URS

February 24, 2003

Alameda County
MAR 04 2003
Environmental Health

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

Re: **Fourth Quarter 2002 Groundwater Monitoring Report**
Former BP Service Station #11117
7210 Bancroft Avenue
Oakland, California
URS Project #38486030/38486242

Dear Mr. Hwang:

On behalf of BP (an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Fourth Quarter 2002 Groundwater Monitoring Report* for the Former BP Service Station #11117, located at 7210 Bancroft Avenue, Oakland, California.

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

Sincerely,

URS CORPORATION

CERTIFIED HYDROGEOLOGIST
LEONARD P. NILES
NO. HG357
EXP. 3/31/04
STATE OF CALIFORNIA

Leonard P. Niles, R.G./C.H.G.
Senior Geologist

Attachment: Fourth Quarter 2002 Groundwater Monitoring Report

cc: Mr. Scott Hooton, BP GEM, 295 SW 41st Street, Building 13, Suite N, Renton, Washington 98055-4931
Ms. Liz Sewell, ConocoPhillips, 76 Broadway, Sacramento, California 95818

URS Corporation
500 12th Street, Suite 200
Oakland, CA 94607-4014
Tel: 510.893.3600
Fax: 510.874.3268

REPORT

FOURTH QUARTER 2002 GROUNDWATER MONITORING

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

Prepared for
BP GEM

February 24, 2003

URS
URS Corporation
500 12th Street, Suite 200
Oakland, California 94607

38486030/38486242

Date: February 24, 2003

Quarter: 4Q 02

BP GEM QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.:	11117	Address:	7210 Bancroft Avenue, Oakland, CA
BP Environmental Engineer:			Scott Hooton
Consulting Co./Contact Person:			URS Corporation/ Leonard Niles
Consultant Project No.:			38486030/38486242
Primary Agency/Regulatory ID No.:			Alameda County Health Care Service Agency

WORK PERFORMED THIS QUARTER (Fourth – 2002):

1. Performed fourth quarter 2002 groundwater monitoring event on December 12, 2002.
2. Prepared and submitted third quarter 2002 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (First – 2003):

1. Perform first quarter 2003 groundwater monitoring event.
2. Prepare and submit fourth quarter 2002 groundwater monitoring report.

Current Phase of Project:	GW monitoring/sampling
Frequency of Groundwater Sampling:	Wells MW-1, -2, -4, -6, -7, -10 quarterly; Wells MW-3 and MW-9 semi-annually (first and third quarter); Well MW-8 annually (first quarter)
Frequency of Groundwater Monitoring:	Quarterly
Is Free Product (FP) Present On-Site:	No
Current Remediation Techniques:	None currently
Approximate Depth to Groundwater:	20.26 (MW-1) to 23.75 (MW-7) feet
Groundwater Gradient (direction):	Northeast
Groundwater Gradient (magnitude):	0.02 feet per foot

DISCUSSION:

TPH-g was detected in five out of six wells sampled, at concentrations ranging from 210 µg/L (MW-1) to 120,000 µg/L (MW-2). Benzene was detected in three wells at concentrations ranging from 1.9 µg/L (MW-1) to 13,000 µg/L (MW-2). MTBE was detected in five out of six wells sampled, at concentrations ranging from 32 µg/L (MW-1) to 16,000 µg/L (MW-2). Groundwater elevations across the site decreased by an average of approximately 1.52 feet this quarter, and the groundwater flow direction was to the northeast at a calculated hydraulic gradient of 0.02 feet per foot.

ATTACHMENTS:

- Table 1 – Groundwater Elevation and Analytical Data
- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – December 12, 2002
- Attachment A – Concentration and Water Level Trends (MW-4)
- Attachment B – Field Procedures and Field Data Sheets
- Attachment C – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment D - EDCC Report and EDF/Geowell Submittal Confirmation

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

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	(b)	TPH-G (ug/L)	TPH-D (ug/L)		B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		Organic Lead (ug/L)	DO (ppm)	LAB
MW-1	01/05/1992	49.80		33.16	---	16.64		57000	50000		2400	1000	1100	3100	---		ND	---	---
MW-1	01/10/1992	49.80		33.16	---	16.64		---	---		---	---	---	---	---		---	---	---
MW-1	06/05/1992	49.80		29.01	---	20.79		31000	---		2800	2100	800	2300	---		---	---	---
MW-1	07/24/1992	49.80		29.45	---	20.35		---	---		---	---	---	---	---		---	---	---
MW-1	07/27/1992	49.80		29.45	---	20.35		---	---		---	---	---	---	---		---	---	---
MW-1	09/15/1992	49.80		30.53	---	19.27		40000	1200	(c)	3400	3000	1300	3400	---		---	---	ANA
QC-1	(d) 09/15/1992	---		---	---	---		36000	---		3800	3400	1400	3800	---		---	---	ANA
MW-1	12/15/1992	49.80		31.26	---	18.54		27000	1100	(c)	1700	580	700	1900	---		---	---	ANA
QC-1	(d) 12/15/1992	---		---	---	---		22000	---		1500	440	510	1300	---		---	---	ANA
MW-1	03/15/1993	49.80		24.80	---	25.00		17000	580		1700	1200	590	1800	---	(l)	---	---	PACE
QC-1	(d) 03/15/1993	---		---	---	---		15000	---		1100	860	440	1400	---	(l)	---	---	PACE
MW-1	06/07/1993	49.80		25.01	---	24.79		750	100		0.8	0.8	ND<0.5	ND<0.5	---	(l)	---	---	PACE
QC-1	(d) 06/07/1993	---		---	---	---		720	---		0.7	0.7	ND<0.5	ND<0.5	---	(l)	---	---	PACE
MW-1	09/23/1993	49.80		28.70	---	21.10		40000	770		4000	500	920	3000	6619	(e)(l)	---	---	PACE
MW-1	12/27/1993	49.80		28.66	---	21.14		27000	---		2000	400	940	2600	13558	(e)(l)	---	---	PACE
QC-1	(d) 12/27/1993	---		---	---	---		21000	---		1700	380	830	2400	9219	(e)(l)	---	---	PACE
MW-1	04/05/1994	49.80		26.37	---	23.43		27000	---		3400	930	950	2900	8595	(e)(l)	---	---	PACE
QC-1	(d) 04/05/1994	---		---	---	---		29000	---		3700	1000	1000	3100	9672	(e)(l)	---	1.3	PACE
MW-1	07/22/1994	49.80		26.54	---	23.26		1700	---		220	2.3	2.0	3.4	262	(e)(l)	---	2.0	PACE
MW-1	10/13/1994	49.80		27.46	---	22.34		1200	---		250	21	ND<0.5	3.2	321	(e)(l)	---	2.6	PACE
MW-1	01/25/1995	49.80		20.96	---	28.84		1000	---		420	8	13	4	---		---	---	ATI
MW-1	04/19/1995	49.80		19.59	---	30.21		5200	---		420	51	230	340	---		---	6.0	ATI
MW-1	07/05/1995	49.80		19.61	---	30.19		320	---		4.2	ND<0.50	ND<0.50	ND<1.0	---		---	4.6	ATI
MW-1	10/05/1995	49.80		24.40	---	25.40		5800	---		1000	40	31	180	7800		---	2.3	ATI
MW-1	01/12/1996	49.80		25.44	---	24.36		370	---		ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0		---	3.7	ATI
MW-1	04/22/1996	49.80		18.02	---	31.78		ND<50	---		ND<0.5	ND<1	ND<1	ND<1	ND<10		---	3.9	SPL
MW-1	07/02/1996	49.80		19.72	---	30.08		---	---		---	---	---	---	---		---	---	---
MW-1	07/03/1996	49.80		---	---	---		ND<250	---		ND<2.5	ND<5	ND<5	ND<5	ND<50		---	3.6	SPL
MW-1	11/08/1996	49.80		19.98	---	29.82		ND<50	---		ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	4.3	SPL
MW-1	01/03/1997	49.80		19.49	---	30.31		ND<50	---		ND<0.5	14	ND<1.0	ND<1.0	ND<10		---	4.6	SPL
MW-1	04/28/1997	49.80		20.20	---	29.60		ND<50	---		ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	3.9	SPL
MW-1	07/01/1997	49.80		22.53	---	27.27		ND<50	---		ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	3.9	SPL
MW-1	10/02/1997	49.80		24.27	---	25.53		ND<50	---		ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	4.6	SPL
MW-1	01/09/1998	49.80		21.07	---	28.73		ND<50	---		ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	4.2	SPL

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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	(b)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ng/L)	DO (ppm)	LAB
MW-1	05/06/1998	49.80		14.94	---	34.86		60	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.8	SPL
MW-1	07/21/1998	49.80		15.11	---	34.69		70	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.8	SPL
MW-1	12/30/1998	49.80		19.95	---	29.85		---	---	---	---	---	---	---	---	---	---
MW-1	02/02/1999	49.80		19.12	---	30.68		420	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	390	---	---	SPL
MW-1	05/10/1999	49.80		15.51	---	34.29		---	---	---	---	---	---	---	---	---	---
MW-1	09/23/1999	49.80		21.65	---	28.15		440	---	49	ND<1.0	ND<1.0	ND<1.0	910	---	---	SPL
MW-1	12/23/1999	49.80		22.32	---	27.48		---	---	---	---	---	---	---	---	---	---
MW-1	03/27/2000	49.80		15.72	---	34.08		2500	---	230	3.0	83	36	4400	---	---	PACE
MW-1	05/22/2000	49.80		16.92	---	32.88		---	---	---	---	---	---	---	---	---	---
MW-1	08/31/2000	49.80		20.12	---	29.68		1700	---	18	5.5	7.9	5.0	510	---	---	PACE
MW-1	12/11/2000	49.80		20.72	---	29.08		---	---	---	---	---	---	---	---	---	---
MW-1	03/20/2001	49.80		15.91	---	33.89		880	---	38.2	ND<0.5	24.1	ND<1.5	391	---	---	PACE
MW-1	06/19/2001	49.80		18.38	---	31.42		---	---	---	---	---	---	---	---	---	---
MW-1	09/20/2001	49.80		21.23	---	28.57		3200	---	400	19.8	42	32.5	2510	---	---	PACE
MW-1	12/27/2001	49.80		16.72	---	33.08		750	---	70.1	0.536	4.74	3.76	649	---	---	PACE
MW-1	02/28/2002	49.80		15.25	---	34.55		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	8.7	---	---	PACE
MW-1	06/28/2002	49.80		16.57	---	33.23		110	---	0.977	ND<0.5	0.818	ND<1.0	8.35	---	---	PACE
MW-1	09/12/2002*	49.80		18.41	---	31.39		98	---	2.7	1.5	1.5	5.4	48	---	---	SEQ
MW-1	**12/12/2002**	**49.80**		**20.26**	**---**	**29.54**		**210**	**---**	**1.9**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**32**	**---**	**---**	**SEQ**

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MW-2	01/05/1992	51.07		DRY	---	DRY		---	---		---	---	---	---	---		---	---	---
MW-2	01/10/1992	51.07		DRY	---	DRY		---	---		---	---	---	---	---		---	---	---
MW-2	06/05/1992	51.07		30.05	---	21.02		11000	---		2000	180	490	1900	---		---	---	---
MW-2	07/24/1992	51.07		30.72	---	20.35		---	---		---	---	---	---	---		---	---	---
MW-2	07/27/1992	51.07		30.52	---	20.55		---	---		---	---	---	---	---		---	---	---
MW-2	09/15/1992	51.07		31.56	---	19.51		75000	3200	(c)	2000	6500	2300	13000	---		---	---	ANA
MW-2	12/15/1992	51.07		32.40	---	18.67		34000	1600	(c)	6200	8900	2000	7900	---		---	---	ANA
MW-2	03/15/1993	51.07		26.14	---	24.93		150000	8400		12000	18000	3200	22000	82000	(e)	---	---	PACE
MW-2 (f)	06/07/1993	51.07		26.38	SHEEN	24.69		---	---		---	---	---	---	---		---	---	---
MW-2 (f)	09/23/1993	51.07		31.43	1.92	21.08		---	---		---	---	---	---	---		---	---	---
MW-2 (f)	12/27/1993	51.07		34.07	1.07	17.80		---	---		---	---	---	---	---		---	---	---
MW-2 (f)	04/05/1994	51.07		30.44	3.30	23.11		---	---		---	---	---	---	---		---	---	---
MW-2 (f)	07/22/1994	51.07		28.51	0.80	23.16		---	---		---	---	---	---	---		---	---	---
MW-2 (f)	10/13/1994	51.07		29.33	0.70	22.27		---	---		---	---	---	---	---		---	---	---
MW-2 (f)	01/25/1995	51.07		25.55	4.25	28.71		---	---		---	---	---	---	---		---	---	---
MW-2 (f)	04/19/1995	51.07		19.78	0.12	31.38		---	---		---	---	---	---	---		---	---	---
MW-2	07/05/1995	51.07		20.88	0.09	30.26		140000	---		14000	30000	3500	26000	---		---	---	ATI
MW-2 (f)	10/05/1995	51.07		24.68	0.10	26.47		---	---		---	---	---	---	---		---	---	---
MW-2 (f)	01/12/1996	51.07		25.72	0.06	25.40		---	---		---	---	---	---	---		---	---	---
MW-2 (f)	04/22/1996	51.07		19.33	0.08	31.80		---	---		---	---	---	---	---		---	---	---
MW-2 (f)	07/02/1996	51.07		20.01	0.04	31.09		---	---		---	---	---	---	---		---	---	---
MW-2 (f)	11/08/1996	51.07		20.28	0.01	30.80		---	---		---	---	---	---	---		---	---	---
MW-2 (f)	01/03/1997	51.07		19.87	0.02	31.22		---	---		---	---	---	---	---		---	---	---
MW-2	04/28/1997	51.07		20.59	0.01	30.49		560000	---		1200	1300	290	2310	6100		---	3.9	SPL
MW-2	07/01/1997	51.07		22.90	0.01	28.18		24000	---		15000	16000	4900	24400	63000		---	3.7	SPL
QC-1 (d)	07/01/1997	---		---	---	---		150000	---		14000	13000	1800	14200	57000		---	---	SPL
MW-2	10/02/1997	51.07		24.65	0.02	26.44		---	---		---	---	---	---	---		---	---	---
MW-2	10/03/1997	51.07		---	---	---		250000	---		32000	39000	6000	42000	160000		---	4.5	SPL
MW-2	01/09/1998	51.07		21.22	0.01	29.86		420000	---		23000	29000	5800	43000	75000		---	4.0	SPL
QC-1 (d)	01/09/1998	---		---	---	---		300000	---		20000	25000	5200	37000	84000		---	---	SPL
MW-2	05/06/1998	51.07		15.10	0.01	35.98		180000	---		25000	26000	3400	22900	35000		---	3.7	SPL
MW-2	07/21/1998	51.07		15.31	0.01	35.77		270000	---		21000	20000	2700	18800	34000		---	3.8	SPL
MW-2	12/30/1998	51.07		21.10	0.10	30.05		300000	---		22000	24000	4200	26000	89000/9500(	(j)	---	---	SPL

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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	(b)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
MW-2	02/02/1998	51.07		20.11	---	30.96		410000	---	27000	43000	6700	50000	20000	---	---	SPL
MW-2	05/10/1999	51.07		16.68	---	34.39		220000	---	20000	20000	2800	20000	100000	---	---	SPL
MW-2	09/23/1999	51.07		22.50	---	28.57		160000	---	21000	24000	2900	20000	44000	---	---	SPL
MW-2	(k) 12/23/1999	51.07		22.64	---	28.43		170000	---	25000	41000	3100	24000	40000	---	---	PACE
MW-2	03/27/2000	51.07		16.88	---	34.19		140000	---	15000	25000	3400	21000	19000	---	---	PACE
MW-2	05/22/2000	51.07		17.75	---	33.32		150000	---	18000	31000	3500	22000	26000	---	---	PACE
MW-2	08/31/2000	51.07		21.97	---	29.10		200000	---	16000	26000	2500	16000	38000	---	---	PACE
MW-2	12/11/2000	51.07		22.05	---	29.02		130000	---	18600	30000	3250	20600	21700	---	---	PACE
MW-2	03/20/2001	51.07		17.75	---	33.32		140000	---	15900	24800	3700	22100	12900	---	---	PACE
MW-2	06/19/2001	51.07		20.15	---	30.92		130000	---	15100	19500	3300	21400	20300	---	---	PACE
MW-2	09/20/2001	51.07		22.14	---	28.93		110000	---	12400	12600	2230	13000	39500	---	---	PACE
MW-2	12/27/2001	51.07		18.17	---	32.90		150000	---	17500	26000	3050	19500	27500	---	---	PACE
MW-2	02/28/2002	51.07		17.42	---	33.65		120000	---	13900	18800	3030	19600	17300	---	---	PACE
MW-2	06/28/2002***	51.07		17.04	---	34.03		3700	---	190	23.3	139	287	826	---	---	PACE
MW-2	09/12/2002*	51.07		19.52	---	31.55		100,000	---	13,000	22,000	3,600	20,000	18,000	---	---	SEQ
MW-2	**12/12/2002**	**51.07**		**21.08**	**---**	**29.99**		**120,000**	**---**	**13,000**	**21,000**	**4,400**	**25,000**	**16,000**	**---**	**---**	**SEQ**

Table 1
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Former BP Service Station #11117
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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	(b)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		Organic Lead (ug/L)	DO (ppm)	LAB
MW-3	01/05/1992	49.95		33.69	---	16.26		7400	4000	790	23	210	40	---		ND	---	---
MW-3	01/10/1992	49.95		33.74	---	16.21		---	---	---	---	---	---	---		---	---	---
MW-3	06/05/1992	49.95		29.65	---	20.30		2000	---	130	5.3	93	20	---		---	---	---
MW-3	07/24/1992	49.95		30.14	---	19.81		---	---	---	---	---	---	---		---	---	---
MW-3	07/27/1992	49.95		30.14	---	19.81		---	---	---	---	---	---	---		---	---	---
MW-3	09/15/1992	49.95		31.07	---	18.88		450	ND<50	55	3.1	34	7.1	---		---	---	ANA
MW-3	12/15/1992	49.95		31.93	---	18.02		12000	710	(c) 940	ND<50	310	120	---		---	---	ANA
MW-3	03/15/1993	49.95		25.71	---	24.24		ND<50	60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(l)	---	---	PACE
MW-3	06/07/1993	49.95		25.80	---	24.15		150	ND<50	3.6	ND<0.5	0.9	1.3	---	(l)	---	---	PACE
MW-3	09/23/1993	49.95		29.18	---	20.77		---	---	---	---	---	---	---		---	---	---
MW-3	09/24/1993	49.95		---	---	---		160	ND<50	8.4	ND<0.5	3.7	1.3	15.3	(l)	---	---	PACE
MW-3	12/27/1993	49.95		29.25	---	20.70		9400	---	1100	48	530	120	2871	(e)(l)	---	---	PACE
MW-3	04/05/1994	49.95		26.84	---	23.11		7000	---	860	19	330	52	10414	(l)	---	2.0	PACE
MW-3	07/22/1994	49.95		26.90	---	23.11		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	---	2.1	PACE
MW-3	10/13/1994	49.95		27.83	---	22.12		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	---	2.6	PACE
MW-3	01/25/1995	49.95		21.65	---	28.30		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---		---	---	ATI
MW-3	04/19/1995	49.95		19.33	---	30.62		2400	---	170	8.0	130	27	---		---	5.0	ATI
MW-3	07/05/1995	49.95		20.27	---	29.68		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---		---	4.4	ATI
MW-3	10/05/1995	49.95		23.73	---	26.22		2300	---	210	3.1	10	5.1	2400		---	4.2	ATI
MW-3	01/12/1996	49.95		24.84	---	25.11		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0		---	4.1	ATI
MW-3	04/22/1996	49.95		18.60	---	31.35		ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10		---	4.4	SPL
MW-3	07/02/1996	49.95		18.88	---	31.07		ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10		---	4.2	SPL
MW-3	11/08/1996	49.95		19.14	---	30.81		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	4.4	SPL
MW-3	01/03/1997	49.95		18.72	---	31.23		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	4.6	SPL
MW-3	04/28/1997	49.95		19.38	---	30.57		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	4.2	SPL
MW-3	07/01/1997	49.95		21.65	---	28.30		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	3.8	SPL
MW-3	10/02/1997	49.95		23.45	---	26.50		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	4.5	SPL
MW-3	01/09/1998	49.95		20.10	---	29.85		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	4.1	SPL
MW-3	05/06/1998	49.95		15.57	---	34.38		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	3.8	SPL
MW-3	07/21/1998	49.95		15.88	---	34.07		51	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	3.8	SPL

Table 1
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7210 Bancroft Avenue, Oakland, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a) DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	(b) TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
QC-1 (d)	07/21/1998	---	---	---	---	60	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	SPL
MW-3	12/30/1998	49.95	20.30	---	29.65	---	---	---	---	---	---	---	---	---	SPL
MW-3	02/02/1999	49.95	19.75	---	30.20	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	SPL
MW-3	05/10/1999	49.95	16.17	---	33.78	---	---	---	---	---	---	---	---	---	---
MW-3	09/23/1999	49.95	22.05	---	27.90	---	---	---	---	---	---	---	---	---	---
MW-3	12/23/1999	49.95	22.55	---	27.40	---	---	---	---	---	---	---	---	---	---
MW-3	03/27/2000	49.95	16.40	---	33.55	350	---	22	ND<0.5	ND<0.5	ND<0.5	580	---	---	PACE
MW-3	05/22/2000	49.95	9.49**	---	40.46	---	---	---	---	---	---	---	---	---	---
MW-3	08/31/2000	49.95	13.02**	---	36.93	---	---	---	---	---	---	---	---	---	---
MW-3	12/11/2000	49.95	13.30**	---	36.65	---	---	---	---	---	---	---	---	---	---
MW-3	03/20/2001	49.95	16.49	---	33.46	1000	---	66.4	0.597	6.96	ND<1.5	398	---	---	PACE
MW-3	06/19/2001	49.95	18.82	---	31.13	---	---	---	---	---	---	---	---	---	---
MW-3	09/20/2001	49.95	21.59	---	28.36	230	---	ND<0.5	0.593	ND<0.5	ND<1.5	289	---	---	PACE
MW-3	12/27/2001	49.95	17.37	---	32.58	---	---	---	---	---	---	---	---	---	---
MW-3	02/28/2002	49.95	15.81	---	34.14	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	0.58	---	---	PACE
MW-3	06/28/2002	49.95	17.09	---	32.86	---	---	---	---	---	---	---	---	---	---
MW-3	09/12/2002*	49.95	18.80	---	31.15	52	---	3.3	8.6	1.7	12	11	---	---	SEQ
MW-3	**12/12/2002**	**49.95**	**20.57**	**---**	**29.38**	**---**	**---**	---	---	---	---	---	---	---	---

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

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	(b)	TPH-G (ug/L)	TPH-D (ug/L)		B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		Organic Lead (ug/L)	DO (ppm)	LAB
MW-4	07/24/1992	50.76		30.02	---	20.74		42000	---		3200	3600	1400	4100	---		---	---	---
MW-4	07/27/1992	50.76		30.02	---	20.74		---	---		---	---	---	---	---		---	---	---
MW-4	09/15/1992	50.76		31.14	---	19.62		55000	1700	(c)	7600	13000	2800	9500	---		---	---	ANA
MW-4	12/15/1992	50.76		31.98	---	18.78		36000	2200	(c)	3700	4700	1200	4000	---		---	---	ANA
MW-4	03/15/1993	50.76		25.34	---	25.42		69000	1200		7600	15000	2500	11000	---	(l)	---	---	PACE
MW-4	06/07/1993	50.76		25.67	---	25.09		73000	2500		10000	19000	3400	14000	---	(l)	---	---	PACE
MW-4	09/23/1993	50.76		29.37	---	21.39		---	---		---	---	---	---	---		---	---	---
MW-4	09/24/1993	50.76		---	---	---		68000	5700		11000	2100	8600	990	390	(l)	---	---	PACE
QC-1	(d) 09/24/1993	---		---	---	---		59000	---		5300	10000	2200	8400	309	(l)	---	---	PACE
MW-4	12/27/1993	50.76		29.40	---	21.36		32000	---		2500	4400	1300	4400	387	(l)	---	---	PACE
MW-4	04/05/1994	50.76		27.09	---	23.67		64000	---		6500	14000	1900	9600	413	(l)	---	1.4	PACE
MW-4	07/22/1994	50.76		27.33	---	23.43		85000	---		10000	20000	3200	13000	796	(l)	---	0.8	PACE
QC-1	(d) 07/22/1994	---		---	---	---		85000	---		11000	21000	3300	14000	435	(l)	---	---	PACE
MW-4	10/13/1994	50.76		28.25	---	22.51		51000	---		7100	13000	2100	8900	506	(e)(l)	---	2.9	PACE
QC-1	(d) 10/13/1994	---		---	---	---		51000	---		7400	13000	2100	9100	773	(l)	---	---	PACE
MW-4	01/25/1995	50.76		21.85	---	28.91		26000	---		3600	9600	1200	6400	---		---	---	ATI
QC-1	(d) 01/25/1995	---		---	---	---		28000	---		4200	12000	1500	7800	---		---	---	ATI
MW-4	04/19/1995	50.76		19.44	---	31.32		89000	---		12000	24000	3500	18000	---		---	5.1	ATI
QC-1	(d) 04/19/1995	---		---	---	---		100000	---		12000	26000	3800	21000	---		---	---	ATI
MW-4	07/05/1995	50.76		20.52	---	30.24		130000	---		13000	29000	3300	25000	---		---	4.3	ATI
MW-4	10/05/1995	50.76		24.23	---	26.53		110000	---		10000	23000	3600	17000	34000		---	2.1	ATI
MW-4	01/12/1996	50.76		25.34	---	25.42		46000	---		3500	8300	1100	8000	3000		---	3.3	ATI
QC-1	(d) 01/12/1996	---		---	---	---		40000	---		3500	9000	1200	8700	4300		---	---	ATI
MW-4	04/22/1996	50.76		19.13	---	31.63		40000	---		5100	9600	980	11800	29000		---	3.2	SPL
QC-1	(d) 04/22/1996	---		---	---	---		61000	---		8300	16000	1600	15200	36000		---	---	SPL
MW-4	07/02/1996	50.76		20.67	---	30.09		74000	---		9800	21000	2100	16600	41000		---	3.4	SPL
QC-1	(d) 07/02/1996	---		---	---	---		78000	---		9800	21000	1900	15300	42000		---	---	SPL
MW-4	11/08/1996	50.76		20.95	---	29.81		100000	---		7900	16000	2500	13700	37000		---	3.7	SPL
QC-1	(d) 11/08/1996	---		---	---	---		110000	---		9100	20000	3000	15400	39000		---	---	SPL
MW-4	01/03/1997	50.76		20.54	---	30.22		99000	---		17000	30000	4300	22700	79000		---	4.2	SPL

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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	(b)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		Organic Lead (ug/L)	DO (ppm)	LAB
QC-1 (d)	01/03/1997	---		---	---	---		66000	---	12000	19000	2900	15000	69000		---	---	SPL
MW-4	04/28/1997	50.76		21.28	---	29.48		130000	---	12000	28000	3800	21000	37000		---	3.9	SPL
QC-1 (d)	04/28/1997	---		---	---	---		110000	---	11000	26000	3200	18200	34000		---	---	SPL
MW-4	07/01/1997	50.76		23.61	---	27.15		110000	---	16000	25000	4900	24400	37000		---	3.6	SPL
MW-4	10/02/1997	50.76		25.39	---	25.37		---	---	---	---	---	---	---		---	---	---
MW-4	10/03/1997	50.76		---	---	---		66000	---	8200	8600	2700	13400	80000		---	4.4	SPL
QC-1 (d)	10/03/1997	---		---	---	---		71000	---	8600	8700	2900	13500	84000		---	---	SPL
MW-4	01/09/1998	50.76		21.25	---	29.51		100000	---	9700	3200	1500	4700	92000		---	3.8	SPL
MW-4	05/06/1998	50.76		15.96	---	34.80		430000	---	6900	31000	11000	56000	ND<5000		---	3.9	SPL
QC-1 (d)	05/06/1998	---		---	---	---		440000	---	8000	39000	14000	70000	ND<5000		---	---	SPL
MW-4	07/21/1998	50.76		16.1	---	34.66		250000	---	11000	26000	5500	26900	29000		---	3.7	SPL
QC-1 (d)	07/21/1998	---		---	---	---		210000	---	11000	27000	5600	26800	29000		---	---	SPL
MW-4	12/30/1998	50.76		20.91	---	29.85		370000	---	11000	22000	8500	40000	90000/9200(	(j)	---	---	SPL
MW-4	02/02/1999	50.76		20.13	---	30.63		190000	---	4100	19000	4800	32000	28000		---	---	SPL
MW-4	05/10/1999	50.76		16.63	---	34.13		2700	---	23	7.1	8.1	25	120		---	---	SPL
MW-4	09/23/1999	50.76		22.48	---	28.28		180000	---	11000	29000	7000	38000	12000		---	---	SPL
MW-4 (k)	12/23/1999	50.76		22.94	---	27.82		66000	---	6300	5200	2200	7800	35000		---	---	PACE
MW-4	03/27/2000	50.76		16.84	---	33.92		120000	---	8700	12000	3800	16000	27000		---	---	PACE
MW-4	05/22/2000	50.76		17.85	---	32.91		110000	---	7600	16000	4400	20000	25000		---	---	PACE
MW-4	08/31/2000	50.76		21.71	---	29.05		110000	---	8800	7600	3400	14000	18000		---	---	PACE
MW-4	12/11/2000	50.76		22.05	---	28.71		70000	---	4580	3480	2550	9220	24400		---	---	PACE
MW-4	03/20/2001	50.76		17.68	---	33.08		100000	---	7100	4530	2540	9370	63100		---	---	PACE
MW-4	06/19/2001	50.76		19.40	---	31.36		180000	---	7430	14600	5400	25300	36100		---	---	PACE
MW-4 (f)	09/20/2001	50.76		22.01	0.03 (m)	28.75		---	---	---	---	---	---	---		---	---	---
MW-4	12/27/2001	50.76		17.96	---	32.80		120000	---	6880	9030	2840	14600	32300		---	---	PACE
MW-4	02/28/2002	50.76		17.06	---	33.70		80000	---	4920	5450	2220	12300	35900		---	---	PACE
MW-4	06/28/2002	50.76		17.76	---	33.00		48000	---	2780	2770	1530	6790	25100		---	---	PACE
MW-4	09/12/2002*	50.76		19.45	---	31.31		46,000	---	4,500	6,800	2,600	10,000	9,100		---	---	SEQ
MW-4	**12/12/2002**	**50.76**		**21.29**	**---**	**29.47**		**36,000**	**---**	**5,200**	**3,400**	**2,000**	**6,500**	**12,000**		**---**	**---**	**SEQ**

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

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	(b)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		Organic Lead (ug/L)	DO (ppm)	LAB
MW-6	07/24/1992	50.32		30.63	---	19.69		ND	---	1.6	ND	ND	ND	---		---	---	---
MW-6	07/27/1992	50.32		30.63	---	19.69		---	---	---	---	---	---	---		---	---	---
MW-6	09/15/1992	50.32		31.52	---	18.80		ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---		---	---	ANA
MW-6	12/15/1992	50.32		32.42	---	17.90		58	ND<50	1.3	ND<0.5	ND<0.5	ND<0.5	---		---	---	ANA
MW-6	03/15/1993	50.32		26.29	---	24.03		ND<50	ND<50	ND<0.5	0.6	ND<0.5	0.7	---	(l)	---	---	PACE
MW-6	06/07/1993	50.32		26.33	---	23.99		ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	1.5	---	(l)	---	---	PACE
MW-6	09/23/1993	50.32		29.64	---	20.68		---	---	---	---	---	---	---		---	---	---
MW-6	09/24/1993	50.32		---	---	---		ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	28.5	(l)	---	---	PACE
MW-6	12/27/1993	50.32		29.75	---	20.57		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	55.4	(e)(l)	---	---	PACE
MW-6	04/05/1994	50.32		27.26	---	23.06		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	295	(e)(l)	---	1.7	PACE
MW-6	07/22/1994	50.32		27.34	---	22.98		350	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	419	(e)(l)	---	4.5	PACE
MW-6 (g)	10/13/1994	50.32		---	---	---		---	---	---	---	---	---	---		---	---	---
MW-6	01/25/1995	50.32		22.16	---	28.16		240	---	6	ND<0.5	ND<0.5	ND<1	---		---	---	ATI
MW-6 (g)	04/19/1995	50.32		---	---	---		---	---	---	---	---	---	---		---	---	---
MW-6	07/05/1995	50.32		20.80	---	29.52		180	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---		---	4.9	ATI
MW-6	10/05/1995	50.32		24.20	---	26.12		860	---	ND<5.0	ND<5.0	ND<5.0	ND<10	3600		---	2.8	ATI
MW-6	01/12/1996	50.32		25.30	---	25.02		860	---	ND<5.0	ND<5.0	ND<5.0	ND<10	2800		---	4.2	ATI
MW-6	04/22/1996	50.32		19.13	---	31.19		ND<50	---	ND<0.5	ND<1	ND<1	ND<1	470		---	4.3	SPL
MW-6	07/02/1996	50.32		20.66	---	29.66		100	---	ND<0.5	ND<1	ND<1	ND<1	1100		---	4.2	SPL
MW-6	11/08/1996	50.32		20.98	---	29.34		1100	---	ND<5	ND<10	ND<10	ND<10	1500		---	4.3	SPL
MW-6	01/03/1997	50.32		20.53	---	29.79		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	450		---	4.5	SPL
MW-6	04/28/1997	50.32		21.25	---	29.07		1400	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	3500		---	4.4	SPL
MW-6	07/01/1997	50.32		23.40	---	26.92		6100	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	9100		---	3.9	SPL
MW-6	10/02/1997	50.32		25.16	---	25.16		---	---	---	---	---	---	---		---	---	---
MW-6	10/03/1997	50.32		---	---	---		330	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	2600		---	4.4	SPL
MW-6	01/09/1998	50.32		21.13	---	29.19		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	4.3	SPL
MW-6	05/06/1998	50.32		16.11	---	34.21		410	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	500		---	3.6	SPL
MW-6	07/21/1998	50.32		16.33	---	33.99		4300	---	ND<5	ND<10	ND<10	ND<10	3800		---	4.0	SPL
MW-6	12/30/1998	50.32		20.89	---	29.43		---	---	---	---	---	---	---		---	---	---
MW-6	02/02/1999	50.32		20.20	---	30.12		---	---	---	---	---	---	---		---	---	---

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

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	(b)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
MW-6	05/10/1999	50.32		16.75	---	33.57		---	---	---	---	---	---	---	---	---	---
MW-6	09/23/1999	50.32		22.55	---	27.77		ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1600	---	---	SPL
MW-6	12/23/1999	50.32		23.00	---	27.32		---	---	---	---	---	---	---	---	---	---
MW-6	03/27/2000	50.32		16.89	---	33.43		1700	---	4.4	0.54	ND<0.5	1.0	14000	---	---	PACE
MW-6	05/22/2000	50.32		18.02	---	32.30		---	---	---	---	---	---	---	---	---	---
MW-6	08/31/2000	50.32		21.62	---	28.70		1200	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3900	---	---	PACE
MW-6	12/11/2000	50.32		21.81	---	28.51		---	---	---	---	---	---	---	---	---	---
MW-6	03/20/2001	50.32		16.97	---	33.35		3300	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	3760	---	---	PACE
MW-6	06/19/2001	50.32		19.30	---	31.02		---	---	---	---	---	---	---	---	---	---
MW-6	09/20/2001	50.32		22.00	---	28.32		2200	---	2.04	8.1	3.62	13.7	2460	---	---	PACE
MW-6	12/27/2001	50.32		17.85	---	32.47		830	---	0.59	ND<0.5	ND<0.5	ND<1.0	1040	---	---	PACE
MW-6	02/28/2002	50.32		16.31	---	34.01		1100	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	1450	---	---	PACE
MW-6	06/28/2002	50.32		17.57	---	32.75		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	1020	---	---	PACE
MW-6	09/12/2002*	50.32		19.27	---	31.05		190	---	1.9	4.6	1	7.3	480	---	---	SEQ
MW-6	**12/12/2002**	**50.32**		**20.94**	**---**	**29.38**		**270**	**---**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**500**	**---**	**---**	**SEQ**

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

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	(b)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
MW-7	01/25/1995	51.40		21.67	---	29.73		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	7.0	ATI
MW-7	04/19/1995	51.40		25.27	---	26.13		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	5.0	ATI
MW-7	07/05/1995	51.40		24.63	---	26.77		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	4.2	ATI
MW-7	10/05/1995	51.40		28.21	---	23.19		83	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	77	---	4.5	ATI
MW-7	01/12/1996	51.40		29.29	---	22.11		63	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	120	---	4.8	ATI
MW-7	04/22/1996	51.40		23.11	---	28.29		ND<50	---	ND<0.5	ND<1	ND<1	ND<1	13	---	4.8	SPL
MW-7	07/02/1996	51.40		23.56	---	27.84		ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	4.8	SPL
MW-7	11/08/1996	51.40		20.06	---	31.34		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	5.1	SPL
MW-7	01/03/1997	51.40		23.42	---	27.98		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.7	SPL
MW-7	04/28/1997	51.40		24.12	---	27.28		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.9	SPL
MW-7	07/01/1997	51.40		26.40	---	25.00		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.2	SPL
MW-7	10/02/1997	51.40		28.14	---	23.26		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.7	SPL
MW-7	01/09/1998	51.40		24.02	---	27.38		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.1	SPL
MW-7	05/06/1998	51.40		21.00	---	30.40		1900	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	1800	---	3.5	SPL
MW-7	07/21/1998	51.40		21.17	---	30.23		50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.7	SPL
MW-7	12/30/1998	51.40		22.13	---	29.27		---	---	---	---	---	---	---	---	---	---
MW-7	02/02/1999	51.40		22.08	---	29.32		---	---	---	---	---	---	---	---	---	---
MW-7	05/10/1999	51.40		18.58	---	32.82		---	---	---	---	---	---	---	---	---	---
MW-7	09/23/1999	51.40		24.29	---	27.11		70	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	4700	---	---	SPL
MW-7	12/23/1999	51.40		24.53	---	26.87		---	---	---	---	---	---	---	---	---	---
MW-7	03/27/2000	51.40		18.58	---	32.82		910	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2600	---	---	PACE
MW-7	05/22/2000	51.40		19.49	---	31.91		---	---	---	---	---	---	---	---	---	---
MW-7	08/31/2000	51.40		22.53	---	28.87		440	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	900	---	---	PACE
MW-7	12/11/2000	51.40		22.75	---	28.65		---	---	---	---	---	---	---	---	---	---
MW-7	03/20/2001	51.40		18.79	---	32.61		1100	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	1210	---	---	PACE
MW-7	06/19/2001	51.40		19.82	---	31.58		---	---	---	---	---	---	---	---	---	---
MW-7	09/20/2001	51.40		21.35	---	30.05		1300	---	1.21	ND<0.5	ND<0.5	ND<1.5	1550	---	---	PACE
MW-7	12/27/2001	51.40		20.36	---	31.04		510	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	643	---	---	PACE
MW-7	02/28/2002	51.40		21.86	---	29.54		250	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	317	---	---	PACE
MW-7	06/28/2002	51.40		22.64	---	28.76		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	102	---	---	PACE
MW-7	09/12/2002*	51.40		23.51	---	27.89		ND<50	---	ND<0.5	ND<0.5	ND<0.5	1	14	---	---	SEQ
MW-7	**12/12/2002**	**51.40**		**23.75**	**---**	**27.65**		**ND<50**	**---**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<2.5**	**---**	**---**	**SEQ**

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Former BP Service Station #11117
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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	(b)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
MW-8	01/25/1995	50.88		31.59	---	19.29		54	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	7.1	ATI
MW-8	04/19/1995	50.88		19.18	---	31.70		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	5.1	ATI
MW-8	07/05/1995	50.88		19.03	---	31.85		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	4.5	ATI
MW-8	10/05/1995	50.88		24.40	---	26.48		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	4.1	ATI
MW-8	01/12/1996	50.88		25.51	---	25.37		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	4.6	ATI
MW-8	04/22/1996	50.88		18.00	---	32.88		ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	4.8	SPL
MW-8	07/02/1996	50.88		19.83	---	31.05		ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	4.5	SPL
MW-8	11/08/1996	50.88		20.09	---	30.79		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.7	SPL
MW-8	01/03/1997	50.88		19.72	---	31.16		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.4	SPL
MW-8	04/28/1997	50.88		20.44	---	30.44		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.1	SPL
MW-8	07/01/1997	50.88		22.72	---	28.16		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.8	SPL
MW-8	10/02/1997	50.88		24.51	---	26.37		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.2	SPL
MW-8	01/09/1998	50.88		21.17	---	29.71		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.5	SPL
MW-8	05/06/1998	50.88		18.34	---	32.54		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.6	SPL
MW-8	07/21/1998	50.88		18.55	---	32.33		90	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.3	SPL
MW-8	12/30/1998	50.88		20.40	---	30.48		---	---	---	---	---	---	---	---	---	---
MW-8	02/02/1999	50.88		19.28	---	31.60		---	---	---	---	---	---	---	---	---	---
MW-8	05/10/1999	50.88		15.62	---	35.26		---	---	---	---	---	---	---	---	---	---
MW-8	09/23/1999	50.88		21.74	---	29.14		---	---	---	---	---	---	---	---	---	---
MW-8	12/23/1999	50.88		22.83	---	28.05		---	---	---	---	---	---	---	---	---	---
MW-8	03/27/2000	50.88		16.25	---	34.63		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-8	05/22/2000	50.88		17.06	---	33.82		---	---	---	---	---	---	---	---	---	---
MW-8	08/31/2000	50.88		21.72	---	29.16		---	---	---	---	---	---	---	---	---	---
MW-8	12/11/2000	50.88		22.03	---	28.85		---	---	---	---	---	---	---	---	---	---
MW-8	03/20/2001	50.88		16.23	---	34.65		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	0.991	---	---	PACE
MW-8	06/19/2001	50.88		19.35	---	31.53		---	---	---	---	---	---	---	---	---	---
MW-8	09/20/2001	50.88		21.95	---	28.93		---	---	---	---	---	---	---	---	---	---
MW-8	12/27/2001	50.88		16.98	---	33.90		---	---	---	---	---	---	---	---	---	---
MW-8	02/28/2002	50.88		15.38	---	35.50		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<0.5	---	---	PACE
MW-8	06/28/2002	50.88		16.97	---	33.91		---	---	---	---	---	---	---	---	---	---
MW-8	09/12/2002*	50.88		19.47	---	31.41		---	---	---	---	---	---	---	---	---	---
MW-8	**12/12/2002**	**50.88**		**20.84**	**---**	**30.04**		**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**

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

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	(b)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
MW-9	01/25/1995	51.05		22.32	---	28.73		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	7.4	ATI
MW-9	04/19/1995	51.05		19.86	---	31.19		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	5.2	ATI
MW-9	07/05/1995	51.05		20.78	---	30.27		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	4.4	ATI
MW-9	10/05/1995	51.05		24.33	---	26.72		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	2.3	ATI
QC-1 (d)	10/05/1995	---		---	---	---		52	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	160	---	---	ATI
MW-9	01/12/1996	51.05		25.44	---	25.61		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	3.2	ATI
MW-9	04/22/1996	51.05		18.01	---	33.04		ND<50	---	ND<0.5	ND<1	ND<1	ND<1	11	---	3.5	SPL
MW-9	07/02/1996	51.05		19.70	---	31.35		ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	3.3	SPL
MW-9	11/08/1996	51.05		19.96	---	31.09		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.7	SPL
MW-9	01/03/1997	51.05		19.52	---	31.53		ND<250	---	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	---	4.4	SPL
MW-9	04/28/1997	51.05		20.22	---	30.83		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.0	SPL
MW-9	07/01/1997	51.05		22.59	---	28.46		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.9	SPL
MW-9	10/02/1997	51.05		24.33	---	26.72		---	---	---	---	---	---	---	---	---	---
MW-9	10/03/1997	51.05		---	---	---		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.4	SPL
MW-9	01/09/1998	51.05		21.11	---	29.94		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.9	SPL
MW-9	05/06/1998	51.05		18.26	---	32.79		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.0	SPL
MW-9	07/21/1998	51.05		18.46	---	32.59		70	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.7	SPL
MW-9 (g)	12/30/1998	51.05		---	---	---		---	---	---	---	---	---	---	---	---	---
MW-9 (g)	02/02/1999	51.05		---	---	---		---	---	---	---	---	---	---	---	---	---
MW-9 (g)	05/10/1999	51.05		---	---	---		---	---	---	---	---	---	---	---	---	---
MW-9 (g)	09/23/1999	51.05		---	---	---		---	---	---	---	---	---	---	---	---	---
MW-9 (g)	12/23/1999	51.05		---	---	---		---	---	---	---	---	---	---	---	---	---
MW-9 (g)	03/27/2000	51.05		---	---	---		---	---	---	---	---	---	---	---	---	---
MW-9 (g)	05/22/2000	51.05		---	---	---		---	---	---	---	---	---	---	---	---	---
MW-9 (g)	08/31/2000	51.05		---	---	---		---	---	---	---	---	---	---	---	---	---
MW-9 (g)	12/11/2000	51.05		---	---	---		---	---	---	---	---	---	---	---	---	---
MW-9 (g)	03/20/2001	51.05		---	---	---		---	---	---	---	---	---	---	---	---	---
MW-9 (g)	06/19/2001	51.05		---	---	---		---	---	---	---	---	---	---	---	---	---
MW-9	09/20/2001	51.05		22.20	---	28.85		6300	---	2.87	ND<0.5	ND<0.5	ND<1.5	8640	---	---	PACE
MW-9	12/27/2001	51.05		18.92	---	32.13		---	---	---	---	---	---	---	---	---	---
MW-9	02/28/2002	51.05		17.22	---	33.83		19000	---	1560	61.3	84	111	20200	---	---	PACE
MW-9	06/28/2002	51.05		18.20	---	32.85		---	---	---	---	---	---	---	---	---	---
MW-9	09/12/2002*	51.05		19.92	---	31.13		5100	---	570	180	ND<25	220	6400	---	---	SEQ
MW-9	**12/12/2002**	**51.05**		**21.78**	**---**	**29.27**		---	---	---	---	---	---	---	---	---	---

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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	(b)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
MW-10	01/09/1998	---	(h)	20.97	---	---		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.3	SPL
MW-10	05/06/1998	---	(h)	18.07	---	---		800	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	980	---	3.9	SPL
MW-10	07/21/1998	---	(h)	18.28	---	---		80	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.0	SPL
MW-10	12/30/1998	---	(h)	22.22	---	---		---	---	---	---	---	---	---	---	---	---
MW-10	02/02/1999	---	(h)	21.83	---	---		940	---	ND<10	ND<10	ND<10	ND<10	690	---	---	SPL
MW-10	05/10/1999	---	(h)	17.99	---	---		---	---	---	---	---	---	---	---	---	---
MW-10	09/23/1999	---	(h)	22.61	---	---		ND<50	---	ND<1.0	ND<1.0	ND<1.0	1.4	1000	---	---	SPL
MW-10	12/23/1999	---	(h)	23.75	---	---		---	---	---	---	---	---	---	---	---	---
MW-10	03/27/2000	---	(h)	18.83	---	---		1900	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	28000	---	---	PACE
MW-10	05/22/2000	---	(h)	19.47	---	---		---	---	---	---	---	---	---	---	---	---
MW-10	08/31/2000	---	(h)	22.64	---	---		1700	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13000	---	---	PACE
MW-10	12/11/2000	---	(h)	22.84	---	---		---	---	---	---	---	---	---	---	---	---
MW-10	03/20/2001	---	(h)	19.57	---	---		16000	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	11900	---	---	PACE
MW-10	06/19/2001	---	(h)	20.63	---	---		---	---	---	---	---	---	---	---	---	---
MW-10	09/20/2001	---	(h)	23.07	---	---		5800	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	8160	---	---	PACE
MW-10	12/27/2001	---	(h)	20.92	---	---		6600	---	17.3	14.5	ND<12.5	ND<25	7750	---	---	PACE
MW-10	02/28/2002	---	(h)	18.52	---	---		3600	---	10.8	ND<0.5	ND<0.5	ND<1.0	5380	---	---	PACE
MW-10	06/28/2002	---	(h)	18.41	---	---		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	2570	---	---	PACE
MW-10	09/12/2002*	---	(h)	20.57	---	---		660	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	3300	---	---	SEQ
MW-10	**12/12/2002**	**---**	**(h)**	**22.80**	**---**	**---**		**1400**	**---**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**3300**	**---**	**---**	**SEQ**

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

WELL ID		DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	(b)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		Organic Lead (ug/L)	DO (ppm)	LAB
QC-2	(i)	09/15/1992	---		---	---	---		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---		---	---	ANA
QC-2	(i)	12/15/1992	---		---	---	---		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---		---	---	ANA
QC-2	(i)	03/15/1993	---		---	---	---		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(l)	---	---	PACE
QC-2	(i)	06/07/1993	---		---	---	---		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(l)	---	---	PACE
QC-2	(i)	09/24/1993	---		---	---	---		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	---	---	PACE
QC-2	(i)	12/27/1993	---		---	---	---		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	---	---	PACE
QC-2	(i)	04/05/1994	---		---	---	---		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	---	---	PACE
QC-2	(i)	07/22/1994	---		---	---	---		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	---	---	PACE
QC-2	(i)	10/13/1994	---		---	---	---		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	---	---	PACE
QC-2	(i)	01/25/1995	---		---	---	---		ND<50	---	ND<0.5	2	0.6	1	---		---	---	ATI
QC-2	(i)	04/19/1995	---		---	---	---		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---		---	---	ATI
QC-2	(i)	07/05/1995	---		---	---	---		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---		---	---	ATI
QC-2	(i)	10/05/1995	---		---	---	---		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0		---	---	ATI
QC-2	(i)	01/12/1996	---		---	---	---		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0		---	---	ATI
QC-2	(i)	04/22/1996	---		---	---	---		ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10		---	---	SPL
QC-2	(i)	07/02/1996	---		---	---	---		ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10		---	---	SPL

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

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a)	DTW (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet)	(b)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
MTBE	Methyl tert butyl ether
DO	Dissolved oxygen
ug/L	Micrograms per liter
ppm	Parts per million
ND	Not detected above reported detection limit
---	Not analyzed/applicable/measurable
ANA	Anametrix, Inc.
PACE	Pace, Inc.
ATI	Analytical Technologies, Inc.
SPL	Southern Petroleum Laboratories

NOTES:

(a) Casing elevations surveyed to the nearest 0.01 foot relative to mean sea level.

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

(c) Concentrations reported as diesel from MW-1, MW-2 and MW-4 are primarily due to the presence of a lighter petroleum product, possibly gasoline or kerosene.

(d) Blind duplicate.

(e) A copy of the documentation for this data is included in Appendix C of Alisto report 10-018-05-004.

(f) Well not sampled due to presence of free product.

(g) Well inaccessible.

(h) Top of casing not surveyed.

(i) Travel blank.

(j) EPA method by 8020\8260.

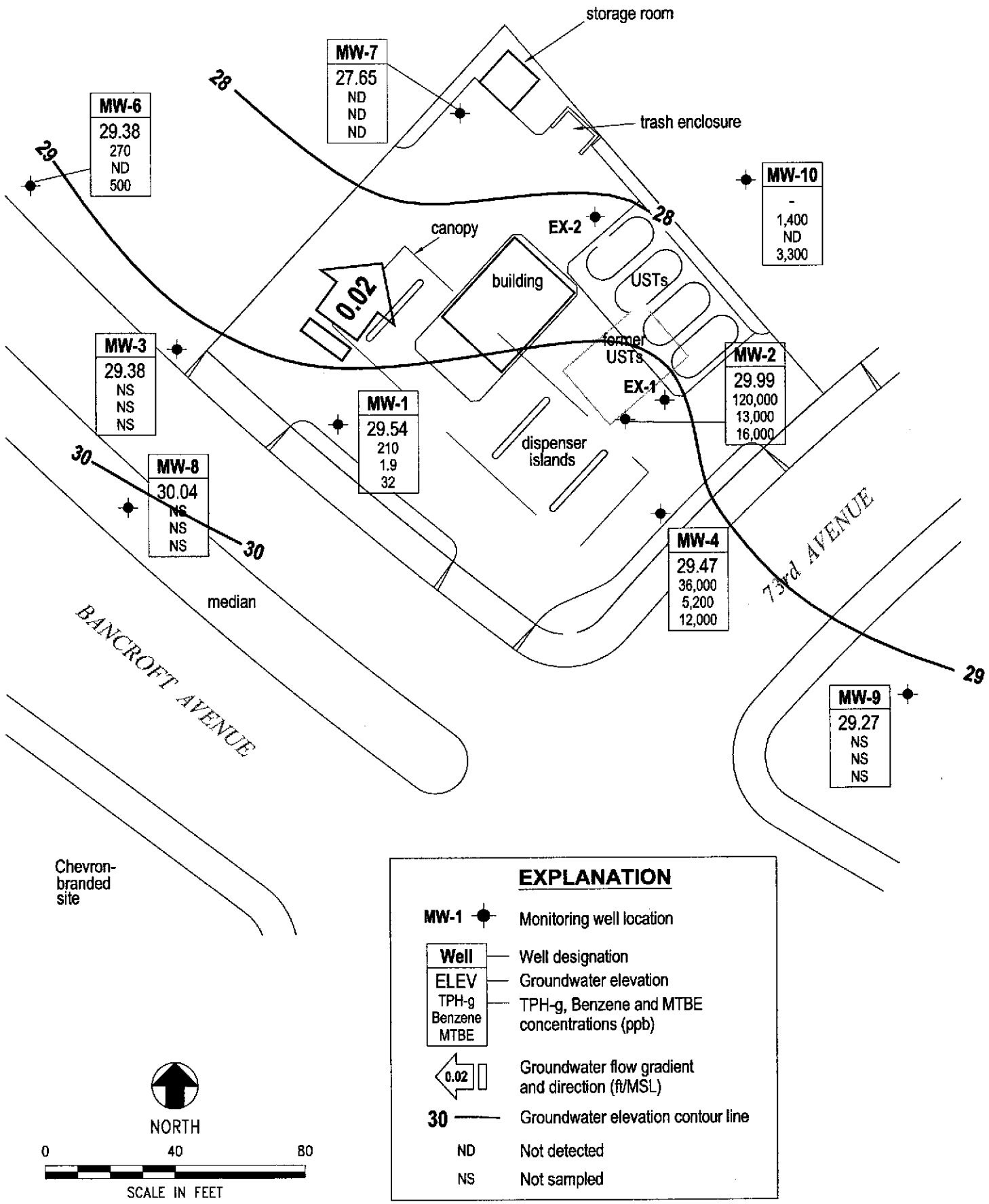
(k) Samples ran outside of EPA recommended hold time.

(l) A copy of the documentation for this data can be found in Blaine Tech Services report 010619-C-2. The MTBE data for the March 15, 1993 and June 7, 1993 events have been destroyed.

(m) Thickness of SPH is only an estimate. The resulting groundwater elevation will not be used in contouring.

* During the third quarter of 2002, URS Corporation assumed groundwater monitoring activities for BP
** Depth to water and resulting groundwater elevation is anamolous and not used in groundwater contouring.
*** Ambiguously low concentrations reported from Cambria. Do not appear to support historic trends.

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

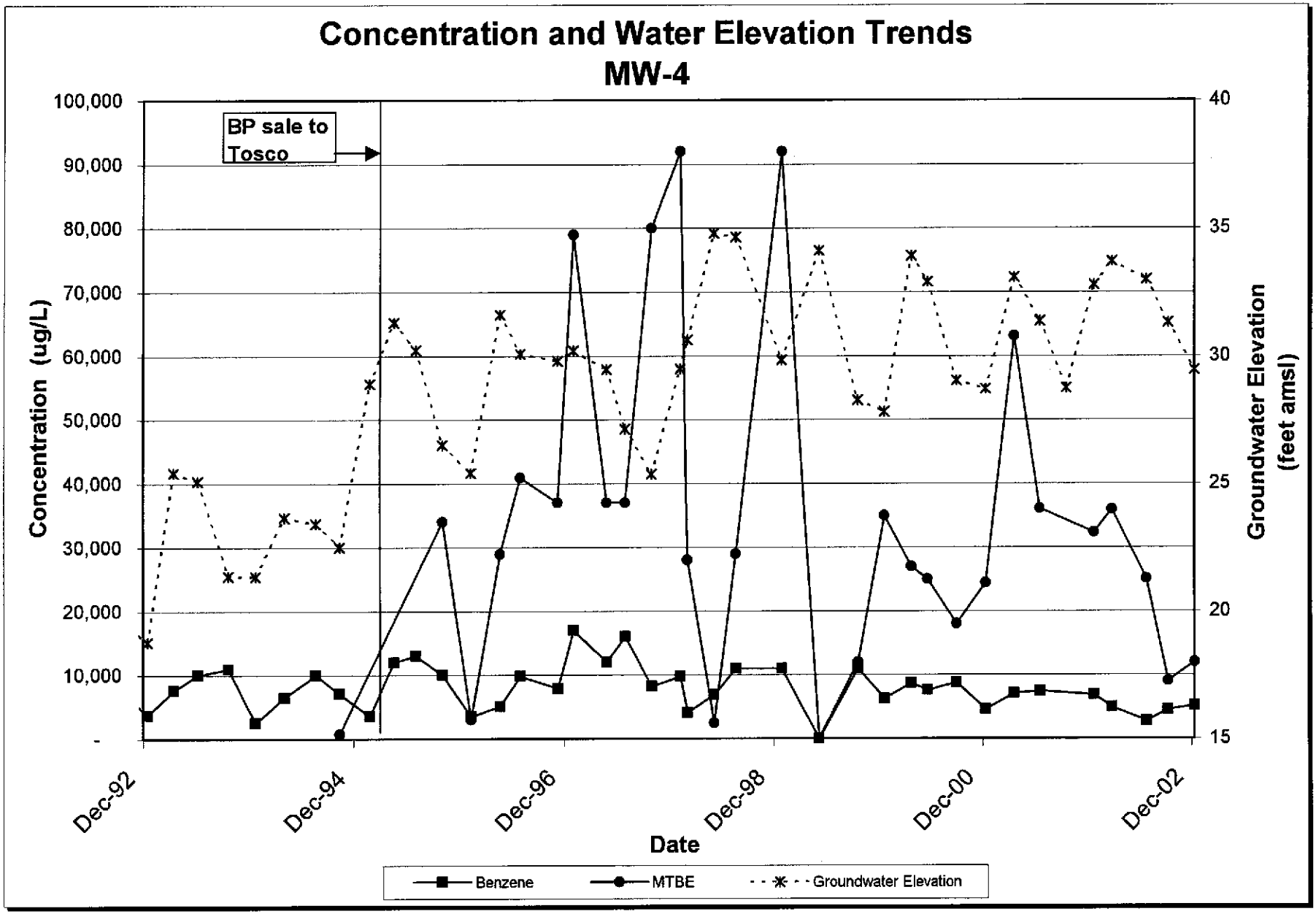


URS	Project No. 38486030 Former BP Service Station #11117 7210 Bancroft Avenue Oakland, California	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Fourth Quarter 2002 (December 12, 2002)	FIGURE 1

X:\x_gnv_waste\BP GEM\Sites\LNites Sites\11117\Reports\Monitoring\Qtr.4, 2002\GWEC-AS_12-12.dwg

ATTACHMENT A

CONCENTRATION AND WATER LEVEL TRENDS



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

URS Corporation

Graph 1

ATTACHMENT B

FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

Sampling Procedures

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

WELL GAUGING DATA

Project # 021212-BA1 Date 12/12/02 Client BP 11117

Site 7210 BANCROFT, OAKLAND

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	2					23.26	36.50	TOC	
MW-2	2	pressure				21.08	39.41		
MW-3	2					20.57	40.53		Gauge
MW-4	2					21.29	39.65		
MW-6	2					20.94	38.53		
MW-7	2	pressure				23.75	44.77		
MW-8	2					20.84	39.56		Gauge
MW-9	2					21.78	38.89		Gauge
MW-10	2					22.80	35.70		

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 021212-BA1	Station # 1117
Sampler: Brian Alcorn	Date: 12/12/02
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 36.50	Depth to Water: 20.26
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 / (Middleburg) / 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	= Calculated Volume
2.6	3	7.8 Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations (808 = 23.51)
1116	65.4	7.4	695	2.5	very cloudy gray mild odor
1119	65.6	6.8	702	5.0	cloudy gray mild odor
1122	65.5	6.8	722	7.5	"

Did well dewater? Yes (No) Gallons actually evacuated: 8

Sampling Time: 1125 Sampling Date: 12/12/02

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

Analyzed for: (TPH-G BTEX MTBE) TPH-D 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 #: 021212-BA1	Station # 11117
Sampler: Brian Aleoen	Date: 12/12/02
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 39.41	Depth to Water: 21.08
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 / (Middleburg) / 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.

2.9 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 8.7 (Calculated Volume) Gals.

808 = 24.75

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1138	67.8	7.1	537	3.0	very cloudy gray odor / light sheen
1141	68.6	6.6	575	6.0	cloudy gray odor / light sheen
1145	69.0	6.6	620	9.0	semi-cloudy gray odor / light sheen DTW 23.20

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

Sampling Time: 1150 Sampling Date: 12/12/02

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

Analyzed for: (TPH-G BTEX MTBE) TPH-D 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 #: 021212-BA1	Station # 1117
Sampler: Brian Alcorn	Date: 12/12/02
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 39.65	Depth to Water: 21.29
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 / (Middleburg) / 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.

2.9	X	3	=	8.7 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

808 = 24.96

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1202	69.3	6.9	846	3.0	cloudy gray odor
1205	70.1	6.7	864	6.0	"
1208	70.3	6.7	881	9.0	" DTW 22.28

Did well dewater? Yes (No)		Gallons actually evacuated: 9	
Sampling Time: 1210		Sampling Date: 12/12/02	
Sample I.D.: MW-4		Laboratory: Pace (Sequoia) Other____	
Analyzed for: (TPH-G BTEX MTBE) TPH-D	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 #: 021212-BA1	Station # 1117
Sampler: Brian Alcorn	Date: 12/12/02
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 38.53	Depth to Water: 20.94
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 / (Middleburg) / 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.

2.8 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 8.4 (Calculated Volume) Gals.

80% = 24.46

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1036	67.3	7.5	752	2.75	very cloudy ~~brownish~~ gray
1039	68.1	6.9	749	5.50	cloudy gray
1041	68.3	6.9	751	8.25	" DTW 20.96

Did well dewater? Yes (No) Gallons actually evacuated: 8

Sampling Time: 1045 Sampling Date: 12/12/02

Sample I.D.: MW-6 Laboratory: Pace (Sequoia) Other _____

Analyzed for: (TPH-G BTEX MTBE) TPH-D 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 #: 021212-BA1	Station # 1117
Sampler: Brian Alcorn	Date: 12/12/02
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 44.77	Depth to Water: 23.75
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 / (Middleburg) / 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.

3.4 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 10.2 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1011	68.5	7.9	445	3.5	semi-cloudy gray
1016	69.6	7.5	446	7.0	"
1021	69.5	7.5	436	10.5	clear DTW 35.83

Did well dewater? Yes (No)	Gallons actually evacuated: 11
Sampling Time: 1025	Sampling Date: 12/12/02
Sample I.D.: MW-7	Laboratory: Pace (Sequoia) Other_____
Analyzed for: (TPH-G BTEX MTBE) TPH-D 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 #: 021212-BA1	Station # 11117
Sampler: Brian Allcorn	Date: 12/12/02
Well I.D.: MW-10	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 35.70	Depth to Water: 22.80
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 / (Middleburg) / 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.

2.1 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 6.3 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
					80% = 25.38
1058	69.8	7.1	982	2.0	very cloudy brown very mild odor
1100	70.7	6.8	994	4.0	"
1102	71.0	6.9	966	6.0	" DTW 30.18

Did well dewater? Yes (No)		Gallons actually evacuated: 6	
Sampling Time: 1105		Sampling Date: 12/12/02	
Sample I.D.: MW-10		Laboratory: Pace (Sequoia) Other_____	
Analyzed for: (TPH-G BTEX MTBE) TPH-D 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

Chain of Custody Record

bp

Project Name
BP BU/GEM CO Portfolio:
BP Laboratory Contract Number:
Date: 12/12/02
Requested Due Date (mm/dd/yy) Standard

On-site Time:	Temp:
Off-site Time:	Temp.
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Send To:	
Lab Name:	SEQUOIA
Lab Address:	885 Jarvis Dr.
	Morgan Hill, CA 95037
Lab PM:	Latonya Pelt
Tele/Fax:	408-776-9600 / 408-782-6308
Report Type & QC Level:	Send EDF Reports
BP/GEM Account No.:	400-6-21124
Lab Bottle Order No:	

BP/GEM Facility No.:	
BP/GEM Facility Address:	7210 BANCROFT, OAKLAND, CA
Site ID No.	11117
Site Lat/Long:	
California Global ID #:	T0600100201
BP/GEM PM Contact:	Scott Hooton
Address:	
Tele/Fax:	

Consultant/Contractor:	URS
Address:	500 12th St., Ste. 200
	Oakland, CA 94609-4014
e-mail EDD:	syed_rehan@urscorp.com
Consultant/Contractor Project No.:	
Consultant Tele/Fax:	510-874-3101 / 510-874-3268
Consultant/Contractor PM:	Robert Horwath
Invoice to:	Consultant/Contractor or BP/GEM (circle one)
BP/GEM Work Release No:	

Item No.	Sample Description	Time	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Sediment	Matrix: Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Requested Analysis: TPH-G / BTEX (8015 / 8021)	Requested Analysis: TPH -D (8015)	Requested Analysis: MTBE (8021)	Requested Analysis: MTBE, TAME, ETBE DIPE, TBA (8260)	Requested Analysis: 1,2-DCA & EDB (8260)	Sample Point Lat/Long and Comments
1	MW-1 ✓	1125		X				3				X	X		X			
2	MW-2 ✓	1150		X				3				X	X		X			
3	MW-4 ✓	1210		X				3				X	X		X			
4	MW-6 ✓	1045		X				3				X	X		X			
5	MW-7 ✓	1025		X				3				X	X		X			
6	MW-10 ✓	1105		X				3				X	X		X			
7																		
8																		
9																		
10																		

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
	12/12/02	1010		12/12/02	1010
				12/13/02	1640

Sampler's Name: BRIAN ALCORN
Sampler's Company: BAKER TECH SERVICES
Shipment Date:
Shipment Method:
Shipment Tracking No:
Special Instructions: Address Invoice to BP/GEM but send to URS for approval

Custody Seals In Place Yes ___ No ✓ Temperature Blank Yes ___ No ✓ Cooler T

WELLHEAD INSPECTION CHECKLIST

Client BP 11117 Date 12/12/02

Site Address 7210 BANCROFT, OAKLAND

Job Number 021212-BA1 Technician BRIAN ALCORN

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-1	X							
MW-2	X							
MW-3	X							X
MW-4	X							
MW-6	X							
MW-7		X						X
MW-8	X							X
MW-9	X							
MW-10	X							

NOTES:

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:

11117
Station #

7210 BANCROFT, OAKLAND
Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

51

added equip. rinse water 9

any other adjustments

TOTAL GALS. RECOVERED 60

loaded onto BTS vehicle # 14

BTS event # 021212-BA1

time

date 12/12/02

signature

* *

REC'D AT

time

date ___/___/___

unloaded by signature

ATTACHMENT C

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

LABORATORY PROCEDURES

Laboratory Procedures

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

Sequoia Analytical

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

26 February, 2003

Robert Horwath
URS Corporation
500 12th Street, Suite 100
Oakland, CA 94607

RE: BP Heritage Site #11117, Oakland, CA
Sequoia Work Order: MLL0544

Enclosed are the results of analyses for samples received by the laboratory on 12/13/02 16:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya K. Pelt

Latonya Pelt
Project Manager

CA ELAP Certificate #1210

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URS Corporation	Project: BP Heritage Site #11117, Oakland, CA	MLL0544
500 12th Street, Suite 100	Project Number: BP Heritage Site #11117, Oakland, CA	**Reported:**
Oakland CA, 94607	Project Manager: Robert Horwath	02/26/03 09:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MLL0544-01	Water	12/12/02 11:25	12/13/02 16:40
MW-2	MLL0544-02	Water	12/12/02 11:50	12/13/02 16:40
MW-4	MLL0544-03	Water	12/12/02 12:10	12/13/02 16:40
MW-6	MLL0544-04	Water	12/12/02 10:45	12/13/02 16:40
MW-7	MLL0544-05	Water	12/12/02 10:25	12/13/02 16:40
MW-10	MLL0544-06	Water	12/12/02 11:05	12/13/02 16:40

There were no custody seals that were received with this project.

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URS Corporation	Project: BP Heritage Site #11117, Oakland, CA	MLL0544
500 12th Street, Suite 100	Project Number: BP Heritage Site #11117, Oakland, CA	**Reported:**
Oakland CA, 94607	Project Manager: Robert Horwath	02/26/03 09:56

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015B/8021B

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MLL0544-01RE1) Water Sampled: 12/12/02 11:25 Received: 12/13/02 16:40									**HT-04**
Gasoline Range Organics	**210**	50	ug/l	1	2120772	12/27/02	12/27/02	EPA 8015B/8021B	
Benzene	**1.9**	0.50	"	"	"	"	"	"	QR-04
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**32**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*99 %*	*65-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99 %*	*65-135*		"	"	"	"	
MW-2 (MLL0544-02) Water Sampled: 12/12/02 11:50 Received: 12/13/02 16:40									
Gasoline Range Organics	**120000**	10000	ug/l	200	2120759	12/26/02	12/26/02	EPA 8015B/8021B	
Benzene	**13000**	100	"	"	"	"	"	"	
Toluene	**21000**	100	"	"	"	"	"	"	
Ethylbenzene	**4400**	100	"	"	"	"	"	"	
Xylenes (total)	**25000**	100	"	"	"	"	"	"	
Methyl tert-butyl ether	**16000**	500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*76 %*	*65-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82 %*	*65-135*		"	"	"	"	
MW-4 (MLL0544-03) Water Sampled: 12/12/02 12:10 Received: 12/13/02 16:40									
Gasoline Range Organics	**36000**	10000	ug/l	200	2120759	12/26/02	12/26/02	EPA 8015B/8021B	
Benzene	**5200**	100	"	"	"	"	"	"	
Toluene	**3400**	100	"	"	"	"	"	"	
Ethylbenzene	**2000**	100	"	"	"	"	"	"	
Xylenes (total)	**6500**	100	"	"	"	"	"	"	
Methyl tert-butyl ether	**12000**	500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*75 %*	*65-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*77 %*	*65-135*		"	"	"	"	

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URS Corporation	Project: BP Heritage Site #11117, Oakland, CA	MLL0544
500 12th Street, Suite 100	Project Number: BP Heritage Site #11117, Oakland, CA	**Reported:**
Oakland CA, 94607	Project Manager: Robert Horwath	02/26/03 09:56

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015B/8021B

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (MLL0544-04) Water Sampled: 12/12/02 10:45 Received: 12/13/02 16:40									
Gasoline Range Organics	**270**	250	ug/l	5	2120759	12/26/02	12/26/02	EPA 8015B/8021B	
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	**500**	12	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*76 %*	*65-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81 %*	*65-135*		"	"	"	"	
MW-7 (MLL0544-05) Water Sampled: 12/12/02 10:25 Received: 12/13/02 16:40									
Gasoline Range Organics	ND	50	ug/l	1	2120759	12/26/02	12/26/02	EPA 8015B/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*74 %*	*65-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*77 %*	*65-135*		"	"	"	"	
MW-10 (MLL0544-06) Water Sampled: 12/12/02 11:05 Received: 12/13/02 16:40									
Gasoline Range Organics	**1400**	500	ug/l	10	2120759	12/26/02	12/26/02	EPA 8015B/8021B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**3300**	25	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*75 %*	*65-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80 %*	*65-135*		"	"	"	"	

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URS Corporation	Project: BP Heritage Site #11117, Oakland, CA	MLL0544
500 12th Street, Suite 100	Project Number: BP Heritage Site #11117, Oakland, CA	**Reported:**
Oakland CA, 94607	Project Manager: Robert Horwath	02/26/03 09:56

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015B/8021B - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2120759 - EPA 5030, waters										
Blank (2120759-BLK1)				Prepared & Analyzed: 12/26/02						
Gasoline Range Organics	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*282*		"	*300*		*94*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*275*		"	*300*		*92*	*65-135*			
Laboratory Control Sample (2120759-BS1)				Prepared & Analyzed: 12/26/02						
Gasoline Range Organics	2350	50	ug/l	2750		85	65-135			
Benzene	40.3	0.50	"	34.0		119	65-135			
Toluene	205	0.50	"	208		99	65-135			
Ethylbenzene	43.6	0.50	"	49.0		89	65-135			
Xylenes (total)	222	0.50	"	241		92	65-135			
Methyl tert-butyl ether	73.4	2.5	"	56.0		131	65-135			
Surrogate: a,a,a-Trifluorotoluene	*324*		"	*300*		*108*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*287*		"	*300*		*96*	*65-135*			
Matrix Spike (2120759-MS1)		**Source: MLL0544-05**		Prepared & Analyzed: 12/26/02						
Gasoline Range Organics	2330	50	ug/l	2750	19	84	65-135			
Benzene	40.1	0.50	"	34.0	ND	118	65-135			
Toluene	210	0.50	"	208	0.16	101	65-135			
Ethylbenzene	45.2	0.50	"	49.0	ND	92	65-135			
Xylenes (total)	223	0.50	"	241	ND	93	65-135			
Methyl tert-butyl ether	63.7	2.5	"	56.0	ND	114	65-135			
Surrogate: a,a,a-Trifluorotoluene	*261*		"	*300*		*87*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*269*		"	*300*		*90*	*65-135*			

Sequoia Analytical

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URS Corporation	Project: BP Heritage Site #11117, Oakland, CA	MLL0544
500 12th Street, Suite 100	Project Number: BP Heritage Site #11117, Oakland, CA	**Reported:**
Oakland CA, 94607	Project Manager: Robert Horwath	02/26/03 09:56

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015B/8021B - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2120759 - EPA 5030, waters										
Matrix Spike Dup (2120759-MSD1)		**Source: MLL0544-05**		Prepared: 12/26/02		Analyzed: 12/27/02				**HT-04**
Gasoline Range Organics	2170	50	ug/l	2750	19	78	65-135	7	20	
Benzene	38.3	0.50	"	34.0	ND	113	65-135	5	20	
Toluene	202	0.50	"	208	0.16	97	65-135	4	20	
Ethylbenzene	43.7	0.50	"	49.0	ND	89	65-135	3	20	
Xylenes (total)	219	0.50	"	241	ND	91	65-135	2	20	
Methyl tert-butyl ether	61.6	2.5	"	56.0	ND	110	65-135	3	20	
Surrogate: a,a,a-Trifluorotoluene	*250*		"	*300*		*83*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*262*		"	*300*		*87*	*65-135*			
Batch 2120772 - EPA 5030, waters										
Blank (2120772-BLK1)				Prepared & Analyzed: 12/27/02						
Gasoline Range Organics	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*283*		"	*300*		*94*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*298*		"	*300*		*99*	*65-135*			
Laboratory Control Sample (2120772-BS1)				Prepared & Analyzed: 12/27/02						
Gasoline Range Organics	2570	50	ug/l	2750		93	65-135			
Benzene	40.9	0.50	"	34.0		120	65-135			
Toluene	208	0.50	"	208		100	65-135			
Ethylbenzene	43.4	0.50	"	49.0		89	65-135			
Xylenes (total)	221	0.50	"	241		92	65-135			
Methyl tert-butyl ether	53.3	2.5	"	56.0		95	65-135			
Surrogate: a,a,a-Trifluorotoluene	*319*		"	*300*		*106*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*325*		"	*300*		*108*	*65-135*			

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URS Corporation	Project: BP Heritage Site #11117, Oakland, CA	MLL0544
500 12th Street, Suite 100	Project Number: BP Heritage Site #11117, Oakland, CA	**Reported:**
Oakland CA, 94607	Project Manager: Robert Horwath	02/26/03 09:56

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015B/8021B - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2120772 - EPA 5030, waters										
Matrix Spike (2120772-MS1)	**Source: P212485-08**			Prepared & Analyzed: 12/27/02						
Gasoline Range Organics	2500	50	ug/l	2750	120	87	65-135			
Benzene	40.6	0.50	"	34.0	ND	119	65-135			
Toluene	205	0.50	"	208	0.44	98	65-135			
Ethylbenzene	43.4	0.50	"	49.0	0.94	87	65-135			
Xylenes (total)	219	0.50	"	241	0.52	91	65-135			
Methyl tert-butyl ether	222	2.5	"	56.0	140	146	65-135			QM-07
Surrogate: a,a,a-Trifluorotoluene	*329*		"	*300*		*110*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*301*		"	*300*		*100*	*65-135*			
Matrix Spike Dup (2120772-MSD1)	**Source: P212485-08**			Prepared & Analyzed: 12/27/02						
Gasoline Range Organics	2620	50	ug/l	2750	120	91	65-135	5	20	
Benzene	40.4	0.50	"	34.0	ND	119	65-135	0.5	20	
Toluene	207	0.50	"	208	0.44	99	65-135	1	20	
Ethylbenzene	43.6	0.50	"	49.0	0.94	87	65-135	0.5	20	
Xylenes (total)	221	0.50	"	241	0.52	91	65-135	0.9	20	
Methyl tert-butyl ether	213	2.5	"	56.0	140	130	65-135	4	20	
Surrogate: a,a,a-Trifluorotoluene	*324*		"	*300*		*108*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*328*		"	*300*		*109*	*65-135*			

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URS Corporation	Project: BP Heritage Site #11117, Oakland, CA	MLL0544
500 12th Street, Suite 100	Project Number: BP Heritage Site #11117, Oakland, CA	**Reported:**
Oakland CA, 94607	Project Manager: Robert Horwath	02/26/03 09:56

Notes and Definitions

HT-04	This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR-04	Primary and confirmation results varied by greater than 40% RPD. The results may still be useful for their intended purpose.
S-LIM	The surrogate recovery was outside control limits. The result may still be useful for its intended purpose.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

bp

Chain of Custody Record

Project Name:
BP BU/GEM CO Portfolio:
BP Laboratory Contract Number:
Date: 12/2/02
Requested Due Date (mm/dd/yy) Standard HLL0544

On-site Time:	Temp:
Off- site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Send To:	BP/GEM Facility No.:	Consultant/Contractor: URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 7210 BANCROFT, OAKLAND, CA	Address: 500 12th St., Ste. 200
Lab Address: 885 Jarvis Dr.	Site ID No. 11117	Oakland, CA 94609-4014
Morgan Hill, CA 95037	Site Lat/Long:	e-mail EDD: syed_rehan@urscorp.com
	California Global ID #: T0600100201	Consultant/Contractor Project No.:
Lab PM: Latonya Pelt	BP/GEM PM Contact: Scott Hooton	Consultant Tele/Fax: 510-874-3107 / 510-874-3268
Tele/Fax: 408-776-9600 / 408-782-6308	Address:	Consultant/Contractor PM: Robert Horwath
Report Type & QC Level: Send EDF Reports		Invoice to: Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Account No.: 400-6-21124	Tele/Fax:	BP/GEM Work Release No:

Lab Bottle Order No:

Item No.	Sample Description	Time	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Sediments	Matrix: Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Requested Analysis: TPH-G / BTEX (8015 / 8021)	Requested Analysis: TPH-D (8015)	Requested Analysis: MTBE (8021)	Requested Analysis: MTBE, TAME, ETBE, DIPE, TBA (8260)	Requested Analysis: 1,2-DCA & EDB (8260)	Sample Point Lat/Long and Comments
1	MW-1 ✓	1125		X			01	3				X	X		X			
2	MW-2 ✓	1150		X			02	3				X	X		X			
3	MW-4 ✓	1210		X			03	3				X	X		X			
4	MW-6 ✓	1045		X			04	3				X	X		X			
5	MW-7 ✓	1025		X			05	3				X	X		X			
6	MW-10 ✓	1105		X			06	3				X	X		X			
7																		
8																		
9																		
10																		

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: Brian Ancord						
Sampler's Company: Environtech Services		12/2/02	1010		12/2/02	1010
Shipment Date:		12/2/02			12/2/02	1640
Shipment Method:						
Shipment Tracking No:						

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

Seals In Place Yes ___ No ✓ Temperature Blank Yes ___ No ✓ Cooler Temperature on Receipt 3 °F/C Trip Blank Yes ___ No ✓

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS
REC. BY (PRINT): HT
WORKORDER: ML10544

DATE Received at Lab: 12/13/02
TIME Received at Lab: 640
LOG IN DATE: 12-17-02

Drinking water for regulatory purposes: YES / (NO)
Wastewater for regulatory purposes: YES / (NO)

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	#	CLIENT ID	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / (Absent) Intact / Broken*			MW1	3 VOA (HCl)	W	12/12	COC 22186.50
2. Chain-of-Custody	(Present) / Absent*			2				
3. Traffic Reports or Packing List:	Present / (Absent)			4				
4. Airbill:	Airbill / Sticker Present / (Absent)			6				
5. Airbill #:				7				
6. Sample Labels:	(Present) / Absent			10				
7. Sample IDs:	(Listed) / Not Listed on Chain-of-Custody							
8. Sample Condition:	(Intact) / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample labels agree?	(Yes) / No*							
10. Sample received within hold time:	(Yes) / No*							
11. Proper Preservatives used:	(Yes) / No*							
12. Temp Rec. at Lab: 3°C (Acceptance range for samples requiring thermal pres.:4+/-2°C)	(Yes) / No**							
**Exception (if any):								

HT 12/13/02

*If Circled, contact Project Manager and attach record of resolution.

ATTACHMENT D

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

01/20/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	BP Heritage Site #11117,
Work Order Number:	MLL0544
Global ID:	T0600100201
Lab Report Number:	MLL0544010320031440

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
MLL05440103200 31440	MW-1	MLL054401	W	CS	SW8020F	SW5030	12/12/02	12/26/02	12/26/02	2120759	1	SEQP
MLL05440103200 31440	MW-1	MLL054401R1	W	CS	SW8020F	SW5030	12/12/02	12/27/02	12/27/02	2120772	1	SEQP
MLL05440103200 31440	MW-10	MLL054406	W	CS	SW8020F	SW5030	12/12/02	12/26/02	12/26/02	2120759	1	SEQP
MLL05440103200 31440	MW-2	MLL054402	W	CS	SW8020F	SW5030	12/12/02	12/26/02	12/26/02	2120759	1	SEQP
MLL05440103200 31440	MW-4	MLL054403	W	CS	SW8020F	SW5030	12/12/02	12/26/02	12/26/02	2120759	1	SEQP
MLL05440103200 31440	MW-6	MLL054404	W	CS	SW8020F	SW5030	12/12/02	12/26/02	12/26/02	2120759	1	SEQP
MLL05440103200 31440	MW-7	MLL054405	W	CS	SW8020F	SW5030	12/12/02	12/26/02	12/26/02	2120759	1	SEQP
		P21248508	W	NC	SW8020F	SW5030	/ /	12/27/02	12/27/02	2120772	1	SEQP
		2120759BS1	WQ	BS1	SW8020F	SW5030	/ /	12/26/02	12/26/02	2120759	1	SEQP
		2120759BLK1	WQ	LB1	SW8020F	SW5030	/ /	12/26/02	12/26/02	2120759	1	SEQP
		2120759MS1	W	MS1	SW8020F	SW5030	/ /	12/26/02	12/26/02	2120759	1	SEQP
		2120759MSD1	W	SD1	SW8020F	SW5030	/ /	12/26/02	12/27/02	2120759	1	SEQP
		2120772BS1	WQ	BS1	SW8020F	SW5030	/ /	12/27/02	12/27/02	2120772	1	SEQP
		2120772BLK1	WQ	LB1	SW8020F	SW5030	/ /	12/27/02	12/27/02	2120772	1	SEQP
		2120772MS1	W	MS1	SW8020F	SW5030	/ /	12/27/02	12/27/02	2120772	1	SEQP
		2120772MSD1	W	SD1	SW8020F	SW5030	/ /	12/27/02	12/27/02	2120772	1	SEQP

EDFSAMP: Error Summary Log

01/20/03

Error type	Logcode	Projname	Npdlwo	Sampid	Matrix
There are no errors in this data file					

EDFTEST: Error Summary Log

01/20/03

Error type	Labsampid	Qccode	Anmcode	Exmcode	Anadate	Run number
There are no errors in this data file					/ /	0

EDFRES: Error Summary Log

01/20/03

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	2120759MS1	MS1	W	SW8020F	PR	12/26/02	1	AAATFBZME
Warning: extra parameter	2120759MS1	MS1	W	SW8020F	PR	12/26/02	1	BR4FBZ
Warning: extra parameter	2120759MS1	MS1	W	SW8020F	PR	12/26/02	1	MTBE
Warning: extra parameter	2120759MSD1	SD1	W	SW8020F	PR	12/27/02	1	AAATFBZME
Warning: extra parameter	2120759MSD1	SD1	W	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	2120759MSD1	SD1	W	SW8020F	PR	12/27/02	1	MTBE
Warning: extra parameter	2120772MS1	MS1	W	SW8020F	PR	12/27/02	1	AAATFBZME
Warning: extra parameter	2120772MS1	MS1	W	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	2120772MS1	MS1	W	SW8020F	PR	12/27/02	1	MTBE
Warning: extra parameter	2120772MSD1	SD1	W	SW8020F	PR	12/27/02	1	AAATFBZME
Warning: extra parameter	2120772MSD1	SD1	W	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	2120772MSD1	SD1	W	SW8020F	PR	12/27/02	1	MTBE
Warning: extra parameter	MLL054401	CS	W	SW8020F	PR	12/26/02	1	AAATFBZME
Warning: extra parameter	MLL054401	CS	W	SW8020F	PR	12/26/02	1	BR4FBZ
Warning: extra parameter	MLL054401	CS	W	SW8020F	PR	12/26/02	1	MTBE
Warning: extra parameter	MLL054401R1	CS	W	SW8020F	PR	12/27/02	1	AAATFBZME
Warning: extra parameter	MLL054401R1	CS	W	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	MLL054401R1	CS	W	SW8020F	PR	12/27/02	1	MTBE
Warning: extra parameter	MLL054402	CS	W	SW8020F	PR	12/26/02	1	AAATFBZME
Warning: extra parameter	MLL054402	CS	W	SW8020F	PR	12/26/02	1	BR4FBZ
Warning: extra parameter	MLL054402	CS	W	SW8020F	PR	12/26/02	1	MTBE
Warning: extra parameter	MLL054403	CS	W	SW8020F	PR	12/26/02	1	AAATFBZME
Warning: extra parameter	MLL054403	CS	W	SW8020F	PR	12/26/02	1	BR4FBZ
Warning: extra parameter	MLL054403	CS	W	SW8020F	PR	12/26/02	1	MTBE
Warning: extra parameter	MLL054404	CS	W	SW8020F	PR	12/26/02	1	AAATFBZME

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MLL054404	CS	W	SW8020F	PR	12/26/02	1	BR4FBZ
Warning: extra parameter	MLL054404	CS	W	SW8020F	PR	12/26/02	1	MTBE
Warning: extra parameter	MLL054405	CS	W	SW8020F	PR	12/26/02	1	AAATFBZME
Warning: extra parameter	MLL054405	CS	W	SW8020F	PR	12/26/02	1	BR4FBZ
Warning: extra parameter	MLL054405	CS	W	SW8020F	PR	12/26/02	1	MTBE
Warning: extra parameter	MLL054406	CS	W	SW8020F	PR	12/26/02	1	AAATFBZME
Warning: extra parameter	MLL054406	CS	W	SW8020F	PR	12/26/02	1	BR4FBZ
Warning: extra parameter	MLL054406	CS	W	SW8020F	PR	12/26/02	1	MTBE
Warning: extra parameter	P21248508	NC	W	SW8020F	PR	12/27/02	1	AAATFBZME
Warning: extra parameter	P21248508	NC	W	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	P21248508	NC	W	SW8020F	PR	12/27/02	1	MTBE
Warning: extra parameter	2120759BLK1	LB1	WQ	SW8020F	PR	12/26/02	1	AAATFBZME
Warning: extra parameter	2120759BLK1	LB1	WQ	SW8020F	PR	12/26/02	1	BR4FBZ
Warning: extra parameter	2120759BLK1	LB1	WQ	SW8020F	PR	12/26/02	1	MTBE
Warning: extra parameter	2120759BS1	BS1	WQ	SW8020F	PR	12/26/02	1	AAATFBZME
Warning: extra parameter	2120759BS1	BS1	WQ	SW8020F	PR	12/26/02	1	BR4FBZ
Warning: extra parameter	2120759BS1	BS1	WQ	SW8020F	PR	12/26/02	1	MTBE
Warning: extra parameter	2120772BLK1	LB1	WQ	SW8020F	PR	12/27/02	1	AAATFBZME
Warning: extra parameter	2120772BLK1	LB1	WQ	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	2120772BLK1	LB1	WQ	SW8020F	PR	12/27/02	1	MTBE
Warning: extra parameter	2120772BS1	BS1	WQ	SW8020F	PR	12/27/02	1	AAATFBZME
Warning: extra parameter	2120772BS1	BS1	WQ	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	2120772BS1	BS1	WQ	SW8020F	PR	12/27/02	1	MTBE

EDFQC: Error Summary Log

01/20/03

Error type	Lablotctl	Anmcode	Parlabel	Qccode	Labqcid
There are no errors in this data files					

EDFCL: Error Summary Log

01/20/03

Error type	Clrevdate	Anmcode	Exmcode	Parlabel	Clcode
There are no errors in this data file	/ /				

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