Atlantic Richfield Company
(a BP affiliated company)

6 Centerpointe Drive, Room 172
La Palma, CA 90623-1066
Phone: (714) 670-5303
Fax: (714) 670-5195

April 20, 2005

Re: First 2005 Semi-Annual Groundwater Monitoring Report
Former BP Service Station #11133
2220 98th Avenue
Oakland, CA
ACEHS Case No.: RO0000403

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

Submitted by:

Kyle Christie
Environmental Business Manager

URS

February 15, 2005

Mr. Robert Schultz
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-8577

RE: Electronic Report Submission

Dear Mr. Schultz:

The purpose of this letter is to inform you that on behalf of the Atlantic Richfield Company (RM), a BP affiliated company, URS Corporation (URS) will issue all future quarterly monitoring reports (QMR) electronically to the State Water Resources Control Board's GEOTRACKER website (http://www.geotracker.swrcb.ca.gov/). You may access your report directly from this website. If you would prefer to have a PDF copy e-mailed to you or if you would like to continue receiving a paper copy, please contact Rick Murray at (510) 874-1755.

If you have any questions regarding this submission, please call me at (510) 874-3125.

Sincerely,

URS CORPORATION

Rachel Lindvall
QMR Coordinator

URS Corporation
1333 Broadway, Suite 800
Oakland, CA 94612-1924
Tel: 510.893.3600
Fax: 510.874.3268

REPORT

FIRST 2005 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

FORMER BP SERVICE STATION #11133
2220 98TH AVENUE,
OAKLAND, CALIFORNIA

Prepared for
RM

April 20, 2005

URS
URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

URS

April 20, 2005

Mr. Robert Schultz
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Re: First 2005 Semi-Annual Groundwater Monitoring Report
Former BP Service Station #11133
2220 98th Avenue
Oakland, CA
ACEHS Case No.: RO0000403

Dear Mr. Schultz:

On behalf of the Atlantic Richfield Company (RM), a BP affiliated company, URS Corporation (URS) is submitting the *First 2005 Semi-Annual Groundwater Monitoring Report* for the Former BP Service Station #11133, located at 2220 98th Avenue, Oakland, California.

If you have any questions regarding this submission, please call (510) 874-1758.

Sincerely,

URS CORPORATION

Lynelle Onishi
Project Manager

Barbara J. Jakub, P.G.
Senior Geologist

REGISTERED GEOLOGIST
BARBARA J JAKUB
No. 7304
STATE OF CALIFORNIA

Enclosure: First 2005 Semi-Annual Groundwater Monitoring Report

cc: Mr. Kyle Christie, RM, (electronic copy uploaded to ENFOS)
Ms. Liz Sewell, ConocoPhilips, (electronic copy saved to URS ftp site)

URS Corporation
1333 Broadway, Suite 800
Oakland, CA 94612-1924
Tel: 510.893.3600
Fax: 510.874.3268

Date: April 20, 2005
Quarter: 1Q 05

RM FIRST SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Facility No.:	11133	Address:	2220 98th Avenue, Oakland, CA
RM Environmental Business Manager:			Kyle Christie
Consulting Co./Contact Person:			URS Corporation / Lynelle Onishi
Primary Agency:			Alameda Country Environmental Health Services (ACEHS)
ACEHS Case #:			RO0000403

WORK PERFORMED THIS QUARTER (First – 2005):

1. Performed first 2005 semi-annual groundwater monitoring event on March 16, 2005, which included the gauging and sampling of all site wells and geochemical and microbiological parameters on specific wells.
2. Prepared and submitted fourth quarter 2004 status report.
3. Performed semi-annual free product measurement in well RW-1.

WORK PROPOSED FOR NEXT QUARTER (Second – 2005):

1. Prepare and submit this first semi-annual 2005 groundwater monitoring report.
2. Prepare and submit the Soil and Groundwater Investigation Workplan requested by ACEHS on January 25, 2005.

Current Phase of Project:	GW monitoring/sampling
Frequency of Groundwater Sampling:	Semi-annual (1st and 3rd quarters): Wells MW-1, MW-3, AW-1, AW-4, AW-5, AW-6, RW-1 Annual (1st quarter); AW-2 Semi-annual free product gauging: RW-1 Not Sampled: MW-2, AW-3, AW-7, AW-8 and AW-9
Frequency of Groundwater Monitoring:	Semi-annual
Is Free Product (FP) Present On-Site:	No
Current Remediation Techniques:	None
Approximate Depth to Groundwater:	8.39 (MW-2) to 18.78 (AW-1) feet
Groundwater Gradient (direction):	Variable; Southwest to Northeast
Groundwater Gradient (magnitude):	Variable; 0.03 to 0.08 feet per foot

DISCUSSION:

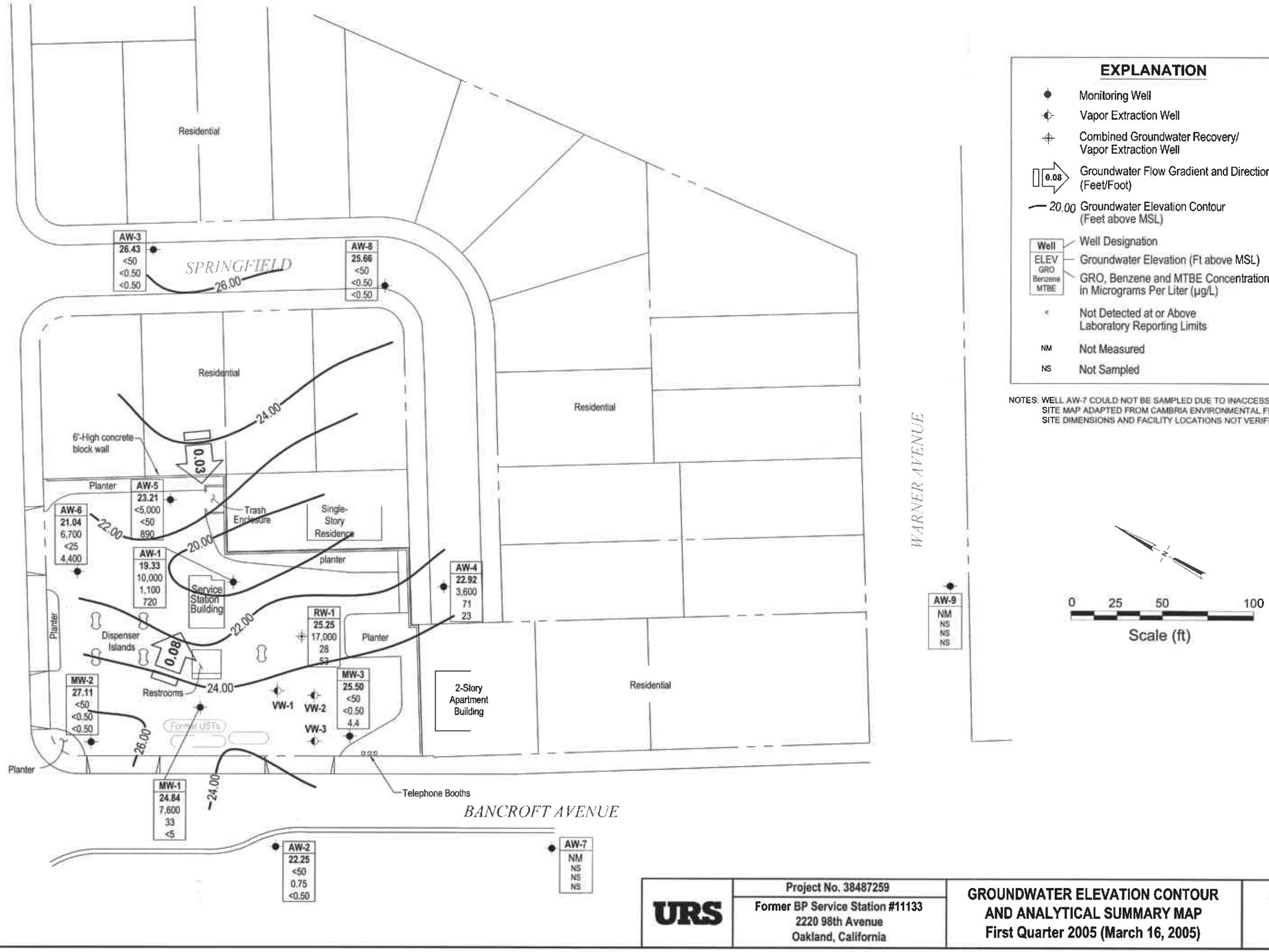
Gasoline range organics (GRO) were detected at or above the laboratory reporting limits in five of the eleven wells sampled this quarter at concentrations ranging from 3,600 micrograms per liter (µg/L) (AW-4) to 17,000 µg/L (RW-1). Benzene was detected at or above the laboratory reporting limits in five wells at concentrations ranging from 0.75 µg/L (AW-2) to 1,100 µg/L (AW-1). Methyl tert-butyl ether (MTBE) was detected at or above the laboratory reporting limits in six wells sampled at concentrations ranging from 4.4 µg/L (MW-3) to 4,400 µg/L

(AW-6). Tert-butyl alcohol (TBA) was detected at or above the laboratory reporting limits in one well at a concentration of 2,100 µg/L (AW-5). Tert-amyl mether ether (TAME) was detected at or above the laboratory reporting limits in three wells at concentrations ranging from 130 µg/L (AW-1) to 1,400 µg/L (AW-6). No other fuel additives were detected above their respective laboratory reporting limits.

As approved by the ACEHS in a directive letter dated January 25, 2005, a comprehensive well sampling event was conducted First Quarter 2005. The comprehensive sampling event included all of the Site wells, including those that are not part of the groundwater monitoring program (MW-2, AW-3, AW-7, AW-8 and AW-9). In adition, wells MW-1, MW-2, AW-1 and AW-4 were sampled for bioparameterrs to assist with the evaluation of in-situ remediation options for the Site. A discussion of the results from the comprehensive and bioparameters sampling event will be provided in the *Soil and Groundwater Investigation Work Plan*.

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – March 16, 2005
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Additives Analytical Data
- Table 3 – Geochemical/Microorganism Parameters
- Attachment A – Field Procedures and Field Data Sheets
- Attachment B – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment C – Error Check Reports and EDF/Geowell Submittal Confirmation



EXPLANATION

- Monitoring Well
- Vapor Extraction Well
- Combined Groundwater Recovery/ Vapor Extraction Well
- 0.08 — Groundwater Flow Gradient and Direction (Feet/Foot)
- 20.00 — Groundwater Elevation Contour (Feet above MSL)
- Well — Well Designation
- ELEV — Groundwater Elevation (Ft above MSL)
- GRO / Benzene / MTBE — GRO, Benzene and MTBE Concentrations in Micrograms Per Liter (µg/L)
- < — Not Detected at or Above Laboratory Reporting Limits
- NM — Not Measured
- NS — Not Sampled

NOTES: WELL AW-7 COULD NOT BE SAMPLED DUE TO INACCESSIBILITY.
SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES.
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

URS	Project No. 38487259 Former BP Service Station #11133 2220 98th Avenue Oakland, California	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP First Quarter 2005 (March 16, 2005)	FIGURE 1

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Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
AW-1	4/5/1991	--	38.11	25.44	--	12.67	4,100	1,500	69	100	83	--	--	SUP	--	
	4/1/1992	--	38.11	23.22	--	14.89	--	--	--	--	--	--	--	---	--	
	4/2/1992	--	38.11	--	--	--	11,000	1,800	210	210	490	--	--	APP	--	
	7/6/1992	--	38.11	24.89	--	13.22	6,500	4,000	40	290	530	--	--	ANA	--	
	10/7/1992	--	38.11	--	--	--	2,900	1,200	25	37	210	--	--	ANA	--	e
	10/7/1992	--	38.11	26.55	--	11.56	4,700	1,500	41	47	300	--	--	ANA	--	
	1/14/1993	--	38.11	--	--	--	4,100	1,700	28	130	230	--	--	PACE	--	m, e
	1/14/1993	--	38.11	23.73	--	14.38	2,800	830	31	140	240	--	--	PACE	--	m
	4/22/1993	--	38.11	--	--	--	39,000	14,000	530	1,800	6,100	987	--	PACE	--	c, m
	7/15/1993	--	38.11	22.50	--	15.61	6,200	2,200	28	210	540	838	--	PACE	--	c, m
	10/21/1993	--	38.11	24.32	--	13.79	2,400	820	13	55	120	832	--	PACE	--	c, m
	1/27/1994	--	38.11	23.72	--	14.39	3,500	1,400	26	130	220	650	--	PACE	--	c, n
	4/21/1994	--	38.11	22.48	--	15.63	40,000	12,000	1,900	1,600	5,000	1,119	1.4	PACE	--	m
	9/9/1994	--	38.11	--	--	--	3,900	1,900	5.5	190	240	--	--	PACE	--	e
	9/9/1994	--	38.11	23.04	--	15.07	3,500	1,600	5	200	250	--	2.1	PACE	--	m
	12/21/1994	--	38.11	21.70	--	16.41	7,600	3,100	36	370	320	855	1.6	PACE	--	m
	1/30/1995	--	38.11	17.71	--	20.40	35,000	23,000	650	3,200	4,100	--	1.7	ATI	--	
	4/10/1995	--	38.11	--	--	--	56,000	17,000	2,000	3,900	10,000	--	--	ATI	--	e
	4/10/1995	--	38.11	20.04	--	18.07	60,000	18,000	2,000	4,300	11,000	--	7.9	ATI	--	
	6/29/1995	--	38.11	--	--	--	86,000	12,000	8,400	4,800	18,000	--	--	ATI	--	e
	6/29/1995	--	38.11	20.60	--	17.51	72,000	10,000	7,300	4,200	15,000	--	6.2	ATI	--	
	9/18/1995	--	38.11	21.87	--	16.24	--	--	--	--	--	--	--	---	--	
	9/19/1995	--	38.11	--	--	--	65,000	12,000	3,100	4,400	14,000	1,000	8.5	ATI	--	
	12/7/1995	--	38.11	22.06	--	16.05	25,000	8,700	<50	2,500	1,300	1,100	2.9	ATI	--	
	3/28/1996	--	38.11	16.91	--	21.20	24,000	11,000	<100	3,200	3,390	<1000	6.6	SPL	--	
	6/20/1996	--	38.11	20.82	--	17.29	38,000	6,900	1,100	3,200	7,300	<100	6.4	SPL	--	
	10/11/1996	--	38.11	23.20	--	14.91	33,000	8,500	69	3,300	4,230	580	6.3	SPL	--	
	1/2/1997	--	38.11	20.41	--	17.70	32,000	8,000	<50	3,100	2,300	700	6.7	SPL	--	
	4/14/1997	--	38.11	21.61	--	16.50	--	--	--	--	--	--	--	---	--	
	4/15/1997	--	38.11	--	--	--	31,000	5,000	160	2,400	4,540	340	5.4	SPL	--	
	7/2/1997	--	38.11	21.17	--	16.94	26,000	5,800	<100	2,600	2,200	<1000	6.2	SPL	--	
	9/30/1997	--	38.11	21.48	--	16.63	29,000	9,200	17	1,400	130	560	6.9	SPL	--	
	1/21/1998	--	38.11	20.02	--	18.09	50,000	6,900	450	3,200	4,450	720	5.8	SPL	--	
	4/9/1998	--	38.11	13.37	--	24.74	--	--	--	--	--	--	--	---	--	

Table 1

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Former BP Station #11133
2220 98th Ave., Oakland, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
AW-1	4/10/1998	--	38.11	--	--	--	46,000	5,800	1,900	3,000	7,400	1,000	4.3	SPL	--	
	6/19/1998	--	38.11	--	--	--	43,000	6,800	260	3,100	3,490	620	--	SPL	--	e
	6/19/1998	--	38.11	19.12	--	18.99	42,000	6,600	200	3,000	3,350	660	4.9	SPL	--	
	11/30/1998	--	38.11	21.13	--	16.98	23,000	6,700	<25	3,100	130	710/820	--	SPL	--	g
	1/21/1999	--	38.11	20.77	--	17.34	25,000	4,800	54	2,800	780	1,000	--	SPL	--	
	4/30/1999	--	38.11	20.80	--	17.31	21,000	5,300	67	2,800	750	1,500	--	SPL	--	
	7/9/1999	--	38.11	20.41	--	17.70	11,000	3,000	<10	760	180	1,300	--	SPL	--	
	11/3/1999	--	38.11	20.82	--	17.29	--	--	--	--	--	--	--	---	--	
	1/12/2000	--	38.11	19.99	--	18.12	330,000	5,300	10	2,900	560	2,200	--	PACE	--	
	4/13/2000	--	38.11	20.14	--	17.97	--	--	--	--	--	--	--	---	--	
	5/24/2000	--	38.11	20.17	--	17.94	--	--	--	--	--	--	--	---	--	
	6/1/2000	--	38.11	23.05	--	15.06	--	--	--	--	--	--	--	---	--	
	6/8/2000	--	38.11	17.08	--	21.03	--	--	--	--	--	--	--	---	--	
	6/15/2000	--	38.11	16.93	--	21.18	--	--	--	--	--	--	--	---	--	
	7/26/2000	--	38.11	20.07	--	18.04	15,000	290	98	77	220	37,000	--	PACE	--	
	10/24/2000	--	38.11	20.10	--	18.01	--	--	--	--	--	--	--	---	--	
	1/19/2001	--	38.11	19.82	--	18.29	7,600	2,220	10.9	415	58.4	1,630	--	PACE	--	
	7/24/2001	--	38.11	19.86	--	18.25	9,600	2,140	6.34	281	43	1,440	--	PACE	--	
	1/18/2002	--	38.11	15.60	--	22.51	20,000	2,170	75.2	1,800	2,080	1,250	--	PACE	--	
	8/1/2002	--	38.11	19.55	--	18.56	14,000	2,150	<12.5	197	42.4	1,120	--	PACE	--	
	1/16/2003	--	38.11	16.32	--	21.79	15,000	2,300	75	1,600	1,800	1,100	--	SEQ	--	p
	7/7/2003	--	38.11	19.80	--	18.31	9,700	1,600	<25	540	110	1,100	--	SEQ	--	q, u
	02/05/2004	--	38.11	18.75	--	19.36	12,000	2,000	<50	820	590	930	--	SEQM	6.7	
	07/01/2004	P	38.11	19.72	--	18.39	9,900	2,600	<25	300	<25	1,100	--	SEQM	6.5	
	03/16/2005	**P**	**38.11**	**18.78**	**--**	**19.33**	**10,000**	**1,100**	**30**	**630**	**560**	**720**	**0.8**	**SEQM**	**6.7**	
AW-2	4/5/1991	--	36.83	22.36	--	14.47	<50	<0.3	<0.3	<0.3	<0.3	--	--	SUP	--	
	4/1/1992	--	36.83	20.81	--	16.02	--	--	--	--	--	--	--	---	--	
	4/2/1992	--	36.83	--	--	--	130	25	2.3	0.7	2.1	--	--	APP	--	
	7/6/1992	--	36.83	23.57	--	13.26	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
	10/7/1992	--	36.83	25.24	--	11.59	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
	1/14/1993	--	36.83	20.82	--	16.01	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	m
	4/22/1993	--	36.83	19.37	--	17.46	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	m
	7/15/1993	--	36.83	21.29	--	15.54	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	m

Table 1

Groundwater Elevation and Analytical Data

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Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
AW-2	10/21/1993	--	36.83	23.14	--	13.69	<50	1.3	1.1	0.9	2.1	<5.0	--	PACE	--	m
	1/27/1994	--	36.83	22.34	--	14.49	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	m
	4/21/1994	--	36.83	21.15	--	15.68	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.0	PACE	--	m
	9/9/1994	--	36.83	22.09	--	14.74	<50	<0.5	<0.5	<0.5	<0.5	--	4.1	PACE	--	m
	12/21/1994	--	36.83	20.12	--	16.71	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.0	PACE	--	m
	1/30/1995	--	36.83	16.65	--	20.18	<50	<0.50	<0.50	<0.50	<1.0	--	2.5	ATI	--	
	4/10/1995	--	36.83	16.22	--	20.61	<50	<0.50	<0.50	<0.50	<1.0	--	4.4	ATI	--	
	6/29/1995	--	36.83	17.55	--	19.28	<50	<0.50	<0.50	<0.50	<1.0	--	7.8	ATI	--	
	9/18/1995	--	36.83	19.87	--	16.96	--	--	--	--	--	--	--	---	--	
	9/19/1995	--	36.83	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	e
	9/19/1995	--	36.83	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	4.5	ATI	--	
	12/7/1995	--	36.83	21.31	--	15.52	<50	<0.50	<0.50	<0.50	<1.0	<5.0	4.9	ATI	--	
	3/28/1996	--	36.83	15.61	--	21.22	<50	<0.5	<1	<1	<1	<10	4.1	SPL	--	
	6/20/1996	--	36.83	16.30	--	20.53	<50	<0.5	<1	<1	<1	<10	5.2	SPL	--	
	10/11/1996	--	36.83	19.60	--	17.23	<50	<0.5	<1.0	<1.0	<1.0	<10	6.0	SPL	--	
	1/2/1997	--	36.83	15.97	--	20.86	<50	<0.5	<1.0	<1.0	<1.0	<10	6.1	SPL	--	
	4/14/1997	--	36.83	17.19	--	19.64	<50	<0.5	<1.0	<1.0	<1.0	<10	5.3	SPL	--	
	7/2/1997	--	36.83	18.11	--	18.72	<50	<0.5	<1.0	<1.0	<1.0	<10	5.7	SPL	--	
	9/30/1997	--	36.83	18.52	--	18.31	<50	<0.5	<1.0	<1.0	<1.0	860	5.4	SPL	--	
	1/21/1998	--	36.83	14.46	--	22.37	160	13	<1.0	<1.0	<1.0	110	4.9	SPL	--	
	4/9/1998	--	36.83	12.85	--	23.98	--	--	--	--	--	--	--	---	--	
	4/10/1998	--	36.83	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	3.9	SPL	--	
	6/19/1998	--	36.83	14.37	--	22.46	60	<0.5	<1.0	<1.0	<1.0	<10	3.6	SPL	--	
	11/30/1998	--	36.83	16.90	--	19.93	--	--	--	--	--	--	--	---	--	
	1/21/1999	--	36.83	16.87	--	19.96	<50	<1.0	<1.0	<1.0	<1.0	<1.0	--	SPL	--	
	4/30/1999	--	36.83	17.01	--	19.82	--	--	--	--	--	--	--	---	--	
	7/9/1999	--	36.83	17.83	--	19.00	--	--	--	--	--	--	--	---	--	
	11/3/1999	--	36.83	19.74	--	17.09	--	--	--	--	--	--	--	---	--	
	1/12/2000	--	36.83	19.90	--	16.93	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	PACE	--	
	4/13/2000	--	36.83	19.75	--	17.08	--	--	--	--	--	--	--	---	--	
	7/26/2000	--	36.83	19.86	--	16.97	--	--	--	--	--	--	--	---	--	
	10/24/2000	--	36.83	18.77	--	18.06	--	--	--	--	--	--	--	---	--	
	1/19/2001	--	36.83	--	--	--	--	--	--	--	--	--	--	---	--	f
	7/24/2001	--	36.83	--	--	--	--	--	--	--	--	--	--	---	--	f

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
AW-2	1/18/2002	--	36.83	15.17	--	21.66	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--	PACE	--	
	8/1/2002	--	36.83	17.17	--	19.66	--	--	--	--	--	--	--	---	--	
	1/16/2003	--	36.83	14.81	--	22.02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	SEQ	--	p
	7/7/2003	--	36.83	16.65	--	20.18	--	--	--	--	--	--	--	---	--	
	02/05/2004	--	36.83	15.37	--	21.46	<50	3.0	<0.50	<0.50	<0.50	5.1	--	SEQM	--	
	07/01/2004	--	36.83	17.55	--	19.28	--	--	--	--	--	--	--	--	--	
	03/16/2005	**P**	**36.83**	**14.58**	**--**	**22.25**	**<50**	**0.75**	**<0.50**	**1.1**	**1.1**	**<0.50**	**1.7**	**SEQM**	**6.7**	
AW-3	4/5/1991	--	39.13	23.90	--	15.23	5,200	980	450	95	310	--	--	SUP	--	
	4/1/1992	--	39.13	22.50	--	16.63	4,700	890	47	43	110	--	--	APP	--	
	7/6/1992	--	39.13	23.26	--	15.87	3,900	3,100	30	80	99	--	--	ANA	--	
	10/7/1992	--	39.13	24.75	--	14.38	5,000	2,600	<0.5	<0.5	59	--	--	ANA	--	
	1/14/1993	--	39.13	23.59	--	15.54	350	250	<0.5	<0.5	<0.5	--	--	PACE	--	m
	4/22/1993	--	39.13	19.42	--	19.71	240	71	2.4	0.6	4	--	--	PACE	--	m
	7/15/1993	--	39.13	20.09	--	19.04	650	71	2.8	1.5	1.1	37.3	--	PACE	--	c, m
	10/21/1993	--	39.13	--	--	--	170	6.1	2	1.7	4.4	--	--	PACE	--	e
	10/21/1993	--	39.13	21.88	--	17.25	160	4.8	1.7	1.6	3.6	8.95	--	PACE	--	m
	1/27/1994	--	39.13	--	--	--	90	2.9	0.5	<0.5	<0.5	--	--	PACE	--	e
	1/27/1994	--	39.13	22.33	--	16.80	92	2.1	<0.5	<0.5	<0.5	7.37	--	PACE	--	m
	4/21/1994	--	39.13	20.96	--	18.17	150	3.6	0.8	0.9	2.5	9.36	1.3	PACE	--	m
	9/9/1994	--	39.13	21.60	--	17.53	53	<0.5	<0.5	<0.5	<0.5	--	1.9	PACE	--	m
	12/21/1994	--	39.13	--	--	--	--	--	--	--	--	--	--	---	--	f
	1/30/1995	--	39.13	--	--	--	--	--	--	--	--	--	--	---	--	f
	4/10/1995	--	39.13	--	--	--	--	--	--	--	--	--	--	---	--	f
	6/29/1995	--	39.13	15.41	--	23.72	<50	<0.50	<0.50	<0.50	<1.0	--	8.0	ATI	--	
	9/18/1995	--	39.13	17.83	--	21.30	--	--	--	--	--	--	--	---	--	
	9/19/1995	--	39.13	--	--	--	61,000	11,000	2,900	4,100	13,000	790	7.4	ATI	--	
	12/7/1995	--	39.13	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	e
	12/7/1995	--	39.13	19.27	--	19.86	<50	<0.50	<0.50	<0.50	<1.0	<5.0	3.4	ATI	--	
	3/28/1996	--	39.13	--	--	--	<50	<0.5	<1	<1	<1	<10	--	SPL	--	e
	3/28/1996	--	39.13	13.85	--	25.28	<50	<0.5	<1	<1	<1	<10	4.1	SPL	--	
	6/20/1996	--	39.13	--	--	--	<50	<0.5	<1	<1	<1	<10	--	SPL	--	e
	6/20/1996	--	39.13	14.47	--	24.66	<50	<0.5	<1	<1	<1	<10	4.2	SPL	--	
	10/11/1996	--	39.13	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	--	SPL	--	e

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
AW-3	10/11/1996	--	39.13	17.97	--	21.16	<50	<0.5	<1.0	<1.0	<1.0	<10	4.7	SPL	--	
	1/2/1997	--	39.13	13.00	--	26.13	<50	<0.5	<1.0	<1.0	<1.0	<10	5.6	SPL	--	
	4/14/1997	--	39.13	14.36	--	24.77	<50	<0.5	<1.0	<1.0	<1.0	<10	5.0	SPL	--	
	4/15/1997	--	39.13	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	--	SPL	--	e
	7/2/1997	--	39.13	15.87	--	23.26	<50	<0.5	<1.0	<1.0	<1.0	<10	5.4	SPL	--	
	9/30/1997	--	39.13	17.50	--	21.63	<250	<2.5	<5.0	<5.0	<5.0	810	5.7	SPL	--	
	1/21/1998	--	39.13	--	--	--	150	<0.5	<1.0	<1.0	1.2	110	--	SPL	--	e
	1/21/1998	--	39.13	11.98	--	27.15	140	<0.5	<1.0	<1.0	<1.0	99	4.6	SPL	--	
	4/9/1998	--	39.13	9.45	--	29.68	--	--	--	--	--	--	--	---	--	
	4/10/1998	--	39.13	--	--	--	<50	<0.5	<1.0	<1.0	1.6	<10	4.5	SPL	--	
	4/10/1998	--	39.13	--	--	--	<50	<0.5	<1.0	1.4	1.7	<10	--	SPL	--	e
	6/19/1998	--	39.13	12.13	--	27.00	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	SPL	--	
	11/30/1998	--	39.13	15.91	--	23.22	--	--	--	--	--	--	--	---	--	
	1/21/1999	--	39.13	15.93	--	23.20	<50	<1.0	<1.0	<1.0	<1.0	<1.0	--	SPL	--	
	4/30/1999	--	39.13	15.98	--	23.15	--	--	--	--	--	--	--	---	--	
	7/9/1999	--	39.13	14.58	--	24.55	--	--	--	--	--	--	--	---	--	
	11/3/1999	--	39.13	17.43	--	21.70	--	--	--	--	--	--	--	---	--	
	1/12/2000	--	39.13	18.30	--	20.83	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	PACE	--	
	4/13/2000	--	39.13	18.89	--	20.24	--	--	--	--	--	--	--	---	--	
	7/26/2000	--	39.13	18.67	--	20.46	--	--	--	--	--	--	--	---	--	
	10/24/2000	--	39.13	18.98	--	20.15	--	--	--	--	--	--	--	---	--	
	1/19/2001	--	39.13	16.74	--	22.39	--	--	--	--	--	--	--	---	--	
	7/24/2001	--	39.13	18.55	--	20.58	--	--	--	--	--	--	--	---	--	
	1/18/2002	--	39.13	14.49	--	24.64	--	--	--	--	--	--	--	---	--	
	8/1/2002	--	39.13	14.27	--	24.86	--	--	--	--	--	--	--	---	--	
	1/16/2003	--	39.13	14.25	--	24.88	--	--	--	--	--	--	--	---	--	
	7/7/2003	--	39.13	14.70	--	24.43	--	--	--	--	--	--	--	---	--	
	02/05/2004	--	39.13	14.61	--	24.52	--	--	--	--	--	--	--	--	--	
	07/01/2004	--	39.13	15.62	--	23.51	--	--	--	--	--	--	--	--	--	
	03/16/2005	**P**	**39.13**	**12.70**	**--**	**26.43**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**1.1**	**SEQM**	**7.3**	
AW-4	4/5/1991	--	39.08	25.12	--	13.96	110,000	40,000	13,000	2,000	5,500	--	--	SUP	--	
	4/1/1992	--	39.08	--	--	--	210,000	55,000	23,000	2,900	7,000	--	--	APP	--	e
	4/1/1992	--	39.08	23.56	--	15.52	230,000	57,000	31,000	2,900	7,600	--	--	APP	--	

Table 1

Groundwater Elevation and Analytical Data

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Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
AW-4	7/6/1992	--	39.08	25.87	--	13.21	38,000	16,000	5,400	2,000	6,100	--	--	ANA	--	
	10/7/1992	--	39.08	27.53	--	11.55	120,000	41,000	26,000	4,700	13,000	--	--	ANA	--	
	1/14/1993	--	39.08	24.12	--	14.96	62,000	18,000	14,000	2,700	7,700	1,400	--	PACE	--	c, m
	4/22/1993	--	39.08	21.47	--	17.61	18,000	1,100	2,100	320	3,500	--	--	PACE	--	m
	7/15/1993	--	39.08	23.30	--	15.78	21,000	820	2,300	590	3,800	1,978	--	PACE	--	c, m
	10/21/1993	--	39.08	25.08	--	14.00	11,000	570	83	630	2,300	4,600	--	PACE	--	c, m
	1/27/1994	--	39.08	24.61	--	14.47	12,000	420	460	600	2,200	6,400	--	PACE	--	c, m
	4/21/1994	--	39.08	--	--	--	14,000	71	160	29	1,200	13,000	--	PACE	--	c, e
	4/21/1994	--	39.08	22.96	--	16.12	12,000	110	250	150	1,900	16,010	1.5	PACE	--	c, m
	9/9/1994	--	39.08	23.85	--	15.23	9,700	75	64	280	2,000	--	2.1	PACE	--	m
	12/21/1994	--	39.08	--	--	--	--	--	--	--	--	--	--	---	--	f
	1/30/1995	--	39.08	--	--	--	--	--	--	--	--	--	--	---	--	f
	4/10/1995	--	39.08	18.07	--	21.01	3,700	69	8.7	44	130	--	8.5	ATI	--	
	6/29/1995	--	39.08	19.25	--	19.83	8,000	62	190	190	1,100	--	7.5	ATI	--	
	9/18/1995	--	39.08	20.73	--	18.35	--	--	--	--	--	--	--	---	--	
	9/19/1995	--	39.08	--	--	--	12,000	660	1,600	200	1,900	7,100	8.3	ATI	--	
	12/7/1995	--	39.08	22.49	--	16.59	41,000	8,400	7,200	710	6,300	5,200	3.6	ATI	--	
	3/28/1996	--	39.08	16.49	--	22.59	--	--	--	--	--	--	--	---	--	f
	6/20/1996	--	39.08	16.00	--	23.08	<50	<0.5	<1	<1	<1	12	--	SPL	--	
	10/11/1996	--	39.08	19.52	--	19.56	36,000	12,000	5,500	<25	3,800	880/1000	6.2	SPL	--	g
	1/2/1997	--	39.08	--	--	--	<50	61	3.8	3.5	8.1	110	--	SPL	--	e
	1/2/1997	--	39.08	15.80	--	23.28	<50	<0.5	<1.0	<1.0	<1.0	22	6.4	SPL	--	
	4/14/1997	--	39.08	17.01	--	22.07	--	--	--	--	--	--	--	---	--	
	4/15/1997	--	39.08	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	5.4	SPL	--	
	7/2/1997	--	39.08	19.68	--	19.40	<50	21	<1.0	<1.0	<1.0	41	4.1	SPL	--	
	9/30/1997	--	39.08	22.71	--	16.37	--	--	--	--	--	--	--	---	--	f
	1/21/1998	--	39.08	15.89	--	23.19	13,000	2,900	<10	230	314	3,100	3.9	SPL	--	
	4/9/1998	--	39.08	13.50	--	25.58	--	--	--	--	--	--	--	---	--	
	4/10/1998	--	39.08	--	--	--	890	<0.5	<1	<1	<1	730	4.9	SPL	--	
	6/19/1998	--	39.08	14.75	--	24.33	60	<0.5	<1.0	<1.0	<1.0	34	4.3	SPL	--	
	11/30/1998	--	39.08	19.25	--	19.83	--	--	--	--	--	--	--	---	--	
	1/21/1999	--	39.08	18.94	--	20.14	3,700	830	93	200	360	30	--	---	--	
	4/30/1999	--	39.08	19.10	--	19.98	--	--	--	--	--	--	--	---	--	
	7/9/1999	--	39.08	18.93	--	20.15	76,000	12,000	6,600	2,000	8,700	320	--	SPL	--	

Table 1

Groundwater Elevation and Analytical Data

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Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
AW-4	11/3/1999	--	39.08	20.65	--	18.43	--	--	--	--	--	--	--	---	--	
	1/12/2000	--	39.08	21.21	--	17.87	67,000	12,000	3,500	2,900	15,000	280	--	PACE	--	
	4/13/2000	--	39.08	21.33	--	17.75	--	--	--	--	--	--	--	---	--	
	5/24/2000	--	39.08	19.84	--	19.24	--	--	--	--	--	--	--	---	--	
	6/1/2000	--	39.08	19.04	--	20.04	--	--	--	--	--	--	--	---	--	
	6/8/2000	--	39.08	18.32	--	20.76	--	--	--	--	--	--	--	---	--	
	6/15/2000	--	39.08	16.70	--	22.38	--	--	--	--	--	--	--	---	--	
	7/26/2000	--	39.08	21.50	--	17.58	910	<0.5	<0.5	<0.5	<0.5	3,500	--	PACE	--	
	10/24/2000	--	39.08	22.00	--	17.08	--	--	--	--	--	--	--	---	--	
	1/19/2001	--	39.08	18.97	--	20.11	6,600	2,460	24	497	534	267	--	PACE	--	
	7/24/2001	--	39.08	18.55	--	20.53	5,100	1,080	143	409	827	115	--	PACE	--	
	1/18/2002	--	39.08	17.22	--	21.86	3,900	442	241	157	681	85.3	--	PACE	--	
	8/1/2002	--	39.08	--	--	--	--	--	--	--	--	--	--	---	--	f
	1/16/2003	--	39.08	16.85	--	22.23	2,900	260	160	120	590	<120	--	SEQ	--	p
	7/7/2003	--	39.08	17.94	--	21.14	600	90	7.9	18	36	56	--	SEQ	--	q
	02/05/2004	--	39.08	16.94	--	22.14	420	40	3.1	15	27	40	--	SEQM	6.8	
	07/01/2004	P	39.08	18.24	--	20.84	6,000	970	200	310	1,500	64	--	SEQM	6.7	
	03/16/2005	**P**	**39.08**	**16.16**	**--**	**22.92**	**3,600**	**71**	**31**	**200**	**870**	**23**	**0.6**	**SEQM**	**6.5**	
AW-5	4/5/1991	--	38.51	25.48	--	13.03	420	31	7.5	20	68	--	--	SUP	--	
	4/1/1992	--	38.51	23.95	--	14.56	--	--	--	--	--	--	--	---	--	
	4/2/1992	--	38.51	--	--	--	4,000	270	63	190	290	--	--	APP	--	
	7/6/1992	--	38.51	26.48	--	12.03	1,400	160	<2.5	250	58	--	--	ANA	--	
	10/7/1992	--	38.51	28.18	--	10.33	360	12	0.6	8.7	5	--	--	ANA	--	
	1/14/1993	--	38.51	24.15	--	14.36	1,700	270	7.5	130	62	--	--	PACE	--	m
	4/22/1993	--	38.51	--	--	--	3,500	780	29	240	210	--	--	PACE	--	m, e
	4/22/1993	--	38.51	22.43	--	16.08	2,700	780	30	220	180	--	--	PACE	--	m
	7/15/1993	--	38.51	--	--	--	1,300	68	8.3	64	99	<50	--	PACE	--	m, e
	7/15/1993	--	38.51	24.31	--	14.20	1,300	69	16	67	120	<50	--	PACE	--	m
	10/21/1993	--	38.51	26.05	--	12.46	510	9.6	1.5	17	45	75	--	PACE	--	c, m
	1/27/1994	--	38.51	26.42	--	12.09	420	3.3	<0.5	1	0.9	48.9	--	PACE	--	m
	4/21/1994	--	38.51	24.36	--	14.15	1,000	110	25	56	27	75	1.3	PACE	--	c, m
	9/9/1994	--	38.51	24.55	--	13.96	210	<0.5	<0.5	0.5	0.9	--	2.7	PACE	--	m
	12/21/1994	--	38.51	--	--	--	340	<0.5	15	3.3	1.4	104	--	PACE	--	m, e

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Groundwater Elevation and Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
AW-5	12/21/1994	--	38.51	22.30	--	16.21	410	<0.5	20	4.3	1.4	114	1.1	PACE	--	m
	1/30/1995	--	38.51	18.88	--	19.63	210	0.6	11	8.8	2	--	1.5	ATI	--	
	4/10/1995	--	38.51	18.44	--	20.07	500	1.4	0.59	6.5	4.3	--	8.3	ATI	--	
	6/29/1995	--	38.51	19.92	--	18.59	490	1.2	0.58	7.3	2.2	--	6.9	ATI	--	d
	9/18/1995	--	38.51	22.15	--	16.36	--	--	--	--	--	--	--	---	--	
	9/19/1995	--	38.51	--	--	--	260	0.62	<0.50	3.1	1.1	110	8.2	ATI	--	
	12/7/1995	--	38.51	23.75	--	14.76	60	<0.50	<0.50	<0.50	<1.0	210	4.3	ATI	--	
	3/28/1996	--	38.51	17.76	--	20.75	<50	<0.5	<1	<1	<1	63	3.0	SPL	--	
	6/20/1996	--	38.51	18.46	--	20.05	<50	<0.5	<1	<1	<1	<10	3.6	SPL	--	
	10/11/1996	--	38.51	21.84	--	16.67	<50	<0.5	<1.0	<1.0	<1.0	<10	4.5	SPL	--	
	1/2/1997	--	38.51	18.01	--	20.50	<50	<0.5	<1.0	<1.0	<1.0	<10	4.6	SPL	--	
	4/14/1997	--	38.51	19.35	--	19.16	<50	<0.5	<1.0	<1.0	<1.0	<10	5.1	SPL	--	
	7/2/1997	--	38.51	20.29	--	18.22	<50	<0.5	<1.0	<1.0	<1.0	<10	4.0	SPL	--	
	9/30/1997	--	38.51	23.15	--	15.36	<250	<2.5	<5.0	<5.0	<5.0	1,300	6.3	SPL	--	
	1/21/1998	--	38.51	17.33	--	21.18	6,100	<0.5	2.1	<1.0	<1.0	3,700	4.5	SPL	--	
	4/9/1998	--	38.51	15.25	--	23.26	--	--	--	--	--	--	--	---	--	
	4/10/1998	--	38.51	--	--	--	3,500	<0.5	<1.0	<1.0	<1.0	3,000	5.4	SPL	--	
	6/19/1998	--	38.51	17.39	--	21.12	3,300	<0.5	<1.0	<1.0	<1.0	2,500	5.2	SPL	--	
	11/30/1998	--	38.51	--	--	--	--	--	--	--	--	--	--	---	--	f
	1/21/1999	--	38.51	21.22	--	17.29	2,800	<1.0	<1.0	<1.0	<1.0	1,800	--	SPL	--	
	4/30/1999	--	38.51	21.50	--	17.01	--	--	--	--	--	--	--	---	--	
	7/9/1999	--	38.51	20.15	--	18.36	4,000	<1.0	<1.0	<1.0	<1.0	3400/3500	--	SPL	--	g
	11/3/1999	--	38.51	22.04	--	16.47	--	--	--	--	--	--	--	---	--	
	1/12/2000	--	38.51	22.59	--	15.92	1,000	7.3	30	6.7	40	4,600	--	PACE	--	j (TPH-g/GRO)
	4/13/2000	--	38.51	23.11	--	15.40	--	--	--	--	--	--	--	—	--	
	7/26/2000	--	38.51	22.72	--	15.79	1,800	94	35	5.9	27	16,000	--	PACE	--	
	10/24/2000	--	38.51	20.15	--	18.36	--	--	--	--	--	--	--	---	--	
	1/19/2001	--	38.51	19.79	--	18.72	2,600	<0.5	<0.5	<0.5	<0.5	4,580	--	PACE	--	
	7/24/2001	--	38.51	20.17	--	18.34	5,400	18.4	17.2	<12.5	40.8	5,170	--	PACE	--	
	1/18/2002	--	38.51	17.34	--	21.17	3,800	343	0.738	<0.5	<1.0	3,750	--	PACE	--	
	8/1/2002	--	38.51	19.49	--	19.02	5,300	<12.5	<12.5	<12.5	<25	3,470	--	PACE	--	
	1/16/2003	--	38.51	17.30	--	21.21	1,400	140	<10	<10	<10	1,600	--	SEQ	--	p
	7/7/2003	--	38.51	18.43	--	20.08	1,400	<10	<10	<10	<10	980	--	SEQ	--	q
	02/05/2004	--	38.51	17.24	--	21.27	1,800	<10	<10	<10	<10	810	--	SEQM	6.7	

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
AW-5	07/01/2004	P	38.51	19.43	--	19.08	1,100	<5.0	<5.0	<5.0	<5.0	550	--	SEQM	6.6	
	03/16/2005	**P**	**38.51**	**15.30**	**--**	**23.21**	**<5,000**	**<50**	**<50**	**<50**	**130**	**890**	**2.1**	**SEQM**	**6.7**	
AW-6	4/5/1991	--	37.08	22.48	--	14.60	1,100	80	19	1.4	230	--	--	SUP	--	
	4/1/1992	--	37.08	22.50	--	14.58	--	--	--	--	--	--	--	---	--	
	4/2/1992	--	37.08	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	APP	--	
	7/6/1992	--	37.08	22.74	--	14.34	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
	10/7/1992	--	37.08	24.64	--	12.44	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
	1/14/1993	--	37.08	22.36	--	14.72	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	m
	4/22/1993	--	37.08	22.82	--	14.26	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	m
	7/15/1993	--	37.08	20.49	--	16.59	<50	<0.5	<0.5	<0.5	0.8	<5.0	--	PACE	--	m
	10/21/1993	--	37.08	22.84	--	14.24	<50	0.5	0.6	<0.5	0.7	<5.0	--	PACE	--	m
	1/27/1994	--	37.08	22.33	--	14.75	<50	<0.5	0.9	3.1	12	<5.0	--	PACE	--	m
	4/21/1994	--	37.08	20.66	--	16.42	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.7	PACE	--	m
	9/9/1994	--	37.08	21.57	--	15.51	<50	0.9	<0.5	<0.5	0.5	--	2.9	PACE	--	m
	12/21/1994	--	37.08	19.40	--	17.68	<50	1.8	0.8	0.8	3.2	5.19	1.1	PACE	--	m
	1/30/1995	--	37.08	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	ATI	--	e
	1/30/1995	--	37.08	16.74	--	20.34	<50	<0.50	<0.50	<0.50	<1.0	--	2.2	ATI	--	
	4/10/1995	--	37.08	16.01	--	21.07	<50	<0.50	<0.50	<0.50	<1.0	--	8.6	ATI	--	
	6/29/1995	--	37.08	17.54	--	19.54	<50	<0.50	<0.50	<0.50	<1.0	--	6.3	ATI	--	
	9/18/1995	--	37.08	19.65	--	17.43	--	--	--	--	--	--	--	---	--	
	9/19/1995	--	37.08	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	25	8.3	ATI	--	
	12/7/1995	--	37.08	20.35	--	16.73	<50	<0.50	<0.50	<0.50	<1.0	16	4.7	ATI	--	
	3/28/1996	--	37.08	14.99	--	22.09	<50	<0.5	<1	<1	<1	<10	4.0	SPL	--	
	6/20/1996	--	37.08	15.59	--	21.49	<50	<0.5	<1	<1	<1	<10	4.6	SPL	--	
	10/11/1996	--	37.08	19.09	--	17.99	<50	<0.5	<1.0	<1.0	<1.0	<10	5.3	SPL	--	
	1/2/1997	--	37.08	15.11	--	21.97	<50	<0.5	<1.0	<1.0	<1.0	<10	5.5	SPL	--	
	4/14/1997	--	37.08	16.25	--	20.83	<50	<0.5	<1.0	<1.0	<1.0	<10	3.9	SPL	--	
	7/2/1997	--	37.08	17.99	--	19.09	<50	<0.5	<1.0	<1.0	<1.0	<10	5.2	SPL	--	
	9/30/1997	--	37.08	20.50	--	16.58	<50	<0.5	<1.0	<1.0	<1.0	<10	6.0	SPL	--	
	1/21/1998	--	37.08	15.72	--	21.36	160	<0.5	<1.0	<1.0	<1.0	110	5.0	SPL	--	
	4/9/1998	--	37.08	13.31	--	23.77	--	--	--	--	--	--	--	---	--	
	4/10/1998	--	37.08	--	--	--	370	<0.5	<1.0	<1.0	<1.0	300	4.3	SPL	--	
	6/19/1998	--	37.08	15.18	--	21.90	830	2	<1.0	<1.0	<1.0	690	4.0	SPL	--	

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
AW-6	11/30/1998	--	37.08	--	--	--	--	--	--	--	--	--	--	---	--	f
	1/21/1999	--	37.08	15.78	--	21.30	2,300	<1.0	<1.0	<1.0	<1.0	1,900	--	SPL	--	
	4/30/1999	--	37.08	16.01	--	21.07	--	--	--	--	--	--	--	---	--	
	7/9/1999	--	37.08	17.63	--	19.45	--	--	--	--	--	--	--	---	--	
	11/3/1999	--	37.08	18.42	--	18.66	--	--	--	--	--	--	--	---	--	
	1/12/2000	--	37.08	19.92	--	17.16	<50	<0.5	<0.5	<0.5	<0.5	2,700	--	PACE	--	
	4/13/2000	--	37.08	19.87	--	17.21	--	--	--	--	--	--	--	---	--	
	7/26/2000	--	37.08	19.99	--	17.09	--	--	--	--	--	--	--	---	--	
	10/24/2000	--	37.08	18.12	--	18.96	--	--	--	--	--	--	--	---	--	
	1/19/2001	--	37.08	17.04	--	20.04	2,700	<0.5	<0.5	<0.5	<0.5	4,850	--	PACE	--	
	7/24/2001	--	37.08	17.83	--	19.25	--	--	--	--	--	--	--	---	--	
	1/18/2002	--	37.08	15.54	--	21.54	5,500	614	<0.5	<0.5	<1.0	5,390	--	PACE	--	
	8/1/2002	--	37.08	16.98	--	20.10	--	--	--	--	--	--	--	---	--	
	1/16/2003	--	37.08	15.05	--	22.03	2,900	<20	<20	<20	63	2,500	--	SEQ	--	p
	7/7/2003	--	37.08	16.58	--	20.50	--	--	--	--	--	--	--	---	--	
	02/05/2004	--	37.08	15.84	--	21.24	7,000	<50	<50	<50	<50	5,400	--	SEQM	6.7	
	07/01/2004	P	37.08	17.91	--	19.17	9,600	<50	<50	<50	<50	4,600	--	SEQM	6.5	
	03/16/2005	**P**	**37.08**	**16.04**	**--**	**21.04**	**6,700**	**<25**	**<25**	**<25**	**<25**	**4,400**	**3.0**	**SEQM**	**6.8**	
AW-7	4/5/1991	--	37.60	23.38	--	14.22	<50	0.4	0.7	<0.3	<0.3	--	--	SUP	--	
	4/1/1992	--	37.60	21.92	--	15.68	--	--	--	--	--	--	--	---	--	
	4/2/1992	--	37.60	--	--	--	<50	<0.5	3.2	1	5.4	--	--	APP	--	
	7/6/1992	--	37.60	24.50	--	13.10	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
	10/7/1992	--	37.60	26.18	--	11.42	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
	1/14/1993	--	37.60	22.03	--	15.57	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	m
	4/22/1993	--	37.60	21.18	--	16.42	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	m
	7/15/1993	--	37.60	22.09	--	15.51	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	m
	10/21/1993	--	37.60	24.05	--	13.55	51	5	4.2	3.5	8.2	<5.0	--	PACE	--	m
	1/27/1994	--	37.60	23.40	--	14.20	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	m
	4/21/1994	--	37.60	22.24	--	15.36	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.5	PACE	--	m
	9/9/1994	--	37.60	22.94	--	14.66	<50	<0.5	<0.5	<0.5	0.5	--	4.3	PACE	--	m
	12/21/1994	--	37.60	20.86	--	16.74	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.2	PACE	--	m
	1/30/1995	--	37.60	17.51	--	20.09	<50	<0.50	<0.50	<0.50	<1.0	--	2.7	ATI	--	
	4/10/1995	--	37.60	16.69	--	20.91	<50	<0.50	<0.50	<0.50	<1.0	--	4.8	ATI	--	

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
AW-7	6/29/1995	--	37.60	18.33	--	19.27	<50	<0.50	<0.50	<0.50	<1.0	--	7.6	ATI	--	
	9/18/1995	--	37.60	20.68	--	16.92	--	--	--	--	--	--	--	---	--	
	9/19/1995	--	37.60	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	5.1	ATI	--	
	12/7/1995	--	37.60	22.15	--	15.45	<50	<0.50	<0.50	<0.50	<1.0	<5.0	5.2	ATI	--	
	3/28/1996	--	37.60	16.38	--	21.22	<50	<0.5	<1	<1	<1	<10	3.9	SPL	--	
	6/20/1996	--	37.60	17.02	--	20.58	<50	<0.5	<1	<1	<1	<10	5.0	SPL	--	
	10/11/1996	--	37.60	20.47	--	17.13	<50	<0.5	<1.0	<1.0	<1.0	<10	6.3	SPL	--	
	1/2/1997	--	37.60	16.70	--	20.90	<50	<0.5	<1.0	<1.0	<1.0	<10	6.2	SPL	--	
	4/14/1997	--	37.60	17.96	--	19.64	<50	<0.5	<1.0	<1.0	<1.0	<10	5.0	SPL	--	
	7/2/1997	--	37.60	19.11	--	18.49	<50	<0.5	<1.0	<1.0	<1.0	<10	5.4	SPL	--	
	9/30/1997	--	37.60	22.97	--	14.63	<250	<2.5	<5.0	<5.0	<5.0	1,100	6.5	SPL	--	
	1/21/1998	--	37.60	16.50	--	21.10	<50	<0.5	<1.0	<1.0	<1.0	<10	4.9	SPL	--	
	4/9/1998	--	37.60	13.56	--	24.04	<50	<0.5	<1.0	<1.0	<1.0	<10	4.9	SPL	--	
	6/19/1998	--	37.60	15.41	--	22.19	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	SPL	--	
	11/30/1998	--	37.60	18.90	--	18.70	--	--	--	--	--	--	--	---	--	
	1/21/1999	--	37.60	18.39	--	19.21	--	--	--	--	--	--	--	---	--	
	4/30/1999	--	37.60	18.54	--	19.06	--	--	--	--	--	--	--	---	--	
	7/9/1999	--	37.60	17.98	--	19.62	--	--	--	--	--	--	--	---	--	
	11/3/1999	--	37.60	20.22	--	17.38	--	--	--	--	--	--	--	---	--	
	1/12/2000	--	37.60	19.46	--	18.14	--	--	--	--	--	--	--	---	--	
	4/13/2000	--	37.60	19.59	--	18.01	--	--	--	--	--	--	--	---	--	
	7/26/2000	--	37.60	19.69	--	17.91	--	--	--	--	--	--	--	---	--	
	10/24/2000	--	37.60	18.78	--	18.82	--	--	--	--	--	--	--	---	--	
	1/19/2001	--	37.60	--	--	--	--	--	--	--	--	--	--	---	--	f
	7/25/2001	--	37.60	--	--	--	--	--	--	--	--	--	--	---	--	f
	1/18/2002	--	37.60	--	--	--	--	--	--	--	--	--	--	---	--	o
	8/1/2002	--	37.60	--	--	--	--	--	--	--	--	--	--	---	--	o
	1/16/2003	--	37.60	--	--	--	--	--	--	--	--	--	--	---	--	o
	7/7/2003	--	37.60	--	--	--	--	--	--	--	--	--	--	---	--	o
	02/05/2004	--	37.60	--	--	--	--	--	--	--	--	--	--	--	--	o
	07/01/2004	--	37.60	--	--	--	--	--	--	--	--	--	--	--	--	o
	03/16/2005	--	**37.60**	--	--	--	--	--	--	--	--	--	--	--	--	o
AW-8	4/5/1991	--	40.86	26.68	--	14.18	80	1.9	2.2	0.5	1.3	--	--	SUP	--	

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
AW-8	4/1/1992	--	40.86	25.11	--	15.75	73	<0.5	0.7	<0.5	0.6	--	--	APP	--	
	7/6/1992	--	40.86	26.43	--	14.43	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
	10/7/1992	--	40.86	28.59	--	12.27	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
	1/14/1993	--	40.86	25.55	--	15.31	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	m
	4/22/1993	--	40.86	22.29	--	18.57	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	m
	7/15/1993	--	40.86	23.42	--	17.44	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	m
	10/21/1993	--	40.86	25.15	--	15.71	<50	1.9	1.8	1.3	3.3	<5.0	--	PACE	--	m
	1/27/1994	--	40.86	25.42	--	15.44	<50	<0.5	0.5	0.6	8.5	<5.0	--	PACE	--	m
	4/21/1994	--	40.86	24.14	--	16.72	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.5	PACE	--	m
	9/9/1994	--	40.86	24.55	--	16.31	<50	<0.5	<0.5	<0.5	<0.5	--	2.4	PACE	--	m
	12/21/1994	--	40.86	22.72	--	18.14	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.1	PACE	--	m
	1/30/1995	--	40.86	19.75	--	21.11	<50	<0.50	1	<0.50	1	--	0.8	ATI	--	
	4/10/1995	--	40.86	17.78	--	23.08	<50	<0.50	<0.50	<0.50	<1.0	--	8.3	ATI	--	
	6/29/1995	--	40.86	18.18	--	22.68	<50	<0.50	<0.50	<0.50	<1.0	--	8.3	ATI	--	
	9/18/1995	--	40.86	20.20	--	20.66	--	--	--	--	--	--	--	---	--	
	9/19/1995	--	40.86	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	7.7	ATI	--	
	12/7/1995	--	40.86	21.54	--	19.32	<50	<0.50	<0.50	<0.50	<1.0	<5.0	4.4	ATI	--	
	3/28/1996	--	40.86	15.77	--	25.09	<50	<0.5	<1	<1	<1	<10	3.8	SPL	--	
	6/20/1996	--	40.86	16.41	--	24.45	<50	<0.5	<1	<1	<1	<10	3.6	SPL	--	
	10/11/1996	--	40.86	19.90	--	20.96	<50	<0.5	<1.0	<1.0	<1.0	<10	6.4	SPL	--	
	1/2/1997	--	40.86	15.89	--	24.97	<50	<0.5	<1.0	<1.0	<1.0	<10	5.9	SPL	--	
	4/14/1997	--	40.86	17.07	--	23.79	<50	<0.5	<1.0	<1.0	<1.0	<10	4.6	SPL	--	
	7/2/1997	--	40.86	18.67	--	22.19	<50	<0.5	<1.0	<1.0	<1.0	<10	5.6	SPL	--	
	9/30/1997	--	40.86	22.52	--	18.34	<50	<5	<10	<10	<10	820	6.7	SPL	--	
	1/21/1998	--	40.86	16.01	--	24.85	<50	<0.5	<1.0	<1.0	<1.0	<10	5.2	SPL	--	
	4/9/1998	--	40.86	11.18	--	29.68	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	SPL	--	
	6/19/1998	--	40.86	13.01	--	27.85	<50	<0.5	<1.0	<1.0	<1.0	<10	4.1	SPL	--	
	11/30/1998	--	40.86	17.46	--	23.40	--	--	--	--	--	--	--	---	--	
	1/21/1999	--	40.86	17.47	--	23.39	--	--	--	--	--	--	--	---	--	
	4/30/1999	--	40.86	17.60	--	23.26	--	--	--	--	--	--	--	---	--	
	7/9/1999	--	40.86	16.50	--	24.36	--	--	--	--	--	--	--	---	--	
	11/3/1999	--	40.86	19.29	--	21.57	--	--	--	--	--	--	--	---	--	
	1/12/2000	--	40.86	21.49	--	19.37	--	--	--	--	--	--	--	---	--	
	4/13/2000	--	40.86	21.60	--	19.26	--	--	--	--	--	--	--	---	--	

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
AW-8	7/26/2000	--	40.86	21.53	--	19.33	--	--	--	--	--	--	--	---	--	
	10/24/2000	--	40.86	19.37	--	21.49	--	--	--	--	--	--	--	---	--	
	1/19/2001	--	40.86	18.60	--	22.26	--	--	--	--	--	--	--	---	--	
	7/24/2001	--	40.86	18.22	--	22.64	--	--	--	--	--	--	--	---	--	
	1/18/2002	--	40.86	16.29	--	24.57	--	--	--	--	--	--	--	---	--	
	8/1/2002	--	40.86	17.25	--	23.61	--	--	--	--	--	--	--	---	--	
	1/16/2003	--	40.86	15.82	--	25.04	--	--	--	--	--	--	--	---	--	
	7/7/2003	--	40.86	18.55	--	22.31	--	--	--	--	--	--	--	---	--	
	02/05/2004	--	40.86	--	--	--	--	--	--	--	--	--	--	--	--	t
	07/01/2004	--	40.86	18.25	--	22.61	--	--	--	--	--	--	--	--	--	t
	03/16/2005	**P**	**40.86**	**15.20**	**--**	**25.66**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**1.5**	**SEQM**	**7.3**	
AW-9	1/2/1997	--	37.78	10.00	--	27.78	<50	<0.5	<1.0	<1.0	<1.0	<10	6.7	SPL	--	
	4/14/1997	--	37.78	--	--	--	--	--	--	--	--	--	--	---	--	f
	7/2/1997	--	37.78	12.71	--	25.07	<50	<0.5	<1.0	<1.0	<1.0	<10	6.0	SPL	--	
	9/30/1997	--	37.78	21.22	--	16.56	<50	<0.5	<1.0	<1.0	<1.0	<10	6.8	SPL	--	
	1/21/1998	--	37.78	10.26	--	27.52	<50	<0.5	<1.0	<1.0	<1.0	<10	5.3	SPL	--	
	4/9/1998	--	37.78	6.77	--	31.01	<50	<0.5	<1.0	<1.0	<1.0	<10	5.6	SPL	--	
	6/19/1998	--	37.78	8.96	--	28.82	<50	<0.5	<1.0	<1.0	<1.0	<10	4.8	SPL	--	
MW-1	4/5/1991	--	34.46	--	--	--	--	--	--	--	--	--	--	---	--	
	4/1/1992	--	34.46	11.25	0.01	23.20	--	--	--	--	--	--	--	---	--	
	7/6/1992	--	34.46	13.61	0.02	20.83	--	--	--	--	--	--	--	---	--	
	10/7/1992	--	34.46	15.15	0.09	19.22	--	--	--	--	--	--	--	---	--	
	1/14/1993	--	34.46	10.73	0.01	23.72	--	--	--	--	--	--	--	---	--	
	4/22/1993	--	34.46	11.64	0.16	22.66	--	--	--	--	--	--	--	---	--	
	7/15/1993	--	34.46	13.50	1.11	19.85	--	--	--	--	--	--	--	---	--	
	10/21/1993	--	34.46	15.21	1.00	18.25	--	--	--	--	--	--	--	---	--	
	1/27/1994	--	34.46	17.48	0.81	16.17	--	--	--	--	--	--	--	---	--	
	4/21/1994	--	34.46	10.94	--	23.52	110,000	1,400	9,100	3,400	30,000	11,000	1.6	PACE	--	c
	9/9/1994	--	34.46	13.80	--	20.66	--	--	--	--	--	--	--	---	--	
	12/21/1994	--	34.46	12.60	0.02	21.84	--	--	--	--	--	--	--	---	--	
	1/30/1995	--	34.46	--	--	--	--	--	--	--	--	--	--	---	--	
	4/10/1995	--	34.46	10.62	--	23.84	--	--	--	--	--	--	--	---	--	
	6/29/1995	--	34.46	18.72	--	15.74	--	--	--	--	--	--	--	---	--	

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
MW-1	9/18/1995	--	34.46	12.92	--	21.54	--	--	--	--	--	--	--	---	--	
	12/7/1995	--	34.46	13.82	--	20.64	--	--	--	--	--	--	--	---	--	
	3/28/1996	--	34.46	10.03	0.01	24.42	--	--	--	--	--	--	--	---	--	
	6/20/1996	--	34.46	11.29	0.02	23.15	--	--	--	--	--	--	--	---	--	
	10/11/1996	--	34.46	14.86	0.01	19.59	--	--	--	--	--	--	--	---	--	
	1/2/1997	--	34.46	11.03	0.01	23.42	--	--	--	--	--	--	--	---	--	
	4/14/1997	--	34.46	12.25	0.01	22.20	--	--	--	--	--	--	--	---	--	
	4/15/1997	--	34.46	--	--	--	35,000	130	650	1,700	8,200	4,800	--	SPL	--	
	7/2/1997	--	34.46	14.11	--	20.35	42,000	<250	<500	2,000	9,600	<5000	5.5	SPL	--	
	9/30/1997	--	34.46	14.40	--	20.06	61,000	130	1,100	2,700	14,600	2,000	6.7	SPL	--	
	1/21/1998	--	34.46	7.99	0.01	26.46	14,000	11	60	310	1,790	1,300	4.5	SPL	--	
	4/9/1998	--	34.46	7.89	--	26.57	--	--	--	--	--	--	--	---	--	
	4/10/1998	--	34.46	--	--	--	45,000	380	520	2,100	6,800	9,300	5.3	SPL	--	
	6/19/1998	--	34.46	10.31	--	24.15	35,000	170	100	1,100	3,590	5,000	4.9	SPL	--	
	11/30/1998	--	34.46	11.16	--	23.30	10,000	100	24	350	1,040	1800/2800	--	SPL	--	g
	1/21/1999	--	34.46	10.76	--	23.70	18,000	120	37	590	1,800	2,700	--	SPL	--	
	4/30/1999	--	34.46	10.78	--	23.68	17,000	240	89	1,100	1,900	1,600	--	SPL	--	
	7/9/1999	--	34.46	12.62	--	21.84	58,000	140	100	1,800	6,900	1,200	--	SPL	--	
	11/3/1999	--	34.46	14.00	--	20.46	20,000	62	42	620	2,100	630	--	PACE	--	
	1/12/2000	--	34.46	15.25	--	19.21	72,000	110	120	2,400	8,200	630	--	PACE	--	
	4/13/2000	--	34.46	15.57	--	18.89	37,000	300	32	1,000	1,700	810	--	PACE	--	
	5/24/2000	--	34.46	11.75	--	22.71	--	--	--	--	--	--	--	---	--	
	6/1/2000	--	34.46	11.41	--	23.05	--	--	--	--	--	--	--	---	--	
	6/8/2000	--	34.46	11.68	--	22.78	--	--	--	--	--	--	--	---	--	
	6/15/2000	--	34.46	11.85	--	22.61	--	--	--	--	--	--	--	---	--	
	7/26/2000	--	34.46	16.19	--	18.27	10,000	480	210	470	710	1,100	--	PACE	--	
	10/24/2000	--	34.46	13.89	--	20.57	9,900	31	7.2	550	1,200	4,400	--	PACE	--	
	1/19/2001	--	34.46	12.90	--	21.56	57,000	199	7.66	1,170	3,260	514	--	PACE	--	
	7/24/2001	--	34.46	13.55	--	20.91	27,000	96.7	<5.0	548	1,460	285	--	PACE	--	
	1/18/2002	--	34.46	10.91	--	23.55	25,000	150	31.5	597	1,040	138	--	PACE	--	
	8/1/2002	--	34.46	12.97	--	21.49	25,000	80.2	17.7	714	1,280	489	--	PACE	--	
	1/16/2003	--	34.46	10.45	--	24.01	22,000	170	110	630	670	<500	--	SEQ	--	p
	7/7/2003	--	34.46	12.40	--	22.06	9,900	42	<5.0	160	150	24	--	SEQ	--	q, u
	02/05/2004	--	34.46	10.26	--	24.20	6,200	56	11	250	210	9.2	--	SEQM	6.9	

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
MW-1	07/01/2004	--	34.46	13.20	--	21.26	18,000	<50	<50	210	300	<50	--	SEQM	--	u
	03/16/2005	**P**	**34.46**	**9.62**	**--**	**24.84**	**7,600**	**33**	**5.4**	**200**	**130**	**<5.0**	**0.9**	**SEQM**	**6.9**	
MW-2	4/5/1991	--	35.50	16.62	--	18.88	<50	0.6	0.9	<0.3	<0.3	--	--	SUP	--	
	4/1/1992	--	35.50	11.25	--	24.25	--	--	--	--	--	--	--	---	--	
	4/2/1992	--	35.50	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	APP	--	
	7/6/1992	--	35.50	12.72	--	22.78	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
	10/7/1992	--	35.50	15.08	--	20.42	<50	<0.5	1.8	<0.5	2.3	--	--	ANA	--	
	1/14/1993	--	35.50	9.69	--	25.81	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	m
	4/22/1993	--	35.50	10.46	--	25.04	<50	<0.5	<0.5	<0.5	<0.5	30	--	PACE	--	c
	7/15/1993	--	35.50	12.02	--	23.48	<50	<0.5	<0.5	<0.5	<0.5	21.7	--	PACE	--	c, m
	10/21/1993	--	35.50	13.12	--	22.38	<50	0.7	0.9	<0.5	0.9	14.9	--	PACE	--	m
	1/27/1994	--	35.50	12.01	--	23.49	<50	0.6	<0.5	<0.5	<0.5	11.5	--	PACE	--	m
	4/21/1994	--	35.50	10.60	--	24.90	<50	<0.5	<0.5	<0.5	<0.5	11.4	1.1	PACE	--	m
	9/9/1994	--	35.50	12.42	--	23.08	<50	<0.5	<0.5	<0.5	0.6	--	2.2	PACE	--	m
	12/21/1994	--	35.50	10.85	--	24.65	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.2	PACE	--	m
	1/30/1995	--	35.50	8.38	--	27.12	<50	<0.50	<0.50	<0.50	<1.0	--	1.7	ATI	--	
	4/10/1995	--	35.50	9.00	--	26.50	<50	<0.50	<0.50	<0.50	<1.0	--	7.8	ATI	--	
	6/29/1995	--	35.50	9.91	--	25.59	<50	<0.50	<0.50	<0.50	<1.0	--	9.1	ATI	--	
	9/18/1995	--	35.50	10.98	--	24.52	--	--	--	--	--	--	--	---	--	
	9/19/1995	--	35.50	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	7.2	ATI	--	
	12/7/1995	--	35.50	12.30	--	23.20	<50	<0.50	<0.50	<0.50	<1.0	<5.0	2.4	ATI	--	
	3/28/1996	--	35.50	8.57	--	26.93	<50	<0.5	<1	<1	<1	<10	3.2	SPL	--	
	6/20/1996	--	35.50	9.77	--	25.73	<50	<0.5	<1	<1	<1	<10	4.2	SPL	--	
	10/11/1996	--	35.50	13.32	--	22.18	<50	<0.5	<1.0	<1.0	<1.0	<10	6.3	SPL	--	
	1/2/1997	--	35.50	9.60	--	25.90	<50	<0.5	<1.0	<1.0	<1.0	<10	6.7	SPL	--	
	4/14/1997	--	35.50	10.93	--	24.57	<50	<0.5	<1.0	<1.0	<1.0	<10	5.7	SPL	--	
	7/2/1997	--	35.50	12.57	--	22.93	<50	<0.5	<1.0	<1.0	<1.0	<10	5.9	SPL	--	
	9/30/1997	--	35.50	12.91	--	22.59	<50	<0.5	<1.0	<1.0	<1.0	<10	6.3	SPL	--	
	1/21/1998	--	35.50	10.12	--	25.38	160	<0.5	<1.0	<1.0	<1.0	100	5.4	SPL	--	
	4/9/1998	--	35.50	6.82	--	28.68	--	--	--	--	--	--	--	---	--	
	4/10/1998	--	35.50	--	--	--	<50	1	<1.0	<1.0	<1.0	23	5.0	SPL	--	
	6/19/1998	--	35.50	9.00	--	26.50	<50	<0.5	<1.0	<1.0	<1.0	<10	4.9	SPL	--	
	11/30/1998	--	35.50	9.44	--	26.06	--	--	--	--	--	--	--	---	--	

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
MW-2	1/21/1999	--	35.50	8.96	--	26.54	<50	<1.0	<1.0	<.1.0	<1.0	1.9	--	SPL	--	
	4/30/1999	--	35.50	9.15	--	26.35	--	--	--	--	--	--	--	---	--	
	7/9/1999	--	35.50	10.82	--	24.68	--	--	--	--	--	--	--	---	--	
	11/3/1999	--	35.50	11.86	--	23.64	--	--	--	--	--	--	--	---	--	
	1/12/2000	--	35.50	12.35	--	23.15	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	PACE	--	
	4/13/2000	--	35.50	13.01	--	22.49	--	--	--	--	--	--	--	---	--	
	7/26/2000	--	35.50	13.01	--	22.49	--	--	--	--	--	--	--	---	--	
	10/24/2000	--	35.50	11.57	--	23.93	--	--	--	--	--	--	--	---	--	
	1/19/2001	--	35.50	10.52	--	24.98	--	--	--	--	--	--	--	---	--	
	7/24/2001	--	35.50	11.13	--	24.37	--	--	--	--	--	--	--	---	--	
	1/18/2002	--	35.50	8.85	--	26.65	--	--	--	--	--	--	--	---	--	
	8/1/2002	--	35.50	10.47	--	25.03	--	--	--	--	--	--	--	---	--	
	1/14/2003	--	35.50	8.49	--	27.01	--	--	--	--	--	--	--	---	--	
	7/7/2003	--	35.50	9.63	--	25.87	--	--	--	--	--	--	--	---	--	
	02/05/2004	--	35.50	8.40	--	27.10	--	--	--	--	--	--	--	--	--	
	07/01/2004	NP	35.50	9.94	--	25.56	--	--	--	--	--	--	--	--	--	
	03/16/2005	**P**	**35.50**	**8.39**	**--**	**27.11**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**1.3**	**SEQM**	**7.1**	
MW-3	4/5/1991	--	36.53	17.84	--	18.69	<50	<0.3	<0.3	<0.3	<0.3	--	--	SUP	--	
	4/1/1992	--	36.53	15.64	--	20.89	--	--	--	--	--	--	--	---	--	
	4/2/1992	--	36.53	--	--	--	<50	1.4	<0.5	<0.5	<0.5	--	--	APP	--	
	7/6/1992	--	36.53	19.03	--	17.50	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
	10/7/1992	--	36.53	21.83	--	14.70	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
	1/14/1993	--	36.53	15.96	--	20.57	350	<0.5	<0.5	<0.5	<0.5	714	--	PACE	--	c, m
	4/22/1993	--	36.53	16.20	--	20.33	2,800	<0.5	<0.5	<0.5	<0.5	3,600	--	PACE	--	c, m
	7/15/1993	--	36.53	16.82	--	19.71	1,400	1.2	<0.5	2	3.5	2,204	--	PACE	--	c, m
	10/21/1993	--	36.53	18.84	--	17.69	370	2.1	2.3	2.3	6	847	--	PACE	--	c, m
	1/27/1994	--	36.53	18.00	--	18.53	1,300	6.3	<0.5	<0.5	<0.5	3,892	--	PACE	--	c, m
	4/21/1994	--	36.53	16.62	--	19.91	2,000	<0.5	<0.5	<0.5	<0.5	3,864	1.4	PACE	--	c, m
	9/9/1994	--	36.53	18.38	--	18.15	1,300	<0.5	<0.5	0.5	1.2	--	3.0	PACE	--	m
	12/21/1994	--	36.53	15.28	--	21.25	420	16	0.7	3.5	5.9	800	1.9	PACE	--	m
	1/30/1995	--	36.53	12.62	--	23.91	<50	<0.50	<0.50	<0.50	<1.0	--	2.5	ATI	--	
	4/10/1995	--	36.53	12.41	--	24.12	150	<0.50	<0.50	<0.50	<1.0	--	6.9	ATI	--	
	6/29/1995	--	36.53	14.95	--	21.58	100	<0.50	<0.50	<0.50	<1.0	--	6.4	ATI	--	d (TPH-g)

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
MW-3	9/18/1995	--	36.53	15.82	--	20.71	--	--	--	--	--	--	--	---	--	
	9/19/1995	--	36.53	--	--	--	82	<0.50	<0.50	<0.50	<1.0	260	7.0	ATI	--	
	12/7/1995	--	36.53	17.09	--	19.44	<50	<0.50	<0.50	<0.50	<1.0	91	4.5	ATI	--	
	3/28/1996	--	36.53	11.90	--	24.63	<50	<0.5	<1	<1	<1	230	4.2	SPL	--	
	6/20/1996	--	36.53	12.66	--	23.87	260	<0.5	<1	<1	<1	370	4.4	SPL	--	
	10/11/1996	--	36.53	16.23	--	20.30	330	<0.5	<1.0	<1.0	<1.0	440	5.8	SPL	--	
	1/2/1997	--	36.53	12.17	--	24.36	<50	<0.5	<1.0	<1.0	<1.0	140	6.0	SPL	--	
	4/14/1997	--	36.53	13.45	--	23.08	--	--	--	--	--	--	--	---	--	
	4/15/1997	--	36.53	--	--	--	1,500	<0.5	<1.0	<1.0	<1.0	1,800	5.6	SPL	--	
	7/2/1997	--	36.53	15.60	--	20.93	880	<0.5	<1.0	<1.0	<1.0	940	5.3	SPL	--	
	9/30/1997	--	36.53	17.16	--	19.37	40,000	13,000	2,400	870	3,100	510	6.6	SPL	--	
	1/21/1998	--	36.53	11.77	--	24.76	120	<0.5	<1.0	<1.0	<1.0	98	4.7	SPL	--	
	4/9/1998	--	36.53	9.42	--	27.11	950	<0.5	<1.0	<1.0	<1.0	890	5.7	SPL	--	
	6/19/1998	--	36.53	12.09	--	24.44	1,800	<0.5	<1.0	<1.0	<1.0	1,900	4.7	SPL	--	
	6/19/1998	--	36.53	15.28	--	21.25	1,800	<0.5	<1.0	<1.0	<1.0	1,900	4.7	SPL	--	
	1/21/1999	--	36.53	14.67	--	21.86	1,100	<1.0	<1.0	<1.0	<1.0	1,200	--	SPL	--	
	4/30/1999	--	36.53	16.00	--	20.53	--	--	--	--	--	--	--	---	--	
	7/9/1999	--	36.53	14.64	--	21.89	470	<1.0	<1.0	<1.0	<1.0	460/470	--	SPL	--	g
	11/3/1999	--	36.53	16.39	--	20.14	--	--	--	--	--	--	--	---	--	
	1/12/2000	--	36.53	16.80	--	19.73	<50	<0.5	<0.5	<0.5	<0.5	34	--	PACE	--	
	4/13/2000	--	36.53	16.43	--	20.10	--	--	--	--	--	--	--	---	--	
	7/26/2000	--	36.53	16.93	--	19.60	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	PACE	--	
	10/24/2000	--	36.53	15.69	--	20.84	--	--	--	--	--	--	--	---	--	
	1/19/2001	--	36.53	14.84	--	21.69	<50	<0.5	<0.5	<0.5	1	25.9	--	PACE	--	
	7/23/2001	--	36.53	15.11	--	21.42	62	<0.5	<0.5	<0.5	<1.5	28.7	--	PACE	--	
	1/18/2002	--	36.53	12.37	--	24.16	<50	<0.5	<0.5	<0.5	<1.0	17.8	--	PACE	--	
	8/1/2002	--	36.53	14.44	--	22.09	66	<0.5	<0.5	<0.5	<1.0	<0.5	--	PACE	--	
	1/16/2003	--	36.53	12.07	--	24.46	<50	<0.50	<0.50	<0.50	<0.50	20	--	SEQ	--	p
	7/7/2003	--	36.53	13.90	--	22.63	<50	<0.50	<0.50	<0.50	<0.50	8.8	--	SEQ	--	q
	02/05/2004	--	36.53	12.60	--	23.93	<50	<0.50	<0.50	<0.50	<0.50	4.6	--	SEQM	7.0	
	07/01/2004	--	36.53	14.57	--	21.96	<50	<0.50	<0.50	<0.50	<0.50	3.3	--	SEQM	--	
	03/16/2005	**P**	**36.53**	**11.03**	**--**	**25.50**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**4.4**	**1.5**	**SEQM**	**6.8**	
QC-2	10/7/1992	--	37.73	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	i

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
QC-2	1/14/1993	--	37.73	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	i, m
	4/22/1993	--	37.73	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	i, m
	7/15/1993	--	37.73	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	i, m
	10/21/1993	--	37.73	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	i
	1/27/1994	--	37.73	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	i
	4/21/1994	--	37.73	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	i
	9/9/1994	--	37.73	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	i
	12/21/1994	--	37.73	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	i
	1/30/1995	--	37.73	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	ATI	--	i
	4/10/1995	--	37.73	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	ATI	--	i
	6/27/1995	--	37.73	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	ATI	--	i
	9/19/1995	--	37.73	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	i
	12/7/1995	--	37.73	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	i
	3/28/1996	--	37.73	--	--	--	<50	<0.5	<1	<1	<1	<10	--	SPL	--	i
	6/20/1996	--	37.73	--	--	--	<50	<0.5	<1	<1	<1	<10	--	SPL	--	i
RW-1	4/5/1991	--	37.73	--	--	--	--	--	--	--	--	--	--	---	--	
	4/1/1992	--	37.73	22.81	0.30	14.62	--	--	--	--	--	--	--	---	--	
	7/6/1992	--	37.73	26.92	0.41	10.40	--	--	--	--	--	--	--	---	--	
	10/7/1992	--	37.73	28.51	1.26	7.96	--	--	--	--	--	--	--	---	--	
	1/14/1993	--	37.73	23.75	0.25	13.73	--	--	--	--	--	--	--	---	--	
	4/22/1993	--	37.73	22.70	1.38	13.65	--	--	--	--	--	--	--	---	--	
	7/15/1993	--	37.73	26.10	0.81	10.82	--	--	--	--	--	--	--	---	--	
	10/21/1993	--	37.73	25.40	0.49	11.84	--	--	--	--	--	--	--	---	--	
	1/27/1994	--	37.73	28.02	0.37	9.34	--	--	--	--	--	--	--	---	--	
	4/21/1994	--	37.73	23.10	0.91	13.72	--	--	--	--	--	--	--	---	--	
	9/9/1994	--	37.73	24.39	1.04	12.30	--	--	--	--	--	--	--	---	--	
	12/21/1994	--	37.73	--	--	--	--	--	--	--	--	--	--	---	--	h
	12/7/1995	--	37.73	25.71	1.04	10.98	150,000	34,000	35,000	4,300	21,000	2,700	--	ATI	--	
	3/28/1996	--	37.73	16.75	0.18	20.80	--	--	--	--	--	--	--	---	--	
	6/20/1996	--	37.73	25.10	0.02	12.61	--	--	--	--	--	--	--	---	--	h
	10/11/1996	--	37.73	25.51	0.00	12.22	130,000	20,000	32,000	2,800	20,700	1400/1200	7.4	SPL	--	g
	1/2/1997	--	37.73	24.49	0.01	13.23	--	--	--	--	--	--	--	---	--	
	4/14/1997	--	37.73	23.99	0.04	13.70	--	--	--	--	--	--	--	---	--	

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
RW-1	4/15/1997	--	37.73	--	--	--	1,800,000	38,000	190,000	48,000	281,000	<25000	--	SPL	--	
	7/2/1997	--	37.73	--	--	--	130,000	19,000	54,000	4,700	33,400	<10000	--	SPL	--	e
	7/2/1997	--	37.73	16.40	0.20	21.13	140,000	19,000	55,000	4,400	32,400	<10000	5.7	SPL	--	
	9/30/1997	--	37.73	--	--	--	140,000	17,000	29,000	2,500	15,900	1,200	--	SPL	--	e
	9/30/1997	--	37.73	27.97	0.02	9.74	110,000	13,000	22,000	2,000	12,500	1,100	7.0	SPL	--	
	1/21/1998	--	37.73	14.14	0.44	23.15	270,000	21,000	48,000	3,500	25,000	1,100	4.8	SPL	--	
	4/9/1998	--	37.73	25.01	0.05	12.67	--	--	--	--	--	--	--	---	--	
	4/10/1998	--	37.73	--	--	--	220,000	26,000	46,000	4,400	24,500	<2500	5.1	SPL	--	
	6/19/1998	--	37.73	11.43	--	26.30	180,000	19,000	32,000	3,000	17,400	<2500	4.6	SPL	--	
	11/30/1998	--	37.73	7.87	--	29.86	--	--	--	--	--	--	--	---	--	
	1/21/1999	--	37.73	18.90	0.03	18.80	260,000	24,000	46,000	5,100	30,000	1,700	--	SPL	--	
	7/9/1999	--	37.73	18.58	0.26	18.89	--	--	--	--	--	--	--	---	--	
	11/3/1999	--	37.73	20.85	0.60	16.28	160,000	19,000	37,000	3,800	25,000	1,500	--	PACE	--	
	1/12/2000	--	37.73	21.20	0.23	16.30	240,000	18,000	46,000	5,800	26,000	2,100	--	PACE	--	
	4/13/2000	--	37.73	21.71	0.11	15.91	120,000	2,100	33,000	2,800	28,000	1,500	--	PACE	--	
	5/24/2000	--	37.73	21.89	0.24	15.60	--	--	--	--	--	--	--	---	--	
	6/1/2000	--	37.73	16.30	0.01	21.42	--	--	--	--	--	--	--	---	--	
	6/8/2000	--	37.73	17.88	0.20	19.65	--	--	--	--	--	--	--	---	--	
	6/15/2000	--	37.73	16.72	0.04	20.97	--	--	--	--	--	--	--	---	--	
	6/20/2000	--	37.73	21.04	0.20	16.49	--	--	--	--	--	--	--	---	--	
	7/7/2000	--	37.73	17.21	0.01	20.51	--	--	--	--	--	--	--	---	--	
	7/20/2000	--	37.73	21.87	0.18	15.68	--	--	--	--	--	--	--	---	--	
	7/26/2000	--	37.73	21.45	0.13	16.15	67,000	160	5,300	2,100	18,000	1,100	--	PACE	--	
	7/31/2000	--	37.73	22.11	--	15.62	--	--	--	--	--	--	--	---	--	
	8/8/2000	--	37.73	17.80	0.01	19.92	--	--	--	--	--	--	--	---	--	
	8/16/2000	--	37.73	17.92	--	19.81	--	--	--	--	--	--	--	---	--	
	8/23/2000	--	37.73	18.11	0.02	19.60	--	--	--	--	--	--	--	---	--	
	10/24/2000	--	37.73	18.93	--	18.80	--	--	--	--	--	--	--	---	--	
	10/25/2000	--	37.73	19.04	--	18.69	360,000	18,000	78,000	34,000	180,000	2,100	--	PACE	--	k
	1/19/2001	--	37.73	18.19	0.05	19.49	110,000	9,450	19,600	3,510	21,100	1,270	--	PACE	--	
	7/24/2001	--	37.73	17.93	--	19.80	--	--	--	--	--	--	--	---	--	l
	1/18/2002	--	37.73	14.87	--	22.86	63,000	2,060	4,370	1,770	13,900	491	--	PACE	--	
	8/1/2002	--	37.73	16.84	--	20.89	60,000	1,210	2,200	1,520	10,600	390	--	PACE	--	
	1/16/2003	--	37.73	14.42	--	23.31	34,000	2,500	2,700	780	5,300	680	--	SEQ	--	p

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
RW-1	7/7/2003	--	37.73	16.11	--	21.62	50,000	640	280	1,600	10,000	<250	--	SEQ	--	q, u
	07/01/2004	P	37.73	16.75	--	20.98	47,000	320	87	1,900	7,500	72	--	SEQM	6.7	
	03/16/2005	**P**	**37.73**	**12.48**	**--**	**25.25**	**17,000**	**28**	**23**	**350**	**590**	**53**	**1.0**	**SEQM**	**6.8**	

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

ABBREVIATIONS & SYMBOLS:
-- = Not analyzed/applicable/measured/available
< = Not detected at or above laboratory reporting limit
DO = Dissolved oxygen
DTW = Depth to water in feet below ground surface
ft bgs = feet below ground surface
ft MSL = feet above mean sea level
GRO = Gasoline Range Organics, range C4-C12
GWE = Groundwater elevation measured in feet above mean sea level
mg/L = Milligrams per liter
MTBE = Methyl tert butyl ether
NP = Not Purged
P = Purge
TOC = Top of casing measured in feet above mean sea level
TPH-g = Total petroleum hydrocarbons as gasoline
ug/L = Micrograms per liter
ANA = Anametrix, Inc.
PACE = Pace, Inc.
ATI = Analytical Technologies, Inc.
CEI = Ceimic Corporation
SPL = Southern Petroleum Laboratories
SEQ/SEQM= Sequoia Analytical/Sequoia Morgan Hill Laboratories

FOOTNOTES:
c = A copy of the documentation for this data is included in Appendix C of Alistoreport 10-025-13-003.
d = MTBE peak. See documentation in Appendix C of Alisto report 10-025-13-003.
e = Blind duplicate.
f = Well inaccessible.
g = EPA Methods 8020/8260 used.
h = Well not monitored and/or sampled due to vapor extraction system.
i = Travel blank.
j = This gasoline does not include MTBE.
k = Well was sampled on a different date from the other wells due to lack of proper equipment.
l = Unable to sample due to nature of product.
m = A copy of the documentation for this data is included in Blaine Tech Services, Inc., Report 010724-B-2.The data for sampling events January 14, 1993 and April 22, 1993 has been destroyed.No chromatograms could be located for samples AW-2 on January 27, 1994, and for samples AW-1, AW-2, AW-3, AW-4, AW-5, AW-6, AW-7, AW-8, MW-2 and MW-3 on September 9, 1994.
n = On June 1, 2001, after reviewing chromatograms, Sequoia reported the value as <5.0.
o = Unable to locate well.
p = TPH-g data analyzed by EPA Method 8015B modified; BTEX and MTBE by EPA Method 8021B
q = TPH-g, BTEX, and MTBE analyzed by EPA method 8260B beginning on the third quarter 2003 sampling event 07/07/03 =
r = Discrete peak at C5
t = Well was not gauged during the quarter due to an oversite by the technician.
u = Sheen in well

NOTES:
Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. Total petroleum hydrocarbons as gasoline (TPHg) has been changed to gasoline range organics (GRO). The resulting data may be impacted by the potential of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported.

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

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

Values for dissolved oxygen (DO) and pH were obtained through field measurements.

Source : The data within this table collected prior to August 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

GWEs adjusted assuming a specific gravity of 0.75 for free product

Table 2

Fuel Additives Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Footnotes/ Comments
AW-1	7/7/2003	<5,000	<1,000	1,100	<25	<25	190	--	--	
	02/05/2004	<10,000	<2,000	930	<50	<50	160	<50	<50	
	07/01/2004	<5,000	<1,000	1,100	<25	<25	170	<25	<25	
	03/16/2005	**<5,000**	**<1,000**	**720**	**<25**	**<25**	**130**	**<25**	**<25**	
AW-2	02/05/2004	<100	<20	5.1	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/16/2005	**<100**	**<20**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
AW-3	**03/16/2005**	**<100**	**<20**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
AW-4	7/7/2003	<1,000	<200	56	<5.0	<5.0	<5.0	--	--	
	02/05/2004	<200	<40	40	<1.0	<1.0	3.7	<1.0	<1.0	
	07/01/2004	<1,000	<200	64	<5.0	<5.0	9.6	<5.0	<5.0	
	03/16/2005	**<500**	**<100**	**23**	**<2.5**	**<2.5**	**<2.5**	**<2.5**	**<2.5**	
AW-5	7/7/2003	<2,000	1,200	980	<10	<10	210	--	--	
	02/05/2004	<2,000	1,200	810	<10	<10	160	<10	<10	
	07/01/2004	<1,000	1,600	550	<5.0	<5.0	94	<5.0	<5.0	
	03/16/2005	**<10,000**	**2,100**	**890**	**<50**	**<50**	**190**	**<50**	**<50**	
AW-6	02/05/2004	<10,000	<2,000	5,400	<50	<50	1,800	<50	<50	
	07/01/2004	<10,000	<2,000	4,600	<50	<50	1,600	<50	<50	
	03/16/2005	**<5,000**	**<1,000**	**4,400**	**<25**	**<25**	**1,400**	**<25**	**<25**	
AW-8	**03/16/2005**	**<100**	**<20**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	a
MW-1	7/7/2003	<1,000	<200	24	<5.0	<5.0	<5.0	--	--	
	02/05/2004	<1,000	<200	9.2	<5.0	<5.0	<5.0	<5.0	<5.0	
	07/01/2004	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
	03/16/2005	**<1,000**	**<200**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	
MW-2	**03/16/2005**	**<100**	**<20**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
MW-3	7/7/2003	<100	<20	8.8	<0.50	<0.50	0.65	--	--	
	02/05/2004	<100	<20	4.6	<0.50	<0.50	<0.50	<0.50	<0.50	
	07/01/2004	<100	<20	3.3	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/16/2005	**<100**	**<20**	**4.4**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
RW-1	7/7/2003	<50,000	<10,000	<250	<250	<250	<250	--	--	

Table 2

Fuel Additives Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Footnotes/ Comments
RW-1	07/01/2004	<10,000	<2,000	72	<50	<50	<50	<50	<50	
	03/16/2005	**<2,000**	**<400**	**53**	**<10**	**<10**	**<10**	**<10**	**<10**	

Table 2

Fuel Additives Analytical Data

Former BP Station #11133
2220 98th Ave., Oakland, CA

ABBREVIATIONS & SYMBOLS:
-- = Not analyzed/applicable/measured/available
< = Not detected at or above the laboratory reporting limit.
1,2-DCA = 1,2-Dichloroethane
DIPE = Di-isopropyl ether
EDB = 1,2-Dibromoethane
ETBE = Ethyl tert-butyl ether
MTBE = Methyl tert-butyl ether
TAME = tert-Amyl methyl ether
TBA = tert-Butyl alcohol
ug/L = Micrograms per Liter

FOOTNOTES:
a = Calibration verification for ethanol is within method limits but outside contractual limits.

NOTES:
All volatile organic compounds (Ethanol, TBA, MTBE, DIPE, ETBE, and TAME) analyzed using EPA Method 8260B.

ATTACHMENT A

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 # 050316-PC1 Date 3/16/05 Client BP 11133

Site 2220 98th Ave, Oakland

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	2					9.62	28.38	Toc	
MW-2	2					8.39	31.36		
MW-3	2					11.03	34.18		
AW-1	2					18.78	38.51		
AW-2	2					14.58	34.68		Tr.
AW-3	2					12.78	35.58		Tr.
AW-4	2					16.16	32.81		Tr.
AW-5	4					15.30	42.94		
MW-6	4					16.04	34.10		
AW-7	-		Unable to locate well			-	-		G.O. Tr.
AW-8	2					15.20	37.22		G.O. Tr.
RW-1	6		No SPH Detected			12.48	37.70		IP.

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050316-PC1	Station # BP 11133
Sampler: PC	Date: 3/16/05
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 28.38	Depth to Water: 9.62
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.

3.0 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 9 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations	ORP mV ±
1122	66.7	7.0	727	3		-144
1130	66.8	6.9	712	6		-159
1136	65.9	6.9	706	9		-181
					2.7 mg/L ferrous iron	

Did well dewater? Yes (No) Gallons actually evacuated: 9

Sampling Time: 1150 Sampling Date: 3/16/05

Sample I.D.: MW-1 Laboratory: Pace (Sequoia) Other STL

Analyzed for: GRO BTEX MTBE DRO Other: see COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	0.9	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	-175	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050316-PC1	Station # BP 11133
Sampler: PC	Date: 3/16/05
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 31.36	Depth to Water: 8.39
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.

3.7 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 11.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations	ORP mV
1002	63.8	7.3	438	3.7	cloudy	-3
1010	66.8	7.2	336	7.4	clearing	25
1018	68.7	7.1	320	11.1	↓	32
					0.7 mg/l Ferrous Iron	

Did well dewater? Yes (No) Gallons actually evacuated: 11.1

Sampling Time: 1026 Sampling Date: 3/16/05

Sample I.D.: MW-2 Laboratory: Pace (Sequoia) Other STL

Analyzed for: GRO BTEX MTBE DRO Other: see COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.3	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	30	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050316-PC1	Station # BP 11133
Sampler: PC	Date: 3/16/05
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 34.18	Depth to Water: 11.03
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.

3.7 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 11.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1214	65.7	7.4	493	3.7	
1220	67.3	7.0	455	7.4	
1230	71.9	6.8	415	11.1	

Did well dewater? Yes (No) Gallons actually evacuated: 11.1

Sampling Time: 1238 Sampling Date: 3/16/05

Sample I.D.: MW-3 Laboratory: Pace (Sequoia) Other _____

Analyzed for: GRO BTEX MTBE DRO Other: see ex

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.5	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	4	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050316-PC1	Station # BP11153
Sampler: PC	Date: 3/16/05
Well I.D.: AW-1	Well Diameter: 2 3 4 6 8 ___
Total Well Depth: 38.51	Depth to Water: 18.78
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.

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

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations	ORP mV
[redacted]	66.9	6.6	737	3.2		9
1050	67.7	6.6	794	6.4		1
1056	68.5	6.7	801	9.6		-24
					3.4 mg/L Ferrous Iron	

Did well dewater? Yes (No)		Gallons actually evacuated: 9.6	
Sampling Time: 1105		Sampling Date: 3/16/05	
Sample I.D.: AW-1		Laboratory: Pace Sequoia Other STL	
Analyzed for: GRO BTEX MTBE DRO		Other: See COC	
D.O. (if req'd):	Pre-purge: ___ mg/L	Post-purge: 0.8 mg/L	
O.R.P. (if req'd):	Pre-purge: ___ mV	Post-purge: -10 mV	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050316-PC1	Station # BP 11133
Sampler: PC	Date: 3/16/05
Well I.D.: MW-2	Well Diameter: ② 3 4 6 8 ____
Total Well Depth: 34.68	Depth to Water: 14.58
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.

3.2 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 9.6 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1252	68.9	6.9	427	3.2	
1258	69.5	6.7	454	6.4	
1305	70.1	6.7	469	9.6	

Did well dewater? Yes (No)

Gallons actually evacuated: 9.6

Sampling Time: 1310

Sampling Date: 3/16/05

Sample I.D.: MW-2

Laboratory: Pace Sequoia Other _____

Analyzed for: GRO BTEX MTBE DRO Other: see COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.7 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	83 mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050316-PC	Station # BP 11133
Sampler: PC	Date: 3/16/05
Well I.D.: AW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 35.58	Depth to Water: 12.70
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.

3.6 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 10.8 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1355	67.1	7.4	1053	3.6	
1359	66.5	7.2	1051	7.2	
1405	66.1	7.3	1066	10.8	

Did well dewater? Yes (No) Gallons actually evacuated: 11

Sampling Time: 1410 Sampling Date: 3/16/05

Sample I.D.: AW-3 Laboratory: Pace (Sequoia) Other ____

Analyzed for: GRO BTEX MTBE DRO Other: see COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	* 1.1	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	68	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050216-RC1	Station # BP 11133
Sampler: RC	Date: 3/16/05
Well I.D.: AW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 32.81	Depth to Water: 16.16
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.

2.7 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 8.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations	ORP
910	67.1	6.3	954	2.7		77 mV
912	64.2	6.5	867	5.4		22
918	64.0	6.5	841	8.1		-6
					1.4 mg/L Ferrous Iron	

Did well dewater? Yes (No) Gallons actually evacuated: 8.1

Sampling Time: 925 Sampling Date: 3/16/05

Sample I.D.: AW-4 Laboratory: Pace (Sequoia) Other STL

Analyzed for: GRO BTEX MTBE DRO Other: see COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	0.6	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	10	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050316-PC	Station # BP 11133
Sampler: PC	Date: 3/16/05
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 42.94	Depth to Water: 15.30
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.

18 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 5.4 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1418	67.6	6.9	562	18	
1421	67.2	6.7	540	36	
1424	66.9	6.7	513	54	

Did well dewater? Yes (No) Gallons actually evacuated: 54

Sampling Time: 1428 Sampling Date: 3/16/05

Sample I.D.: MW-5 Laboratory: Pace (Sequoia) Other _____

Analyzed for: GRO BTEX MTBE DRO Other: see COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	2.1	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	-4	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050316-PC	Station # BP 11137
Sampler: PC	Date: 3/16/05
Well I.D.: AW-6	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 34.10	Depth to Water: 16.04
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.

11.7 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 35.1 Gals. (Calculated Volume)

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
1438	67.4	6.9	443	12	
1440	67.7	6.9	466	24	
	well dewatered @ 26 gal				
1500	68.8	6.8	444	Sitedepart DTW - 30.19	

Did well dewater? (Yes) No		Gallons actually evacuated: 26	
Sampling Time: 1500		Sampling Date: 3/16/05	
Sample I.D.: AW-6		Laboratory: Pace (Sequoia) Other ___	
Analyzed for: GRO BTEX MTBE DRO		Other: See COC	
D.O. (if req'd):	Pre-purge: ___ mg/L	Post-purge: 3.0	mg/L
O.R.P. (if req'd):	Pre-purge: ___ mV	Post-purge: 39	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050316-PC	Station # BP 11133
Sampler: PC	Date: 3/16/05
Well I.D.: AW-7	Well Diameter: 2 3 4 6 8 ____
Total Well Depth:	Depth to Water:
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 Case Volume (Gals.)) X _____ (Specified Volumes) = _____ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
		well paved over - unable to locate			

Did well dewater? Yes No		Gallons actually evacuated:	
Sampling Time:		Sampling Date:	
Sample I.D.: AW-7		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 #: 050316-PC	Station # BP 11133
Sampler: PC	Date: 3/16/05
Well I.D.: AW-B	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 37.22	Depth to Water: 15.20
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
- (X) Positive Air Displacement
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- Bailer
- (↑) Disposable Bailer
- Extraction Port
- Other: _____

80% recharge = 19.60

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

3.5 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 10.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1330	68.3	7.3	996	3.5	
				DEW	
1340	67.7	7.3	1079	Traffic well DTW=30.15	

Did well dewater? (Yes) No — Gallons actually evacuated: 4

Sampling Time: 1340 — Sampling Date: 3/16/05

Sample I.D.: AW-B — Laboratory: Pace (Sequoia) Other _____

Analyzed for: GRO BTEX MTBE DRO — Other: see COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.5 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	59 mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050316-PC	Station # BP 11133
Sampler: PC	Date: 3/16/05
Well I.D.: RW-1	Well Diameter: 2 3 4 (6) 8 ____
Total Well Depth: 37.70	Depth to Water: 12.40
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.

37.2 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 111.6 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1452	69.5	6.7	663	37.5	
1459	69.9	6.8	734	75	
	well dewatered @ 76 gal				
1512	69.9	6.8	740	site depart DTW-34.92	

Did well dewater? (Yes) No — Gallons actually evacuated: 76

Sampling Time: 1512 — Sampling Date: 3/16/05

Sample I.D.: RW-1 — Laboratory: Pace (Sequoia) Other ____

Analyzed for: GRO BTEX MTBE DRO — Other: see COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.0 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	-160 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:

BP 11133
Station #

2220 98th Ave., Oakland
Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

229

added equip. rinse water 30

any other adjustments

TOTAL GALS. RECOVERED 259

loaded onto BTS vehicle # 48

BTS event # 050316-PC1

time 1200

date 3/16/05

signature

* *

REC'D AT BTS

time

date 3/16/05

unloaded by signature

ATTACHMENT B

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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5 April, 2005

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

RE: BP Heritage #11133, Oakland, CA
Work Order: MOC0460

Enclosed are the results of analyses for samples received by the laboratory on 03/16/05 16:40. 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 #11133, Oakland, CA	MOC0460
1333 Broadway, Suite 800	Project Number:G07TT-0019	**Reported:**
Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MOC0460-01	Water	03/16/05 11:50	03/16/05 16:40
MW-2	MOC0460-02	Water	03/16/05 10:25	03/16/05 16:40
MW-3	MOC0460-03	Water	03/16/05 12:38	03/16/05 16:40
AW-1	MOC0460-04	Water	03/16/05 11:05	03/16/05 16:40
AW-2	MOC0460-05	Water	03/16/05 13:10	03/16/05 16:40
AW-3	MOC0460-06	Water	03/16/05 14:10	03/16/05 16:40
AW-4	MOC0460-07	Water	03/16/05 09:25	03/16/05 16:40
AW-5	MOC0460-08	Water	03/16/05 14:28	03/16/05 16:40
AW-6	MOC0460-09	Water	03/16/05 15:00	03/16/05 16:40
AW-8	MOC0460-10	Water	03/16/05 13:40	03/16/05 16:40
RW-1	MOC0460-11	Water	03/16/05 15:12	03/16/05 16:40
TB-11133-03162005	MOC0460-12	Water	03/16/05 00:00	03/16/05 16:40

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

These samples were received with no custody seals.

Revised report created 4/5/05. Hardness and Manganese added.

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URS Corporation [Arco]	Project:BP Heritage #11133, Oakland, CA	MOC0460
1333 Broadway, Suite 800	Project Number:G07TT-0019	**Reported:**
Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

METALS

Del Mar Analytical, Irvine

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MOC0460-01) Water	**Sampled: 03/16/05 11:50**	**Received: 03/16/05 16:40**							
Calcium	**56000**	100	ug/l	1	5C25083	03/25/05	04/02/05 15:12	EPA 200.7	
Iron	**11000**	40	"	"	"	"	03/26/05 15:27	"	
Magnesium	**39000**	20	"	"	"	"	04/02/05 15:12	"	
Manganese	**7700**	20	"	"	"	"	"	"	
MW-2 (MOC0460-02) Water	**Sampled: 03/16/05 10:25**	**Received: 03/16/05 16:40**							
Calcium	**32000**	100	ug/l	1	5C25083	03/25/05	04/02/05 15:18	EPA 200.7	
Iron	**21000**	40	"	"	"	"	03/26/05 15:33	"	
Magnesium	**19000**	20	"	"	"	"	04/02/05 15:19	"	
Manganese	**2200**	20	"	"	"	"	04/02/05 15:18	"	
AW-1 (MOC0460-04) Water	**Sampled: 03/16/05 11:05**	**Received: 03/16/05 16:40**							
Calcium	**66000**	100	ug/l	1	5C25083	03/25/05	04/02/05 15:25	EPA 200.7	
Iron	**32000**	40	"	"	"	"	03/26/05 15:39	"	
Magnesium	**50000**	20	"	"	"	"	04/02/05 15:25	"	
Manganese	**6500**	20	"	"	"	"	"	"	
AW-4 (MOC0460-07) Water	**Sampled: 03/16/05 09:25**	**Received: 03/16/05 16:40**							
Calcium	**55000**	100	ug/l	1	5C25083	03/25/05	04/02/05 15:31	EPA 200.7	
Iron	**30000**	40	"	"	"	"	03/26/05 15:45	"	
Magnesium	**42000**	20	"	"	"	"	04/02/05 15:31	"	
Manganese	**5600**	20	"	"	"	"	"	"	

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1333 Broadway, Suite 800	Project Number:G07TT-0019	**Reported:**
Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

INORGANICS

Del Mar Analytical, Irvine

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MOC0460-01) Water	**Sampled: 03/16/05 11:50**	**Received: 03/16/05 16:40**							
Ammonia-N	ND	500	ug/l	1	5C21106	03/21/05	03/21/05 15:25	EPA 350.3	
Hardness (as CaCO3)	**300000**	1000	"	"	5C25083	03/25/05	04/02/05 15:12	SM2340B	
Phosphorus	**1200**	50	"	"	5C22078	03/22/05	03/22/05 14:02	EPA 365.3	
Total Dissolved Solids	**390000**	10000	"	"	5C21073	03/21/05	03/21/05 20:15	EPA 160.1	
MW-2 (MOC0460-02) Water	**Sampled: 03/16/05 10:25**	**Received: 03/16/05 16:40**							
Ammonia-N	ND	500	ug/l	1	5C21106	03/21/05	03/21/05 15:25	EPA 350.3	
Hardness (as CaCO3)	**160000**	1000	"	"	5C25083	03/25/05	04/02/05 15:19	SM2340B	
Phosphorus	**220**	50	"	"	5C22078	03/22/05	03/22/05 14:02	EPA 365.3	
Total Dissolved Solids	**220000**	10000	"	"	5C21073	03/21/05	03/21/05 20:15	EPA 160.1	
AW-1 (MOC0460-04) Water	**Sampled: 03/16/05 11:05**	**Received: 03/16/05 16:40**							
Ammonia-N	ND	500	ug/l	1	5C21106	03/21/05	03/21/05 15:25	EPA 350.3	
Hardness (as CaCO3)	**370000**	1000	"	"	5C25083	03/25/05	04/02/05 15:25	SM2340B	
Phosphorus	**320**	50	"	"	5C22078	03/22/05	03/22/05 14:02	EPA 365.3	
Total Dissolved Solids	**470000**	10000	"	"	5C21073	03/21/05	03/21/05 20:15	EPA 160.1	
AW-4 (MOC0460-07) Water	**Sampled: 03/16/05 09:25**	**Received: 03/16/05 16:40**							
Ammonia-N	ND	500	ug/l	1	5C28090	03/28/05	03/28/05 15:00	EPA 350.3	
Hardness (as CaCO3)	**310000**	1000	"	"	5C25083	03/25/05	04/02/05 15:31	SM2340B	
Phosphorus	**590**	50	"	"	5C22078	03/22/05	03/22/05 14:02	EPA 365.3	
Total Dissolved Solids	**490000**	10000	"	"	5C21075	03/21/05	03/21/05 20:15	EPA 160.1	

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URS Corporation [Arco]	Project:BP Heritage #11133, Oakland, CA	MOC0460
1333 Broadway, Suite 800	Project Number:G07TT-0019	**Reported:**
Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MOC0460-01) Water Sampled: 03/16/05 11:50 Received: 03/16/05 16:40									
tert-Amyl methyl ether	ND	5.0	ug/l	10	5C25006	03/25/05	03/25/05	EPA 8260B	
Benzene	**33**	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**200**	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Toluene	**5.4**	5.0	"	"	"	"	"	"	
Xylenes (total)	**130**	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**7600**	500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*60-135*		"	"	"	"	
MW-2 (MOC0460-02) Water Sampled: 03/16/05 10:25 Received: 03/16/05 16:40									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5C25006	03/25/05	03/25/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*60-135*		"	"	"	"	

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URS Corporation [Arco]	Project:BP Heritage #11133, Oakland, CA	MOC0460
1333 Broadway, Suite 800	Project Number:G07TT-0019	**Reported:**
Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MOC0460-03) Water Sampled: 03/16/05 12:38 Received: 03/16/05 16:40									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5C25006	03/25/05	03/25/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**4.4**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*81 %*	*60-135*		"	"	"	"	
AW-1 (MOC0460-04) Water Sampled: 03/16/05 11:05 Received: 03/16/05 16:40									
tert-Amyl methyl ether	**130**	25	ug/l	50	5C25006	03/25/05	03/25/05	EPA 8260B	
Benzene	**1100**	25	"	"	"	"	"	"	
tert-Butyl alcohol	ND	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
Ethanol	ND	5000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Ethylbenzene	**630**	25	"	"	"	"	"	"	
Methyl tert-butyl ether	**720**	25	"	"	"	"	"	"	
Toluene	**30**	25	"	"	"	"	"	"	
Xylenes (total)	**560**	25	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**10000**	2500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*60-135*		"	"	"	"	

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URS Corporation [Arco]	Project:BP Heritage #11133, Oakland, CA	MOC0460
1333 Broadway, Suite 800	Project Number:G07TT-0019	**Reported:**
Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AW-2 (MOC0460-05) Water Sampled: 03/16/05 13:10 Received: 03/16/05 16:40									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5C25006	03/25/05	03/25/05	EPA 8260B	
Benzene	**0.75**	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	**1.1**	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	**1.1**	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*85 %*	*60-135*		"	"	"	"	
AW-3 (MOC0460-06) Water Sampled: 03/16/05 14:10 Received: 03/16/05 16:40									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5C25006	03/25/05	03/25/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*60-135*		"	"	"	"	

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URS Corporation [Arco]	Project:BP Heritage #11133, Oakland, CA	MOC0460
1333 Broadway, Suite 800	Project Number:G07TT-0019	**Reported:**
Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AW-4 (MOC0460-07) Water Sampled: 03/16/05 09:25 Received: 03/16/05 16:40									
tert-Amyl methyl ether	ND	2.5	ug/l	5	5C25006	03/25/05	03/25/05	EPA 8260B	
Benzene	**71**	2.5	"	"	"	"	"	"	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	**200**	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	**23**	2.5	"	"	"	"	"	"	
Toluene	**31**	2.5	"	"	"	"	"	"	
Xylenes (total)	**870**	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**3600**	250	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99 %*	*60-135*		"	"	"	"	
AW-5 (MOC0460-08) Water Sampled: 03/16/05 14:28 Received: 03/16/05 16:40									
tert-Amyl methyl ether	**190**	50	ug/l	100	5C25006	03/25/05	03/25/05	EPA 8260B	
Benzene	ND	50	"	"	"	"	"	"	
tert-Butyl alcohol	**2100**	2000	"	"	"	"	"	"	
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
Ethanol	ND	10000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Methyl tert-butyl ether	**890**	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Xylenes (total)	**130**	50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	5000	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98 %*	*60-135*		"	"	"	"	

Sequoia Analytical

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URS Corporation [Arco]	Project:BP Heritage #11133, Oakland, CA	MOC0460
1333 Broadway, Suite 800	Project Number:G07TT-0019	**Reported:**
Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AW-6 (MOC0460-09) Water Sampled: 03/16/05 15:00 Received: 03/16/05 16:40									
tert-Amyl methyl ether	**1400**	25	ug/l	50	5C28010	03/28/05	03/28/05	EPA 8260B	
Benzene	ND	25	"	"	"	"	"	"	
tert-Butyl alcohol	ND	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
Ethanol	ND	5000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Methyl tert-butyl ether	**4400**	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**6700**	2500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*60-135*		"	"	"	"	
AW-8 (MOC0460-10) Water Sampled: 03/16/05 13:40 Received: 03/16/05 16:40									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5C28010	03/28/05	03/28/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	IC
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		*85 %*	*60-135*		"	"	"	"	

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1333 Broadway, Suite 800	Project Number:G07TT-0019	**Reported:**
Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW-1 (MOC0460-11) Water Sampled: 03/16/05 15:12 Received: 03/16/05 16:40									
tert-Amyl methyl ether	ND	10	ug/l	20	5C28010	03/28/05	03/28/05	EPA 8260B	
Benzene	**28**	10	"	"	"	"	"	"	
tert-Butyl alcohol	ND	400	"	"	"	"	"	"	
Di-isopropyl ether	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
Ethanol	ND	2000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
Ethylbenzene	**350**	10	"	"	"	"	"	"	
Methyl tert-butyl ether	**53**	10	"	"	"	"	"	"	
Toluene	**23**	10	"	"	"	"	"	"	
Xylenes (total)	**590**	10	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**17000**	1000	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*106 %*		*60-135*	"	"	"	"	

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Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MOC0460-01) Water	**Sampled: 03/16/05 11:50**	**Received: 03/16/05 16:40**							
Hydroxide Alkalinity	ND	5000	ug/l	1	5C25010	03/25/05	03/25/05	SM 2320B	
Carbonate Alkalinity	ND	5000	"	"	"	"	"	"	
Bicarbonate Alkalinity	**310000**	5000	"	"	"	"	"	"	
Total Alkalinity	**310000**	5000	"	"	"	"	"	"	
Biochemical Oxygen Demand	**18000**	2000	"	"	5C22034	03/17/05 18:30	03/22/05	EPA 405.1	
Chemical Oxygen Demand	**100000**	30000	"	"	5C24023	03/24/05	03/24/05	EPA 410.4	
Ferric Iron	**10000**	100	"	"	5C31033	03/31/05	03/31/05	EPA 200.7	
Sulfide	ND	1000	"	"	5C31031	03/16/05	03/16/05	EPA 376.1	
MW-2 (MOC0460-02) Water	**Sampled: 03/16/05 10:25**	**Received: 03/16/05 16:40**							
Bicarbonate Alkalinity	**85000**	5000	ug/l	1	5C25010	03/25/05	03/25/05	SM 2320B	
Hydroxide Alkalinity	ND	5000	"	"	"	"	"	"	
Carbonate Alkalinity	ND	5000	"	"	"	"	"	"	
Total Alkalinity	**85000**	5000	"	"	"	"	"	"	
Biochemical Oxygen Demand	ND	2000	"	"	5C22034	03/17/05 18:30	03/22/05	EPA 405.1	
Chemical Oxygen Demand	**59000**	30000	"	"	5C24023	03/24/05	03/24/05	EPA 410.4	
Ferric Iron	**18000**	100	"	"	5C31033	03/31/05	03/31/05	EPA 200.7	
Sulfide	ND	1000	"	"	5C31031	03/16/05	03/16/05	EPA 376.1	
AW-1 (MOC0460-04) Water	**Sampled: 03/16/05 11:05**	**Received: 03/16/05 16:40**							
Bicarbonate Alkalinity	**420000**	5000	ug/l	1	5C25010	03/25/05	03/25/05	SM 2320B	
Hydroxide Alkalinity	ND	5000	"	"	"	"	"	"	
Carbonate Alkalinity	ND	5000	"	"	"	"	"	"	
Total Alkalinity	**420000**	5000	"	"	"	"	"	"	
Biochemical Oxygen Demand	**14000**	2000	"	"	5C22034	03/17/05 18:30	03/22/05	EPA 405.1	
Chemical Oxygen Demand	**84000**	30000	"	"	5C24023	03/24/05	03/24/05	EPA 410.4	
Ferric Iron	**29000**	100	"	"	5C31033	03/31/05	03/31/05	EPA 200.7	
Sulfide	ND	1000	"	"	5C31031	03/16/05	03/16/05	EPA 376.1	

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Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AW-4 (MOC0460-07) Water	**Sampled: 03/16/05 09:25**	**Received: 03/16/05 16:40**							
Hydroxide Alkalinity	ND	5000	ug/l	1	5C25010	03/25/05	03/25/05	SM 2320B	
Carbonate Alkalinity	ND	5000	"	"	"	"	"	"	
Bicarbonate Alkalinity	**310000**	5000	"	"	"	"	"	"	
Total Alkalinity	**310000**	5000	"	"	"	"	"	"	
Biochemical Oxygen Demand	**6800**	2000	"	"	5C22034	03/17/05 18:30	03/22/05	EPA 405.1	
Chemical Oxygen Demand	**70000**	30000	"	"	5C24023	03/24/05	03/24/05	EPA 410.4	
Ferric Iron	**29000**	100	"	"	5C31033	03/31/05	03/31/05	EPA 200.7	
Sulfide	ND	1000	"	"	5C31031	03/16/05	03/16/05	EPA 376.1	

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Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

Anions by EPA Method 300.0

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MOC0460-01) Water	**Sampled: 03/16/05 11:50**	**Received: 03/16/05 16:40**							
Nitrate as NO3	ND	500	ug/l	1	5C28016	03/17/05	03/17/05 21:54	EPA 300.0	
Phosphate (Ortho) as P	ND	1000	"	"	"	"	"	"	
Sulfate as SO4	**13000**	500	"	"	"	"	"	"	
MW-2 (MOC0460-02) Water	**Sampled: 03/16/05 10:25**	**Received: 03/16/05 16:40**							
Nitrate as NO3	**5300**	500	ug/l	1	5C28016	03/17/05	03/17/05 23:00	EPA 300.0	
Phosphate (Ortho) as P	ND	1000	"	"	"	"	"	"	
Sulfate as SO4	**38000**	5000	"	10	"	"	03/17/05	"	
AW-1 (MOC0460-04) Water	**Sampled: 03/16/05 11:05**	**Received: 03/16/05 16:40**							
Nitrate as NO3	ND	500	ug/l	1	5C28016	03/17/05	03/17/05 23:28	EPA 300.0	
Phosphate (Ortho) as P	ND	1000	"	"	"	"	"	"	
Sulfate as SO4	**580**	500	"	"	"	"	"	"	
AW-4 (MOC0460-07) Water	**Sampled: 03/16/05 09:25**	**Received: 03/16/05 16:40**							
Nitrate as NO3	ND	500	ug/l	1	5C28016	03/17/05	03/17/05 23:56	EPA 300.0	
Phosphate (Ortho) as P	ND	1000	"	"	"	"	"	"	
Sulfate as SO4	**71000**	5000	"	10	"	"	03/18/05	"	

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Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MOC0460-01) Water	**Sampled: 03/16/05 11:50**	**Received: 03/16/05 16:40**							
Total Organic Carbon	**4600**	800	ug/l	4	5030236	03/23/05	03/23/05	EPA 415.1	
MW-2 (MOC0460-02) Water	**Sampled: 03/16/05 10:25**	**Received: 03/16/05 16:40**							
Total Organic Carbon	**1400**	800	ug/l	4	5030236	03/23/05	03/23/05	EPA 415.1	
AW-1 (MOC0460-04) Water	**Sampled: 03/16/05 11:05**	**Received: 03/16/05 16:40**							
Total Organic Carbon	**3700**	800	ug/l	4	5030236	03/23/05	03/23/05	EPA 415.1	
AW-4 (MOC0460-07) Water	**Sampled: 03/16/05 09:25**	**Received: 03/16/05 16:40**							
Total Organic Carbon	**2300**	800	ug/l	4	5030236	03/23/05	03/23/05	EPA 415.1	

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Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

METALS - Quality Control

Del Mar Analytical, Irvine

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C25083 - EPA 200.2 ICP / EPA 200.7										
Blank (5C25083-BLK1)				Prepared: 03/25/05 Analyzed: 03/26/05						
Iron	ND	40	ug/l							
Blank (5C25083-BLK1)				Prepared: 03/25/05 Analyzed: 04/02/05						
Calcium	ND	100	"							
Magnesium	ND	20	"							
Manganese	ND	20	"							
Laboratory Control Sample (5C25083-BS1)				Prepared: 03/25/05 Analyzed: 03/26/05						
Iron	491	40	ug/l	500		98	85-115			
Laboratory Control Sample (5C25083-BS1)				Prepared: 03/25/05 Analyzed: 04/02/05						
Calcium	2430	100	"	2500		97	85-115			
Magnesium	2870	20	"	2500		115	85-115			
Manganese	511	20	"	500		102	85-115			
Matrix Spike (5C25083-MS1)	**Source: IOC1711-03**			Prepared: 03/25/05 Analyzed: 03/26/05						
Iron	918	40	ug/l	500	380	108	70-130			
Matrix Spike (5C25083-MS1)	**Source: IOC1711-03**			Prepared: 03/25/05 Analyzed: 04/02/05						
Calcium	52100	100	"	2500	47000	204	70-130			BB
Magnesium	20000	20	"	2500	17000	120	70-130			BB
Manganese	502	20	"	500	8.8	99	70-130			
Matrix Spike Dup (5C25083-MSD1)	**Source: IOC1711-03**			Prepared: 03/25/05 Analyzed: 03/26/05						
Iron	855	40	ug/l	500	380	95	70-130	7	20	
Matrix Spike Dup (5C25083-MSD1)	**Source: IOC1711-03**			Prepared: 03/25/05 Analyzed: 04/02/05						
Calcium	49700	100	"	2500	47000	108	70-130	5	20	BB
Magnesium	19200	20	"	2500	17000	88	70-130	4	20	BB
Manganese	503	20	"	500	8.8	99	70-130	0.2	20	

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INORGANICS - Quality Control

Del Mar Analytical, Irvine

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C21073 - General Prep / EPA 160.1										
Blank (5C21073-BLK1)				Prepared & Analyzed: 03/21/05						
Total Dissolved Solids	ND	10000	ug/l							
Laboratory Control Sample (5C21073-BS1)				Prepared & Analyzed: 03/21/05						
Total Dissolved Solids	968000	10000	ug/l	1000000		97	90-110			
Duplicate (5C21073-DUP1)	**Source: IOC1566-01**			Prepared & Analyzed: 03/21/05						
Total Dissolved Solids	320000	10000	ug/l		300000			6	10	
Batch 5C21075 - General Prep / EPA 160.1										
Blank (5C21075-BLK1)				Prepared & Analyzed: 03/21/05						
Total Dissolved Solids	ND	10000	ug/l							
Laboratory Control Sample (5C21075-BS1)				Prepared & Analyzed: 03/21/05						
Total Dissolved Solids	1030000	10000	ug/l	1000000		103	90-110			
Duplicate (5C21075-DUP1)	**Source: IOC1555-10**			Prepared & Analyzed: 03/21/05						
Total Dissolved Solids	114000	10000	ug/l		110000			4	10	
Batch 5C21106 - General Prep / EPA 350.3										
Blank (5C21106-BLK1)				Prepared & Analyzed: 03/21/05						
Ammonia-N	ND	500	ug/l							
Laboratory Control Sample (5C21106-BS1)				Prepared & Analyzed: 03/21/05						
Ammonia-N	1030	500	ug/l	1000		103	85-115			

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INORGANICS - Quality Control

Del Mar Analytical, Irvine

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C21106 - General Prep / EPA 350.3										
Matrix Spike (5C21106-MS1)	**Source: IOC1395-06**			Prepared & Analyzed: 03/21/05						
Ammonia-N	1400	500	ug/l	2000	ND	70	75-125			LN,AY
Matrix Spike Dup (5C21106-MSD1)	**Source: IOC1395-06**			Prepared & Analyzed: 03/21/05						
Ammonia-N	1460	500	ug/l	2000	ND	73	75-125	4	15	LN,AY
Batch 5C28090 - General Prep / EPA 350.3										
Blank (5C28090-BLK1)				Prepared & Analyzed: 03/28/05						
Ammonia-N	ND	500	ug/l							
Laboratory Control Sample (5C28090-BS1)				Prepared & Analyzed: 03/28/05						
Ammonia-N	1060	500	ug/l	1000		106	85-115			
Matrix Spike (5C28090-MS1)	**Source: IOC1931-05**			Prepared & Analyzed: 03/28/05						
Ammonia-N	1520	500	ug/l	2000	ND	76	75-125			
Matrix Spike Dup (5C28090-MSD1)	**Source: IOC1931-05**			Prepared & Analyzed: 03/28/05						
Ammonia-N	1510	500	ug/l	2000	ND	76	75-125	0.7	15	
Batch 5C22078 - General Prep / EPA 365.3										
Blank (5C22078-BLK1)				Prepared & Analyzed: 03/22/05						
Phosphorus	ND	50	ug/l							
Laboratory Control Sample (5C22078-BS1)				Prepared & Analyzed: 03/22/05						
Phosphorus	1090	50	ug/l	1000		109	80-120			

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INORGANICS - Quality Control

Del Mar Analytical, Irvine

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C22078 - General Prep / EPA 365.3										
Matrix Spike (5C22078-MS1)	**Source: MOC0460-04**			Prepared & Analyzed: 03/22/05						
Phosphorus	1420	50	ug/l	1000	320	110	65-130			
Matrix Spike Dup (5C22078-MSD1)	**Source: MOC0460-04**			Prepared & Analyzed: 03/22/05						
Phosphorus	1380	50	ug/l	1000	320	106	65-130	3	15	
Batch 5C25083 - EPA 200.2 ICP / SM2340B										
Blank (5C25083-BLK1)				Prepared: 03/25/05 Analyzed: 04/02/05						
Hardness (as CaCO3)	ND	1000	ug/l							

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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 5C25006 - EPA 5030B P/T / EPA 8260B										
Blank (5C25006-BLK1)				Prepared & Analyzed: 03/25/05						
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	*5.60*		"	*5.00*		*112*	*60-135*			
Laboratory Control Sample (5C25006-BS1)				Prepared & Analyzed: 03/25/05						
tert-Amyl methyl ether	10.4	0.50	ug/l	10.0		104	80-115			
Benzene	9.44	0.50	"	10.0		94	65-115			
tert-Butyl alcohol	51.5	20	"	50.0		103	75-150			
Di-isopropyl ether	10.7	0.50	"	10.0		107	75-125			
1,2-Dibromoethane (EDB)	9.34	0.50	"	10.0		93	85-120			
1,2-Dichloroethane	11.3	0.50	"	10.0		113	85-130			
Ethanol	184	100	"	200		92	70-135			
Ethyl tert-butyl ether	10.8	0.50	"	10.0		108	75-130			
Ethylbenzene	9.43	0.50	"	10.0		94	75-135			
Methyl tert-butyl ether	10.6	0.50	"	10.0		106	65-125			
Toluene	9.29	0.50	"	10.0		93	85-120			
Xylenes (total)	30.2	0.50	"	30.0		101	85-125			
Surrogate: 1,2-Dichloroethane-d4	*5.35*		"	*5.00*		*107*	*60-135*			

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
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URS Corporation [Arco]	Project:BP Heritage #11133, Oakland, CA	MOC0460
1333 Broadway, Suite 800	Project Number:G07TT-0019	**Reported:**
Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

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 5C25006 - EPA 5030B P/T / EPA 8260B										
Laboratory Control Sample (5C25006-BS2)				Prepared & Analyzed: 03/25/05						
Benzene	5.58	0.50	ug/l	6.40		87	65-115			
Ethylbenzene	7.86	0.50	"	7.52		105	75-135			
Methyl tert-butyl ether	10.1	0.50	"	9.92		102	65-125			
Toluene	33.2	0.50	"	31.9		104	85-120			
Xylenes (total)	40.8	0.50	"	36.6		111	85-125			
Gasoline Range Organics (C4-C12)	423	50	"	440		96	70-124			
Surrogate: 1,2-Dichloroethane-d4	*5.86*		"	*5.00*		*117*	*60-135*			
Laboratory Control Sample Dup (5C25006-BSD1)				Prepared & Analyzed: 03/25/05						
tert-Amyl methyl ether	11.0	0.50	ug/l	10.0		110	80-115	6	15	
Benzene	10.1	0.50	"	10.0		101	65-115	7	20	
tert-Butyl alcohol	48.7	20	"	50.0		97	75-150	6	25	
Di-isopropyl ether	11.3	0.50	"	10.0		113	75-125	5	15	
1,2-Dibromoethane (EDB)	9.78	0.50	"	10.0		98	85-120	5	15	
1,2-Dichloroethane	11.6	0.50	"	10.0		116	85-130	3	20	
Ethanol	179	100	"	200		90	70-135	3	35	
Ethyl tert-butyl ether	11.5	0.50	"	10.0		115	75-130	6	25	
Ethylbenzene	9.89	0.50	"	10.0		99	75-135	5	15	
Methyl tert-butyl ether	11.4	0.50	"	10.0		114	65-125	7	20	
Toluene	9.75	0.50	"	10.0		98	85-120	5	20	
Xylenes (total)	30.9	0.50	"	30.0		103	85-125	2	20	
Surrogate: 1,2-Dichloroethane-d4	*5.36*		"	*5.00*		*107*	*60-135*			
Matrix Spike (5C25006-MS1)	**Source: MOC0460-04**			Prepared & Analyzed: 03/25/05						
Benzene	1300	25	ug/l	320	1100	62	65-115			LN
Ethylbenzene	975	25	"	376	630	92	75-135			
Methyl tert-butyl ether	1180	25	"	496	720	93	65-125			
Toluene	1610	25	"	1600	30	99	85-120			
Xylenes (total)	2550	25	"	1830	560	109	85-125			
Gasoline Range Organics (C4-C12)	28400	2500	"	22000	10000	84	70-124			
Surrogate: 1,2-Dichloroethane-d4	*5.62*		"	*5.00*		*112*	*60-135*			

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URS Corporation [Arco]	Project:BP Heritage #11133, Oakland, CA	MOC0460
1333 Broadway, Suite 800	Project Number:G07TT-0019	**Reported:**
Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

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 5C25006 - EPA 5030B P/T / EPA 8260B										
Matrix Spike Dup (5C25006-MSD1)	**Source: MOC0460-04**			Prepared & Analyzed: 03/25/05						
Benzene	1400	25	ug/l	320	1100	94	65-115	7	20	
Ethylbenzene	1100	25	"	376	630	125	75-135	12	15	
Methyl tert-butyl ether	1030	25	"	496	720	62	65-125	14	20	LN
Toluene	1620	25	"	1600	30	99	85-120	0.6	20	
Xylenes (total)	2690	25	"	1830	560	116	85-125	5	20	
Gasoline Range Organics (C4-C12)	28300	2500	"	22000	10000	83	70-124	0.4	20	
Surrogate: 1,2-Dichloroethane-d4	*4.35*		"	*5.00*		*87*	*60-135*			
Batch 5C28010 - EPA 5030B P/T / EPA 8260B										
Blank (5C28010-BLK1)				Prepared & Analyzed: 03/28/05						
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	*4.05*		"	*5.00*		*81*	*60-135*			
Laboratory Control Sample (5C28010-BS1)				Prepared & Analyzed: 03/28/05						
tert-Amyl methyl ether	9.38	0.50	ug/l	10.0		94	80-115			
Benzene	8.36	0.50	"	10.0		84	65-115			
tert-Butyl alcohol	59.3	20	"	50.0		119	75-150			
Di-isopropyl ether	9.20	0.50	"	10.0		92	75-125			
1,2-Dibromoethane (EDB)	8.93	0.50	"	10.0		89	85-120			
1,2-Dichloroethane	9.76	0.50	"	10.0		98	85-130			
Ethanol	205	100	"	200		102	70-135			
Ethyl tert-butyl ether	9.42	0.50	"	10.0		94	75-130			
Ethylbenzene	9.59	0.50	"	10.0		96	75-135			
Methyl tert-butyl ether	8.95	0.50	"	10.0		90	65-125			

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URS Corporation [Arco]	Project:BP Heritage #11133, Oakland, CA	MOC0460
1333 Broadway, Suite 800	Project Number:G07TT-0019	**Reported:**
Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

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 5C28010 - EPA 5030B P/T / EPA 8260B										
Laboratory Control Sample (5C28010-BS1)				Prepared & Analyzed: 03/28/05						
Toluene	8.56	0.50	ug/l	10.0		86	85-120			
Xylenes (total)	30.9	0.50	"	30.0		103	85-125			
Surrogate: 1,2-Dichloroethane-d4	*4.99*		"	*5.00*		*100*	*60-135*			
Laboratory Control Sample (5C28010-BS2)				Prepared & Analyzed: 03/28/05						
Benzene	5.58	0.50	ug/l	6.40		87	65-115			
Ethylbenzene	7.84	0.50	"	7.52		104	75-135			
Methyl tert-butyl ether	10.0	0.50	"	9.92		101	65-125			
Toluene	32.5	0.50	"	31.9		102	85-120			
Xylenes (total)	39.7	0.50	"	36.6		108	85-125			
Gasoline Range Organics (C4-C12)	406	50	"	440		92	70-124			
Surrogate: 1,2-Dichloroethane-d4	*5.43*		"	*5.00*		*109*	*60-135*			
Laboratory Control Sample Dup (5C28010-BSD1)				Prepared & Analyzed: 03/28/05						
tert-Amyl methyl ether	9.74	0.50	ug/l	10.0		97	80-115	4	15	
Benzene	8.37	0.50	"	10.0		84	65-115	0.1	20	
tert-Butyl alcohol	59.4	20	"	50.0		119	75-150	0.2	25	
Di-isopropyl ether	9.36	0.50	"	10.0		94	75-125	2	15	
1,2-Dibromoethane (EDB)	9.50	0.50	"	10.0		95	85-120	6	15	
1,2-Dichloroethane	10.5	0.50	"	10.0		105	85-130	7	20	
Ethanol	205	100	"	200		102	70-135	0	35	IC
Ethyl tert-butyl ether	9.80	0.50	"	10.0		98	75-130	4	25	
Ethylbenzene	9.45	0.50	"	10.0		94	75-135	1	15	
Methyl tert-butyl ether	9.41	0.50	"	10.0		94	65-125	5	20	
Toluene	8.67	0.50	"	10.0		87	85-120	1	20	
Xylenes (total)	30.1	0.50	"	30.0		100	85-125	3	20	
Surrogate: 1,2-Dichloroethane-d4	*5.12*		"	*5.00*		*102*	*60-135*			

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URS Corporation [Arco]	Project:BP Heritage #11133, Oakland, CA	MOC0460
1333 Broadway, Suite 800	Project Number:G07TT-0019	**Reported:**
Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

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 5C28010 - EPA 5030B P/T / EPA 8260B										
Matrix Spike (5C28010-MS1)	**Source: MOC0479-04**			Prepared & Analyzed: 03/28/05						
Benzene	736	50	ug/l	640	160	90	65-115			
Ethylbenzene	809	50	"	752	ND	108	75-135			
Methyl tert-butyl ether	4860	50	"	992	3700	117	65-125			
Toluene	3180	50	"	3190	3.6	100	85-120			
Xylenes (total)	4300	50	"	3660	ND	117	85-125			
Gasoline Range Organics (C4-C12)	45500	5000	"	44000	3900	95	70-124			
Surrogate: 1,2-Dichloroethane-d4	*4.45*		"	*5.00*		*89*	*60-135*			
Matrix Spike Dup (5C28010-MSD1)	**Source: MOC0479-04**			Prepared & Analyzed: 03/28/05						
Benzene	714	50	ug/l	640	160	87	65-115	3	20	
Ethylbenzene	775	50	"	752	ND	103	75-135	4	15	
Methyl tert-butyl ether	5310	50	"	992	3700	162	65-125	9	20	BB,LM
Toluene	3240	50	"	3190	3.6	101	85-120	2	20	
Xylenes (total)	3950	50	"	3660	ND	108	85-125	8	20	
Gasoline Range Organics (C4-C12)	45700	5000	"	44000	3900	95	70-124	0.4	20	
Surrogate: 1,2-Dichloroethane-d4	*5.32*		"	*5.00*		*106*	*60-135*			

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URS Corporation [Arco]	Project:BP Heritage #11133, Oakland, CA	MOC0460
1333 Broadway, Suite 800	Project Number:G07TT-0019	**Reported:**
Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

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 5C31033 - General Preparation / EPA 200.7										
Blank (5C31033-BLK1)				Prepared & Analyzed: 03/31/05						
Ferric Iron	ND	100	ug/l							
Batch 5C31031 - General Preparation / EPA 376.1										
Blank (5C31031-BLK1)				Prepared & Analyzed: 03/16/05						
Sulfide	ND	1000	ug/l							
Laboratory Control Sample (5C31031-BS1)				Prepared & Analyzed: 03/16/05						
Sulfide	10100	1000	ug/l	10200		99	80-115			
Matrix Spike (5C31031-MS1)	**Source: MOC0460-01**			Prepared & Analyzed: 03/16/05						
Sulfide	10100	1000	ug/l	10200	ND	99	80-115			
Matrix Spike Dup (5C31031-MSD1)	**Source: MOC0460-01**			Prepared & Analyzed: 03/16/05						
Sulfide	9700	1000	ug/l	10200	ND	95	80-115	4	20	
Batch 5C22034 - General Preparation / EPA 405.1										
Blank (5C22034-BLK1)				Prepared: 03/17/05 Analyzed: 03/22/05						
Biochemical Oxygen Demand	ND	2000	ug/l							
Laboratory Control Sample (5C22034-BS1)				Prepared: 03/17/05 Analyzed: 03/22/05						
Biochemical Oxygen Demand	196000	2000	ug/l	198000		99	75-120			
Duplicate (5C22034-DUP1)	**Source: MOC0460-01**			Prepared: 03/17/05 Analyzed: 03/22/05						
Biochemical Oxygen Demand	16800	2000	ug/l		18000			7	50	

Sequoia Analytical

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URS Corporation [Arco]	Project:BP Heritage #11133, Oakland, CA	MOC0460
1333 Broadway, Suite 800	Project Number:G07TT-0019	**Reported:**
Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

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 5C24023 - General Preparation / EPA 410.4										
Blank (5C24023-BLK1)				Prepared & Analyzed: 03/24/05						
Chemical Oxygen Demand	ND	30000	ug/l							
Laboratory Control Sample (5C24023-BS1)				Prepared & Analyzed: 03/24/05						
Chemical Oxygen Demand	86000	30000	ug/l	100000		86	75-120			
Matrix Spike (5C24023-MS1)	**Source: MOC0460-01**			Prepared & Analyzed: 03/24/05						
Chemical Oxygen Demand	212000	33000	ug/l	111000	100000	101	75-120			
Matrix Spike Dup (5C24023-MSD1)	**Source: MOC0460-01**			Prepared & Analyzed: 03/24/05						
Chemical Oxygen Demand	211000	33000	ug/l	111000	100000	100	75-120	0.5	15	
Batch 5C25010 - General Preparation / SM 2320B										
Blank (5C25010-BLK1)				Prepared & Analyzed: 03/25/05						
Bicarbonate Alkalinity	ND	5000	ug/l							
Carbonate Alkalinity	ND	5000	"							
Hydroxide Alkalinity	ND	5000	"							
Laboratory Control Sample (5C25010-BS1)				Prepared & Analyzed: 03/25/05						
Total Alkalinity	104000	5000	ug/l	100000		104	80-120			
Matrix Spike (5C25010-MS1)	**Source: MOC0633-01**			Prepared & Analyzed: 03/25/05						
Total Alkalinity	166000	5000	ug/l	100000	62000	104	75-125			
Matrix Spike Dup (5C25010-MSD1)	**Source: MOC0633-01**			Prepared & Analyzed: 03/25/05						
Total Alkalinity	168000	5000	ug/l	100000	62000	106	75-125	1	20	

Sequoia Analytical

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URS Corporation [Arco]	Project:BP Heritage #11133, Oakland, CA	MOC0460
1333 Broadway, Suite 800	Project Number:G07TT-0019	**Reported:**
Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

Anions by EPA Method 300.0 - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C28016 - General Preparation / EPA 300.0										
Blank (5C28016-BLK1)				Prepared & Analyzed: 03/17/05						
Phosphate (Ortho) as P	ND	1000	ug/l							
Sulfate as SO4	ND	500	"							
Nitrate as NO3	ND	500	"							
Laboratory Control Sample (5C28016-BS1)				Prepared & Analyzed: 03/17/05						
Phosphate (Ortho) as P	2450	1000	ug/l	2500		98	70-130			
Nitrate as NO3	9520	500	"	10000		95	80-115			
Sulfate as SO4	10000	500	"	10000		100	80-120			
Matrix Spike (5C28016-MS1)	**Source: MOC0460-01**			Prepared & Analyzed: 03/17/05						
Phosphate (Ortho) as P	242000	100000	ug/l	250000	58	97	70-130			
Nitrate as NO3	957000	50000	"	1000000	ND	96	80-115			
Sulfate as SO4	1010000	50000	"	1000000	13000	100	80-120			
Matrix Spike Dup (5C28016-MSD1)	**Source: MOC0460-01**			Prepared & Analyzed: 03/17/05						
Phosphate (Ortho) as P	250000	100000	ug/l	250000	58	100	70-130	3	10	
Nitrate as NO3	955000	50000	"	1000000	ND	96	80-115	0.2	10	
Sulfate as SO4	1010000	50000	"	1000000	13000	100	80-120	0	10	

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URS Corporation [Arco]	Project:BP Heritage #11133, Oakland, CA	MOC0460
1333 Broadway, Suite 800	Project Number:G07TT-0019	**Reported:**
Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030236 - General Preparation / EPA 415.1										
Blank (5030236-BLK1)				Prepared & Analyzed: 03/23/05						
Total Organic Carbon	ND	200	ug/l							
Laboratory Control Sample (5030236-BS1)				Prepared & Analyzed: 03/23/05						
Total Organic Carbon	8970	200	ug/l	10000		90	80-120			
Matrix Spike (5030236-MS1)	**Source: P503202-01**			Prepared & Analyzed: 03/23/05						
Total Organic Carbon	107000	1600	ug/l	40000	72000	88	75-125			
Matrix Spike Dup (5030236-MSD1)	**Source: P503202-01**			Prepared & Analyzed: 03/23/05						
Total Organic Carbon	133000	1600	ug/l	40000	72000	152	75-125	22	20	BA, BB,LM

Sequoia Analytical

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URS Corporation [Arco]	Project:BP Heritage #11133, Oakland, CA	MOC0460
1333 Broadway, Suite 800	Project Number:G07TT-0019	**Reported:**
Oakland CA, 94612	Project Manager:Lynelle Onishi	04/05/05 11:33

Notes and Definitions

LN,AY	MS and/or MSD below acceptance limits. See Blank Spike(LCS). Matrix interference suspected.
LN	MS and/or MSD below acceptance limits. See Blank Spike(LCS).
IC	Calib. verif. is within method limits but outside contract limits
BB,LM	Sample > 4x spike concentration. MS and/or MSD above acceptance limits. See Blank Spike(LCS).
BB	Sample > 4x spike concentration
BA	Relative percent difference out of control
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Calscience
Environmental
Laboratories, Inc.

March 23, 2005

Lisa Race
Sequoia Analytical - Morgan Hill
885 Jarvis Drive
Morgan Hill, CA 95037-0000

Subject: **Calscience Work Order No.: 05-03-1182**
Client Reference: MOC0460

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 3/18/2005 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Robert Stearns
Project Manager

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Sequoia Analytical - Morgan Hill	Date Sampled:	03/16/05
885 Jarvis Drive	Date Received:	03/18/05
Morgan Hill, CA 95037-0000	Date Analyzed:	03/18/05
	Work Order No.:	05-03-1182
Attn: Lisa Race	Method:	RSK-175M
RE: MOC0460	Page 1 of 1	

All concentrations are reported in mg/L (ppm).

Sample Number	Carbon Dioxide Concentration	Reporting Limit
MOC0460-01	49.9	0.17
MOC0460-02	7.37	0.17
MOC0460-04	81.4	0.17
MOC0460-07	54.2	0.17
Method Blank	ND	0.17

QA/QC

Sample Number: Laboratory Control Sample

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen (O_2) + Argon (Ar)	20.1	20.2	0	0 - 30
Nitrogen (N_2)	72.3	72.3	0	0 - 30
Carbon Dioxide (CO_2)	5.03	5.01	0	0 - 30

Calscience Environmental Laboratories, Inc.

Analytical Report

Sequoia Analytical - Morgan Hill
885 Jarvis Drive
Morgan Hill, CA 95037-0000

Date Received: 03/18/05
Work Order No: 05-03-1182
Preparation: N/A
Method: RSK-175M

Project: MOC0460

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MOC0460-01	05-03-1182-1	03/16/05	Aqueous	N/A	03/18/05	050318L01

Parameter	Result	RL	DF	Qual	Units
Methane	4550	40	40		ug/L

MOC0460-02	05-03-1182-2	03/16/05	Aqueous	N/A	03/18/05	050318L01

Parameter	Result	RL	DF	Qual	Units
Methane	ND	1.00	1		ug/L

MOC0460-04	05-03-1182-3	03/16/05	Aqueous	N/A	03/18/05	050318L01

Parameter	Result	RL	DF	Qual	Units
Methane	3290	40	40		ug/L

MOC0460-07	05-03-1182-4	03/16/05	Aqueous	N/A	03/18/05	050318L01

Parameter	Result	RL	DF	Qual	Units
Methane	585	20	20		ug/L

Method Blank	099-12-010-887	N/A	Aqueous	N/A	03/18/05	050318L01

Parameter	Result	RL	DF	Qual	Units
Methane	ND	1.00	1		ug/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Sequoia Analytical - Morgan Hill	Date Received: N/A
885 Jarvis Drive	Work Order No: 05-03-1182
Morgan Hill, CA 95037-0000	Preparation: N/A
	Method: RSK-175M

Project: MOC0460

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-010-887	Aqueous	GC 33	N/A	03/18/05	050318L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Methane	100	101	79-109	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 05-03-1182

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

SUBCONTRACT ORDER

Printed: 3/17/05 3:22:05PM

Sequoia Analytical - Morgan Hill

MOC0460

(182)

SENDING LABORATORY:	RECEIVING LABORATORY:	
Sequoia Analytical - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037 Phone: 408-776-9600 Fax: 408-782-6308 Project Manager: Lisa Race Sending lab received date: 03/16/05 16:40	Calscience Environmental 7440 Lincoln Way Garden Grove, CA 92841 Phone: (714) 895-5494 Fax: (714) 894-7501	☐ Drinking Water ☐ Waste Water ☐ Other

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: MOC0460-01 (Water sampled on 03/16/05 11:50)			[redacted]	BP grieving
COELT Deliverables	03/28/05 12:00	06/23/05 11:50		Calscience
Dissolved Gases	03/28/05 12:00	03/23/05 11:50		Calscience,carbon dioxide & methane ASTM only
Containers Supplied:				
VOA Unpres (I)	VOA Unpres (J)	VOA Unpres (K)		
Sample ID: MOC0460-02 (Water sampled on 03/16/05 10:25)			[redacted]	
Dissolved Gases	03/28/05 12:00	03/23/05 10:25		Calscience,carbon dioxide & methane ASTM only
Containers Supplied:				
VOA Unpres (I)	VOA Unpres (J)	VOA Unpres (K)		
Sample ID: MOC0460-04 (Water sampled on 03/16/05 11:05)			[redacted]	
Dissolved Gases	03/28/05 12:00	03/23/05 11:05		Calscience,carbon dioxide & methane ASTM only
Containers Supplied:				
VOA Unpres (I)	VOA Unpres (J)	VOA Unpres (K)		
Sample ID: MOC0460-07 (Water sampled on 03/16/05 09:25)			[redacted]	
Dissolved Gases	03/28/05 12:00	03/23/05 09:25		Calscience,carbon dioxide & methane ASTM only
Containers Supplied:				
VOA Unpres (I)	VOA Unpres (J)	VOA Unpres (K)		

Released By	Date	Time	Received By	Date	Time
[signature]	3/17/05	1713			
CO	3-18-05	0840	[signature]	3-18-05	0840
Released By	Date	Time	Received By	Date	Time

Chain of Custody Record

(1182)

bp

REVISED

Project Name: Analytical for ~~SSI sampling~~ QMR SAMPLING

BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 11133 > HistoricalBL

State or Lead Regulatory Agency: California Regional Water Quality Control Board - San Fr

Requested Due Date (mm/dd/yy): 10 Day TAT

On-site Time: 735	Temp: 70°F
Off-site Time:	Temp:
Sky Conditions: clear	
Meteorological Events: none	
Wind Speed:	Direction:

Lab Name: [redacted]	BP/AR Facility No.: 11133	Consultant/Contractor: URS
Address: 88[illegible] Jarvis Drive	BP/AR Facility Address: 2220 98th Ave., Oakland, CA 94603	Address: 1333 Broadway, Suite 800
Morgan Hill, CA 95037	Site Lat/Long: 37.748269 / -122.161	Oakland, CA 94612 ad 3/7/05
Lab PM: Lisa Race	California Global ID No.: T0600100210 ad 3/7/05	Consultant/Contractor Project No.: 38487140
Tele/Fax: 408.782.8156 / 408.782.6308	Enfos Project No.: - G07TT-002~~0~~ 19	Consultant/Contractor PM: ~~Leonard Niles~~ Lynelle Onishi
BP/AR PM Contact: Paul Supple	Provision or RCOP: Provision	Tele/Fax: 510.874.1720 / 510.874.3268
Address: P.O. Box 6549	Phase/WBS: ~~01 - Assessment~~ 04 - Mon/Remed by natural attenuation	Report Type & QC Level: Level 1 with EDF
Moraga, CA 94570	Sub Phase/Task: 03 - Analytical	E-mail EDD To: Rachel_Lindvall@urscorp.com
Tele/Fax: 925.299.8891 / 925.299.8872	Cost Element: 05 - Subcontracted Costs	Invoice to: Atlantic Richfield Company

Lab Bottle Order No: 11133

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Preservative:	Requested Analysis: Nitrate, Sulfate 300.0	Orthophosphate 300.0	Alkalinity SM2320B	Ferric Iron	COD 410.1	TDS	Total Phosphorus 365.3	Ammonia as N 350.1	BOD 405.1	TOC	FERROUS IRON READINGS: (M020460)
1	MW-1	1150	3/1/05		X		61	14	X	X	X	X			X	X	X	X	X	X	X	X	X	X	0.7 mg/L
2	MW-2	1025	↓		X		62	14	X	X	X	X			X	X	X	X	X	X	X	X	X	X	2.7
3	AW-1	1105	↓		X		64	14	X	X	X	X			X	X	X	X	X	X	X	X	X	X	3.4
4	AW-4	925	↓		X		67	14	X	X	X	X			X	X	X	X	X	X	X	X	X	X	1.4
5																									
6																									
7																									
8																									
9																									
10																									

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: P. Cowith						
Sampler's Company: Blaine Tech	[illegible]	3/1/05	1556	T Sluyter	3/6	16
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place Yes No   Temp Blank Yes ✓ No   Cooler Temperature on Receipt ____ °F/C   Trip Blank Yes ✓ No

Chain of Custody Record ~~~ 3/17/05

bp

REVISED

(1182) Page 1 of 3

Project Name:	Analytical for ~~SSI~~ sampling QMC SAMPLING
BP BU/AR Region/Enfos Segment:	BP > Americas > West Coast > Retail > WCBU > CA > Central > 11133 > HistoricalBL
State or Lead Regulatory Agency:	California Regional Water Quality Control Board - San Fran
Requested Due Date (mm/dd/yy):	10 Day TAT

On-site Time: 735	Temp: 70°F
Off-site Time:	Temp:
Sky Conditions: Clear	
Meteorological Events: none	
Wind Speed:	Direction:

Lab Name: [redacted]	BP/AR Facility No.: 11133	Consultant/Contractor: URS
Address: 885 Jarvis Drive	BP/AR Facility Address: 2220 98th Ave., Oakland, CA 94603	Address: 1333 Broadway, Suite 800
Morgan Hill, CA 95037	Site Lat/Long: 37.748269 / -122.161	Oakland, CA 94612 ~~~ 3/17/05
Lab PM: Lisa Race	California Global ID No.: T0600100210 ~~~ 3/17/05	Consultant/Contractor Project No.: 38487140
Tele/Fax: 408.782.8156 / 408.782.6308	Enfos Project No.: G07TT-0028 19	Consultant/Contractor PM: ~~Leonard Niles~~ Lynelle Onishi
BP/AR PM Contact: Paul Supple	Provision or RCOP: Provision	Tele/Fax: 510.874.1720 / 510.874.3268
Address: P.O. Box 6549	Phase/WBS: ~~01 - Assessment~~ 04-Mon/Remed by Natural Attenuation	Report Type & QC Level: Level 1 with EDF
Moraga, CA 94570	Sub Phase/Task: 03 - Analytical	E-mail EDD To: Rachel_Lindvall@urscorp.com
Tele/Fax: 925.299.8891 / 925.299.8872	Cost Element: 05 - Subcontracted Costs	Invoice to: Atlantic Richfield Company

Lab Bottle Order No: 11133

M0C0460

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	H_2SO_4	HNO_3	HCl	Methanol		Requested Analysis: GRO / BTEX (8260)	MTBE, TAME, ETBE, DIPE, TBA (8260)	1,2-DCA & EDB (8260)	ETHANOL (8260)	Sulfides 376.1	Manganese, Magnesium 200.7	Hardness as CaCO3 SM2340B	Carbon Dioxide ASTM	Methane ASTM		Sample Point Lat/Long and Comments
1	✓ MW-1	1156	3/16/05		X		01	14	X	X	X	X			X	X	X	X	X	X	X	X	X		
2	✓ MW-2	1026	↓		X		02	14	X	X	X	X			X	X	X	X	X	X	X	X	X		
3	✓ MW-3	1238	↓		X		03	3	~~X~~	~~X~~	~~X~~	X			X	X	X	X							
4	✓ AW-1	1105	↓		X		04	14	X	X	X	X			X	X	X	X	X	X	X	X	X		
5	✓ AW-2	1310	↓		X		05	3	~~X~~	~~X~~	~~X~~	X			X	X	X	X							
6	✓ AW-3	1210	↓		X		06	3	~~X~~	~~X~~	~~X~~	X			X	X	X	X							
7	✓ MW-4	926	↓		X		07	14	X	X	X	X			X	X	X	X	X	X	X	X	X		
8	✓ AW-5	1420	↓		X		08	3	~~X~~	~~X~~	~~X~~	X			X	X	X	X							
9	✓ AW-6	1320	↓		X		09	3	~~X~~	~~X~~	~~X~~	X			X	X	X	X							
10	✓ AW-8	1340	↓		X		10	3	~~X~~	~~X~~	~~X~~	X			X	X	X	X							

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: P. Cornish						
Sampler's Company: Blaine Tech	[signature]	3/16/05	1556	F. [signature]	3/16/05	16
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place Yes No   Temp Blank Yes X No   Cooler Temperature on Receipt ____ °F/C   Trip Blank Yes X No

Distribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor

BP COC Rev. 4 10/1/04

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 05 - 03 - 1182

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: SEQUOIA ANALYTICAL DATE: 3-18-05

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
3.9 °C IR thermometer.
_____ Ambient temperature.

Initial: WB

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A): ✓

Initial: WB

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: WB

COMMENTS:

REVISED

Chain of Custody Record ~~w 3/17/05~~

Page 1 of 3

Project Name: Analytical for ~~SSI sampling~~ QMC SAMPLING

BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 11133 > HistoricalBL

State or Lead Regulatory Agency: California Regional Water Quality Control Board - San Franc

Requested Due Date (mm/dd/yy): 10 Day TAT

On-site Time: 735	Temp: 70°F
Off-site Time:	Temp:
Sky Conditions: Clear	
Meteorological Events: none	
Wind Speed:	Direction:

Lab Name: [redacted]	BP/AR Facility No.: 11133	Consultant/Contractor: URS
Address: 885 Jarvis Drive	BP/AR Facility Address: 2220 98th Ave., Oakland, CA 94603	Address: 1333 Broadway, Suite 800
Morgan Hill, CA 95037	Site Lat/Long: 37.748269 / -122.161	Oakland, CA 94612 w 3/17/05
Lab PM: Lisa Race	California Global ID No.: T0600100210 w 3/17/05	Consultant/Contractor Project No.: 38487140
Tele/Fax: 408.782.8156 / 408.782.6308	Enfos Project No.: G07TT-00~~20~~ 19	Consultant/Contractor PM: ~~Leonard Niles~~ Lynelle Onishi
BP/AR PM Contact: Paul Supple	Provision or RCOP: Provision	Tele/Fax: 510.874.1720 / 510.874.3268
Address: P.O. Box 6549	Phase/WBS: ~~01 - Assessment~~ 04-Mon/Remed by Natural Attenuation	Report Type & QC Level: Level 1 with EDF
Moraga, CA 94570	Sub Phase/Task: 03 - Analytical	E-mail EDD To: Rachel_Lindvall@urscorp.com
Tele/Fax: 925.299.8891 / 925.299.8872	Cost Element: 05 - Subcontracted Costs	Invoice to: Atlantic Richfield Company

Lab Bottle Order No: 11133

M0C0460

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol		Requested Analysis: GRO / BTEX (8260)	MTBE, TAME, ETBE, DIPE, TBA (8260)	1,2-DCA & EDB (8260)	ETHANOL (8260)	Sulfides 376.1	Manganese, Magnesium 200.7	Hardness as CaCO3 SM2340B	Carbon Dioxide ASTM	Methane ASTM		Sample Point Lat/Long and Comments
1	✓ MW-1	1150	3/16/05		X		01	14	X	X	X	X			X	X	X	X	X	X	X	X	X		
2	✓ MW-2	1025	↓		X		02	14	X	X	X	X			X	X	X	X	X	X	X	X	X		
3	✓ MW-3	1238			X		03	3	~~X~~	~~X~~	~~X~~	X			X	X	X	X							
4	✓ AW-1	1105			X		04	14	X	X	X	X			X	X	X	X	X	X	X	X	X		
5	✓ AW-2	1310			X		05	3	~~X~~	~~X~~	~~X~~	X			X	X	X	X							
6	✓ AW-3	1410			X		06	3	~~X~~	~~X~~	~~X~~	X			X	X	X	X							
7	✓ AW-4	925			X		07	14	X	X	X	X			X	X	X	X	X	X	X	X	X		
8	✓ AW-5	1428			X		08	3	~~X~~	~~X~~	~~X~~	X			X	X	X	X							
9	✓ AW-6	1550			X		09	3	~~X~~	~~X~~	~~X~~	X			X	X	X	X							
10	✓ AW-8	1340	↓		X		10	3	~~X~~	~~X~~	~~X~~	X			X	X	X	X							

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: P. Cornish						
Sampler's Company: Blaine Tech	[illegible]	3/16/05	1556	F. Jimenez	3/16/05	16
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place Yes No | Temp Blank Yes X No | Cooler Temperature on Receipt °F/C | Trip Blank Yes X No

Chain of Custody Record

REVISED

Project Name: Analytical for ~~SSI sampling~~ QMR SAMPLING
BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 11133 > Historical/BL
State or Lead Regulatory Agency: California Regional Water Quality Control Board - San Fr
Requested Due Date (mm/dd/yy): 10 Day TAT

On-site Time: 755	Temp: 70°F
Off-site Time:	Temp:
Sky Conditions: clear	
Meteorological Events: none	
Wind Speed:	Direction:

Lab Name: [redacted]	
Address: 885 Jarvis Drive	
Morgan Hill, CA 95037	
Lab PM: Lisa Race	
Tele/Fax: 408.782.8156 / 408.782.6308	
BP/AR PM Contact: Paul Supple	
Address: P.O. Box 6549	
Moraga, CA 94570	
Tele/Fax: 925.299.8891 / 925.299.8872	

BP/AR Facility No.:	11133
BP/AR Facility Address:	2220 98th Ave., Oakland, CA 94603
Site Lat/Long:	37.748269 / -122.161
California Global ID No.:	T0600100210 wa 3/17/05
Enfos Project No.:	G07TT-0029 19
Provision or RCOP:	Provision
Phase/WBS:	~~01 - Assessment~~ 04 - Mon/Remed by natural attenuation
Sub Phase/Task:	03 - Analytical
Cost Element:	05 - Subcontracted Costs

Consultant/Contractor:	URS
Address:	1333 Broadway, Suite 800
	Oakland, CA 94612 wa 7/6/05
Consultant/Contractor Project No.:	38487140
Consultant/Contractor PM:	~~Leonard Niles~~ Lynette Ouch
Tele/Fax:	510.874.1720 / 510.874.3268
Report Type & QC Level:	Level 1 with EDF
E-mail EDD To:	Rachel.Lindvall@urscorp.com
Invoice to:	Atlantic Richfield Company

Lab Bottle Order No: 11133

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: Nitrate, Sulfate 300.0	Requested Analysis: Orthophosphate 300.0	Requested Analysis: Alkalinity SM2320B	Requested Analysis: Ferric Iron	Requested Analysis: COD 410.1	Requested Analysis: TDS	Requested Analysis: Total Phosphorus 365.3	Requested Analysis: Ammonia as N 350.1	Requested Analysis: BOD 405.1	Requested Analysis: TOC	MOC060 FIELD FERROUS IRON READINGS
1	MW-1	1150	3/16/05		X		61	14	X	X	X	X		X	X	X	X	X	X	X	X	X	X	0.7 mg/L
2	MW-2	1025			X		62	14	X	X	X	X		X	X	X	X	X	X	X	X	X	X	2.7
3	AW-1	1105			X		64	14	X	X	X	X		X	X	X	X	X	X	X	X	X	X	3.4
4	AW-4	925			X		67	14	X	X	X	X		X	X	X	X	X	X	X	X	X	X	1.4
5																								
6																								
7																								
8																								
9																								
10																								

Sampler's Name:	P. Conuth
Sampler's Company:	Blaine Tech
Shipment Date:	
Shipment Method:	
Shipment Tracking No:	

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
[signature]	3/16/05	1556	[signature]	3/16	16

Special Instructions:

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

Distribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor

bp

Chain of Custody Record

wow 3/17/05

REVISED

Project Name: Analytical for ~~SSI sampling~~ OMR SAMPLING

BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 11133 > HistoricalBL

State or Lead Regulatory Agency: California Regional Water Quality Control Board - San Fran

Requested Due Date (mm/dd/yy): 10 Day TAT

On-site Time: 735	Temp: 70°F
Off-site Time:	Temp:
Sky Conditions: clear	
Meteorological Events: none	
Wind Speed:	Direction:

Lab Name: [redacted]	BP/AR Facility No.: 11133	Consultant/Contractor: URS
Address: 885 Jarvis Drive	BP/AR Facility Address: 2220 98th Ave., Oakland, CA 94603	Address: 1333 Broadway, Suite 800
Morgan Hill, CA 95037	Site Lat/Long: 37.748269 / -122.161	Oakland, CA 94612 ww 3/17/05
Lab PM: Lisa Race	California Global ID No.: T06001002 ~~80~~ ww 3/17/05	Consultant/Contractor Project No.: 38487140
Tele/Fax: 408.782.8156 / 408.782.6308	Enfos Project No.: G07TT-00~~28~~ 19	Consultant/Contractor PM: ~~Leonard Niles~~ Lynelle Onishi
BP/AR PM Contact: Paul Supple	Provision or RCOP: Provision	Tele/Fax: 510.874.17~~20~~ / 510.874.3268
Address: P.O. Box 6549	Phase/WBS: ~~01 - Assessment~~ 04 - Mon/Remed by Natural Attenuation	Report Type & QC Level: Level 1 with EDF
Moraga, CA 94570	Sub Phase/Task: 03 - Analytical	E-mail EDD To: Rachel_Lindvall@urscorp.com
Tele/Fax: 925.299.8891 / 925.299.8872	Cost Element: 05 - Subcontracted Costs	Invoice to: Atlantic Richfield Company

Lab Bottle Order No: 11133

MOC 0440

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	GRO / BTEX (8260)	MTBE, TAME, ETBE, DIPE, TBA (8260)	1,2-DCA & EDB (8260)	ETHANOL (8260)	Sulfides 376.1	Manganese, Magnesium 200.7	Hardness as CaCO3 SM2340B	Carbon Dioxide ASTM	Methane ASTM		Sample Point Lat/Long and Comments
1	✓ RW-1	1512	3/16/05		X		11	3				X		X	X	X	X							
2	✓ TB-11133-03162005		↓		X		11	2				X												on hold
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: P. Crowley	BW / BW	3/16/05	1556	F SIMPLE #2	3/16	16
Sampler's Company: Blaine Tech						
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place Yes No   Temp Blank Yes X No   Cooler Temperature on Receipt °F/C   Trip Blank Yes X No

Chain of Custody Record

Project Name: Analytical for SSI sampling

BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 11133 > HistoricalBL

State or Lead Regulatory Agency: California Regional Water Quality Control Board - San Franc

Requested Due Date (mm/dd/yy): 10 Day TAT

On-site Time: 725	Temp: 700
Off-site Time:	Temp:
Sky Conditions: clear	
Meteorological Events: none	
Wind Speed:	Direction:

Lab Name: Sequoia	BP/AR Facility No.: 11133	Consultant/Contractor: URS
Address: 885 Jarvis Drive	BP/AR Facility Address: 2220 98th Ave., Oakland, CA 94603	Address: 1333 Broadway, Suite 800
Morgan Hill, CA 95037	Site Lat/Long: 37.748269 / -122.161	Oakland, CA 94612
Lab PM: Lisa Race	California Global ID No.: T0600100210	Consultant/Contractor Project No.: 38487140
Tele/Fax: 408.782.8156 / 408.782.6308	Enfos Project No.: G07TT-0020	Consultant/Contractor PM: Leonard Niles
BP/AR PM Contact: Paul Supple	Provision or RCOP: Provision	Tele/Fax: 510.874.1720 / 510.874.3268
Address: P.O. Box 6549	Phase/WBS: 01 - Assessment	Report Type & QC Level: Level 1 with EDF
Moraga, CA 94570	Sub Phase/Task: 03 - Analytical	E-mail EDD To: Rachel_Lindvall@urscorp.com
Tele/Fax: 925.299.8891 / 925.299.8872	Cost Element: 05 - Subcontracted Costs	Invoice to: Atlantic Richfield Company

Lab Bottle Order No: 11133

MOC0460

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO / BTEX (8260)	Requested Analysis: MTBE, TAME, ETBE, DIPE, TBA (8260)	Requested Analysis: 1,2-DCA & EDB (8260)	Requested Analysis: ETHANOL (8260)	Requested Analysis: Sulfides 376.1	Requested Analysis: Manganese, Magnesium 200.7	Requested Analysis: Hardness as CaCO3 SM2340B	Requested Analysis: Carbon Dioxide ASTM	Requested Analysis: Methane ASTM	Sample Point Lat/Long and Comments
1	MW-1	1150	3/14/05		X		01	14	X	X	X	X		X	X	X	X	X	X	X	X	X	X	
2	MW-2	1035			X		02	14	X	X	X	X		X	X	X	X	X	X	X	X	X	X	
3	MW-3	1238			X		03	3	X	X	X	X		X	X	X	X							
4	AW-1	1105			X		04	14	X	X	X	X		X	X	X	X	X	X	X	X	X	X	
5	AW-2	1310			X		05	3	X	X	X	X		X	X	X	X							
6	AW-3	1410			X		06	3	X	X	X	X		X	X	X	X							
7	AW-4	1926			X		07	14	X	X	X	X		X	X	X	X	X	X	X	X	X	X	
8	AW-5	1428			X		08	3	X	X	X	X		X	X	X	X							
9	AW-6	1520			X		09	3	X	X	X	X		X	X	X	X							
10	AW-8	1340	↓		X		10	3	X	X	X	X		X	X	X	X							

Sampler's Name:	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Blaine Tech						
Shipment Date:		3/16/05	1556		3/16/05	16
Shipment Method:			1640		3/16/05	1640
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place Yes No Temp Blank Yes X No Cooler Temperature on Receipt °F/C Trip Blank Yes X No

Chain of Custody Record

Project Name: Analytical for SSI sampling

BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 11133 > HistoricalBL

State or Lead Regulatory Agency: California Regional Water Quality Control Board - San Fran

Requested Due Date (mm/dd/yy): 10 Day TAT

On-site Time: 735	Temp: 70F
Off-site Time:	Temp:
Sky Conditions: clear	
Meteorological Events: none	
Wind Speed:	Direction:

Lab Name: Sequoia	BP/AR Facility No.: 11133	Consultant/Contractor: URS
Address: 885 Jarvis Drive	BP/AR Facility Address: 2220 98th Ave., Oakland, CA 94603	Address: 1333 Broadway, Suite 800
Morgan Hill, CA 95037	Site Lat/Long: 37.748269 / -122.161	Oakland, CA 94612
Lab PM: Lisa Race	California Global ID No.: T0600100210	Consultant/Contractor Project No.: 38487140
Tele/Fax: 408.782.8156 / 408.782.6308	Enfos Project No.: G07TT-0020	Consultant/Contractor PM: Leonard Niles
BP/AR PM Contact: Paul Supple	Provision or RCOP: Provision	Tele/Fax: 510.874.1720 / 510.874.3268
Address: P.O. Box 6549	Phase/WBS: 01 - Assessment	Report Type & QC Level: Level 1 with EDF
Moraga, CA 94570	Sub Phase/Task: 03 - Analytical	E-mail EDD To: Rachel_Lindvall@urscorp.com
Tele/Fax: 925.299.8891 / 925.299.8872	Cost Element: 05 - Subcontracted Costs	Invoice to: Atlantic Richfield Company

Lab Bottle Order No: 11133

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO / BTEX (8260)	Requested Analysis: MTBE, TAME, ETBE, DIPE, TBA (8260)	Requested Analysis: 1,2-DCA & EDB (8260)	Requested Analysis: ETHANOL (8260)	Requested Analysis: Sulfides 376.1	Requested Analysis: Manganese, Magnesium 200.7	Requested Analysis: Hardness as CaCO3 SM2340B	Requested Analysis: Carbon Dioxide ASTM	Requested Analysis: Methane ASTM	Sample Point Lat/Long and Comments
1	✓ RW-1	1512	3/16/05		A		11	3				K		K	A	A	K						
2	/ TB-11133 03/16/05		↓		A		12	2				K											on hold
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

MDC 6460

Sampler's Name: P. Servin	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Blaine Tech	[illegible]	3/16/05	1556	F Simone	3/16/05	No
Shipment Date:	F Simone		1645		3/16/05	1640
Shipment Method:						
Shipment Tracking No:						

Special Instructions: SHORT HOLD TIMES

Custody Seals In Place Yes No Temp Blank Yes ✓ No Cooler Temperature on Receipt °F/C Trip Blank Yes ✓ No

Chain of Custody Record

Project Name: Analytical for SSI sampling

BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 11133 > HistoricalBL

State or Lead Regulatory Agency: California Regional Water Quality Control Board - San Fra

Requested Due Date (mm/dd/yy): 10 Day TAT

On-site Time: 735	Temp: 70°F
Off-site Time:	Temp:
Sky Conditions: clear	
Meteorological Events: none	
Wind Speed:	Direction:

Lab Name: Sequoia	BP/AR Facility No.: 11133	Consultant/Contractor: URS
Address: 885 Jarvis Drive	BP/AR Facility Address: 2220 98th Ave., Oakland, CA 94603	Address: 1333 Broadway, Suite 800
Morgan Hill, CA 95037	Site Lat/Long: 37.748269 / -122.161	Oakland, CA 94612
Lab PM: Lisa Race	California Global ID No.: T0600100210	Consultant/Contractor Project No.: 38487140
Tele/Fax: 408.782.8156 / 408.782.6308	Enfos Project No.: G07TT-0020	Consultant/Contractor PM: Leonard Niles
BP/AR PM Contact: Paul Supple	Provision or RCOP: Provision	Tele/Fax: 510.874.1720 / 510.874.3268
Address: P.O. Box 6549	Phase/WBS: 01 - Assessment	Report Type & QC Level: Level 1 with EDF
Moraga, CA 94570	Sub Phase/Task: 03 - Analytical	E-mail EDD To: Rachel_Lindvall@urscorp.com
Tele/Fax: 925.299.8891 / 925.299.8872	Cost Element: 05 - Subcontracted Costs	Invoice to: Atlantic Richfield Company

Lab Bottle Order No: 11133

MOC 0460

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: Nitrate, Sulfate 300.0	Requested Analysis: Orthophosphate 300.0	Requested Analysis: Alkalinity SM2320B	Requested Analysis: Ferric Iron	Requested Analysis: COD 410.1	Requested Analysis: TDS	Requested Analysis: Total Phosphorous 365.3	Requested Analysis: Ammonia as N 350.1	Requested Analysis: BOD 405.1	Requested Analysis: TOC	FIELD FERROUS IRON READINGS
1	MW-1	1150	3/16/05		X		01	14	X	X	X	X		X	X	X	X	X	X	X	X	X	X	0.7 mg/L
2	MW-2	1025			X		02	14	X	X	X	X		X	X	X	X	X	X	X	X	X	X	2.7
3	AW-1	1105			X		03	14	X	X	X	X		X	X	X	X	X	X	X	X	X	X	3.4
4	AW-4	925	↓		X		04	14	X	X	X	X		X	X	X	X	X	X	X	X	X	X	1.4
5																								
6																								
7																								
8																								
9																								
10																								

Sampler's Name: P. Cornish	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Blaine Tech.	[illegible]	3/16/05	1556	[illegible]	3/16	16
Shipment Date:	[illegible]		1630		3/16/05	1643
Shipment Method:						
Shipment Tracking No:						

Special Instructions: SHORT HOLD TIMES

Custody Seals In Place Yes ___ No ___ Temp Blank Yes ✓ No ___ Cooler Temperature on Receipt ___ °F/C Trip Blank Yes ✓ No ___

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP 11133
REC. BY.(PRINT) JD
WORKORDER: 0506460

DATE REC'D AT LAB: 3/16/05
TIME REC'D AT LAB: 16.40
DATE LOGGED IN: 3-17-05

For Regulatory Purposes?
DRINKING WATER YES / (NO)
WASTE WATER YES / NO

(For clients requiring preservation checks at receipt, document here ↓)

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / (Absent) Intact / Broken*			MW-1	1LPoly (2)	—	—	W	3/16/05	
2. Chain-of-Custody (Present) / Absent*				1LPoly	H_2SO_4	1			
3. Traffic Reports or Packing List: Present / (Absent)					HNO_3	1			
4. Airbill: Airbill / Sticker (Present) / Absent					Zn/Acetate	9			
5. Airbill #:				VOA (3)	HCl	—			
6. Sample Labels: (Present) / Absent					—				
7. Sample IDs: (Listed) / Not Listed on Chain-of-Custody					H_2SO_4				
8. Sample Condition: (Intact) / Broken* / Leaking*			MW-2	Same					pH H_2SO_4: 1 pH HNO_3: 1 pH Zn/Acetate: 8
9. Does information on chain-of-custody, traffic reports and sample labels agree? (Yes) / No*			MW-3	VOA (3)	HCl				
10. Sample received within hold time? (Yes) / No*			AW-1	1LPoly (2)	—				
11. Adequate sample volume received? (Yes) / No*				1LPoly	H_2SO_4	1			
12. Proper Preservatives used? (Yes) / No*					HNO_3	1			
13. Trip Blank / Temp Blank Received? (circle which, if yes) (Yes) / No*					Zn/Acetate	10			
14. Temp Rec. at Lab: 4.5 Is temp 4 +/-2°C? (Yes) / No**				VOA (3)	HCl	—			
(Acceptance range for samples requiring thermal pres.)			AW-4		—	—			
**Exception (if any): METALS / DFF ON ICE or Problem COC			AW-6		H_2SO_4	—			
			AW-8	VOA (3)	HCl	—			
			RW-1			—			

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

SRL Revision 6
Replaces Rev 5 (06/07/04)

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP 11133
REC. BY (PRINT)
WORKORDER: 503040

DATE REC'D AT LAB:
TIME REC'D AT LAB:
DATE LOGGED IN: 3-17-05

For Regulatory Purposes?
DRINKING WATER YES / NO
WASTE WATER YES / NO

(For clients requiring preservation checks at receipt, document here ↓)

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*			TB-11133031605	VOA (2)	HCl	—	W	3/16/05	
2. Chain-of-Custody	Present / Absent*									
3. Traffic Reports or Packing List:	Present / Absent									
4. Airbill:	Airbill / Sticker Present / Absent									
5. Airbill #:										
6. Sample Labels:	Present / Absent									
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody									
8. Sample Condition:	Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree?	Yes / No*									
10. Sample received within hold time?	Yes / No*									
11. Adequate sample volume received?	Yes / No*									
12. Proper Preservatives used?	Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes)	Yes / No*									
14. Temp Rec. at Lab: 4.5 Is temp 4 +/-2°C?	Yes / No**									

(Acceptance range for samples requiring thermal pres.)

**Exception (if any): METALS / DFF ON ICE or Problem COC

3/16 SK*

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

ATTACHMENT C

ERROR CHECK REPORTS AND EDF/GEOWELL SUBMITTAL CONFIRMATION

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SUCCESSFUL GEO_WELL CHECK - NO ERRORS

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USER NAME:	URSCORP-OAKLAND
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ORGANIZATION NAME:	URS Corporation-Oakland Office
USER NAME:	URSCORP-OAKLAND
DATE CHECKED:	4/1/2005 12:50:51 PM
GLOBAL ID:	T0600100210
FILE UPLOADED:	BP#11133-EDF-MOC0460.zip

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BP
2220 98TH AVE
OAKLAND, CA 94603

Regional Board - Case #: 01-0224
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
Local Agency (lead agency) - Case #: 3877
ALAMEDA COUNTY LOP - **(RWS)**

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	11
# FIELD POINTS WITH DETECTIONS	9
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	7
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA,A2320B,CALCFE2,E160.1,E200.7,E300.0,E350.3,E365.3,E376.1,E405.1,E410.4,E415.1
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	- 8260FA REQUIRES DBFM TO BE TESTED - 8260FA REQUIRES BR4FBZ TO BE TESTED - 8260FA REQUIRES BZMED8 TO BE TESTED
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

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

- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

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

SOIL SAMPLES FOR 8021/8260 SERIES

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

FIELD QC SAMPLES

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

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Confirmation Number: 9160639166
Date/Time of Submittal: 4/1/2005 12:51:42 PM
Facility Global ID: T0600100210
Facility Name: BP
Submittal Title: 1Q2005 QMR EDF BP Site 11133
Submittal Type: GW Monitoring Report

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2220 98TH AVE
OAKLAND, CA 94603

Regional Board - Case #: 01-0224
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
Local Agency (lead agency) - Case #: 3877
ALAMEDA COUNTY LOP - **(RWS)**

CONF #	TITLE	QUARTER
9160639166	1Q2005 QMR EDF BP Site 11133	Q1 2005

SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	4/1/2005	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	11
# FIELD POINTS WITH DETECTIONS	9
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	7
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA,A2320B,CALCFE2,E160.1,E200.7,E300.0,E350.3,E365.3,E376.1,E405.1,E410.4,E415.1
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

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

- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

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

SOIL SAMPLES FOR 8021/8260 SERIES

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

FIELD QC SAMPLES

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

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YOUR DOCUMENT UPLOAD WAS SUCCESSFUL!

Facility Name:	**BP**
Global ID:	**T0600100210**
Title:	**1st 2005 SAMR Site 11133**
Document Type:	**Monitoring Report - Semi-annual**
Submittal Type:	**GEO_REPORT**
Submittal Date/Time:	**4/20/2005 9:21:45 AM**
Confirmation Number:	**4013105094**

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