total Volume Extracted This Period, gal			**83.32**				
Total Cumulative Volume Extracted, gal			**111.00**				

Notes:
1 = Depth to water measurement taken after extraction from well MW-9, but before extraction from wells MW-1, MW-2, MW-4 and MW-8.
2 = Depth to water measurement taken after extraction from all extraction wells (MW-9, MW-1, MW-2, MW-4 and MW-8).
3 = Volume extracted estimated based calculated well volume and number of times dewatered (typically 1 to 2 per event).

ft = feet
gal = gallons
NM = not measured

ATTACHMENT A

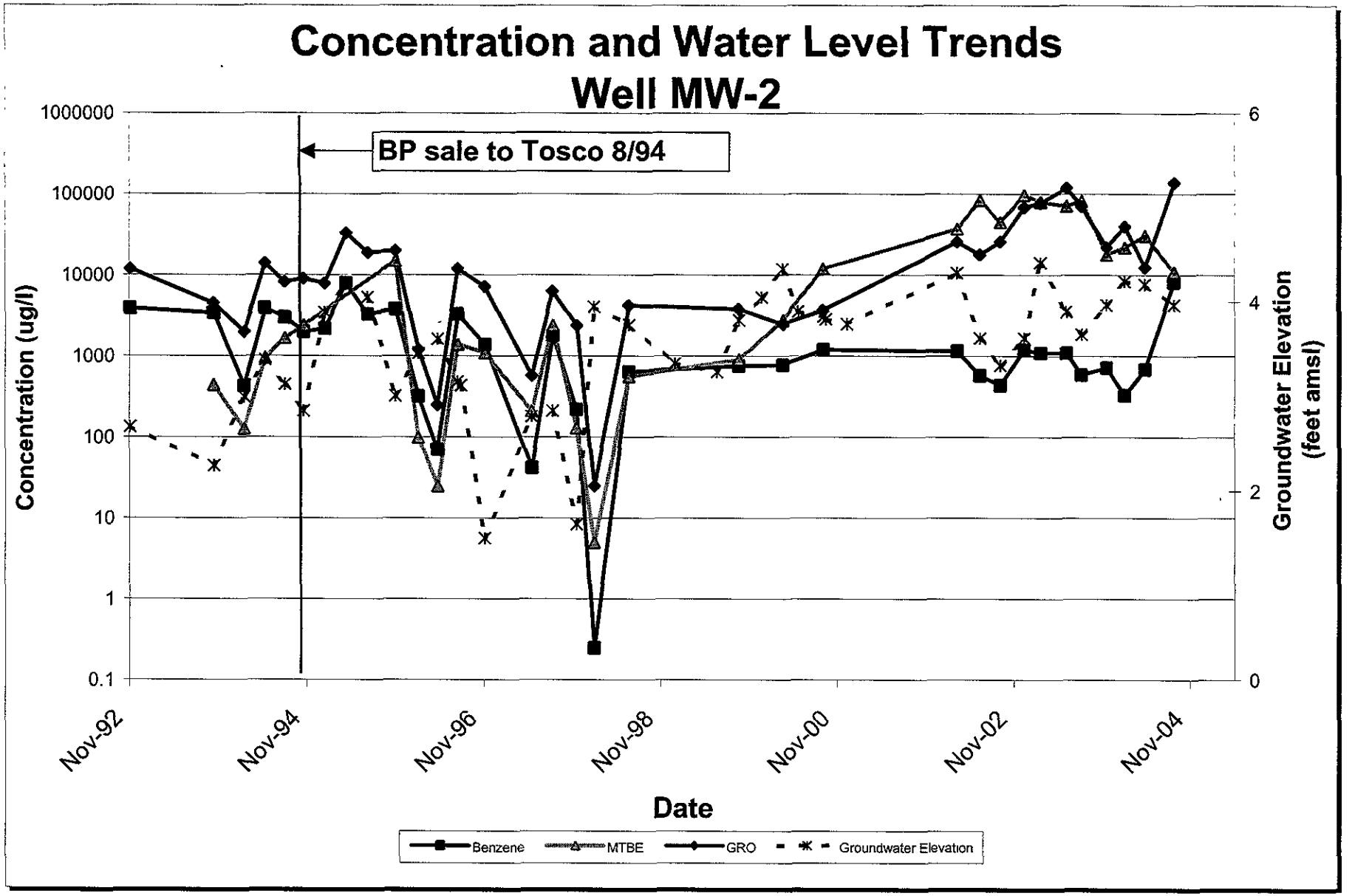
CONCENTRATION AND WATER LEVEL TRENDS (MW-4, MW-2, AND MW-9)

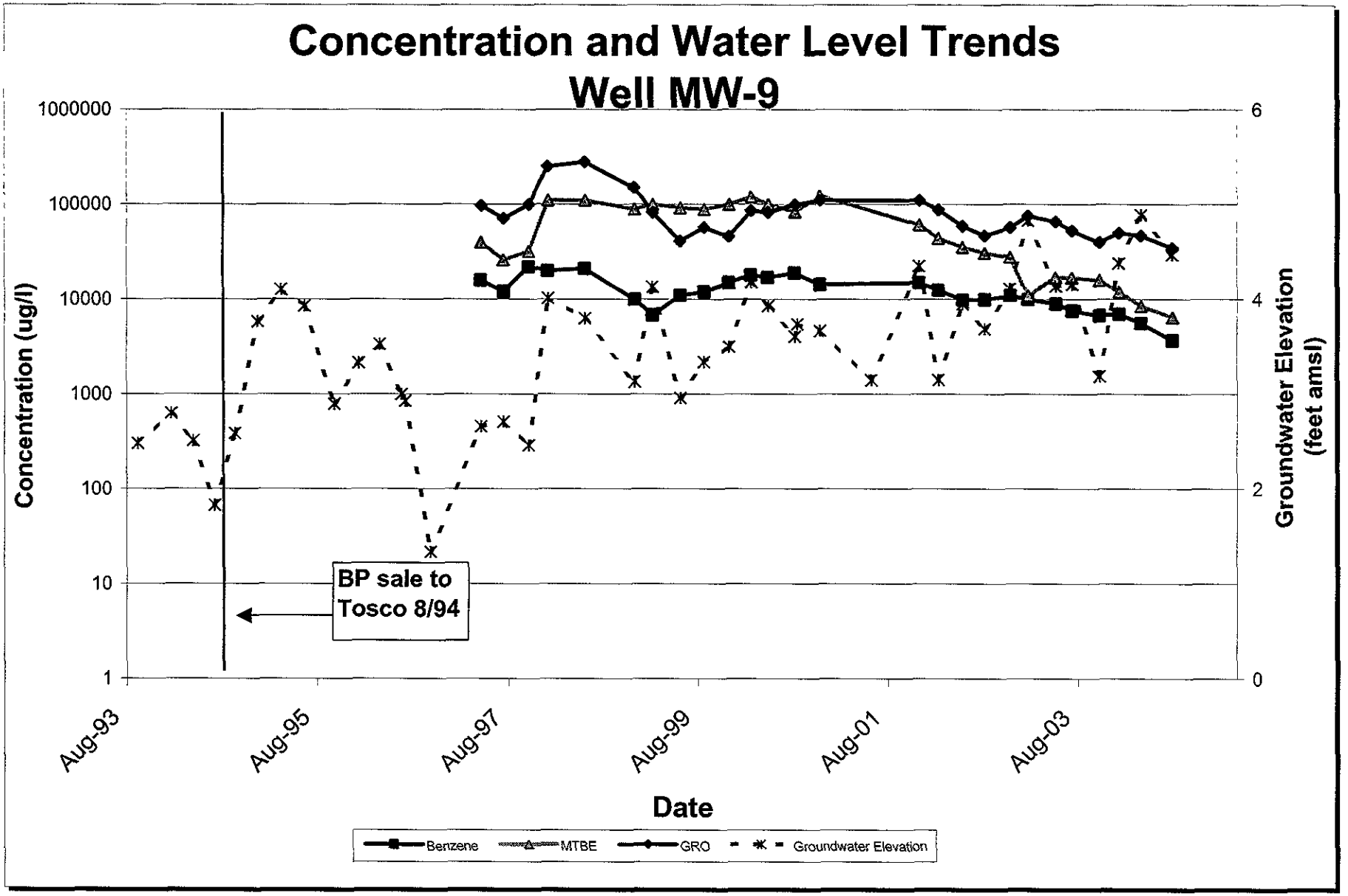


URS Corporation

Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

Graph 1


Concentration and Water Level Trends
Well MW-2
BP sale to Tosco 8/94
Concentration (ug/l)
1000000
100000
10000
1000
100
10
1
0.1
Groundwater Elevation (feet amsl)
6
4
2
0
Nov-92
Nov-94
Nov-96
Nov-98
Nov-00
Nov-02
Nov-04
Date
Benzene
MTBE
GRO
Groundwater Elevation


Concentration and Water Level Trends
Well MW-9
Concentration (ug/l)
1000000
100000
10000
1000
100
10
1
Groundwater Elevation (feet amsl)
6
4
2
0
BP sale to Tosco 8/94
Aug-93
Aug-95
Aug-97
Aug-99
Aug-01
Aug-03
Date
Benzene
MTBE
GRO
Groundwater Elevation

ATTACHMENT B

FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

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 # 040826-BA2 Date 8/26/04 Client BP 11126

Site 1710 Powell, Emeryville

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 or TOC		DO / pH
MW-1	2					4.03	11.47	TOC	P	6.7
MW-2	2					4.59	12.03		P	6.7
MW-3	2					5.42	11.66		P	7.2
MW-4	2	pressure				5.65	10.92		P	7.2
MW-5	2					5.42	12.34		P	6.8
MW-6	2					6.06	12.44		P	7.1
MW-7	2					5.65	13.70		P	7.0
MW-8	2					4.73	13.80		P	6.8
MW-9	4					3.61	13.94*	→	P	
*Historical										

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040826-BA2	Station # 1126
Sampler: Brian Alcom	Date: 8/26/04
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 11.47	Depth to Water: 4.03
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) 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	radius² * 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.

1.25 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 3.75 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1445	78.8	6.7	1,828	1.25	clear, odor
1447	76.0	6.6	1,870	2.5	" "
1449	75.4	6.7	1,877	3.75	" "

Did well dewater? Yes (No) Gallons actually evacuated: 3.75

Sampling Time: 1455 / 1455 Sampling Date: 8/26/04

Sample I.D.: MW-1A / MW-1B Laboratory: Pace (Sequoia) Other____

Analyzed for: GRO BTEX MTBE DRO Other:

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 #: 040826-BA2	Station # 1126
Sampler: Brian Akom	Date: 8/26/04
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 12.03	Depth to Water: 4.59
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) 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^2 * 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.

1.25 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 3.75 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
1530	76.1	6.7	1,098	1.25	cloudy gray, strong odor, moderate sheen
1532	75.1	6.7	1,093	2.5	" " "
1534	74.7	6.7	1,111	3.75	" " "

Did well dewater? Yes (No) Gallons actually evacuated: 3.75

Sampling Time: 1540 / 1540 Sampling Date: 8/26/04

Sample I.D.: MW-2A / MW-2B Laboratory: Pace (Sequoia) Other ____

Analyzed for: GRO BTEX MTBE DRO Other:

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 #: 040826-BAR	Station # 1126
Sampler: Brian Alcorn	Date: 8/26/04
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 11.66	Depth to Water: 5.42
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) 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	radius² * 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.

1.0 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 3.0 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
1341	73.3	6.9	1,453	1.0	cloudy gray, odor
1343	72.4	7.0	1,486	2.0	" "
1345	72.2	7.0	1,480	3.0	" "

Did well dewater? Yes (No) Gallons actually evacuated: 3.0

Sampling Time: 1350 / 1350 Sampling Date: 8/26/04

Sample I.D.: MW-3A / MW-3B Laboratory: Pace (Sequoia) Other ____

Analyzed for: GRO BTEX MTBE DRO Other:

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 #: 040826-BA2	Station # 1126
Sampler: Brian Akana	Date: 8/26/04
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 10.92	Depth to Water: 5.65
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) 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^2 * 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.

1.0 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 3.0 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
1520	75.4	7.1	2,361	1.0	cloudy gray, odor
	Well Dewatered @ 1.25 gallons				
1600	70.1	7.2	3,022	1.25	" "

Did well dewater? (Yes) No Gallons actually evacuated: 1.25

Sampling Time: 1600 / 1600 Sampling Date: 8/26/04

Sample I.D.: MW-4A / MW-4B Laboratory: Pace (Sequoia) Other _____

Analyzed for: GRO BTEX MTBE DRO Other:

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 #: 040826-BAZ	Station # 11126
Sampler: BrianAlcom	Date: 8/26/04
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 12.34	Depth to Water: 5.42
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) 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	radius² * 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.

1.25 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 3.75 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
1320	78.2	6.9	689	1.25	cloudy strong slight gray, odor, sheen
1324	71.2	6.8	690	2.5	" " "
1326	76.0	6.8	707	3.75	" " "

Did well dewater? Yes (No) Gallons actually evacuated: 3.75

Sampling Time: 1330 / 1330 Sampling Date: 8/26/04

Sample I.D.: MW-5A / MW-5B Laboratory: Pace (Sequoia) Other ____

Analyzed for: GRO BTEX MTBE DRO Other:

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 #: 040826-BA1	Station # 1126
Sampler: Brian Alcon	Date: 8/26/04
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 12.44	Depth to Water: 6.06
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) 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^2 * 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.

1.0 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 3.0 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
1405	75.6	7.1	1,756	1.0	cloudy gray,
1407	76.8	7.1	1,756	2.0	"
1409	77.2	7.1	1,567	3.0	"

Did well dewater? Yes (No) Gallons actually evacuated: 3.0

Sampling Time: 1415 / 1415 Sampling Date: 8/26/04

Sample I.D.: MW-6A / MW-6B Laboratory: Pace (Sequoia) Other____

Analyzed for: GRO BTEX MTBE DRO Other:

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 #: 040826-BA2	Station # 11126
Sampler: Brian Alcom	Date: 8/26/04
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 13.70	Depth to Water: 5.65
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (TOC) 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	radius² * 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.

1.25 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 3.75 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
1425	82.6	7.0	2,383	1.25	cloudy gray, odor
1426	81.3	7.0	2,183	2.5	" "
1428	81.3	7.0	1,904	3.75	" "

Did well dewater? Yes No — Gallons actually evacuated: 3.75

Sampling Time: 1435 / 1435 — Sampling Date: 8/26/04

Sample I.D.: MW-7A / MW-7B — Laboratory: Pace (Sequoia) Other ____

Analyzed for: GRO BTEX MTBE DRO — Other:

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 #: 040826-BA2	Station # 1126
Sampler: Brian Alcom	Date: 8/26/04
Well I.D.: MW-8	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 13.80	Depth to Water: 4.73
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) 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	radius² * 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.

1.5 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 4.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1502	79.9	6.7	2,049	1.5	clear, odor
1504	78.9	6.8	2,246	3.0	" "
1506	77.4	6.8	2,403	4.5	" "

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: 1510 / 1510 Sampling Date: 8/26/04

Sample I.D.: MW-8A / MW-8B Laboratory: Pace (Sequoia) Other_____

Analyzed for: GRO BTEX MTBE DRO Other:

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 #: 040826-BA2	Station # 1126
Sampler: Brian Akorn	Date: 8/26/04
Well I.D.: MW-9	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 13.94	Depth to Water: 3.61
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) 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	radius² * 0.163

Purge Method: (Bailer) 3" PVC / 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.

7.0 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 21.0 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1550	Well Dewatered @ 11 gallons				
	No parameters taken due to sheen				

Did well dewater? (Yes) No Gallons actually evacuated: 11.0

Sampling Time: 1610 / 1610 Sampling Date: 8/26/04

Sample I.D.: MW-9A / MW-9B Laboratory: Pace (Sequoia) Other ____

Analyzed for: GRO BTEX MTBE DRO Other:

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 BLAINE 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:

91126

Station #

1700 Powell, Emeryville

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

added equip. rinse water _____

any other adjustments _____

TOTAL GALS. RECOVERED 18

loaded onto BTS vehicle # 58

BTS event #	time	date
040826-BA2	1630	8/26/09

signature

* *

REC'D AT	time	date
		/ /

unloaded by signature _____

ATTACHMENT C

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

LABORATORY PROCEDURES

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 Atlantic Richfield Company have been reviewed and verified by that laboratory.

Sequoia Analytical

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FAX (408) 782-6308
www.sequoialabs.com

15 September, 2004

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

RE: BP Heritage #11126, Emeryville, CA
Work Order: MNI0021

Enclosed are the results of analyses for samples received by the laboratory on 08/27/04 12:12. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1A	MNI0021-01	Water	08/26/04 14:55	08/27/04 12:12
MW-2A	MNI0021-02	Water	08/26/04 15:40	08/27/04 12:12
MW-3A	MNI0021-03	Water	08/26/04 13:50	08/27/04 12:12
MW-4A	MNI0021-04	Water	08/26/04 16:00	08/27/04 12:12
MW-5A	MNI0021-05	Water	08/26/04 13:30	08/27/04 12:12
MW-6A	MNI0021-06	Water	08/26/04 14:15	08/27/04 12:12
MW-7A	MNI0021-07	Water	08/26/04 14:35	08/27/04 12:12
MW-8A	MNI0021-08	Water	08/26/04 15:10	08/27/04 12:12
MW-9A	MNI0021-09	Water	08/26/04 16:10	08/27/04 12:12
TB-11126-08262004	MNI0021-10	Water	08/26/04 16:30	08/27/04 12:12

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 custody seals.

MS/MSD is reported for all batches in which the laboratory received sufficient sample volume to perform the MS/MSD analysis. In the case where there was insufficient sample volume received for all samples associated in the batch, LCS/LCSD is analyzed in place of the MS/MSD.

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1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

Extractable Hydrocarbons with Silica Gel cleanup by EPA 8015B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3A (MNI0021-03) Water Sampled: 08/26/04 13:50 Received: 08/27/04 12:12									
Diesel Range Organics (C10-C36)	**250**	49	ug/l	1	4I02006	09/02/04	09/03/04	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		*97 %*		*34-123*	"	"	"	"	

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1A (MNI0021-01) Water Sampled: 08/26/04 14:55 Received: 08/27/04 12:12									
tert-Amyl methyl ether	ND	2.5	ug/l	5	4I08004	09/08/04	09/09/04	EPA 8260B	
Benzene	**220**	2.5	"	"	"	"	"	"	
tert-Butyl alcohol	**320**	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	**15**	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	**180**	2.5	"	"	"	"	"	"	
Toluene	**7.2**	2.5	"	"	"	"	"	"	
Xylenes (total)	**35**	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**1700**	250	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*78-129*		"	"	"	"	
MW-2A (MNI0021-02) Water Sampled: 08/26/04 15:40 Received: 08/27/04 12:12									
tert-Amyl methyl ether	**320**	250	ug/l	500	4I08004	09/08/04	09/09/04	EPA 8260B	
Benzene	**8200**	250	"	"	"	"	"	"	
tert-Butyl alcohol	ND	10000	"	"	"	"	"	"	
Di-isopropyl ether	ND	250	"	"	"	"	"	"	
Ethanol	ND	50000	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	250	"	"	"	"	"	"	
Ethylbenzene	**4200**	250	"	"	"	"	"	"	
Methyl tert-butyl ether	**11000**	250	"	"	"	"	"	"	
Toluene	**18000**	250	"	"	"	"	"	"	
Xylenes (total)	**19000**	250	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**140000**	25000	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*90 %*	*78-129*		"	"	"	"	

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3A (MNI0021-03) Water	**Sampled: 08/26/04 13:50**	**Received: 08/27/04 12:12**							
tert-Amyl methyl ether	**2.0**	0.50	ug/l	1	4I08004	09/08/04	09/09/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	**260**	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**34**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**56**	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*78-129*		"	"	"	"	
MW-4A (MNI0021-04) Water	**Sampled: 08/26/04 16:00**	**Received: 08/27/04 12:12**							
tert-Amyl methyl ether	**60**	25	ug/l	50	4I09027	09/09/04	09/09/04	EPA 8260B	
Benzene	ND	25	"	"	"	"	"	"	
tert-Butyl alcohol	**16000**	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Methyl tert-butyl ether	**1800**	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	2500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*84 %*	*78-129*		"	"	"	"	

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5A (MNI0021-05) Water Sampled: 08/26/04 13:30 Received: 08/27/04 12:12									
tert-Amyl methyl ether	ND	2.5	ug/l	5	4I09027	09/09/04	09/09/04	EPA 8260B	
Benzene	**23**	2.5	"	"	"	"	"	"	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	**3.6**	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	**74**	2.5	"	"	"	"	"	"	
Toluene	**4.0**	2.5	"	"	"	"	"	"	
Xylenes (total)	**11**	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**2400**	250	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96 %*	*78-129*		"	"	"	"	
MW-6A (MNI0021-06) Water Sampled: 08/26/04 14:15 Received: 08/27/04 12:12									
tert-Amyl methyl ether	**12**	2.5	ug/l	5	4I08004	09/08/04	09/09/04	EPA 8260B	
Benzene	ND	2.5	"	"	"	"	"	"	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	**110**	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	250	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*78-129*		"	"	"	"	

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7A (MNI0021-07) Water Sampled: 08/26/04 14:35 Received: 08/27/04 12:12									
tert-Amyl methyl ether	**7.8**	2.5	ug/l	5	4I08004	09/08/04	09/09/04	EPA 8260B	
Benzene	ND	2.5	"	"	"	"	"	"	
tert-Butyl alcohol	**4800**	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	**150**	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	**2.8**	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**450**	250	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*78-129*		"	"	"	"	
MW-8A (MNI0021-08) Water Sampled: 08/26/04 15:10 Received: 08/27/04 12:12									
tert-Amyl methyl ether	ND	25	ug/l	50	4I09027	09/09/04	09/09/04	EPA 8260B	
Benzene	ND	25	"	"	"	"	"	"	
tert-Butyl alcohol	**47000**	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Methyl tert-butyl ether	**170**	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	2500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*84 %*	*78-129*		"	"	"	"	

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9A (MNI0021-09) Water Sampled: 08/26/04 16:10 Received: 08/27/04 12:12									
tert-Amyl methyl ether	**140**	50	ug/l	100	4I09027	09/09/04	09/09/04	EPA 8260B	
Benzene	**3700**	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Ethylbenzene	**1300**	50	"	"	"	"	"	"	
Methyl tert-butyl ether	**6500**	50	"	"	"	"	"	"	
Toluene	**500**	50	"	"	"	"	"	"	
Xylenes (total)	**5300**	50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**35000**	5000	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*84 %*	*78-129*		"	"	"	"	
MW-9A (MNI0021-09RE1) Water Sampled: 08/26/04 16:10 Received: 08/27/04 12:12									**CL**
tert-Butyl alcohol	**2600**	2000	ug/l	100	4I10020	09/10/04	09/10/04	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*83 %*	*78-129*		"	"	"	"	

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager. Leonard Niles	09/15/04 18:34

EPA 8010 list Volatile Organic Compounds by EPA 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1A (MNI0021-01) Water	**Sampled: 08/26/04 14:55**	**Received: 08/27/04 12:12**							**BH**
Bromochloromethane	ND	2.5	ug/l	5	4I09027	09/09/04	09/09/04	EPA 8260B	
Bromodichloromethane	ND	2.5	"	"	"	"	"	"	
Bromoform	ND	2.5	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.5	"	"	"	"	"	"	
Chlorobenzene	ND	2.5	"	"	"	"	"	"	
Chloroethane	ND	2.5	"	"	"	"	"	"	
Chloroform	ND	2.5	"	"	"	"	"	"	
Chloromethane	ND	2.5	"	"	"	"	"	"	
Dibromochloromethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
Freon 113	ND	2.5	"	"	"	"	"	"	
Methylene chloride	ND	2.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
Tetrachloroethene	ND	2.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"	
Trichloroethene	ND	2.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"	
Vinyl chloride	ND	2.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*85 %*	*73-130*		"	"	"	"	
Surrogate: Toluene-d8		*90 %*	*89-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89 %*	*71-117*		"	"	"	"	

Sequoia Analytical

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

EPA 8010 list Volatile Organic Compounds by EPA 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2A (MNI0021-02) Water	**Sampled: 08/26/04 15:40**	**Received: 08/27/04 12:12**							**BH**
Bromochloromethane	ND	250	ug/l	500	4I09027	09/09/04	09/09/04	EPA 8260B	
Bromodichloromethane	ND	250	"	"	"	"	"	"	
Bromoform	ND	250	"	"	"	"	"	"	
Bromomethane	ND	500	"	"	"	"	"	"	
Carbon tetrachloride	ND	250	"	"	"	"	"	"	
Chlorobenzene	ND	250	"	"	"	"	"	"	
Chloroethane	ND	250	"	"	"	"	"	"	
Chloroform	ND	250	"	"	"	"	"	"	
Chloromethane	ND	250	"	"	"	"	"	"	
Dibromochloromethane	ND	250	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	250	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	250	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	250	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	250	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	250	"	"	"	"	"	"	
1,1-Dichloroethane	ND	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
1,1-Dichloroethene	ND	250	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
1,2-Dichloropropane	ND	250	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
Freon 113	ND	250	"	"	"	"	"	"	
Methylene chloride	ND	250	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	250	"	"	"	"	"	"	
Tetrachloroethene	ND	250	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	250	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	250	"	"	"	"	"	"	
Trichloroethene	ND	250	"	"	"	"	"	"	
Trichlorofluoromethane	ND	250	"	"	"	"	"	"	
Vinyl chloride	ND	250	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*82 %*	*73-130*		"	"	"	"	
Surrogate: Toluene-d8		*89 %*	*89-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88 %*	*71-117*		"	"	"	"	

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

EPA 8010 list Volatile Organic Compounds by EPA 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3A (MNI0021-03) Water Sampled: 08/26/04 13:50 Received: 08/27/04 12:12									
Bromochloromethane	ND	0.50	ug/l	1	4I09027	09/09/04	09/09/04	EPA 8260B	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Freon 113	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*80 %*	*73-130*		"	"	"	"	
Surrogate: Toluene-d8		*92 %*	*89-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89 %*	*71-117*		"	"	"	"	

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URS Corporation [Arco]	Project BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

EPA 8010 list Volatile Organic Compounds by EPA 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4A (MNI0021-04) Water Sampled: 08/26/04 16:00 Received: 08/27/04 12:12									
Bromochloromethane	ND	25	ug/l	50	4I09027	09/09/04	09/09/04	EPA 8260B	
Bromodichloromethane	ND	25	"	"	"	"	"	"	
Bromoform	ND	25	"	"	"	"	"	"	
Bromomethane	ND	50	"	"	"	"	"	"	
Carbon tetrachloride	ND	25	"	"	"	"	"	"	
Chlorobenzene	ND	25	"	"	"	"	"	"	
Chloroethane	ND	25	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
Chloromethane	ND	25	"	"	"	"	"	"	
Dibromochloromethane	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	25	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	25	"	"	"	"	"	"	
Freon 113	ND	25	"	"	"	"	"	"	
Methylene chloride	**38**	25	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25	"	"	"	"	"	"	
Tetrachloroethene	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25	"	"	"	"	"	"	
Trichloroethene	ND	25	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25	"	"	"	"	"	"	
Vinyl chloride	ND	25	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*83 %*		*73-130*	"	"	"	"	
Surrogate: Toluene-d8		*90 %*		*89-116*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94 %*		*71-117*	"	"	"	"	

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URS Corporation [Arco]	Project BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number N/P	**Reported:**
Oakland CA, 94612	Project Manager. Leonard Niles	09/15/04 18:34

EPA 8010 list Volatile Organic Compounds by EPA 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5A (MNI0021-05) Water Sampled: 08/26/04 13:30 Received: 08/27/04 12:12									**BH**
Bromochloromethane	ND	2.5	ug/l	5	4I09027	09/09/04	09/09/04	EPA 8260B	
Bromodichloromethane	ND	2.5	"	"	"	"	"	"	
Bromoform	ND	2.5	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.5	"	"	"	"	"	"	
Chlorobenzene	ND	2.5	"	"	"	"	"	"	
Chloroethane	ND	2.5	"	"	"	"	"	"	
Chloroform	ND	2.5	"	"	"	"	"	"	
Chloromethane	ND	2.5	"	"	"	"	"	"	
Dibromochloromethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
Freon 113	ND	2.5	"	"	"	"	"	"	
Methylene chloride	ND	2.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
Tetrachloroethene	ND	2.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"	
Trichloroethene	ND	2.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"	
Vinyl chloride	ND	2.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*82 %*		*73-130*	"	"	"	"	
Surrogate: Toluene-d8		*97 %*		*89-116*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92 %*		*71-117*	"	"	"	"	

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

EPA 8010 list Volatile Organic Compounds by EPA 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6A (MNI0021-06) Water Sampled: 08/26/04 14:15 Received: 08/27/04 12:12									**BH**
Bromochloromethane	ND	2.5	ug/l	5	4I09027	09/09/04	09/09/04	EPA 8260B	
Bromodichloromethane	ND	2.5	"	"	"	"	"	"	
Bromoform	ND	2.5	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.5	"	"	"	"	"	"	
Chlorobenzene	ND	2.5	"	"	"	"	"	"	
Chloroethane	ND	2.5	"	"	"	"	"	"	
Chloroform	ND	2.5	"	"	"	"	"	"	
Chloromethane	ND	2.5	"	"	"	"	"	"	
Dibromochloromethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
Freon 113	ND	2.5	"	"	"	"	"	"	
Methylene chloride	ND	2.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
Tetrachloroethene	ND	2.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"	
Trichloroethene	ND	2.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"	
Vinyl chloride	ND	2.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*81 %*	*73-130*		"	"	"	"	
Surrogate: Toluene-d8		*91 %*	*89-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88 %*	*71-117*		"	"	"	"	

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

EPA 8010 list Volatile Organic Compounds by EPA 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7A (MNI0021-07) Water Sampled: 08/26/04 14:35 Received: 08/27/04 12:12									
Bromochloromethane	ND	0.50	ug/l	1	4I09027	09/09/04	09/09/04	EPA 8260B	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Freon 113	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*82 %*		*73-130*	"	"	"	"	
Surrogate: Toluene-d8		*90 %*		*89-116*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87 %*		*71-117*	"	"	"	"	

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

EPA 8010 list Volatile Organic Compounds by EPA 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8A (MNI0021-08) Water Sampled: 08/26/04 15:10 Received: 08/27/04 12:12									**BH**
Bromochloromethane	ND	25	ug/l	50	4I09027	09/09/04	09/09/04	EPA 8260B	
Bromodichloromethane	ND	25	"	"	"	"	"	"	
Bromoform	ND	25	"	"	"	"	"	"	
Bromomethane	ND	50	"	"	"	"	"	"	
Carbon tetrachloride	ND	25	"	"	"	"	"	"	
Chlorobenzene	ND	25	"	"	"	"	"	"	
Chloroethane	ND	25	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
Chloromethane	ND	25	"	"	"	"	"	"	
Dibromochloromethane	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	25	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	25	"	"	"	"	"	"	
Freon 113	ND	25	"	"	"	"	"	"	
Methylene chloride	ND	25	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25	"	"	"	"	"	"	
Tetrachloroethene	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25	"	"	"	"	"	"	
Trichloroethene	ND	25	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25	"	"	"	"	"	"	
Vinyl chloride	ND	25	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*82 %*	*73-130*		"	"	"	"	
Surrogate: Toluene-d8		*90 %*	*89-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91 %*	*71-117*		"	"	"	"	

Sequoia Analytical

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

EPA 8010 list Volatile Organic Compounds by EPA 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9A (MNI0021-09) Water Sampled: 08/26/04 16:10 Received: 08/27/04 12:12									**BH**
Bromochloromethane	ND	50	ug/l	100	4I09027	09/09/04	09/09/04	EPA 8260B	
Bromodichloromethane	ND	50	"	"	"	"	"	"	
Bromoform	ND	50	"	"	"	"	"	"	
Bromomethane	ND	100	"	"	"	"	"	"	
Carbon tetrachloride	ND	50	"	"	"	"	"	"	
Chlorobenzene	ND	50	"	"	"	"	"	"	
Chloroethane	ND	50	"	"	"	"	"	"	
Chloroform	ND	50	"	"	"	"	"	"	
Chloromethane	ND	50	"	"	"	"	"	"	
Dibromochloromethane	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	50	"	"	"	"	"	"	
Freon 113	ND	50	"	"	"	"	"	"	
Methylene chloride	ND	50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	50	"	"	"	"	"	"	
Tetrachloroethene	ND	50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	50	"	"	"	"	"	"	
Trichloroethene	ND	50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	50	"	"	"	"	"	"	
Vinyl chloride	ND	50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*91 %*		*73-130*	"	"	"	"	
Surrogate: Toluene-d8		*91 %*		*89-116*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90 %*		*71-117*	"	"	"	"	

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1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3A (MNI0021-03) Water Sampled: 08/26/04 13:50 Received: 08/27/04 12:12									
Oil & Grease (HEM)	ND	10000	ug/l	1	4I02031	09/02/04	09/03/04	EPA 1664A	

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1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

Extractable Hydrocarbons with Silica Gel cleanup by EPA 8015B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4I02006 - EPA 3510C										
Blank (4I02006-BLK1)				Prepared & Analyzed: 09/02/04						
Diesel Range Organics (C10-C36)	ND	50	ug/l							
Surrogate. n-Octacosane	*36.3*		*"*	*50.0*		*73*	*34-123*			
Laboratory Control Sample (4I02006-BS1)				Prepared & Analyzed: 09/02/04						
Diesel Range Organics (C10-C36)	431	50	ug/l	500		86	51-128			
Surrogate: n-Octacosane	*40 8*		*"*	*50.0*		*82*	*34-123*			
Laboratory Control Sample Dup (4I02006-BSD1)				Prepared & Analyzed: 09/02/04						
Diesel Range Organics (C10-C36)	444	50	ug/l	500		89	51-128	3	27	
Surrogate: n-Octacosane	*37.0*		*"*	*50 0*		*74*	*34-123*			

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1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

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
Batch 4I08004 - EPA 5030B P/T										
Blank (4I08004-BLK1)				Prepared & Analyzed: 09/08/04						
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	"							
Surrogate. 1,2-Dichloroethane-d4	*5.27*		"	*5 00*		*105*	*78-129*			
Laboratory Control Sample (4I08004-BS1)				Prepared & Analyzed: 09/08/04						
tert-Amyl methyl ether	9 84	0.50	ug/l	10.0		98	56-140			
Benzene	9.11	0 50	"	10.0		91	78-124			
tert-Butyl alcohol	46.2	20	"	50.0		92	0-206			
Di-isopropyl ether	9.25	0 50	"	10.0		92	76-130			
1,2-Dibromoethane (EDB)	9 96	0.50	"	10 0		100	77-132			
1,2-Dichloroethane	11.0	0.50	"	10.0		110	77-136			
Ethanol	151	100	"	200		76	31-186			
Ethyl tert-butyl ether	9.54	0.50	"	10 0		95	61-141			
Ethylbenzene	8 73	0.50	"	10.0		87	84-117			
Methyl tert-butyl ether	9.66	0.50	"	10.0		97	63-137			
Toluene	8.83	0.50	"	10.0		88	78-129			
Xylenes (total)	27.7	0 50	"	30.0		92	83-125			
Surrogate: 1,2-Dichloroethane-d4	*5.23*		"	*5.00*		*105*	*78-129*			

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1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

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
Batch 4I08004 - EPA 5030B P/T										
Laboratory Control Sample (4I08004-BS2)				Prepared & Analyzed: 09/08/04						
Benzene	5.25	0.50	ug/l	6 40		82	78-124			
Ethylbenzene	7.39	0.50	"	6.96		106	84-117			
Methyl tert-butyl ether	8.89	0.50	"	9.92		90	63-137			
Toluene	31.0	0.50	"	29.7		104	78-129			
Xylenes (total)	37.8	0.50	"	33.7		112	83-125			
Gasoline Range Organics (C4-C12)	394	50	"	440		90	70-124			
Surrogate. 1,2-Dichloroethane-d4	*5.52*		"	*5.00*		*110*	*78-129*			
Laboratory Control Sample Dup (4I08004-BSD1)				Prepared & Analyzed: 09/08/04						
tert-Amyl methyl ether	9.84	0 50	ug/l	10.0		98	56-140	0	12	
Benzene	10.0	0.50	"	10.0		100	78-124	9	12	
tert-Butyl alcohol	50 8	20	"	50.0		102	0-206	9	22	
Di-isopropyl ether	9.76	0.50	"	10.0		98	76-130	5	9	
1,2-Dibromoethane (EDB)	10 6	0 50	"	10 0		106	77-132	6	9	
1,2-Dichloroethane	11.4	0.50	"	10.0		114	77-136	4	13	
Ethanol	124	100	"	200		62	31-186	20	37	IC
Ethyl tert-butyl ether	9 96	0 50	"	10 0		100	61-141	4	9	
Ethylbenzene	9.78	0 50	"	10.0		98	84-117	11	10	RB
Methyl tert-butyl ether	10.1	0 50	"	10.0		101	63-137	4	13	
Toluene	10 0	0.50	"	10.0		100	78-129	12	10	RB
Xylenes (total)	31.7	0.50	"	30.0		106	83-125	13	11	RB
Surrogate: 1,2-Dichloroethane-d4	*5.23*		"	*5.00*		*105*	*78-129*			
Matrix Spike (4I08004-MS1)	**Source: MNH0748-04**			Prepared & Analyzed: 09/08/04						
Benzene	363	10	ug/l	128	340	18	78-124			LN
Ethylbenzene	264	10	"	139	120	104	84-117			
Methyl tert-butyl ether	748	10	"	198	750	NR	63-137			LN
Toluene	645	10	"	594	55	99	78-129			
Xylenes (total)	1110	10	"	674	260	126	83-125			LM
Gasoline Range Organics (C4-C12)	11200	1000	"	8800	4000	82	70-124			
Surrogate: 1,2-Dichloroethane-d4	*5.34*		"	*5.00*		*107*	*78-129*			

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1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

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
Batch 4I08004 - EPA 5030B P/T										
Matrix Spike Dup (4I08004-MSD1)	**Source: MNH0748-04**			Prepared & Analyzed: 09/08/04						
Benzene	372	10	ug/l	128	340	25	78-124	2	12	LN
Ethylbenzene	275	10	"	139	120	112	84-117	4	10	
Methyl tert-butyl ether	765	10	"	198	750	8	63-137	2	13	LN
Toluene	661	10	"	594	55	102	78-129	2	10	
Xylenes (total)	1140	10	"	674	260	131	83-125	3	11	LM
Gasoline Range Organics (C4-C12)	11800	1000	"	8800	4000	89	70-124	5	20	
Surrogate: 1,2-Dichloroethane-d4	*5.47*		"	*5.00*		*109*	*78-129*			
Batch 4I09027 - EPA 5030B P/T										
Blank (4I09027-BLK1)				Prepared & Analyzed: 09/09/04						
tert-Amyl methyl ether	ND	0 50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
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	"							
Surrogate. 1,2-Dichloroethane-d4	*2 16*		"	*2.50*		*86*	*78-129*			
Laboratory Control Sample (4I09027-BS1)				Prepared & Analyzed: 09/09/04						
tert-Amyl methyl ether	10.3	0 50	ug/l	10.0		103	56-140			
Benzene	10.7	0.50	"	10.0		107	78-124			
tert-Butyl alcohol	49.2	20	"	50.0		98	0-206			
Di-isopropyl ether	10.3	0 50	"	10.0		103	76-130			
Ethanol	177	100	"	200		88	31-186			
Ethyl tert-butyl ether	11.0	0 50	"	10.0		110	61-141			
Ethylbenzene	11.1	0 50	"	10.0		111	84-117			
Methyl tert-butyl ether	9.71	0.50	"	10.0		97	63-137			
Toluene	10.4	0.50	"	10.0		104	78-129			
Xylenes (total)	34.1	0 50	"	30.0		114	83-125			
Surrogate: 1,2-Dichloroethane-d4	*2.21*		"	*2.50*		*88*	*78-129*			

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1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager. Leonard Niles	09/15/04 18:34

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
Batch 4I09027 - EPA 5030B P/T										
Laboratory Control Sample (4I09027-BS2)				Prepared & Analyzed: 09/09/04						
Gasoline Range Organics (C4-C12)	370	50	ug/l	440		84	70-124			
Surrogate: 1,2-Dichloroethane-d4	*2.12*		"	*2 50*		*85*	*78-129*			
Laboratory Control Sample Dup (4I09027-BSD1)				Prepared: 09/09/04 Analyzed: 09/10/04						
tert-Amyl methyl ether	10.9	0.50	ug/l	10.0		109	56-140	6	12	
Benzene	11 2	0 50	"	10 0		112	78-124	5	12	
tert-Butyl alcohol	48.8	20	"	50.0		98	0-206	0.8	22	
Di-isopropyl ether	10.7	0.50	"	10.0		107	76-130	4	9	
Ethanol	173	100	"	200		86	31-186	2	37	
Ethyl tert-butyl ether	11.3	0.50	"	10.0		113	61-141	3	9	
Ethylbenzene	11.5	0.50	"	10.0		115	84-117	4	10	
Methyl tert-butyl ether	10.1	0.50	"	10.0		101	63-137	4	13	
Toluene	10.7	0.50	"	10.0		107	78-129	3	10	
Xylenes (total)	34.8	0.50	"	30.0		116	83-125	2	11	
Surrogate: 1,2-Dichloroethane-d4	*2.38*		"	*2 50*		*95*	*78-129*			
Matrix Spike (4I09027-MS1)	**Source: MNI0021-09**			Prepared: 09/09/04 Analyzed: 09/10/04						
Gasoline Range Organics (C4-C12)	70800	5000	ug/l	44000	35000	81	70-124			
Surrogate: 1,2-Dichloroethane-d4	*2 16*		"	*2.50*		*86*	*78-129*			
Matrix Spike Dup (4I09027-MSD1)	**Source: MNI0021-09**			Prepared: 09/09/04 Analyzed: 09/10/04						
Gasoline Range Organics (C4-C12)	68400	5000	ug/l	44000	35000	76	70-124	3	20	
Surrogate: 1,2-Dichloroethane-d4	*2.14*		"	*2.50*		*86*	*78-129*			
Batch 4I10020 - EPA 5030B P/T										
Blank (4I10020-BLK1)				Prepared & Analyzed: 09/10/04						
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	"							

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Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

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
Batch 4I10020 - EPA 5030B P/T										
Blank (4I10020-BLK1)				Prepared & Analyzed: 09/10/04						
Xylenes (total)	ND	0.50	ug/l							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*2 25*		"	*2.50*		*90*	*78-129*			
Laboratory Control Sample (4I10020-BS1)				Prepared & Analyzed: 09/10/04						
tert-Amyl methyl ether	10 1	0 50	ug/l	10.0		101	56-140			
Benzene	10.6	0.50	"	10.0		106	78-124			
tert-Butyl alcohol	49.0	20	"	50 0		98	0-206			
Di-isopropyl ether	10.1	0.50	"	10.0		101	76-130			
1,2-Dibromoethane (EDB)	10.8	0.50	"	10.0		108	77-132			
1,2-Dichloroethane	10.8	0 50	"	10.0		108	77-136			
Ethanol	157	100	"	200		78	31-186			
Ethyl tert-butyl ether	10 8	0 50	"	10.0		108	61-141			
Ethylbenzene	11.0	0 50	"	10.0		110	84-117			
Methyl tert-butyl ether	9 83	0.50	"	10.0		98	63-137			
Toluene	10.2	0 50	"	10 0		102	78-129			
Xylenes (total)	33.9	0.50	"	30.0		113	83-125			
Surrogate 1,2-Dichloroethane-d4	*2.13*		"	*2.50*		*85*	*78-129*			
Laboratory Control Sample (4I10020-BS2)				Prepared & Analyzed: 09/10/04						
Gasoline Range Organics (C4-C12)	401	50	ug/l	440		91	70-124			
Surrogate: 1,2-Dichloroethane-d4	*2.21*		"	*2.50*		*88*	*78-129*			
Laboratory Control Sample Dup (4I10020-BSD1)				Prepared: 09/10/04 Analyzed: 09/11/04						
tert-Amyl methyl ether	10.6	0 50	ug/l	10.0		106	56-140	5	12	
Benzene	11.0	0.50	"	10.0		110	78-124	4	12	
tert-Butyl alcohol	48.4	20	"	50.0		97	0-206	1	22	
Di-isopropyl ether	10.6	0 50	"	10.0		106	76-130	5	9	
1,2-Dibromoethane (EDB)	11.0	0.50	"	10.0		110	77-132	2	9	
1,2-Dichloroethane	11.0	0.50	"	10.0		110	77-136	2	13	
Ethanol	157	100	"	200		78	31-186	0	37	
Ethyl tert-butyl ether	11 2	0.50	"	10 0		112	61-141	4	9	
Ethylbenzene	11.2	0.50	"	10.0		112	84-117	2	10	
Methyl tert-butyl ether	9.94	0.50	"	10.0		99	63-137	1	13	
Toluene	10.3	0.50	"	10.0		103	78-129	1	10	
Xylenes (total)	33.8	0.50	"	30 0		113	83-125	0 3	11	
Surrogate: 1,2-Dichloroethane-d4	*2.21*		"	*2.50*		*88*	*78-129*			

Sequoia Analytical

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Morgan Hill, CA 95037
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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

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
Batch 4I10020 - EPA 5030B P/T										
Matrix Spike (4I10020-MS1)	**Source: MNI0051-02**			Prepared: 09/10/04 Analyzed: 09/11/04						
tert-Amyl methyl ether	1070	50	ug/l	1000	ND	107	56-140			
Benzene	1100	50	"	1000	ND	110	78-124			
tert-Butyl alcohol	13800	2000	"	5000	8800	100	0-206			
Di-isopropyl ether	1050	50	"	1000	ND	105	76-130			
1,2-Dibromoethane (EDB)	1100	50	"	1000	ND	110	77-132			
1,2-Dichloroethane	1090	50	"	1000	ND	109	77-126			
Ethanol	16800	10000	"	20000	ND	84	31-186			
Ethyl tert-butyl ether	1130	50	"	1000	12	112	61-141			
Ethylbenzene	1070	50	"	1000	ND	107	84-117			
Methyl tert-butyl ether	5710	50	"	1000	4800	91	63-137			
Toluene	982	50	"	1000	ND	98	78-129			
Xylenes (total)	3270	50	"	3000	ND	109	83-125			
Surrogate: 1,2-Dichloroethane-d4	*2 24*		*"*	*2 50*		*90*	*78-129*			
Matrix Spike (4I10020-MS2)	**Source: MNI0019-04**			Prepared: 09/10/04 Analyzed: 09/11/04						
Gasoline Range Organics (C4-C12)	56900	5000	ug/l	44000	18000	88	70-124			
Surrogate. 1,2-Dichloroethane-d4	*2 31*		*"*	*2.50*		*92*	*78-129*			
Matrix Spike Dup (4I10020-MSD1)	**Source: MNI0051-02**			Prepared: 09/10/04 Analyzed: 09/11/04						
tert-Amyl methyl ether	1090	50	ug/l	1000	ND	109	56-140	2	12	
Benzene	1120	50	"	1000	ND	112	78-124	2	12	
tert-Butyl alcohol	14200	2000	"	5000	8800	108	0-206	3	22	
Di-isopropyl ether	1070	50	"	1000	ND	107	76-130	2	9	
1,2-Dibromoethane (EDB)	1120	50	"	1000	ND	112	77-132	2	9	
1,2-Dichloroethane	1090	50	"	1000	ND	109	77-126	0	13	
Ethanol	21700	10000	"	20000	ND	108	31-186	25	37	
Ethyl tert-butyl ether	1130	50	"	1000	12	112	61-141	0	9	
Ethylbenzene	1130	50	"	1000	ND	113	84-117	5	10	
Methyl tert-butyl ether	5730	50	"	1000	4800	93	63-137	0.3	13	
Toluene	1050	50	"	1000	ND	105	78-129	7	10	
Xylenes (total)	3480	50	"	3000	ND	116	83-125	6	11	
Surrogate: 1,2-Dichloroethane-d4	*2 19*		*"*	*2.50*		*88*	*78-129*			

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

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
Batch 4I10020 - EPA 5030B P/T										
Matrix Spike Dup (4I10020-MSD2)	**Source: MNI0019-04**			Prepared: 09/10/04 Analyzed: 09/11/04						
Gasoline Range Organics (C4-C12)	56400	5000	ug/l	44000	18000	87	70-124	0.9	20	
Surrogate: 1,2-Dichloroethane-d4	*2 17*		*"*	*2.50*		*87*	*78-129*			

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

EPA 8010 list Volatile Organic Compounds by EPA 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4I09027 - EPA 5030B P/T										
Blank (4I09027-BLK1)			Prepared & Analyzed: 09/09/04							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0 50	"							
Bromomethane	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0 50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
Dibromochloromethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0 50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0 50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0 50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0 50	"							
Freon 113	ND	0 50	"							
Methylene chloride	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0 50	"							
Tetrachloroethene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
Vinyl chloride	ND	0 50	"							
Surrogate: Dibromofluoromethane	*2.01*		"	*2.50*		*80*	*73-130*			
Surrogate: Toluene-d8	*2 25*		"	*2 50*		*90*	*89-116*			
Surrogate: 4-Bromofluorobenzene	*2.35*		"	*2.50*		*94*	*71-117*			

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

EPA 8010 list Volatile Organic Compounds by EPA 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4I09027 - EPA 5030B P/T										
Laboratory Control Sample (4I09027-BS1)				Prepared & Analyzed: 09/09/04						
Bromochloromethane	10 9	0.50	ug/l	10 0		109	71-153			
Bromodichloromethane	12.7	0 50	"	10 0		127	90-134			
Bromoform	8 60	0.50	"	10.0		86	64-186			
Bromomethane	10.5	1.0	"	10.0		105	53-152			
Carbon tetrachloride	10.2	0 50	"	10.0		102	80-154			
Chlorobenzene	10.9	0.50	"	10 0		109	80-127			
Chloroethane	10.8	0.50	"	10.0		108	37-120			
Chloroform	10.9	0.50	"	10.0		109	84-123			
Chloromethane	10.8	0.50	"	10.0		108	54-140			
Dibromochloromethane	9.48	0 50	"	10.0		95	75-146			
1,2-Dibromoethane (EDB)	11.1	0.50	"	10 0		111	77-132			
1,2-Dichlorobenzene	11.6	0.50	"	10.0		116	73-134			
1,3-Dichlorobenzene	11.7	0 50	"	10.0		117	77-129			
1,4-Dichlorobenzene	11.4	0 50	"	10.0		114	79-121			
Dichlorodifluoromethane	12.2	0.50	"	10.0		122	30-143			
1,1-Dichloroethane	11.4	0.50	"	10.0		114	51-144			
1,2-Dichloroethane	10 7	0.50	"	10.0		107	77-136			
1,1-Dichloroethene	10.8	0 50	"	10.0		108	87-124			
cis-1,2-Dichloroethene	10.8	0.50	"	10.0		108	85-125			
trans-1,2-Dichloroethene	11.2	0.50	"	10 0		112	89-127			
1,2-Dichloropropane	10.8	0.50	"	10.0		108	88-121			
cis-1,3-Dichloropropene	10.8	0.50	"	10.0		108	73-136			
trans-1,3-Dichloropropene	12.2	0 50	"	10 0		122	69-133			
Freon 113	10.4	0.50	"	10.0		104	90-178			
Methylene chloride	10.9	0.50	"	10.0		109	80-122			
1,1,2,2-Tetrachloroethane	11.9	0.50	"	10.0		119	73-131			
Tetrachloroethene	10.6	0.50	"	10.0		106	82-127			
1,1,1-Trichloroethane	10.6	0 50	"	10.0		106	82-133			
1,1,2-Trichloroethane	11.0	0 50	"	10.0		110	89-130			
Trichloroethene	10.2	0.50	"	10.0		102	75-120			
Trichlorofluoromethane	10.8	0.50	"	10.0		108	84-143			
Vinyl chloride	10 2	0.50	"	10 0		102	73-132			
Surrogate: Dibromofluoromethane	*2.10*		"	*2.50*		*84*	*73-130*			
Surrogate: Toluene-d8	*2.34*		"	*2 50*		*94*	*89-116*			
Surrogate: 4-Bromofluorobenzene	*2.30*		"	*2 50*		*92*	*71-117*			

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager Leonard Niles	09/15/04 18:34

EPA 8010 list Volatile Organic Compounds by EPA 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4I09027 - EPA 5030B P/T										
Laboratory Control Sample Dup (4I09027-BSD1)				Prepared: 09/09/04 Analyzed: 09/10/04						
Bromochloromethane	12.3	0.50	ug/l	10.0		123	71-153	12	20	
Bromodichloromethane	13.0	0.50	"	10.0		130	90-134	2	20	
Bromoform	8.81	0 50	"	10 0		88	64-186	2	20	
Bromomethane	9.75	1.0	"	10.0		98	53-152	7	20	
Carbon tetrachloride	10.8	0.50	"	10.0		108	80-154	6	20	
Chlorobenzene	11 2	0 50	"	10.0		112	80-127	3	20	
Chloroethane	11.4	0 50	"	10 0		114	37-120	5	20	
Chloroform	11.6	0.50	"	10.0		116	84-123	6	20	
Chloromethane	12.0	0.50	"	10.0		120	54-140	11	20	
Dibromochloromethane	10.0	0 50	"	10 0		100	75-146	5	20	
1,2-Dibromoethane (EDB)	11.4	0 50	"	10 0		114	77-132	3	20	
1,2-Dichlorobenzene	11.6	0 50	"	10.0		116	73-134	0	20	
1,3-Dichlorobenzene	11.4	0.50	"	10.0		114	77-129	3	20	
1,4-Dichlorobenzene	11 1	0.50	"	10 0		111	79-121	3	20	
Dichlorodifluoromethane	12.8	0 50	"	10.0		128	30-143	5	20	
1,1-Dichloroethane	11 4	0.50	"	10.0		114	51-144	0	20	
1,2-Dichloroethane	11.2	0.50	"	10 0		112	77-136	5	20	
1,1-Dichloroethene	11.7	0.50	"	10 0		117	87-124	8	20	
cis-1,2-Dichloroethene	11.3	0.50	"	10.0		113	85-125	5	20	
trans-1,2-Dichloroethene	11.7	0 50	"	10.0		117	89-127	4	20	
1,2-Dichloropropane	11.4	0.50	"	10.0		114	88-121	5	20	
cis-1,3-Dichloropropene	10.5	0.50	"	10.0		105	73-136	3	20	
trans-1,3-Dichloropropene	11.9	0 50	"	10 0		119	69-133	2	20	
Freon 113	10.4	0 50	"	10 0		104	90-178	0	20	
Methylene chloride	11.4	0.50	"	10.0		114	80-122	4	20	
1,1,2,2-Tetrachloroethane	11 4	0.50	"	10.0		114	73-131	4	20	
Tetrachloroethene	11.3	0 50	"	10 0		113	82-127	6	20	
1,1,1-Trichloroethane	10.9	0.50	"	10.0		109	82-133	3	20	
1,1,2-Trichloroethane	11 4	0.50	"	10.0		114	89-130	4	20	
Trichloroethene	11.2	0.50	"	10.0		112	75-120	9	20	
Trichlorofluoromethane	11 5	0.50	"	10 0		115	84-143	6	20	
Vinyl chloride	10.8	0.50	"	10.0		108	73-132	6	20	
Surrogate: Dibromofluoromethane	*2.25*		"	*2.50*		*90*	*73-130*			
Surrogate: Toluene-d8	*2.34*		"	*2 50*		*94*	*89-116*			
Surrogate: 4-Bromofluorobenzene	*2.32*		"	*2.50*		*93*	*71-117*			

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4I02031 - General Prep										
Blank (4I02031-BLK1)				Prepared: 09/02/04 Analyzed: 09/03/04						
Oil & Grease (HEM)	ND	5000	ug/l							
Laboratory Control Sample (4I02031-BS1)				Prepared: 09/02/04 Analyzed: 09/03/04						
Oil & Grease (HEM)	18800	5000	ug/l	20000		94	78-118			
Laboratory Control Sample Dup (4I02031-BSD1)				Prepared: 09/02/04 Analyzed: 09/03/04						
Oil & Grease (HEM)	18600	5000	ug/l	20000		93	78-118	1	18	

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URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0021
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/15/04 18:34

Notes and Definitions

SG	A silica gel cleanup procedure was performed.
RB	RPD exceeded method control limit; % recoveries within limits.
PT	Hydrocarb. in req. fuel range, but doesn't resemble req. fuel
LN	MS and/or MSD below acceptance limits. See Blank Spike(LCS).
LM	MS and/or MSD above acceptance limits. See Blank Spike(LCS).
IC	Calib. verif. is within method limits but outside contract limits
CL	Initial analysis within holding time but required dilution
BH	Reporting limits raised due to high level of non-target analytes
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 11126 GWM
BP BU/GEM CO Portfolio Retail MNT0021
BP Laboratory Contract Number: Atlantic Richfield Company
Date: 040826-SAZ
Requested Due Date (mm/dd/yy) 14 day TAT

On-site Time: 1215	Temp: 85
Off-site Time: 1630	Temp: 85
Sky Conditions: clear	
Meteorological Events:	
Wind Speed: —	Direction:

Send To:	BP/GEM Facility No.: 11126	Consultant/Contractor: URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 1700 POWELL ST., EMERYVILLE, CA	Address: 1333 Broadway, Suite 800
Lab Address: 885 Jarvis Dr.	Site ID No. 11126	Oakland, CA 94612
Morgan Hill, CA 95037	Site Lat/Long:	e-mail EDD: donna_cospcr@URSCorp.com
	California Global ID #: T0600100208	Consultant/Contractor Project No.:
Lab PM Lisa Race	BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-893-3600/510-874-3268
Tele/Fax: 408-782-8156 / 408-782-6308	Address: P.O. Box 6549	Consultant/Contractor PM: Leonard Niles
Report Type & QC Level: 1 Send EDF Reports	Moraga, CA 94570	Invoice to: Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Account No.: 400-6-21124	Tele/Fax: 925-299-8891/925-299-8872	BP/GEM Work Release No:

Lab Bottle Order No: MNT0021

Item No.	Sample Description	Time	Matrix: Soil/Solid	Water/Liquid	Sediments	Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	Requested Analysis: GRO / BTEX 8260	DRO w/ SGC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE DIPE, TBA (8260)	1,2-DCA & EDB (8260)	TOG (1664)	HVOC's (full scan 8260)	Sample Point Lat/Long and Comments
1	MW-1A	1455		X			-01	3					X				X	X		X	
2	MW-2A	1540		X			-02	3					X				X	X		X	sheen
3	MW-3A	1350		X			-03	7	2			5	X	X			X	X	X	X	
4	MW-4A	1600		X			-04	3					X				X	X		X	
5	MW-5A	1330		X			-05	3					X				X	X		X	light sheen
6	MW-6A	1415		X			-06	3					X				X	X		X	
7	MW-7A	1435		X			-07	3					X				X	X		X	
8	MW-8A	1510		X			-08	3					X				X	X		X	
9	MW-9A	1610		X			-09	3					X				X	X		X	heavy sheen
10	TB-11126-082620004	1630		X			-10	2													ON HOLD

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: Brian Alcorn						
Sampler's Company: Blaine Tech Services		8/27	952		8/27	9:52
Shipment Date:		8/27	1905			
Shipment Method:						
Shipment Tracking No:						

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

Ice Chest Seal Intact? Yes X No ___ Temperature Blank Yes X No ___ Cooler Temperature on Receipt ___ °F/C Trip Blank Yes X No ___

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14 September, 2004

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

RE: BP Heritage #11126, Emeryville, CA
Work Order: MNI0029

Enclosed are the results of analyses for samples received by the laboratory on 08/27/04 14:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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URS Corporation [Arco]	Project BP Heritage #11126, Emeryville, CA	MNI0029
1333 Broadway, Suite 800	Project Number: [none]	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/14/04 15:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1B	MNI0029-01	Water	08/26/04 14:55	08/27/04 14:05
MW-2B	MNI0029-02	Water	08/26/04 15:40	08/27/04 14:05
MW-3B	MNI0029-03	Water	08/26/04 13:50	08/27/04 14:05
MW-4B	MNI0029-04	Water	08/26/04 16:00	08/27/04 14:05
MW-5B	MNI0029-05	Water	08/26/04 13:30	08/27/04 14:05
MW-6B	MNI0029-06	Water	08/26/04 14:15	08/27/04 14:05
MW-7B	MNI0029-07	Water	08/26/04 14:35	08/27/04 14:05
MW-8B	MNI0029-08	Water	08/26/04 15:10	08/27/04 14:05
MW-9B	MNI0029-09	Water	08/26/04 16:10	08/27/04 14:05

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 intact custody seals.

Sequoia Analytical

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URS Corporation [Arco]	Project BP Heritage #11126, Emeryville, CA	MNI0029
1333 Broadway, Suite 800	Project Number. [none]	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/14/04 15:44

Volatile Organic Compounds by EPA method 8260B SIM

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1B (MNI0029-01) Water	**Sampled: 08/26/04 14:55**	**Received: 08/27/04 14:05**							
Ethanol	ND	5.0	ug/l	1	4I09003	09/09/04	09/09/04	GCMS-SIM	
Surrogate: tert-Butyl alcohol-d9		*171 %*	*70-130*		"	"	"	"	*HY*
MW-2B (MNI0029-02) Water	**Sampled: 08/26/04 15:40**	**Received: 08/27/04 14:05**							
Ethanol	**23**	5.0	ug/l	1	4I09003	09/09/04	09/09/04	GCMS-SIM	
Surrogate: tert-Butyl alcohol-d9		*1280 %*	*70-130*		"	"	"	"	*HY*
MW-3B (MNI0029-03) Water	**Sampled: 08/26/04 13:50**	**Received: 08/27/04 14:05**							
Ethanol	ND	5.0	ug/l	1	4I09003	09/09/04	09/09/04	GCMS-SIM	
Surrogate: tert-Butyl alcohol-d9		*96 %*	*70-130*		"	"	"	"	
MW-4B (MNI0029-04) Water	**Sampled: 08/26/04 16:00**	**Received: 08/27/04 14:05**							
Ethanol	ND	5.0	ug/l	1	4I09003	09/09/04	09/09/04	GCMS-SIM	
Surrogate: tert-Butyl alcohol-d9		*109 %*	*70-130*		"	"	"	"	
MW-5B (MNI0029-05) Water	**Sampled: 08/26/04 13:30**	**Received: 08/27/04 14:05**							
Ethanol	**8.3**	5.0	ug/l	1	4I09003	09/09/04	09/09/04	GCMS-SIM	
Surrogate: tert-Butyl alcohol-d9		*137 %*	*70-130*		"	"	"	"	*HY*
MW-6B (MNI0029-06) Water	**Sampled: 08/26/04 14:15**	**Received: 08/27/04 14:05**							
Ethanol	**11**	5.0	ug/l	1	4I09003	09/09/04	09/09/04	GCMS-SIM	
Surrogate: tert-Butyl alcohol-d9		*106 %*	*70-130*		"	"	"	"	
MW-7B (MNI0029-07) Water	**Sampled: 08/26/04 14:35**	**Received: 08/27/04 14:05**							
Ethanol	**6.0**	5.0	ug/l	1	4I09003	09/09/04	09/09/04	GCMS-SIM	
Surrogate: tert-Butyl alcohol-d9		*91 %*	*70-130*		"	"	"	"	

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www sequoialabs com

URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0029
1333 Broadway, Suite 800	Project Number [none]	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/14/04 15:44

Volatile Organic Compounds by EPA method 8260B SIM

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8B (MNI0029-08) Water	**Sampled: 08/26/04 15:10**	**Received: 08/27/04 14:05**							
Ethanol	ND	5.0	ug/l	1	4I09003	09/09/04	09/09/04	GCMS-SIM	
Surrogate: tert-Butyl alcohol-d9		*99 %*	*70-130*		"	"	"	"	
MW-9B (MNI0029-09) Water	**Sampled: 08/26/04 16:10**	**Received: 08/27/04 14:05**							
Ethanol	**13**	5.0	ug/l	1	4I09003	09/09/04	09/09/04	GCMS-SIM	
Surrogate: tert-Butyl alcohol-d9		*188 %*	*70-130*		"	"	"	"	*HY*

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FAX (408) 782-6308
www sequoialabs.com

URS Corporation [Arco]	Project: BP Heritage #11126, Emeryville, CA	MNI0029
1333 Broadway, Suite 800	Project Number: [none]	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/14/04 15:44

Volatile Organic Compounds by EPA method 8260B SIM - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4I09003 - EPA 5030B P/T										
Blank (4I09003-BLK1)				Prepared & Analyzed: 09/09/04						
Ethanol	ND	5 0	ug/l							
Surrogate· tert-Butyl alcohol-d9	*49.0*		*"*	*50.0*		*98*	*70-130*			
Laboratory Control Sample (4I09003-BS1)				Prepared & Analyzed: 09/09/04						
Ethanol	18.5	5.0	ug/l	20.0		92	31-143			
Surrogate. tert-Butyl alcohol-d9	*47.8*		*"*	*50.0*		*96*	*70-130*			
Laboratory Control Sample Dup (4I09003-BSD1)				Prepared & Analyzed: 09/09/04						
Ethanol	20.9	5.0	ug/l	20.0		104	31-143	12	20	
Surrogate: tert-Butyl alcohol-d9	*46.4*		*"*	*50.0*		*93*	*70-130*			

Sequoia Analytical

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Morgan Hill, CA 95037
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www.sequoialabs.com

URS Corporation [Arco]	Project. BP Heritage #11126, Emeryville, CA	MNI0029
1333 Broadway, Suite 800	Project Number: [none]	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	09/14/04 15:44

Notes and Definitions

HY	Surrogate recov. unquantifiable; coeluting organics in sample
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

REVISED A1

Page 2 of 2

Chain of Custody Record

Project Name 11126 GWM
BP BU/GEM CO Portfolio Retail
BP Laboratory Contract Number: Atlantic Richfield Company
Requested Due Date (mm/dd/yy) 14 day TAT

Date: 8/26/04

On-site Time:	1215 Temp: 85
Off-site Time:	1630 Temp: 85
Sky Conditions:	clear
Meteorological Events:	
Wind Speed:	— Direction:

Send To:	**BP/GEM Facility No.:** 11126	**Consultant/Contractor:** URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 1700 POWELL ST., EMERYVILLE, CA	Address: 1333 Broadway, Suite 800
Lab Address: 885 Jarvis Dr.	Site ID No. 11126	Oakland, CA 94612
Morgan Hill, CA 95037	Site Lat/Long:	e-mail EDD: donna.cosper@URSCorp.com
	California Global ID #: T0600100208	Consultant/Contractor Project No.:
Lab PM Lisa Race	BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-893-3600/510-874-3268
Tele/Fax: 408-782-8156 / 408-782-6308	Address: P.O. Box 6549	Consultant/Contractor PM: Leonard Niles
Report Type & QC Level: 1 Send EDF Reports	Moraga, CA 94570	Invoice to: Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Account No.: 400-6-21124	Tele/Fax: 925-299-8891/925-299-8872	BP/GEM Work Release No:

Lab Bottle Order No:

Item No.	Sample Description	Time	Matrix: Soil/Solid	Water/Liquid	Sediments	Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	Requested Analysis: (8015) MTBE Ethanol (8260)	Sample Point Lat/Long and Comments
1	MW-1B	1455		X				3				X	X	GRO/BTEX/MTBE*
2	MW-2B	1540		X				3				X	X	Concentrations are
3	MW-3B	1350		X				3				X	X	elevated and multiple
4	MW-4B	1600		X				3				X	X	dilutions may be required
5	MW-5B	1330		X				3				X	X	for ethanol analyses.
6	MW-6B	1415		X				3				X	X	
7	MW-7B	1435		X				3				X	X	
8	MW-8B	1510		X				3				X	X	
9	MW-9B	1610		X				3				X	X	
10														

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: Brian Alcorn						
Sampler's Company: Blaine Tech Services		8/27	930		8/27	9:30
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

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

Ice/Cooler Yes X No ___ Temperature Blank Yes X No ___ Cooler Temperature on Receipt ___ °F/C Trip Blank Yes X No ___

Heavy Sheen

BLAINE TECH SERVICES Fax:1+408+573+7771 Aug 27 2004 15:53 P.02

REVISED # 2

Page 1 of 1

Chain of Custody Record

Project Name 11126 GWM
BP BU/GEM CO Portfolio Retail
BP Laboratory Contract Number: Atlantic Richfield Company
Requested Due Date (mm/dd/yy) 14 day TAT

te: 8/26/04

On-site Time:	1215 Temp: 85
Off-site Time:	1630 Temp: 85
Sky Conditions:	clear
Meteorological Events:	
Wind Speed:	— Direction:

l To:	
Name:	SEQUOIA
Address:	885 Jarvis Dr.
	Morgan Hill, CA 95037
PM	Lisa Race
Fax:	408-782-8156 / 408-782-6308
rt Type & QC Level:	1 Send EDF Reports
EM Account No.:	400-6-21124

BP/GEM Facility No.:	11126
BP/GEM Facility Address:	1700 POWELL ST., EMERYVILLE, CA
Site ID No.	11126
Site Lat/Long:	
California Global ID #:	T0600100209
BP/GEM PM Contact:	PAUL SUPPLE
Address:	P.O. Box 6549
	Moraga, CA 94570
Tele/Fax:	925-299-8891/925-299-8872

Consultant/Contractor:	URS
Address:	1333 Broadway, Suite 800
	Oakland, CA 94612
e-mail EDD:	dennis_cooper@URSCorp.com
Consultant/Contractor Project No.:	
Consultant Tele/Fax:	510-893-3600/510-874-3268
Consultant/Contractor PM:	Leonard Niles
Invoice to:	Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Work Release No:	

Bottle Order No:

No.	Sample Description	Time	Matrix: Soil/Solid	Water/Liquid	Sediments	Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	Requested Analysis: 8015* Ethanol (8260)	GRO/BTEX/MTBE 1,000 µg/L	GRO/BTEX/MTBE 50,000 µg/L
	MW-1B	1455		X				3				X	X	**	*
	MW-2B	1540		X				3				X	X	**	*
	MW-3B	1350		X				3				X	X	**	*
	MW-4B	1600		X				3				X	X	**	*
	MW-5B	1330		X				3				X	X	**	*
	MW-6B	1415		X				3				X	X		*
	MW-7B	1435		X				3				X	X		*
	MW-8B	1510		X				3				X	X		*
	MW-9B	1610		X				3				X	X	**	*

Don't report methanol, only ethanol

Sample Point Lat/Long and Comments

* elevated GRO/MTBE (historical data)

GRO/BTEX/MTBE *

Green Concentrations are elevated and multiple dilutions may be required

Light Shading for ethanol analyses.

SHEEN

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
ler's Name: Brian Allen						
ler's Company: Blaine Tech Services						
ment Date:						
t Method:						
cking No:						

ings: Address Invoice to BP/GEM but send to URS for approval;

e Yes No Temperature Blank Yes No Coolat Temperature on Receipt °F/C Trip Blank Yes No

AUG-27-2004 17:06 URS CORPORATION 510 893 3317 P.02/02

Original + **REVISED #4**

Page 2 of 2

Chain of Custody Record

Project Name 11126 GWM
BP BU/GEM CO Portfolio Retail (MNL0029)
BP Laboratory Contract Number: Atlantic Richfield Company
Date: 8/26/04 **Requested Due Date (mm/dd/yy)** 14 day TAT

On-site Time: 1215	Temp: 85
Off-site Time: 1630	Temp: 85
Sky Conditions: clear	
Meteorological Events:	
Wind Speed: —	Direction:

Send To:	
Lab Name: SEQUOIA	
Lab Address: 885 Jarvis Dr.	
Morgan Hill, CA 95037	
Lab PM Lisa Race	
Tele/Fax: 408-782-8156 / 408-782-6308	
Report Type & QC Level: 1 Send EDF Reports	
BP/GEM Account No.: 400-6-21124	

BP/GEM Facility No.: 11126	
BP/GEM Facility Address: 1700 POWELL ST., EMERYVILLE, CA	
Site ID No. 11126	
Site Lat/Long:	
California Global ID #: T0600100208	
BP/GEM PM Contact: PAUL SUPPLE	
Address: P.O. Box 6549	
Moraga, CA 94570	
Tele/Fax: 925-299-8891/925-299-8872	

Consultant/Contractor: URS	
Address: 1333 Broadway, Suite 800	
Oakland, CA 94612	
e-mail EDD: donna_cosper@URSCorp.com	
Consultant/Contractor Project No.:	
Consultant Tele/Fax: 510-893-3600/510-874-3268	
Consultant/Contractor PM: Leonard Niles	
Invoice to: Consultant/Contractor or BP/GEM (Circle one)	
BP/GEM Work Release No:	

Lab Bottle Order No:

Item No.	Sample Description	Time	Matrix: Soil/Solid	Water/Liquid	Sediments	Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	Requested Analysis: STEX + MTBE*	Ethanol (8260)	Sample Point Lat/Long and Comments
1	MW-1B	1455		X			MNL0029-01	3				X	X		GRO/BTEX/MTBE*
2	MW-2B	1540		X			02	3				X	X		Sheen Concentrations are
3	MW-3B	1350		X			03	3				X	X		elevated and multiple
4	MW-4B	1600		X			04	3				X	X		dilutions may be required
5	MW-5B	1330		X			05	3				X	X		Light Sheen for ethanol analyses.
6	MW-6B	1415		X			06	3				X	X		
7	MW-7B	1435		X			07	3				X	X		
8	MW-8B	1510		X			08	3				X	X		
9	MW-9B	1610		X			09	3				X	X		Heavy Sheen
10															

Sampler's Name: Brian Aleem	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Blaine Tech Services		8/27	930		8/27	9:30
Shipment Date:		8/27	1705	MW (XH)	8/27	17:05
Shipment Method:						
Shipment Tracking No:						

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

Preservative Yes X No ___ Temperature Blank Yes X No ___ Cooler Temperature on Receipt ___ °F/C Trip Blank Yes X No

ATTACHMENT D

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

UPLOADING A GEO_WELL FILE

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

Submittal Title:	**Third Quarter 2004 QMR. Site #11126**
Submittal Date/Time:	**9/23/2004 4:23:37 PM**
Confirmation Number:	**6711150944**

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CONTACT SITE ADMINISTRATOR.

Electronic Submittal Information

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SUCCESSFUL EDF CHECK - NO ERRORS

ORGANIZATION NAME:	URS Corporation-Oakland Office
USER NAME:	URSCORP-OAKLAND
DATE CHECKED:	9/30/2004 11:14:53 AM
GLOBAL ID:	T0600100208
FILE UPLOADED:	BP#11126-EDF-MNI0021.zip

No errors were found in your EDF upload file.

If you want to submit this file to the SWRCB, choose the "Upload EDD" option in the above menu and follow the instructions.

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

Click here to view the detections report for this upload.

BP MOBIL
1700 POWELL ST
EMERYVILLE, CA 94608

Regional Board - Case #: 01-0222
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
Local Agency (lead agency) - Case #: 4050
ALAMEDA COUNTY LOP - **(RWS)**

SAMPLE DETECTIONS REPORT

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

METHOD QA/QC REPORT

METHODS USED	8260FA,E1664A,SW8015B,SW8260B
TESTED FOR REQUIRED ANALYTES?	Y
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	2
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	N
- MATRIX SPIKE DUPLICATE	N
- BLANK SPIKE	Y
- SURROGATE SPIKE - NON-STANDARD SURROGATE USED	Y

WATER SAMPLES FOR 8021/8260 SERIES

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%	N

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

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as URSCORP-OAKLAND (CONTRACTOR) CONTACT SITE ADMINISTRATOR.

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

Your EDF file has been succcessfully uploaded!

Confirmation Number: 7752861917
Date/Time of Submittal: 9/30/2004 11:24:10 AM
Facility Global ID: T0600100208
Facility Name: BP MOBIL
Submittal Title: Third Quarter 2004 QMR Site 11126
Submittal Type: GW Monitoring Report

Click here to view the detections report for this upload.

BP MOBIL
1700 POWELL ST
EMERYVILLE, CA 94608

Regional Board - Case #: 01-0222
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
Local Agency (lead agency) - Case #: 4050
ALAMEDA COUNTY LOP - **(RWS)**

CONF #	TITLE	QUARTER
7752861917	Third Quarter 2004 QMR Site 11126	Q3 2004

SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	9/30/2004	PENDING REVIEW

SAMPLE DETECTIONS REPORT

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

METHOD QA/QC REPORT

METHODS USED	8260FA,E1664A,SW8015B,SW8260B
TESTED FOR REQUIRED ANALYTES?	Y
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	2
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	N
- MATRIX SPIKE DUPLICATE	N
- BLANK SPIKE	Y
- SURROGATE SPIKE - NON-STANDARD SURROGATE USED	Y

WATER SAMPLES FOR 8021/8260 SERIES

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%	N

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

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as URSCORP-OAKLAND (CONTRACTOR) CONTACT SITE ADMINISTRATOR.

ATTACHMENT E

GROUNDWATER BATCH EXTRACTION FIELD LOGS

Field Report

Field Office: OAKLAND, CA	Date: 091404	
	Job No:	Task No:
	Project: 11126	
Prepared By: R. MURDAY	Location: EMERYVILLE, CA	
To:	Weather:	Temp.:
	Client: BP	
	Contractor: URS CORP.	
Attn:		
Page:	of	

7:55 - ARRIVE ONSITE. DILLON MURDAY ONSITE.

	INITIAL DTW	TIME	POST MW-9 EXTRACTION	TIME	FINAL DTW	TIME	
MW-1	~~13.97~~	~~8:20~~ 8:31	3.40	8:55	4.03	10:10	CAP BROKEN
MW-2	4.63	8:13	4.64	8:47	5.34	10:04	
MW-4	5.77	8:21	5.66	8:51	10.25	9:56	
MW-8	4.71	8:00	4.75	8:54	8.96	~~9:26~~ 10:0	CAP BROKEN
MW-9	3.76	8:15			7.78	10:03	

8:39 - BEGIN EXTRACTING FROM MW-9

8:46 - END MW-9 EXTRACTION

8:58 - BEGIN EXTRACTION MW-1, MW-2, MW-4, MW-8

9:54 - END EXTRACTION

10:25 - DEPART SITE.

Equipment Used:

Contractor Hours:	Staff Hours:	Mileage:
Copies To:	Project Manager:	
	Reviewed By:	

SS
09/15/04

Former BP Service Station #11126
1700 Powell Street
Emeryville, California

Ground Water Monitoring Log

Date : 08 31 04 **Technician :** M Gomes

Well ID	Initial DTW	Time	Post MW-9 extraction	Time	Final DTW	Time	Comments
MW-1	3,49	0745	3,53	0819	5,30	0853	
MW-2	4,67	0747	4,46	0819	5,15	0856	
MW-4	6,50	0750	5,60	0821	9,35	0900	
MW-8	4,75	0742	4,74	0817	11,55	0849	
MW-9	3,84	0749			10,07	0903	Sheen

Final DTW is taken after extraction of MW-1, 2, 4 and 8.

Remarks: 0715- Arrived on site. Set up for GWE event
0755- Dillard truck arrives
0805- Start extraction event MW-9
0815- Stopped extraction on MW-9
0824- Started second round extraction MW-1, MW-2, 4, 8
0845- Stopped extraction.
0920- Left site.

SS
09/09/04

Former BP Service Station #11126
1700 Powell Street
Emeryville, California

Ground Water Monitoring Log

Date : 081704 **Technician :** M Gomez

Well ID	Initial DTW	Time	Post MW-9 extraction	Time	Final DTW	Time	Comments
MW-1	3.55	0834	3.47	0908	7.44	1009	
MW-2	4.80	0830	4.80	0910	5.70	1010	
MW-4	5.45	0833	5.20	0911	10.14	1013	
MW-8	4.75	0828	4.75	0907	10.39	1005	
MW-9	3.73	0831			8.53	1016	Has sheen

Final DTW is taken after extraction of MW-1, 2, 4 and 8.

Remarks: 0700- Arrived on site. Set up for GWE.

0850- Started GWE. MW-9
0905- Stopped extraction MW-9
0915- Started second round extration on MW-1, 2, 4, 8
1000- Stopped second round extration.
1016- Completed DTW
1045- Left site

SS
08/25/04

Field Report

Field Office: Oakland, CA	Date: 080304
	Project: 11126
Prepared By: Mike Gomes	Location: Emeryville
To:	Weather: Overcast / Temp. 60
	Client: BP
	Contractor: URS

Page ___ of ___

0755 - Arrived on site. Started setup to GWE.
Took DTW sounding after opening well and let them equilibrate.
Started @ 0830 did MW-9 GWE.
Stopped @ 0847 Took first round of DTW post MW-9

Did second GWE @ 0900 MW-1, 2, 4, 8.

Completed GWE. @ 0934
Second DTW completed @ 0954

Left site @ 1030

Note: While doing extraction, I plugged the well heads to apply more vac to well casing. This helped in pulling more outlying water into the well. This made a considerable difference in DTW measurements.

SS
08/06/04

Well	Pre DTW	Time	DWW Post MW-9 extraction	Time	After MW-1, 2 4, 8 DTW	Time
MW-1	5,89	0823	3,79	0850	7,43	0941
MW-2	4.80	0820	4,79	0851	5,72	0948
MW-4	6,93	0821	5,70	0856	10,12	0954
MW-8	4,66	0816	4,67	0849	10,40	0938
MW-9	3,87	0819	13,26	0854	10.52	0945

Started GWE MW-9 0830
Stopped MW-9 0847
Stopped GWE event 0934

Field Report

Field Office: Oakland, CA	Date: 072004
	Job No.:
	Project: 11126
Prepared By: Mike Gomes	Location: Emeryville
To:	Weather: Overcast / Temp. 61
	Client: BP
	Contractor: URS
Attn:	
Page ___ of ___	

0720 - Arrived on site. Setup for GWE event. Dillard scheduled for 0800.
Leonard Niles assigned to observe event and tour site.
Did DTW initial measure.
Did DTW past MW-9 extraction and took DTW MW-1, 2, 4, 8.
Had to shutdown operation due to gas truck delivery.
Continued GWE after truck departed.
1019 - Completed GWE event and put away hoses
1036 - Completed DTW measurments and secured all wells and well vaults.
Owner came over and asked some questions about what we were doing and I explained the water extraction process and how it helps in cleaning up a site. We had a very nice conversation.
1115 - Left site for next job.

File: Field Report Blank update

55
07/30/04

Former BP Service Station #11126
1700 Powell Street
Emeryville, California

Ground Water Monitoring Log

Date : 07 2004 **Technician :** M Gomes

Well ID	Initial DTW	Time	Post MW-9 extraction	Time	Final DTW	Time	Comments
MW-1	3,18	0843	3,25	0919	6,19	1028	
MW-2	4,77	0838	4,77	0916	8,26	1030	
MW-4	6,83	0841	5,70	0917	9,57	1033	
MW-8	4,71	0837	4,71	0914	10,00	1024	
MW-9	3,80	0840			9,27	1036	Sheen

Final DTW is taken after extraction of MW-1, 2, 4 and 8.

Remarks: 0852- Start extraction of MW-9
0907- Stopped extraction
0913- Gas truck came in and we had to stop GWE event until he unloaded.

0953- GWE event restarted, Extracting out of MW-1, 2, 4, 8
1019- Completed GWE MW-8, 1, 2, 4.
1036- Completed DTW Final and closed up wells.

Field Report

Field Office: Oakland, CA	Date: 070804
	Job No.:
	Project: 11126
Prepared By: Mike Gomes	Location:
To:	Weather: / Temp.
	Client: BP
	Contractor: URS
Attn:	
Page ____ of ____	

0645- Arrived on site. Dillard tanker on site. Driver is having breakfast. Started setting up for GWE event.

0746- Finished pre DTW readings. Waiting for delivery truck to move wader to position Dillard tanker for extraction.

0820- Started GWE, Dewatered MW-9
0835- Stopped GWE on MW-9
0845- Started second round MW-1, MW-8, MW-2 MW-4
0910- Stopped second round.
0922- Completed DTW Readings
0930- Dillard truck left site.
0945- Left site

Former BP Service Station #11126
1700 Powell Street
Emeryville, California

Ground Water Monitoring Log

Date : 070804 **Technician :** M Gomes

Well ID	Initial DTW	Time	Post MW-9 extraction	Time	Final DTW	Time	Comments
MW-1	4.22	0737	3.55	0844	6.35	0912	
MW-2	4.70	0742	4.69	0841	7.75	0915	
MW-4	4.15	0746	5.32	0842	8.88	0922	
MW-8	4.59	0734	4.60	0839	11.58	0913	
MW-9	3.76	0739	Dewatered		13.10	0919	Sheen visible

Remarks: Noticed some sheen on surface MW-9 but there was no free product layer when checked w/ dual phase probe.

SS
07/15/04

Field Report

Field Office: Oakland, CA	Date: 070604
	Job No.:
	Project: 11126
Prepared By: Mike Gomes	Location: Emeryville
To:	Weather: / Temp.
	Client: BP
	Contractor: URS
Attn:	
Page ___ of ___	

0800 - Arrived on site. Dillard truck has not arrived.

0820 - Talked w/ John Madigan and he had not set up a perm date w/ Dillard so a truck was not scheduled to come out.

825. Left site for next job.

File: Field Report Blank update

SS
07/07/04

Field Report

Field Office: Oakland, CA	Date: 06 25 04
	Job No.:
	Project: 11126
Prepared By: Mike Gomes	Location:
To:	Weather: / Temp.
	Client: BP
	Contractor: URS
Attn:	
Page ___ of ___	

0800- Arrived on site Dillard waiting

initial DTW measurement		Before 2,8,1,4 start 0945	After extraction of 2,8,1,4 stop 0934
Well ID	~~Pre~~ DTW	Post MW-9	Finish
MW-9	3.63	Extracting	11.37
MW-2	4.62	4.61	7.19
MW-8	4.63	4.63	9.23
MW-1	3.24	3.24	6.29
MW-4	7.92	6.42	8.83

DTW measurments were taken in order noted on chart. Extraction of wells 2,8,1,4 were in same order and completion of extraction DTW were taken in same order as extracted.

1001- Completed event,

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JUN 29 2004

BP UNIT

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SS
06/29/04

Field Report

Field Office: 1333 Broadway, Suite 800	Date: 060804
Oakland, CA 94612-1924	Job No.:
Phone 510-893-3600 Fax 510-874-3268	Project: 11126
Prepared By: Mike Gomes	Location: Emeryville
To:	Weather: Clear Temp. 69°F
	Client: BP
	Contractor: URS
Attn:	

Page 1 of 3

0815-
Arrived on site. Dillard will be late arriving. approx 0900.
~~Note~~ Walked site to get familiar w/ it. At this point realized I had no site map.
0904- Dillard truck arrived on site.
Called office and had map faxed to site.
Also did not have correct key for wells. Went to office and retrieved key from Lenard.
1206- Completed first round of DTW.
1210- Started extraction from MW-9
1230- Stopped extraction, measured DTW MW-1, 2, 4, 8

Field Report

Field Office: Oakland, CA	Date: 060804
	Job No.:
	Project: 11126
Prepared By: Mike Gomes	Location:
To:	Weather: / Temp.
	Client: BP
	Contractor: URS
Attn:	
Page 2 of 3	

MW-9 Pre Pump			Post extraction MW-9	
Well ID	DTW	DTFP	DTW	
MW-1	3.54		3.29	
MW-2	4.78		4.57	
MW-4	8.05		5.56	
~~MW-5~~				
~~MW-6~~				
MW-8	4.87		4.66	
MW-9	3.55			Sheen (Time 1308) DTW - 10.94
MW-7	5.57			
MW-3	5.24			

1210 - Start extraction on MW-9
1230 - Stopped extraction, Sounded MW-1, 2, 4, 8
1240 - Started extration on MW-8
1250 - Stopped extraction on MW-8
1251 - Started on MW-2
1302 - Stopped extraction of MW-2
1305 - Started extration MW-4
1315 - Stopped extraction on MW-5

Field Report

Field Office: 1333 Broadway, Suite 800	Date: 06 08 07
Oakland, CA 94612-1924	Job No.:
Phone 510-893-3600 Fax 510-874-3268	Project: 11126
Prepared By: Mike Gomes	Location:
To:	Weather: / Temp.
	Client: BP
	Contractor: URS
Attn:	

Page 3 of 3

1317- Started extraction back on MW-9 and dewatered.
1326- Stopped extraction on MW-9.

Well ID	DTW	Time
MW-1	3.20	1342
MW-2	8.54	1350
MW-4	7.65	1354
MW-8	8.66	1344
MW-9	13.10	1337

Note: MW-2 had alot of grit coming up the pipe that sounded like sand. After examining the inside of the hose we noticed coarse grained sand laying inside. This may indicate that the well casing could be ruptured.

Cleanup area checked well vaults.
1415- Left site