

Alameda County

FEB 27 2003

Environmental Health

February 25, 2003

Mr. Scott Seery
Alameda County Health Care Services Agency
1131 Harbot Bay Parkway, Room 250
Alameda, California 94502-6577

Re: **Fourth Quarter 2002 Groundwater Monitoring Report**
Former BP Service Station #11105
3519 Castro Valley Boulevard
Castro Valley, California
URS Project #38466026 / 38486236

Dear Mr. Seery:

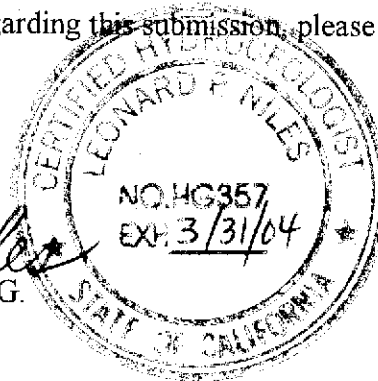
On behalf of BP (an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Fourth Quarter 2002 Groundwater Monitoring Report* for the Former BP Service Station #11105, located at 3519 Castro Valley Boulevard, Castro Valley, California.

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

Sincerely,

URS CORPORATION

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



Attachment: Fourth Quarter 2002 Groundwater Monitoring Report

cc: Mr. Scott Hooton, BP Oil Company, Environmental Resources management, 295 SW 41st Street, Building 13, Suite N, Renton, Washington 98055-4931
Ade Fagorala, San Francisco Bay Regional Water Quality Control Board, 1515 Clay Street, Suite 1400, Oakland, California 94612
Azim Shakoori, Castro Valley Chevron, 3519 Castro Valley Boulevard, Castro Valley, California, 94546
Anthony Farcich, Farcich Family Property Trust, 20707 Tuxedo Court, Castro Valley, California, 94552

R E P O R T

**FOURTH QUARTER 2002
GROUNDWATER MONITORING**

FORMER BP SERVICE STATION #11105
3519 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CALIFORNIA

Prepared for
BP GEM

February 25, 2003

URS

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

38466026



Date: February 25, 2003
Quarter: 4Q 02

BP GEM QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 11105 Address: 3519 Castro Valley Boulevard, Castro Valley, California
BP Environmental Engineer: Scott Hooton
Consulting Co./Contact Person: URS Corporation/ Leonard Niles
Consultant Project No.: 38466026
Primary Agency/Regulatory ID No.: Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER (Fourth – 2002):

1. Performed fourth quarter 2002 groundwater monitoring event.
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:	<u>GW monitoring/sampling</u>
Frequency of Groundwater Sampling:	<u>ESE-1 through ESE-3, quarterly; ESE-5 and MW-7, biannual</u>
Frequency of Groundwater Monitoring:	<u>Quarterly</u>
Is Free Product (FP) Present On-Site:	<u>No</u>
Current Remediation Techniques:	<u>None currently</u>
Approximate Depth to Groundwater:	<u>6.58 (ESE-5) to 9.23 (ESE-3) feet</u>
Groundwater Gradient (direction):	<u>South to southeast</u>
Groundwater Gradient (magnitude):	<u>0.03 to 0.04 feet per foot</u>

DISCUSSION:

TPH-g was detected in all three wells sampled at concentrations ranging from 290 µg/L (ESE-3) to 1,400 µg/L (ESE-2). Benzene was detected in two of the three wells sampled at concentrations of 55 µg/L (ESE-3) and 140 µg/L (ESE-1). MTBE was detected in all three wells sampled at concentrations ranging from 78 µg/L (ESE-3) to 2,400 µg/L (ESE-2). Groundwater elevations across the site increased by an average of approximately 1.69 feet this quarter, and the groundwater flow direction varied from the south to southeast at a calculated hydraulic gradient of 0.03 to 0.04 feet per foot.

Please note the EDF/Geowell Submittal Confirmation is not included in this report due to the fact that we are in the process of receiving the global ID for this site.



ATTACHMENTS:

- Table 1 – Groundwater Elevation and Analytical Data
- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – December 16, 2002
- Attachment A – Concentration and Water Level Trends (ESE-2)
- Attachment B – Field Procedures and Field Data Sheets
- Attachment C – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment D - EDCC Report

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11105
3519 Castro Valley Blvd, Castro Valley, CA

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB	
ESE-1 (c)	10/5/92	177.69	11.22	166.47	2100	370	150	17	110	---	(l)	---	PACE
ESE-1D (d)	10/5/92	---	---	---	2300	370	160	16	110	---	(l)	---	PACE
ESE-1	4/1/93	177.69	8.79	168.90	5900	1500	410	110	390	---	(l)	---	PACE
ESE-1	6/29/93	177.69	10.34	167.35	7600	2900	390	130	460	---	(l)	---	PACE
ESE-1	9/23/93	177.69	10.91	166.78	2000	490	40	20	56	600	(e)(l)	---	PACE
QC-1 (d)	9/23/93	---	---	---	1500	420	39	19	56	550	(e)(l)	---	PACE
ESE-1	12/10/93	177.69	9.93	167.76	1800	480	42	19	66	921	(e)(l)	3.2	PACE
QC-1 (d)	12/10/93	---	---	---	1500	380	38	17	55	770	(e)(l)	---	PACE
ESE-1	2/17/94	177.69	9.64	168.05	1900	380	48	24	80	585	(e)(l)	---	PACE
QC-1 (d)	2/17/94	---	---	---	2200	430	42	19	65	491	(e)(l)	---	PACE
ESE-1	8/8/94	177.69	11.72	165.97	2100	450	46	16	50	760	(e)	5.1	PACE
ESE-1	10/12/94	177.69	10.48	167.21	760	240	16	51	39	230	(e)	3.5	PACE
ESE-1	1/19/95	177.69	7.77	169.92	840	600	120	22	58	---	---	8.0	ATI
ESE-1	5/2/95	177.69	8.69	169.00	2000	640	67	24	98	---	---	8.5	ATI
ESE-1	7/28/95	177.69	10.12	167.57	190	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	7.9	ATI
ESE-1	11/17/95	177.69	10.57	167.12	200	3.4	ND<1.0	1	ND<2.0	600	---	7.7	ATI
ESE-1	2/7/96	177.69	7.41	170.28	750	370	23	21	64	680	---	2.5	SPL
ESE-1	4/23/96	177.69	9.12	168.57	310	100	ND<1	ND<1	ND<1	1500	---	6.3	SPL
ESE-1	7/9/96	177.69	10.12	167.57	730	230	74	13	63	750	---	2.9	SPL
ESE-1	10/10/96	177.69	10.80	166.89	420	26	1.6	7.3	12	430	---	7.4	SPL
ESE-1	1/20/97	177.69	8.52	169.17	660	290	4.2	13	36	450	---	5.9	SPL
ESE-1	4/25/97	177.69	9.77	167.92	410	ND<0.5	ND<1.0	ND<1.0	ND<1.0	580	---	5.3	SPL
ESE-1	7/18/97	177.69	10.55	167.14	420	ND<0.5	ND<1.0	ND<1.0	ND<1.0	370	---	5.0	SPL
ESE-1	10/27/97	177.69	10.36	167.33	300	56	ND<1.0	6.5	ND<1.0	220	---	4.8	SPL
ESE-1	1/22/98	177.69	7.52	170.17	4200	440	9	15	17.7	1300	---	4.2	SPL
ESE-1	4/23/98	177.69	8.80	168.89	15000	3400	190	910	900	4900	---	4.2	SPL
QC-1	4/23/98	---	---	---	15000	2800	140	730	730	4400	---	---	SPL
ESE-1	7/29/98	177.69	9.73	167.96	---	---	---	---	---	---	---	---	---
ESE-1	7/30/98	---	---	---	15000	ND<2.5	ND<5.0	ND<5.0	ND<5.0	15000	---	4.0	SPL
ESE-1	12/17/98	177.69	9.51	168.18	2400	73	1.0	2.8	4.6	2000/2500*	---	---	SPL
ESE-1	3/19/99	177.69	8.65	169.04	4700	58	ND<1.0	ND>1.0	ND<1.0	4700	---	---	SPL
ESE-1	6/23/99	177.69	10.51	167.18	600	170	ND<1.0	7.2	5.0	3900	---	---	SPL
ESE-1	9/27/99	177.69	10.32	167.37	920	200	ND<25	ND<25	ND<25	4900	---	---	SPL
ESE-1	12/9/99	177.69	10.24	167.45	460	130	1.2	5.2	1.5	5100	---	---	PACE
ESE-1	3/9/00	177.69	7.72	169.97	3000 (j)	1300	120	80	140	7300	---	---	PACE
ESE-1	6/8/00	177.69	9.40	168.29	2900	540	9.7	20	17	5200	---	---	PACE
ESE-1	9/18/00	177.69	10.05	167.64	890	3.4	ND<0.5	1.4	ND<0.5	2800	---	---	PACE

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WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB
ESE-1	12/14/00	177.69	8.20	169.49	1600	11.1	ND<0.5	ND<0.5	ND<0.5	2730	---	PACE
ESE-1	3/21/01	177.69	9.75	167.94	5700	2.28	ND<0.5	0.51	ND<1.5	6810	---	PACE
ESE-1	6/18/01	177.69	10.21	167.48	2000	152	0.669	3.62	2.34	1980	---	PACE
ESE-1	9/18/01	177.69	10.30	167.39	2500	57.1	ND<5.0	6.25	ND<15	2090	---	PACE
ESE-1	12/13/01	177.69	9.82	167.87	2800	208	6.05	8.54	9.66	2030	---	PACE
ESE-1	3/14/02	177.69	9.10	168.59	1800	140	6.31	4.5	9.41	1970	---	PACE
ESE-1	6/19/02	177.69	9.92	167.77	1100	220	2.02	4.23	3.8	1280	---	PACE
ESE-1	9/10/02*	177.69	10.21	167.48	490	39	2.9	ND<2.0	4.9	670	---	SEQ
ESE-1	12/16/02	177.69	8.56	169.13	730	140	6.0	3.2	9.1	670	---	SEQ

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ESE-2	10/5/92	178.23	11.68	166.55	300	5.4	16	3.9	45	---	(l)	---	PACE
ESE-2	4/1/93	178.23	9.17	169.06	240	27	ND<0.5	17	2.6	123	(e)(l)	---	PACE
ESE-2	6/29/93	178.23	10.88	167.35	1700	260	24	110	23	---	(l)	---	PACE
QC-1 (d)	6/29/93	---	---	---	1300	240	17	110	25	---	(l)	---	PACE
ESE-2	9/23/93	178.23	11.56	166.67	240	3.1	0.5	0.6	2.5	643	(e)(l)	---	PACE
ESE-2	12/10/93	178.23	10.48	167.75	250	2.4	2.4	1.5	11	940	(e)(l)	2.6	PACE
ESE-2	2/17/94	178.23	10.06	168.17	900	ND<0.5	ND<0.5	ND<0.5	ND<0.5	930	(e)(l)	---	PACE
ESE-2	8/8/94	178.23	11.11	167.12	750	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1400	(e)	5.1	PACE
ESE-2	10/12/94	178.23	11.31	166.92	1700	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3000	(e)	3.6	PACE
ESE-2	1/19/95	178.23	8.25	169.98	300	2	0.9	0.7	1	---		8.1	ATI
ESE-2	5/2/95	178.23	9.21	169.02	1200	4	ND<2.5	ND<2.5	ND<5.0	---		8.4	ATI
ESE-2	7/28/95	178.23	10.64	167.59	2000	ND<2.5	ND<2.5	ND<2.5	ND<5.0	---		7.7	ATI
ESE-2	11/17/95	178.23	11.13	167.10	3600	ND<25	ND<25	ND<25	ND<50	12000	(e)(l)	7.4	ATI
QC-1 (d)	11/17/95	---	---	---	3400	ND<25	ND<25	ND<25	ND<50	12000		---	ATI
ESE-2	2/7/96	178.23	7.94	170.29	450	ND<0.5	ND<1	ND<1	ND<1	2300		1.8	SPL
ESE-2	4/23/96	178.23	9.73	168.50	260	0.9	ND<1	ND<1	ND<1	8600		7.2	SPL
ESE-2	7/9/96	178.23	10.70	167.53	780	ND<2.5	ND<5	ND<5	ND<5	13393		3.0	SPL
ESE-2	10/10/96	178.23	11.39	166.84	2900	ND<0.5	ND<1.0	ND<1.0	ND<1.0	12000		7.0	SPL
ESE-2	1/20/97	178.23	9.04	169.19	ND<250	ND<2.5	ND<5.0	ND<5.0	ND<5.0	13000		6.2	SPL
ESE-2	4/25/97	178.23	10.31	167.92	2700	ND<0.5	ND<1.0	ND<1.0	ND<1.0	15000		5.9	SPL
ESE-2	7/18/97	178.23	11.02	167.21	11000	ND<5	ND<10	ND<10	ND<10	11000		5.0	SPL
ESE-2	10/27/97	178.23	10.93	167.30	6100	ND<2.5	ND<5.0	ND<5.0	ND<5.0	7100		4.8	SPL
QC-1 (d)	10/27/97	---	---	---	6600	ND<2.5	ND<5.0	ND<5.0	ND<5.0	7400		---	SPL
ESE-2	1/22/98	178.23	7.93	170.30	13000	ND<0.5	ND<1.0	ND<1.0	ND<1.0	10000		4.6	SPL
QC-1 (d)	1/22/98	---	---	---	13000	ND<0.5	ND<1.0	ND<1.0	ND<1.0	10000		---	SPL
ESE-2	4/23/98	178.23	9.34	168.89	19000	ND<5	ND<10	ND<10	ND<10	36000		4.2	SPL
ESE-2	7/29/98	178.23	10.29	167.94	---	---	---	---	---	---		---	---
ESE-2	7/30/98	---	---	---	19000	ND<5	ND<10	ND<10	ND<10	36000		4.2	SPL
ESE-2	12/17/98	178.23	10.20	168.03	12000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	13000/17000*		---	SPL
ESE-2	3/19/99	178.23	9.02	169.21	18000	160	ND<1.0	ND<1.0	ND<1.0	18000		---	SPL
ESE-2	6/23/99	178.23	9.99	168.24	280	ND<1.0	ND<1.0	ND<1.0	ND<1.0	16000		---	SPL
ESE-2	9/27/99	178.23	10.69	167.54	ND<500	ND<25	ND<25	ND<25	ND<25	12000		---	SPL
ESE-2	12/9/99	178.23	11.26	166.97	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.6	12000		---	PACE
ESE-2	3/9/00	178.23	7.95	170.28	ND<50	1.6	ND<0.5	ND<0.5	ND<0.5	7900		---	PACE
ESE-2	6/8/00	178.23	9.66	168.57	1600	ND<0.5	0.73	ND<0.5	2.2	9400		---	PACE
ESE-2 (k)	9/18/00	178.23	---	---	---	---	---	---	---	---		---	---
ESE-2	12/14/00	178.23	11.15	167.08	6000	0.75	ND<0.5	ND<0.5	ND<0.5	11200		---	PACE

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ESE-2	3/21/01	178.23	10.35	167.88	6900	786	45.7	37.7	71.5	3790	---	PACE
ESE-2	6/18/01	178.23	11.24	166.99	6400	ND<2.5	ND<2.5	ND<2.5	ND<7.5	9320	---	PACE
ESE-2	9/18/01	178.23	11.35	166.88	4800	ND<12.5	ND<12.5	ND<12.5	ND<37.5	6960	---	PACE
ESE-2	12/13/01	178.23	10.97	167.26	59000	0.592	ND<0.5	ND<0.5	ND<1.0	5940	---	PACE
ESE-2	3/14/02	178.23	10.13	168.10	4500	76	ND<0.5	ND<0.5	ND<1.0	6660	---	PACE
ESE-2	6/19/02	178.23	10.91	167.32	250	ND<12.5	ND<12.5	ND<12.5	ND<25	4900	---	PACE
ESE-2	9/10/02*	178.23	10.82	167.41	1500	ND<5.0	ND<5.0	ND<5.0	6.3	3100	---	SEQ
ESE-2	12/16/02	178.23	7.87	170.36	1400	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2400	---	SEQ

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ESE-3	10/5/92	178.20	10.58	167.62	430	57	31	3.6	34	---	(l)	---	PACE
ESE-3	4/1/93	178.20	8.14	170.06	2400	460	220	74	210	---	(l)	---	PACE
ESE-3	6/29/93	178.20	9.72	168.48	280	56	14	15	13	---	(l)	---	PACE
ESE-3	9/23/93	178.20	10.46	167.74	72	13	3.5	1.7	4.1	---	(l)	---	PACE
ESE-3	12/10/93	178.20	9.30	168.90	270	71	32	6.1	33	---	(l)	2.7	PACE
ESE-3	2/17/94	178.20	8.97	169.23	520	140	10	20	33	5.74	(l)	---	PACE
ESE-3	8/8/94	178.20	10.02	168.18	ND<50	8.8	1.6	1.6	2.3	ND<5.0	(l)	6.2	PACE
ESE-3	10/12/94	178.20	10.32	167.88	470	190	6.4	15	18	ND<5.0	(l)	3.5	PACE
ESE-3	1/19/95	178.20	7.40	170.80	330	260	27	21	20	---	---	6.7	ATI
ESE-3	5/2/95	178.20	8.26	169.94	530	180	30	23	44	---	---	8.6	ATI
ESE-3	7/28/95	178.20	9.54	168.66	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	8.8	ATI
ESE-3	11/17/95	178.20	10.04	168.16	ND<50	1.7	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	7.3	ATI
ESE-3	2/7/96	178.20	7.08	171.12	ND<50	8.6	ND<1	ND<1	ND<1	ND<10	---	3.9	SPL
ESE-3	4/23/96	178.20	8.79	169.41	ND<50	7.6	ND<1	ND<1	ND<1	65	---	6.9	SPL
ESE-3	7/9/96	178.20	10.09	168.11	ND<50	12	2.6	2	3.9	26	---	3.4	SPL
ESE-3	10/10/96	178.20	10.48	167.72	---	---	---	---	---	---	---	---	---
ESE-3	10/11/96	178.20	---	---	260	140	ND<1.0	ND<1.0	2.6	ND<10	---	7.2	SPL
ESE-3	1/20/97	178.20	8.65	169.55	ND<50	1.5	1.7	ND<1.0	ND<1.0	14	---	5.7	SPL
ESE-3	4/25/97	178.20	10.02	168.18	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	14	---	5.4	SPL
ESE-3	7/18/97	178.20	10.66	167.54	10000	1400	1400	300	1280	ND<250	---	5.2	SPL
ESE-3	10/27/97	178.20	9.83	168.37	ND<250	ND<2.5	ND<5.0	ND<5.0	36	ND<50	---	5.0	SPL
ESE-3	1/22/98	178.20	7.06	171.14	130	ND<0.5	ND<1.0	ND<1.0	ND<1.0	120	---	4.3	SPL
ESE-3	4/23/98	178.20	8.44	169.76	4800	560	ND<10	15	ND<10	4000	---	3.9	SPL
ESE-3	7/29/98	178.20	9.27	168.93	---	---	---	---	---	---	---	---	---
ESE-3	7/30/98	---	---	---	1800	6.2	ND<5.0	ND<5.0	ND<5.0	1700	---	4.1	SPL
ESE-3	12/17/98	178.20	9.15	169.05	600	54	ND<1.0	2.1	4.9	340/480*	---	---	SPL
ESE-3	3/19/99	178.20	8.14	170.06	2000	260	4.4	13	28	870	---	---	SPL
ESE-3	6/23/99	178.20	9.44	168.76	290	91	ND<1.0	8.3	16	240	---	---	SPL
ESE-3	9/27/99	178.20	9.69	168.51	130	35	ND<1.0	2.7	3.8	100	---	---	SPL
ESE-3	12/9/99	178.20	10.99	167.21	380	84	1.7	8.7	6.3	160	---	---	PACE
ESE-3	3/9/00	178.20	7.12	171.08	950	190	4.6	39	62	350	---	---	PACE
ESE-3	6/8/00	178.20	10.92	167.28	300	37	ND<0.5	2.3	1.3	400	---	---	PACE
ESE-3	9/18/00	178.20	11.12	167.08	920	140	1.3	15	4.8	170	---	---	PACE
ESE-3	12/14/00	178.20	9.70	168.50	320	64	ND<0.5	6.24	1.76	201	---	---	PACE
ESE-3	3/21/01	178.20	10.07	168.13	680	80.5	0.546	21.1	18.2	398	---	---	PACE
ESE-3	6/18/01	178.20	11.42	166.78	380	47	ND<0.5	3.11	ND<1.5	242	---	---	PACE
ESE-3	9/18/01	178.20	11.55	166.65	340	54.8	ND<0.5	4.36	ND<1.5	79.7	---	---	PACE

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11105
3519 Castro Valley Blvd, Castro Valley, CA

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB
ESE-3	12/13/01	178.20	10.12	168.08	270	31.4	ND<0.5	1.31	2.24	129	---	PACE
ESE-3	3/14/02	178.20	9.84	168.36	670	89.8	0.769	23.4	30.4	413	---	PACE
ESE-3	6/19/02	178.20	10.57	167.63	130	18.6	ND<0.5	ND<0.5	ND<1.0	166	---	PACE
ESE-3	9/10/02*	178.20	9.90	168.30	88	12	ND<0.5	ND<0.5	ND<0.5	93	---	SEQ
ESE-3	12/16/02	178.20	9.23	168.97	290	55	17	3.7	14	78	---	SEQ

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11105
3519 Castro Valley Blvd, Castro Valley, CA

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB	
ESE-4	10/5/92	177.73	10.33	167.40	98	7.2	1.3	1.1	6.1	---	(l)	---	PACE
ESE-4	4/1/93	177.73	7.88	169.85	550	93	20	23	33	---	(l)	---	PACE
ESE-4	6/29/93	177.66	(f) 8.33	169.33	150	23	0.6	5.4	0.5	54	(e)(l)	---	PACE
ESE-4	9/23/93	177.66	10.05	167.61	110	14	1.7	3.2	4.6	---	(l)	---	PACE
ESE-4	12/10/93	177.66	8.95	168.71	110	21	7.2	4.2	10	28.75	(l)	2.8	PACE
ESE-4	2/17/94	177.66	8.65	169.01	210	26	1.2	4.7	11	---	(e)(l)	---	PACE
ESE-4	8/8/94	177.66	9.76	167.90	76	9.6	ND<0.5	2	ND<0.5	62	(e)	7.0	PACE
ESE-4	10/12/94	177.66	9.62	168.04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	44	(e)	3.2	PACE
ESE-4	1/19/95	177.66	6.97	170.69	140	56	14	24	23	---	---	6.9	ATI
ESE-4	5/2/95	177.66	7.85	169.81	130	21	2.8	8.6	8.2	---	---	9.1	ATI
ESE-4	7/28/95	177.66	9.20	168.46	ND<50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	---	---	8.1	ATI
ESE-4	11/17/95	177.66	9.68	167.98	ND<50	ND<0.5	0.6	ND<0.50	ND<1.0	18	---	5.7	ATI
ESE-4	2/7/96	177.66	6.59	171.07	100	2.6	ND<1	1.6	4.1	42	---	2.0	SPL
ESE-4	4/23/96	177.66	8.30	169.36	160	37	15	16	31	43	---	5.4	SPL
ESE-4	7/9/96	177.66	9.21	168.45	60	17	1.5	6.8	11.6	27	---	3.9	SPL
ESE-4	10/10/96	177.66	9.97	167.69	---	---	---	---	---	---	---	---	---
ESE-4	10/11/96	177.66	---	---	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	18	---	5.5	SPL
ESE-4	1/20/97	177.66	7.68	169.98	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	130	---	4.9	SPL
ESE-4	4/25/97	177.66	9.15	168.51	ND<250	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	---	4.3	SPL
ESE-4	7/18/97	177.66	9.71	167.95	ND<50	15	ND<10	ND<10	ND<10	ND<100	---	4.5	SPL
ESE-4	10/27/97	177.66	9.38	168.28	ND<250	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	---	4.9	SPL
ESE-4	1/22/97	177.66	6.59	171.07	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.3	SPL
ESE-4	4/23/98	177.66	7.90	169.76	ND<250	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	---	4.0	SPL
ESE-4	7/29/98	177.66	8.96	168.70	---	---	---	---	---	---	---	---	---
ESE-4	7/30/98	---	---	---	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.2	SPL
ESE-4	12/17/98	177.66	8.32	169.34	---	---	---	---	---	---	---	---	---
ESE-4	3/19/99	177.66	7.71	169.95	---	---	---	---	---	---	---	---	---
ESE-4	6/23/99	177.66	8.78	168.88	---	---	---	---	---	---	---	---	---
ESE-4	9/27/99	177.66	9.27	168.39	---	---	---	---	---	---	---	---	---
ESE-4	12/9/99	177.66	9.21	168.45	---	---	---	---	---	---	---	---	---
ESE-4	3/9/00	177.66	6.82	170.84	---	---	---	---	---	---	---	---	---
ESE-4	6/8/00	177.66	8.72	168.94	---	---	---	---	---	---	---	---	---
ESE-4	9/18/00	177.66	9.02	168.64	---	---	---	---	---	---	---	---	---
ESE-4	12/14/00	177.66	8.61	169.05	---	---	---	---	---	---	---	---	---
ESE-4	3/21/01	177.66	8.61	169.05	---	---	---	---	---	---	---	---	---
ESE-4	6/18/01	177.66	9.24	168.42	---	---	---	---	---	---	---	---	---
ESE-4	9/18/01	177.66	9.35	168.31	---	---	---	---	---	---	---	---	---

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11105
3519 Castro Valley Blvd, Castro Valley, CA

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB
ESE-4	12/13/01	177.66	8.53	169.13	---	---	---	---	---	---	---	---
ESE-4	3/14/02	177.66	8.44	169.22	---	---	---	---	---	---	---	---
ESE-4	6/19/02	177.66	10.97	166.69	---	---	---	---	---	---	---	---
ESE-4	9/10/02*	177.66	9.27	168.39	---	---	---	---	---	---	---	---
ESE-4	12/16/02	177.66	6.90	170.76	---	---	---	---	---	---	---	---

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3519 Castro Valley Blvd, Castro Valley, CA

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB	
ESE-5	10/5/92	176.08	9.22	166.86	1300	200	3.8	1.2	18	---	(l)	---	PACE
ESE-5	4/1/93	176.08	7.02	169.06	13000	2200	26	730	1000	---	(l)	---	PACE
QC-1 (d)	4/1/93	---	---	---	13000	2500	25	740	1100	---	(l)	---	PACE
ESE-5	6/29/93	176.08	10.21	165.87	7600	1500	9.3	170	100	---	(l)	---	PACE
ESE-5	9/23/93	176.08	10.64	165.44	560	19	1.2	0.9	1.8	---	(l)	---	PACE
ESE-5	12/10/93	176.08	9.42	166.66	1700	300	3	76	110	14.07	(l)	2.5	PACE
ESE-5	2/7/94	176.08	9.35	166.73	3500	640	7.8	90	130	45.13	(l)	---	PACE
ESE-5	8/8/94	176.08	8.76	167.32	2600	210	4.6	9.4	4.4	33	(e)	5.8	PACE
QC-1 (d)	8/8/94	---	---	---	2500	230	4.6	13	4.8	32	(e)	---	PACE
ESE-5	10/12/94	176.08	8.95	167.13	5600	560	9.5	75	21	79.2	(l)	3.6	PACE
QC-1 (d)	10/12/94	---	---	---	6000	550	10	78	22	77	(e)	---	PACE
ESE-5	1/19/95	176.08	5.40	170.68	1900	620	ND<5	95	15	---	---	7.6	ATI
QC-1 (d)	1/19/95	---	---	---	1600	620	ND<5	93	17	---	---	---	ATI
ESE-5	5/2/95	176.08	6.48	169.60	5700	1100	ND<10	180	58	---	---	8.2	ATI
QC-1 (d)	5/2/95	---	---	---	5300	1100	ND<10	180	58	---	---	---	ATI
ESE-5	7/28/95	176.08	7.97	168.11	520	15	ND<0.50	1.7	1.3	---	---	8.2	ATI
QC-1 (d)	7/28/95	---	---	---	460	7.2	ND<0.50	1.9	1.5	---	---	---	ATI
ESE-5	11/17/95	176.08	8.39	167.69	850	39	1.8	7.6	2.7	24	---	6.3	ATI
ESE-5	2/7/96	176.08	4.71	171.37	4100	670	6	190	140	ND<50	---	1.5	SPL
ESE-5	4/23/96	176.08	7.35	168.73	3000	570	ND<5	79	100	84	---	6.5	SPL
ESE-5	7/9/96	176.08	9.40	166.68	620	150	1.7	9.3	6.4	25	---	3.7	SPL
ESE-5	10/10/96	176.08	9.04	167.04	1100	29	ND<5.0	ND<5.0	ND<5.0	ND<50	---	6.3	SPL
QC-1 (d)	10/10/96	---	---	---	1100	31	ND<5.0	ND<5.0	ND<5.0	ND<50	---	---	SPL
ESE-5	1/20/97	176.08	5.82	170.26	2100	980	ND<25	280	80	ND<250	---	5.4	SPL
QC-1 (d)	1/20/97	---	---	---	2700	910	8.8	280	84	180	---	---	SPL
ESE-5	4/25/97	176.08	7.24	168.84	---	---	---	---	---	---	---	---	---
ESE-5	4/28/97	176.08	---	---	ND<250	7.9	ND<5.0	ND<5.0	ND<5.0	ND<50	---	4.9	SPL
ESE-5	7/18/97	176.08	7.86	168.22	1200	ND<5	ND<10	ND<10	ND<10	ND<100	---	5.0	SPL
QC-1 (d)	7/18/97	---	---	---	630	31	ND<5.0	ND<5.0	ND<5.0	130	---	---	SPL
ESE-5	10/27/97	176.08	7.91	168.17	ND<250	5.4	ND<5.0	ND<5.0	ND<5.0	ND<50	---	5.2	SPL
ESE-5	1/22/98	176.08	4.64	171.44	170	7.7	ND<1.0	ND<1.0	ND<1.0	130	---	4.6	SPL
ESE-5	4/23/98	176.08	6.31	169.77	720	79	ND<5.0	9.0	ND<5.0	180	---	4.6	SPL
ESE-5	7/29/98	176.08	7.43	168.65	---	---	---	---	---	---	---	---	---
ESE-5	7/30/98	---	---	---	840	9.8	ND<1.0	4.0	ND<1.0	710	---	4.3	SPL
ESE-5	12/17/98	176.08	7.05	169.03	---	---	---	---	---	---	---	---	---
ESE-5	3/19/99	176.08	5.00	171.08	ND<250	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	---	---	SPL
ESE-5	6/23/99	176.08	7.77	168.31	---	---	---	---	---	---	---	---	SPL

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11105
3519 Castro Valley Blvd, Castro Valley, CA

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB
ESE-5	9/27/99	176.08	8.11	167.97	450	10	ND<5.0	6.3	ND<5.0	220	---	SPL
ESE-5	12/9/99	176.08	7.66	168.42	---	---	---	---	---	---	---	---
ESE-5	3/9/00	176.08	5.08	171.00	1700	170	2.5	45	6.4	140	---	PACE
ESE-5	6/8/00	176.08	7.36	168.72	---	---	---	---	---	---	---	---
ESE-5	9/18/00	176.08	7.71	168.37	130	0.65	ND<0.5	0.71	ND<0.5	51	---	PACE
ESE-5	12/14/00	176.08	2.36	173.72	---	---	---	---	---	---	---	---
ESE-5	3/21/01	176.08	7.42	168.66	1000	10.3	ND<2.5	11	ND<7.5	70.8	---	PACE
ESE-5	6/18/01	176.08	7.92	168.16	---	---	---	---	---	---	---	---
ESE-5	9/18/01	176.08	8.05	168.03	200	0.868	ND<0.5	0.55	ND<1.5	57.5	---	PACE
ESE-5	12/13/01	176.26	(m) 7.80	168.46	---	---	---	---	---	---	---	---
ESE-5	3/14/02	176.26	6.55	169.71	1300	17.1	1.35	15.4	1.42	37.4	---	PACE
ESE-5	6/19/02	176.26	7.83	168.43	---	---	---	---	---	---	---	---
ESE-5	9/10/02*	176.26	8.22	168.04	680	9.9	ND<5.0	ND<5.0	ND<5.0	44	---	SEQ
ESE-5	12/16/02	176.26	6.58	169.68	---	---	---	---	---	---	---	---

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11105
3519 Castro Valley Blvd, Castro Valley, CA

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB
MW-6	7/28/95	179.24	10.00	169.24	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	8.1	ATI
MW-6	11/17/95	179.24	10.44	168.80	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	6.8	ATI
MW-6	2/7/96	179.24	7.68	171.56	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	2.4	SPL
MW-6	4/23/96	179.24	9.33	169.91	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	6.6	SPL
MW-6	7/9/96	179.24	10.10	169.14	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	2.7	SPL
MW-6	10/10/96	179.24	11.00	168.24	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	6.9	SPL
MW-6	1/20/97	179.24	8.70	170.54	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.5	SPL
MW-6	4/25/97	179.24	10.16	169.08	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.1	SPL
MW-6	7/18/97	179.24	10.66	168.58	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.8	SPL
MW-6	10/27/97	179.24	10.25	168.99	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.8	SPL
MW-6	1/22/98	179.24	7.76	171.48	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.0	SPL
MW-6	4/23/98	179.24	9.10	170.14	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.2	SPL
MW-6	7/29/98	179.24	10.40	168.84	---	---	---	---	---	---	---	---
MW-6	7/30/98	---	---	---	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	3.8	SPL
MW-6	12/17/98	179.24	9.40	169.84	---	---	---	---	---	---	---	---
MW-6	3/19/99	179.24	9.10	170.14	---	---	---	---	---	---	---	---
MW-6	6/23/99	179.24	9.79	169.45	---	---	---	---	---	---	---	---
MW-6	9/27/99	179.24	10.10	169.14	---	---	---	---	---	---	---	---
MW-6	12/9/99	179.24	9.97	169.27	---	---	---	---	---	---	---	---
MW-6	3/9/00	179.24	8.56	170.68	---	---	---	---	---	---	---	---
MW-6	6/8/00	179.24	9.11	170.13	---	---	---	---	---	---	---	---
MW-6	9/18/00	179.24	9.77	169.47	---	---	---	---	---	---	---	---
MW-6	12/14/00	179.24	9.17	170.07	---	---	---	---	---	---	---	---
MW-6	3/21/01	179.24	9.82	169.42	---	---	---	---	---	---	---	---
MW-6	6/18/01	179.24	10.19	169.05	---	---	---	---	---	---	---	---
MW-6	9/18/01	179.24	10.25	168.99	---	---	---	---	---	---	---	---
MW-6	12/13/01	179.24	9.75	169.49	---	---	---	---	---	---	---	---
MW-6	3/14/02	179.24	9.53	169.71	---	---	---	---	---	---	---	---
MW-6	6/19/02	179.24	9.87	169.37	---	---	---	---	---	---	---	---
MW-6	9/10/02*	179.24	9.49	169.75	---	---	---	---	---	---	---	---
MW-6	12/16/02	179.24	8.39	170.85	---	---	---	---	---	---	---	---

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11105
3519 Castro Valley Blvd, Castro Valley, CA

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB
MW-7	7/28/95	176.55	9.25	167.30	ND<50	0.54 (g)	0.54	ND<0.50	ND<1.0	---	7.1	ATI
MW-7	11/17/95	176.55	9.73	166.82	1100	ND<10	ND<10	ND<10	ND<20	4000	6.3	ATI
MW-7	2/7/96	176.55	6.48	170.07	610	ND<0.5	ND<1	ND<1	ND<1	2500	4.1	SPL
QC-1 (d)	2/7/96	---	---	---	280	ND<0.5	ND<1	ND<1	ND<1	2600	---	SPL
MW-7	4/23/96	176.55	8.37	168.18	110	ND<0.5	ND<1	ND<1	ND<1	3500	6.4	SPL
QC-1 (d)	4/23/96	---	---	---	230	ND<0.5	ND<1	ND<1	ND<1	3500	---	SPL
MW-7	7/9/96	176.55	9.24	167.31	230	ND<0.5	ND<1	ND<1	ND<1	4296	3.1	SPL
QC-1 (d)	7/9/96	---	---	---	220	ND<0.5	ND<1	ND<1	ND<1	4400	---	SPL
MW-7	10/10/96	176.55	10.05	166.50	---	---	---	---	---	---	---	---
MW-7	10/11/96	176.55	---	---	1600	ND<0.5	ND<1.0	ND<1.0	ND<1.0	3000	6.9	SPL
MW-7	1/20/97	176.55	7.51	169.04	ND<50	0.63	1	ND<1.0	ND<1.0	2600	5.7	SPL
MW-7	4/25/97	176.55	8.79	167.76	---	---	---	---	---	---	---	---
MW-7	4/28/97	176.55	---	---	1500	ND<0.5	ND<1.0	ND<1.0	ND<1.0	3600	5.1	SPL
QC-1 (d)	4/28/97	---	---	---	7700	3500	ND<25	74	37	ND<250	---	SPL
MW-7	7/18/97	176.55	9.50	167.05	1400	ND<0.5	ND<1.0	ND<1.0	ND<1.0	2600	5.2	SPL
MW-7	10/27/97	176.55	9.19	167.36	420	ND<0.5	ND<1.0	ND<1.0	ND<1.0	560	4.9	SPL
MW-7	1/22/98	176.55	6.45	170.10	3100	ND<0.5	ND<1.0	ND<1.0	1.4	2300	4.2	SPL
MW-7	4/23/98	176.55	8.02	168.53	3800	ND<0.5	ND<1.0	ND<1.0	ND<1.0	3800	3.9	SPL
MW-7	7/29/98	176.55	8.88	167.67	---	---	---	---	---	---	---	---
MW-7	7/30/98	---	---	---	500	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	4.1	SPL
QC-1 (d)	7/30/98	---	---	---	4700	ND<12	ND<25	ND<25	ND<25	4700	---	SPL
MW-7	12/17/98	176.55	8.62	167.93	---	---	---	---	---	---	---	---
MW-7	3/19/99	176.55	7.52	169.03	3800	ND<1.0	ND<1.0	ND<1.0	ND<1.0	3800	---	SPL
MW-7	6/23/99	176.55	9.63	166.92	---	---	---	---	---	---	---	---
MW-7	9/27/99	176.55	9.39	167.16	140	ND<10	ND<10	ND<10	ND<10	3800	---	SPL
MW-7	12/9/99	176.55	9.94	166.61	---	---	---	---	---	---	---	---
MW-7	3/9/00	176.55	6.72	169.83	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1400	---	PACE
MW-7	6/8/00	176.55	7.38	169.17	---	---	---	---	---	---	---	---
MW-7	9/18/00	176.55	9.18	167.37	190	ND<0.5	ND<0.5	ND<0.5	ND<0.5	580	---	PACE
MW-7	12/14/00	176.55	8.13	168.42	---	---	---	---	---	---	---	---
MW-7	3/21/01	176.55	8.98	167.57	1300	ND<0.5	ND<0.5	ND<0.5	ND<1.5	1460	---	PACE
MW-7	6/18/01	176.55	9.68	166.87	---	---	---	---	---	---	---	---
MW-7	9/18/01	176.55	9.80	166.75	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.5	94.9	---	PACE
MW-7	12/13/01	176.55	9.26	167.29	---	---	---	---	---	---	---	---
MW-7	3/14/02	176.55	8.69	167.86	800	ND<0.5	ND<0.5	ND<0.5	ND<1.0	952	---	PACE
MW-7	6/19/02	176.55	9.06	167.49	---	---	---	---	---	---	---	---
MW-7	9/10/02*	176.55	9.23	167.32	260	ND<2.0	ND<2.0	ND<2.0	ND<2.0	580	---	SEQ

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11105
3519 Castro Valley Blvd, Castro Valley, CA

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB
MW-7	12/16/02	176.55	7.77	168.78	--	--	--	--	--	--	--	--

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11105
3519 Castro Valley Blvd, Castro Valley, CA

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB
MW-8	7/28/95	176.34	7.80	168.54	1100	ND<2.5	ND<2.5	ND<2.5	ND<5.0	---	7.2	ATI
MW-8	11/17/95	176.34	8.29	168.05	8300	75	5.3	670	240	140	7.0	ATI
MW-8	2/7/96	176.34	4.99	171.35	2300	33	ND<10	190	216	ND<100	1.7	SPL
MW-8	4/23/96	176.34	6.09	170.25	2000	390	ND<20	150	26	ND<250	5.1	SPL
MW-8 (h)	7/9/96	---	---	---	---	---	---	---	---	---	---	---

Table 1
Groundwater Elevation and Analytical Data
 Former BP Service Station #11105
 3519 Castro Valley Blvd, Castro Valley, CA

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DO (ppm)	LAB
QC-2	(i) 4/1/93	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(l) ---	PACE
QC-2	(i) 6/29/93	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(l) ---	PACE
QC-2	(i) 9/23/93	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(l) ---	PACE
QC-2	(i) 12/10/93	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l) ---	PACE
QC-2	(i) 2/17/94	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2	(i) 8/8/94	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2	(i) 10/12/94	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2	(i) 1/19/95	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	ATI
QC-2	(i) 5/2/95	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	ATI
QC-2	(i) 7/28/95	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	ATI
QC-2	(i) 11/17/95	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	ATI
QC-2	(i) 2/7/96	---	---	---	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	SPL
QC-2	(i) 4/23/96	---	---	---	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	SPL
QC-2	(i) 7/9/96	---	---	---	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 #11105
3519 Castro Valley Blvd, Castro Valley, CA

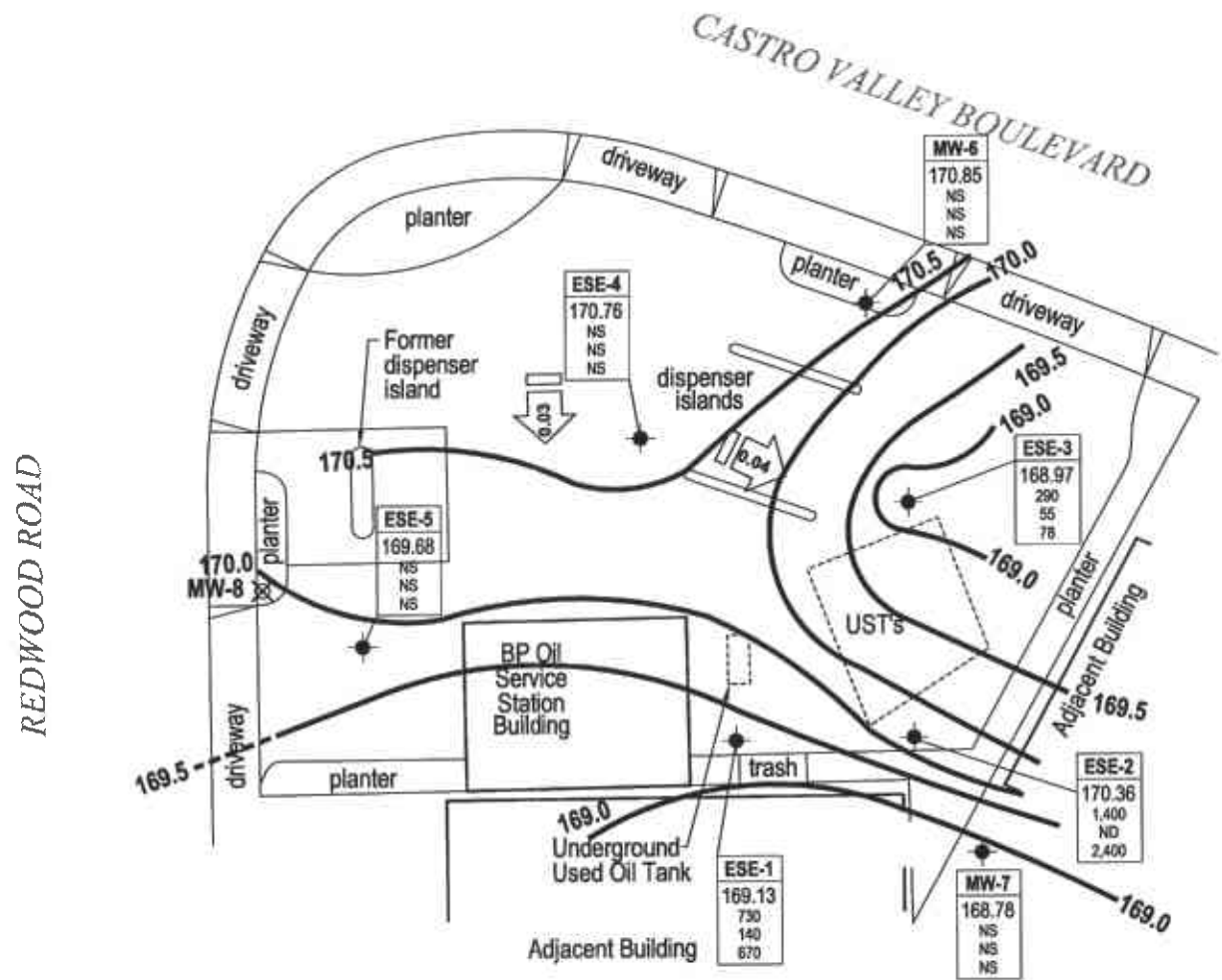
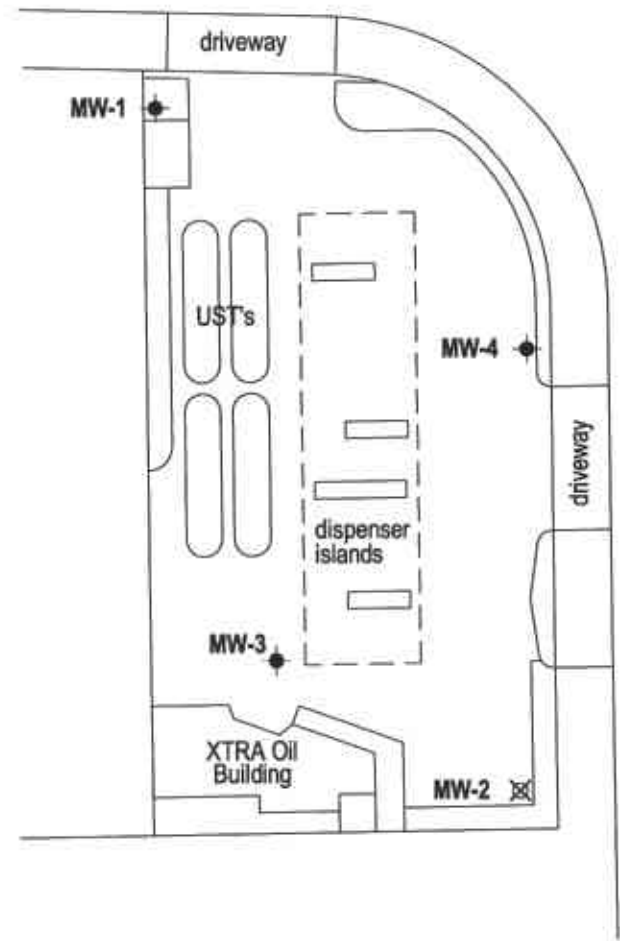
ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
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 applicable/available/measured/analyzed
PACE	Pace, Inc.
ATI	Analytical Technologies, Inc.
SPL	Southern Petroleum Laboratories
SEQ	Sequoia Analytical

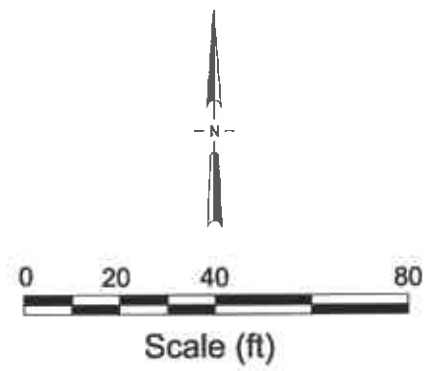
Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11105
3519 Castro Valley Blvd, Castro Valley, CA

NOTES:

- (a) Top of casing elevations surveyed relative to mean sea level.
- (b) Groundwater elevations in feet relative to mean sea level.
- (c) Additional analysis of the sample collected from ESE-1 on 10/5/92 detected 96 ug/L total petroleum hydrocarbons as diesel and 1.8 ug/L 1,2-dichloroethane.
- (d) Blind duplicate.
- (e) A copy of the documentation for this data is included in Appendix C of Alisto report 10-138-09-004.
- (f) Top of casing lowered by 0.07 foot after the monitoring event on 4/01/93.
- (g) Sample result may be falsely elevated due to matrix interference.
- (h) Well destroyed.
- (i) Travel blank.
- (j) Gasoline does not include MTBE.
- (k) Well Inaccessible.
- (l) A copy of the documentation for this data can be found in Blaine Tech Services report 010618-J-1. MTBE data for the September 28, 1992, September 29, 1992, October 5, 1992, and April 1, 1993 sampling events have been destroyed. No chromatograms could be located for MTBE data from wells sampled on June 29, 1993; wells ESE-1, ESE-3, ESE-4, ESE-5, and the Trip Blank, sampled on September 23, 1993; and wells ESE-1, ESE-2, and ESE-3, sampled on December 10, 1993.
- (m) Top of casing altered due to wellhead maintenance.
- (*) MTBE by EPA 8020/8260.
- * During the second quarter of 2002, URS Corporation assumed groundwater monitoring activities for BP.



EXPLANATION	
MW-2	Abandoned monitoring well location
MW-1	Monitoring well location
Well ID	Well Designation
ELEV	Groundwater Elevation (ft above MSL)
TPHg	Concentration of TPH-g, Benzene and MTBE in groundwater in micrograms per liter (µg/L)
Benzene	
MTBE	
NA	Not Available
NS	Not Sampled
169.0	Groundwater elevation contour
0.03	Approximate groundwater flow direction and gradient (ft/MSL)



ATTACHMENT A
CONCENTRATION AND WATER LEVEL TRENDS

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 # 021216-RH1

Date 12/16/02

Client BP 11105

Site 3919 Castro Valley Blvd., Castro Valley

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 FOC	
ESE-1	2					8.56	29.23		
ESE-2	2					7.87	27.04		
ESE-3	2					9.23	29.70		
ESE-4	2					6.90	22.55		6
ESE-5	2					6.58	23.71		6
MW-6	2					8.39	29.39		6
MW-7	2					7.77	28.77		6

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 021216-RH1	Station # 11105
Sampler: Ryan H	Date: 12/16/02
Well I.D.: ESE-1	Well Diameter: (2) 3 4 6 8
Total Well Depth: 29.23	Depth to Water: 8.56
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.

3.3	X	3	=	9.9	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
916	66.7	6.8	931	3.3	blackish
920	66.7	6.7	959	6.6	cloudy
924	66.9	6.7	980	9.9	"

Did well dewater? Yes No	Gallons actually evacuated: 9.9
Sampling Time: 929	Sampling Date: 12/16/02
Sample I.D.: ESE-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 #: <u>021216-RH1</u>	Station # <u>11105</u>
Sampler: <u>Ryan H</u>	Date: <u>12/16/02</u>
Well I.D.: <u>ESE-2</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>27.04</u>	Depth to Water: <u>7.87</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(VC)</u> Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: <u>Bailer</u> Disposable Bailer <u>Middleburg</u> Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____
--	---

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

<u>3.0</u>	x	<u>3</u>	=	<u>9.0</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
945	65.1	6.9	959	3.0	clear
949	65.5	6.8	953	6.0	"
953	65.9	6.8	952	9.0	"

Did well dewater? Yes No Gallons actually evacuated: 9.0

Sampling Time: 958 Sampling Date: 12/16/02

Sample I.D.: ESE-2 Laboratory: Pace Sequidia 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 #: <u>021216-RH1</u>	Station # <u>11105</u>
Sampler: <u>Ryan H</u>	Date: <u>12/16/02</u>
Well I.D.: <u>ESE-3</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>29.70</u>	Depth to Water: <u>9.23</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: <u>Bailer</u>	Sampling Method: <u>Bailer</u>
<u>Disposable Bailer</u>	Disposable Bailer
<u>Middleburg</u>	Extraction Port
Electric Submersible	Other: _____
Extraction Pump	
Other: _____	

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

<u>3.25</u>	X	<u>3</u>	=	<u>9.75</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>847</u>	<u>66.6</u>	<u>6.0</u>	<u>962</u>	<u>3.25</u>	<u>clear</u>
<u>851</u>	<u>67.5</u>	<u>6.6</u>	<u>934</u>	<u>6.5</u>	<u>"</u>
<u>855</u>	<u>67.9</u>	<u>6.8</u>	<u>925</u>	<u>9.75</u>	<u>"</u>

Did well dewater? Yes <u>No</u>	Gallons actually evacuated: <u>9.75</u>
Sampling Time: <u>900</u>	Sampling Date: <u>12/16/02</u>
Sample I.D.: <u>ESE-3</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u> Other:	
D.O. (if req'd): Pre-purge:	mg/L
O.R.P. (if req'd): Pre-purge:	mV
	Post-purge: mg/L
	Post-purge: mV



Chain of Custody Record

Project Name _____
 BP BU/GEM CO Portfolio: _____
 BP Laboratory Contract Number: _____
 Date: 12/16/02 Requested Due Date (mm/dd/yy) _____

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: 3519 Castro Valley Blvd, Castro Valley, CA	Address: 500 12th St., Ste. 200
Lab Address: 885 Jarvis Dr. Morgan Hill, CA 95037	Site ID No. 11105	Oakland, CA 94609-4014
	Site Lat/Long:	e-mail EDD: syed_rehan@urscorp.com
	California Global ID #: T0600100920	Consultant/Contractor Project No.:
Lab PM: Latonya Pelt	BP/GEM PM Contact: Scott Hooton	Consultant Tele/Fax: 510-874-3101 / 510-874-3268
Tele/Fax: 408-776-9600 / 408-782-8308	Address:	Consultant/Contractor PM: Robert Horwath
Report Type & QC Level: Send EDF Reports		Invoice to: Consultant/Contractor or <u>BP/GEM</u> (circle one)
BP/GEM Account No.: 400-6-21124	Tele/Fax:	BP/GEM Work Release No:

Lab Bottle Order No.	Matrix	Item No.	Sample Description	Time	Laboratory No.	No. of containers	Preservatives				Requested Analysis					Sample Point Lat/Long and Comments	
							Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TPH-G / BTEX (8015 / 8021)	TPH -D (8015)	MTBE (8021)	MTBE, TAME, ETBE, DIPE, TBA (8260)	1,2-DCA & EDB (8260)		
	Soil/Solid	1	ESE-1	929		3			X			X	X				
	Water/Liquid	2	ESE-2	958		3			X			X	X				
	Sediments	3	ESE-3	906		3			X			X	X				
	Air	4															
		5															
		6															
		7															
		8															
		9															
		10															

Sampler's Name: <u>Ryan Hanstedt</u>	Relinquished By / Affiliation: <u>[Signature] / BTS</u>	Date:	Time:	Accepted By / Affiliation:	Date:	Time:
Sampler's Company: <u>Blaine Tech</u>						
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

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

WELLHEAD INSPECTION CHECKLIST

Client BP Date 12/16/02

Site Address 3519 Castro Valley Blvd, Castro Valley

Job Number 021216-RH1 Technician Ryan Hanstedt

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
ESE-1	X							
ESE-2	X							
ESE-3		X						
ESE-4		X						X
ESE-5								X
MW-6		X						X
MW-7								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:

Station # <u>11105</u>		
Station Address <u>3519 Castro Valley Blvd, Castro Valley</u>		
Total Gallons Collected From Groundwater Monitoring Wells: <u>19</u>		
added equip. rinse water	<u>2</u>	any other adjustments _____
TOTAL GALS. RECOVERED	<u>21</u>	loaded onto BTS vehicle # <u>15</u>
BTS event #	<u>021216-RH1</u>	time <u>1015</u> date <u>12/16/02</u>
signature	<u>[Signature]</u>	

REC'D AT	time	date
unloaded by		<u>1/1</u>
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.



7 January, 2003

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

RE: BP Heritage Site #11105, Castro Valley, CA
Sequoia Work Order: MLL0682

Enclosed are the results of analyses for samples received by the laboratory on 12/17/02 17:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt
Project Manager
CA ELAP Certificate #1210



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

Project: BP Heritage Site #11105, Castro Valley, CA
Project Number: BP Heritage Site #11105, Castro Valley, C.
Project Manager: Robert Horwath

MLL0682
Reported:
01/07/03 13:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ESE-1	MLL0682-01	Water	12/16/02 09:29	12/17/02 17:20
ESE-2	MLL0682-02	Water	12/16/02 09:58	12/17/02 17:20
ESE-3	MLL0682-03	Water	12/16/02 09:00	12/17/02 17:20

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

URS Corporation
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 Oakland CA, 94607

 Project: BP Heritage Site #11105, Castro Valley, CA
 Project Number: BP Heritage Site #11105, Castro Valley, C.
 Project Manager: Robert Horwath

 MLL0682
Reported:
 01/07/03 13:05

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ESE-1 (MLL0682-01) Water Sampled: 12/16/02 09:29 Received: 12/17/02 17:20									
Gasoline Range Organics (C6-C10)	730	250	ug/l	5	2L29001	12/29/02	12/29/02	8015Bm/8021B	HC-21
Benzene	140	2.5	"	"	"	"	"	"	
Toluene	6.0	2.5	"	"	"	"	"	"	
Ethylbenzene	3.2	2.5	"	"	"	"	"	"	
Xylenes (total)	9.1	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	670	12	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		127 %	55-142		"	"	"	"	O-11
ESE-2 (MLL0682-02) Water Sampled: 12/16/02 09:58 Received: 12/17/02 17:20									
Gasoline Range Organics (C6-C10)	1400	500	ug/l	10	2L29001	12/29/02	12/29/02	8015Bm/8021B	HC-12
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	2400	25	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		115 %	55-142		"	"	"	"	O-11
ESE-3 (MLL0682-03) Water Sampled: 12/16/02 09:00 Received: 12/17/02 17:20									
Gasoline Range Organics (C6-C10)	290	50	ug/l	1	2L29001	12/29/02	12/29/02	8015Bm/8021B	HC-21
Benzene	55	0.50	"	"	"	"	"	"	
Toluene	17	0.50	"	"	"	"	"	"	
Ethylbenzene	3.7	0.50	"	"	"	"	"	"	
Xylenes (total)	14	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	78	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		120 %	55-142		"	"	"	"	O-11

URS Corporation
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 Oakland CA, 94607

 Project: BP Heritage Site #11105, Castro Valley, CA
 Project Number: BP Heritage Site #11105, Castro Valley, C.
 Project Manager: Robert Horwath

 MLL0682
 Reported:
 01/07/03 13:05

**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
 Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2L29001 - EPA 5030B [P/T]
Blank (2L29001-BLK1)

Prepared & Analyzed: 12/29/02

Gasoline Range Organics (C6-C10)	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: <i>a,a,a</i> -Trifluorotoluene	11.1		"	10.0		111	55-142			
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Laboratory Control Sample (2L29001-BS1)

Prepared & Analyzed: 12/29/02

Benzene	9.53	0.50	ug/l	10.0		95.3	68-140			
Toluene	9.47	0.50	"	10.0		94.7	76-127			
Ethylbenzene	9.90	0.50	"	10.0		99.0	77-130			
Xylenes (total)	28.9	0.50	"	30.0		96.3	78-128			

Surrogate: <i>a,a,a</i> -Trifluorotoluene	11.3		"	10.0		113	55-142			
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Laboratory Control Sample (2L29001-BS2)

Prepared & Analyzed: 12/29/02

Gasoline Range Organics (C6-C10)	248	50	ug/l	250		99.2	62-134			
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Surrogate: <i>a,a,a</i> -Trifluorotoluene	11.2		"	10.0		112	55-142			
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Matrix Spike (2L29001-MS1)

Source: MLL0680-17

Prepared & Analyzed: 12/29/02

Gasoline Range Organics (C6-C10)	430	50	ug/l	550	ND	78.2	62-134			
Benzene	7.54	0.50	"	6.80	ND	111	68-140			
Toluene	33.2	0.50	"	41.0	ND	81.0	76-127			
Ethylbenzene	8.09	0.50	"	9.80	ND	82.6	77-130			
Xylenes (total)	39.1	0.50	"	47.9	ND	81.6	78-128			

Surrogate: <i>a,a,a</i> -Trifluorotoluene	11.5		"	10.0		115	55-142			
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Matrix Spike Dup (2L29001-MSD1)

Source: MLL0680-17

Prepared & Analyzed: 12/29/02

Gasoline Range Organics (C6-C10)	487	50	ug/l	550	ND	88.5	62-134	12.4	41	
Benzene	9.10	0.50	"	6.80	ND	134	68-140	18.8	30	

Sequoia Analytical - Morgan Hill

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

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

 Project: BP Heritage Site #11105, Castro Valley, CA
 Project Number: BP Heritage Site #11105, Castro Valley, C.
 Project Manager: Robert Horwath

 MLL0682
 Reported:
 01/07/03 13:05

**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
 Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2L29001 - EPA 5030B [P/T]										
Matrix Spike Dup (2L29001-MSD1)		Source: MLL0680-17			Prepared & Analyzed: 12/29/02					
Toluene	40.1	0.50	ug/l	41.0	ND	97.8	76-127	18.8	30	
Ethylbenzene	9.87	0.50	"	9.80	ND	101	77-130	19.8	21	
Xylenes (total)	48.1	0.50	"	47.9	ND	100	78-128	20.6	21	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>11.4</i>		<i>"</i>	<i>10.0</i>		<i>114</i>	<i>55-142</i>			



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MLL0682
Reported:
01/07/03 13:05

Notes and Definitions

- HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- HC-21 Chromatogram Pattern: Gasoline C6-C10
- O-11 The continuing calibration standard was outside of the acceptance criteria. This should be considered in evaluating the result 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



Chain of Custody Record

Project Name

BR BU/GEM CO Portfolio:

BR Laboratory Contract Number:

Date: 12/16/02

Requested Due Date (m/d/yyyy)

ML0682

On-site Temp:	Temp:
Off-site Temp:	Temp:
Site Conditions:	
Metecological Events:	
Wind Speed:	
Direction:	

Send To: SEQOIA
 Lab Address: 885 Jarvis Dr.
 Morgan Hill, CA 95037
 Site ID No. 1195
 Site Location:
 BP/GEM Facility Address: 3519 Castro Valley Blvd, Castro Valley, CA
 BP/GEM Facility No.:
 California Global ID #: 1060010920
 BP/GEM PM Contact: Scott Horton
 Consultant/Contractor URS
 Address: 500 12th St, Ste. 200
 Oakland, CA 94609-4014
 e-mail BDD: syed.reham@urscorp.com
 Consultant/Contractor Project No.:
 Consultant/Contractor PM: Robert Horvath
 Consultant Tele/Fax: 510-874-3101 / 510-874-3268
 BP/GEM Account No: 400-6-21124
 Report Type & QC Level: Send EDF Reports
 Lab PM: Latonya Pett
 Tel/Fax: 408-776-9600 / 408-782-6308
 BP/GEM Account No: 400-6-21124
 Lab Bottle Order No:
 Tel/Fax:

Item No.	Sample Description	Time	Soils/Solids	Water/Liquid	Sediments	Air	Laboratory No.	No. of containers	Preservatives							Requested Analysis	Sample Point Lat/Long and Comments	
									H ₂ SO ₄	HNO ₃	HCl	Unpreserved	PH-D (8015)	MIBB (8021)	MTBE, TAME, FIBR (8260)			1,2-DCA & HDB (8260)
1	ESE-1	929	X					3		X	X	X	X	X	X	X		2019650
2	ESE-2	958	X					3		X	X	X	X	X	X	X		
3	ESE-3	900	X					3		X	X	X	X	X	X	X		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Sample's Name: Ryan Horvath
 Samples Company: Blom Tech
 Shipment Date: 11/15
 Shipment Method: 12/16/02
 Shipment Tracking No:
 Final Instructions: Address Invoice to BR/GEM but send to URS for approval
 Temperature Blank Yes No
 Cooler Temperature on Receipt
 Tip Blank Yes No
 Distribution: White Copy - Laboratory / Yellow Copy - BR/GEM / Pink Copy - Consultant/Contractor
 BR COC Rev. 1 2/5/02

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME:	<u>UKS</u>	DATE Received at Lab:	<u>12/12/02</u>	Drinking water for regulatory purposes:	YES / <input checked="" type="radio"/> NO
REC. BY (PRINT)	<u>RJ</u>	TIME Received at Lab:	<u>1720</u>	Wastewater for regulatory purposes:	YES / <input checked="" type="radio"/> NO
WORKORDER:	<u>M226482</u>	LOG IN DATE:	<u>12-19-02</u>		

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	#	CLIENT ID	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <input checked="" type="radio"/> Absent Intact / Broken*	1		ESE-1	(3) Vials H ₂ O	(L)	12/16/02	2218050
2. Chain-of-Custody <input checked="" type="radio"/> Present / Absent*	3		↓ - 2 ↓ - 3	↓	↓	↓	↓
3. Traffic Reports or Packing List Present / <input checked="" type="radio"/> Absent							
4. Airbill Airbill / Sticker Present / <input checked="" type="radio"/> Absent							
5. Airbill #:							
6. Sample Labels: <input checked="" type="radio"/> Present / Absent							
7. Sample IDs: <input checked="" type="radio"/> Listed / Not Listed on Chain-of-Custody							
8. Sample Condition: <input checked="" type="radio"/> Intact / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample labels agree? <input checked="" type="radio"/> Yes / No*							
10. Sample received within hold time: <input checked="" type="radio"/> Yes / No*							
11. Proper Preservatives used: <input checked="" type="radio"/> Yes / No*							
12. Temp Rec. at Lab: (Acceptance range for samples requiring thermal pres. ±4/-2°C) <input checked="" type="radio"/> Yes <input checked="" type="radio"/> No**							
**Exception (if any):							

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

ATTACHMENT D

EDCC REPORT

Error Summary Log

01/24/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	BP Heritage Site #11105,
Work Order Number:	MLL0682
Global ID:	T0600100920
Lab Report Number:	MLL0682010720031305

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotcl	Run Sub
MLL06820107200 31305	ESE-1	MLL068201	W	CS	SW8021F	SW5030B	12/16/02	12/29/02	12/29/02	2L29001	1
MLL06820107200 31305	ESE-2	MLL068202	W	CS	SW8021F	SW5030B	12/16/02	12/29/02	12/29/02	2L29001	1
MLL06820107200 31305	ESE-3	MLL068203	W	CS	SW8021F	SW5030B	12/16/02	12/29/02	12/29/02	2L29001	1
		MLL068017	W	NC	SW8021F	SW5030B	//	12/29/02	12/29/02	2L29001	1
		2L29001BS1	WQ	BS1	SW8021F	SW5030B	//	12/29/02	12/29/02	2L29001	1
		2L29001BS2	WQ	BS2	SW8021F	SW5030B	//	12/29/02	12/29/02	2L29001	1
		2L29001BLK1	WQ	LB1	SW8021F	SW5030B	//	12/29/02	12/29/02	2L29001	1
		2L29001MS1	W	MS1	SW8021F	SW5030B	//	12/29/02	12/29/02	2L29001	1
		2L29001MSD1	W	SD1	SW8021F	SW5030B	//	12/29/02	12/29/02	2L29001	1

EDFSAMP: Error Summary Log

01/24/03

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

EDFTEST: Error Summary Log

01/24/03

Error type	Labsampid	Qccode	Anmcode	Exmcode	Anadate	Run number
There are no errors in this data file					11	0

EDFRES: Error Summary Log

01/24/03

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	2L29001MS1	MS1	W	SW8021F	PR	12/29/02	1	AAATFBZME
Warning: extra parameter	2L29001MS1	MS1	W	SW8021F	PR	12/29/02	1	GROC6C10
Warning: extra parameter	2L29001MSD1	SD1	W	SW8021F	PR	12/29/02	1	AAATFBZME
Warning: extra parameter	2L29001MSD1	SD1	W	SW8021F	PR	12/29/02	1	GROC6C10
Warning: extra parameter	MLL068017	NC	W	SW8021F	PR	12/29/02	1	AAATFBZME
Warning: extra parameter	MLL068017	NC	W	SW8021F	PR	12/29/02	1	GROC6C10
Warning: extra parameter	MLL068201	CS	W	SW8021F	PR	12/29/02	1	AAATFBZME
Warning: extra parameter	MLL068201	CS	W	SW8021F	PR	12/29/02	1	GROC6C10
Warning: extra parameter	MLL068201	CS	W	SW8021F	PR	12/29/02	1	MTBE
Warning: extra parameter	MLL068202	CS	W	SW8021F	PR	12/29/02	1	AAATFBZME
Warning: extra parameter	MLL068202	CS	W	SW8021F	PR	12/29/02	1	GROC6C10
Warning: extra parameter	MLL068202	CS	W	SW8021F	PR	12/29/02	1	MTBE
Warning: extra parameter	MLL068203	CS	W	SW8021F	PR	12/29/02	1	AAATFBZME
Warning: extra parameter	MLL068203	CS	W	SW8021F	PR	12/29/02	1	GROC6C10
Warning: extra parameter	MLL068203	CS	W	SW8021F	PR	12/29/02	1	MTBE
Warning: extra parameter	2L29001BLK1	LB1	WQ	SW8021F	PR	12/29/02	1	AAATFBZME
Warning: extra parameter	2L29001BLK1	LB1	WQ	SW8021F	PR	12/29/02	1	GROC6C10
Warning: extra parameter	2L29001BLK1	LB1	WQ	SW8021F	PR	12/29/02	1	MTBE
Warning: extra parameter	2L29001BS1	BS1	WQ	SW8021F	PR	12/29/02	1	AAATFBZME
Warning: extra parameter	2L29001BS2	BS2	WQ	SW8021F	PR	12/29/02	1	AAATFBZME
Warning: extra parameter	2L29001BS2	BS2	WQ	SW8021F	PR	12/29/02	1	GROC6C10

EDFQC: Error Summary Log

01/24/03

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

EDFCL: Error Summary Log

01/24/03

Error type	Clevdate	Anmcode	Exmcode	Parlabel	Cicode
There are no errors in this data file	//				