

April 4, 2003

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

Alameda County
APR 16 2003
Environmental Health

Re: **First Quarter 2003 Groundwater Monitoring Report**
Former BP Service Station #11105
3519 Castro Valley Boulevard
Castro Valley, California
URS Project #38486236

Dear Mr. Seery:

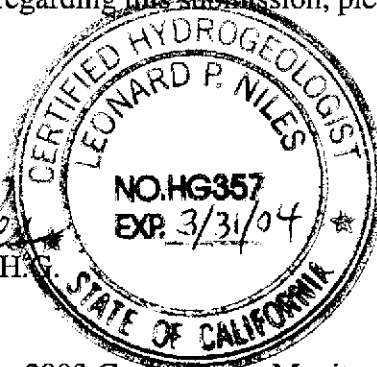
On behalf of the Group Environmental Management Company (a BP affiliated company), URS Corporation (URS) is submitting the *First Quarter 2003 Groundwater Monitoring Report* for the Former BP Service Station #11105, located at 3519 Castro Valley Boulevard, Castro Valley, California.

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

Sincerely,

URS CORPORATION

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



Enclosure: First Quarter 2003 Groundwater Monitoring Report

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

R E P O R T

**FIRST QUARTER 2003
GROUNDWATER MONITORING**

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

Prepared for
BP GEM

April 4, 2003

URS

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

38486236



Date: April 4, 2003
Quarter: 1Q 03

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.: 38486236
Primary Agency/Regulatory ID No.: Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER (First – 2003):

1. Performed first quarter groundwater monitoring event on March 11, 2003.
2. Prepared and submitted fourth quarter 2002 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (Second – 2003):

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

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: ESE-1 through ESE-3, quarterly; ESE-5 and MW-7, semi-annual (1st and 3rd Quarter)
Frequency of Groundwater Monitoring: Quarterly
Is Free Product (FP) Present On-Site: No
Current Remediation Techniques: None currently
Approximate Depth to Groundwater: 6.77 (ESE-5) to 10.24 (ESE-2) feet
Groundwater Gradient (direction): Southeast to southwest
Groundwater Gradient (magnitude): 0.02 to 0.03

DISCUSSION:

TPH-g was detected in all five wells sampled at concentrations ranging from 100 µg/L (ESE-3) to 2,800 µg/L (ESE-2). Benzene was detected in three of the five wells sampled at concentrations ranging from 3.4 µg/L (ESE-3) to 490 µg/L (ESE-1). MTBE was detected in all five wells sampled at concentrations ranging from 80 µg/L (ESE-5) to 4,800 µg/L (ESE-2).

This site is not available to URS on the Geotracker system. Once the site has been claimed, information for the first quarter will be uploaded.

ATTACHMENTS:

- Table 1 – Groundwater Elevation and Analytical Data
- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – March 11, 2003
- 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

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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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
ESE-1	3/11/03	177.69	9.40	168.29	1700	490	21	22	41	530	---	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	---	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
ESE-2	3/11/03	178.23	10.24	167.99	2800	ND<10	ND<10	ND<10	ND<10	4800	---	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
ESE-3	3/11/03	178.20	9.05	169.15	100	3.4	ND<0.50	0.54	ND<0.50	140	---	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	113	(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	(l)	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	---	---	---	---	---	---	---	---
ESE-4	3/11/03	177.66	8.83	168.83	---	---	---	---	---	---	---	---

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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

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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	---	---	---	---	---	---	---	---
ESE-5	3/11/03	176.26	6.77	169.49	2100	14	ND<2.5	15	3.0	80	---	---

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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
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	---	---	---	---	---	---	---	---
MW-6	3/11/03	179.24	9.40	169.84	---	---	---	---	---	---	---	---

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 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	---	---	---	---	---	---	---	---
MW-7	3/11/03	176.55	8.30	168.25	620	ND<2.5	ND<2.5	ND<2.5	ND<2.5	1100	---	---

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:

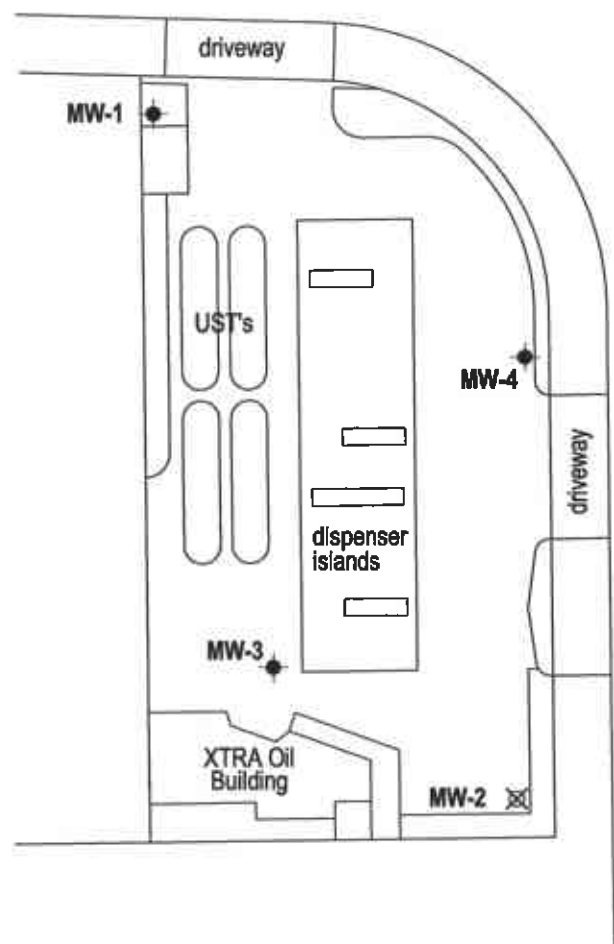
TPH-G	Total petroleum hydrocarbons as gasoline
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
MTBE	Methyl tert butyl ether
DO	Dissolved oxygen
ug/L	Micrograms per liter
ppm	Parts per million
ND	Not detected above reported detection limit
—	Not applicable/available/measured/analyzed
PACE	Pace, Inc.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

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

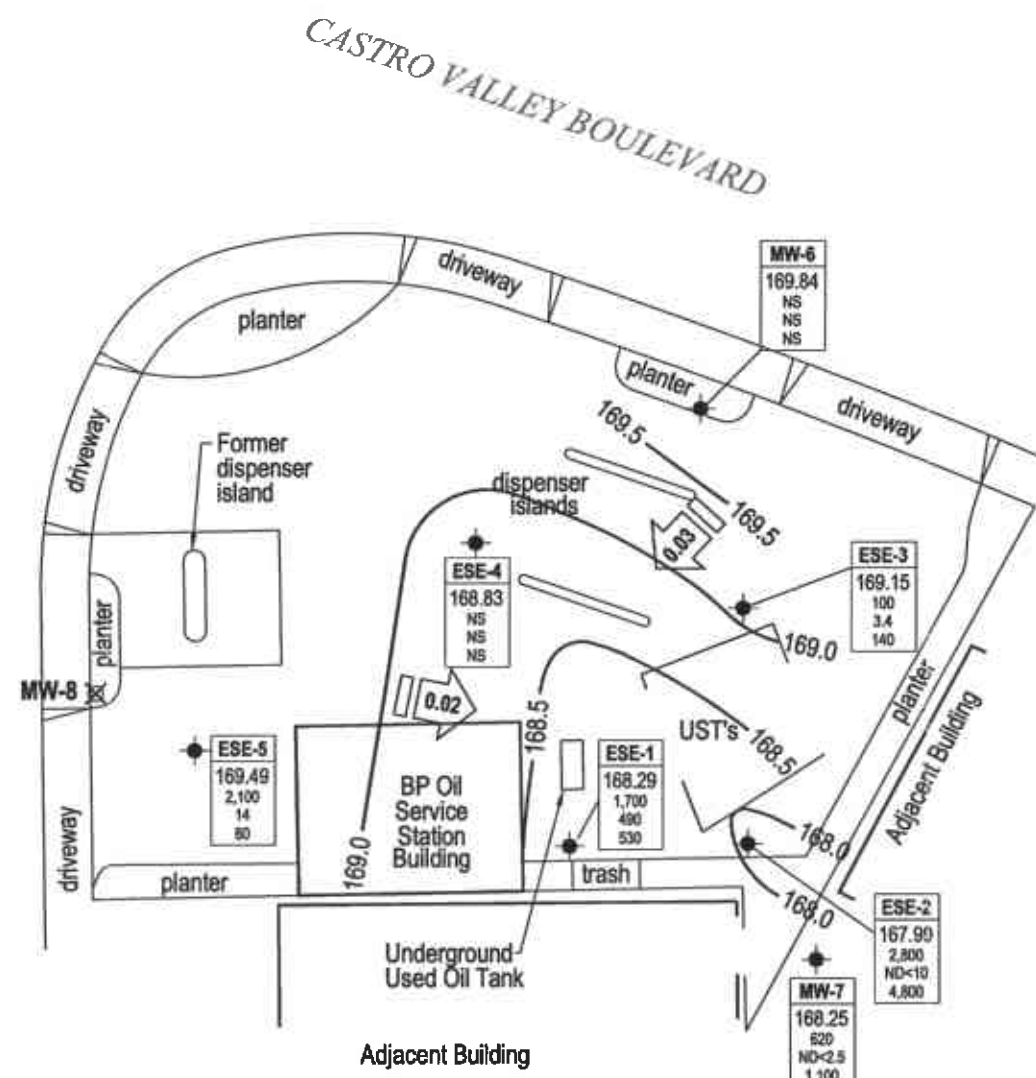
NOTES:

- (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 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.

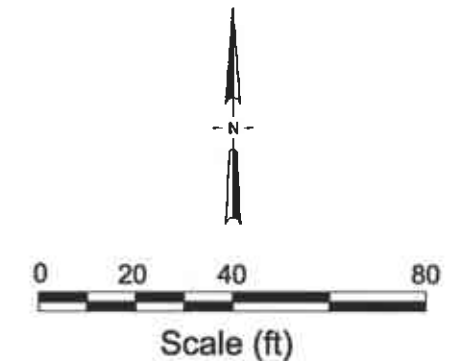
Source: The data within this table collected prior to June 2002 was provided to URS by BP Group Environmental Management company and their previous consultants. URS has not verified the accuracy of this information.



REDWOOD ROAD



EXPLANATION	
	Abandoned monitoring well location
	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	
ND<	Not detected at or above laboratory reporting limits
NS	Not Sampled
	169.0 Groundwater elevation contour (Feet above MSL)
	Approximate groundwater flow direction and gradient (ft/ft)

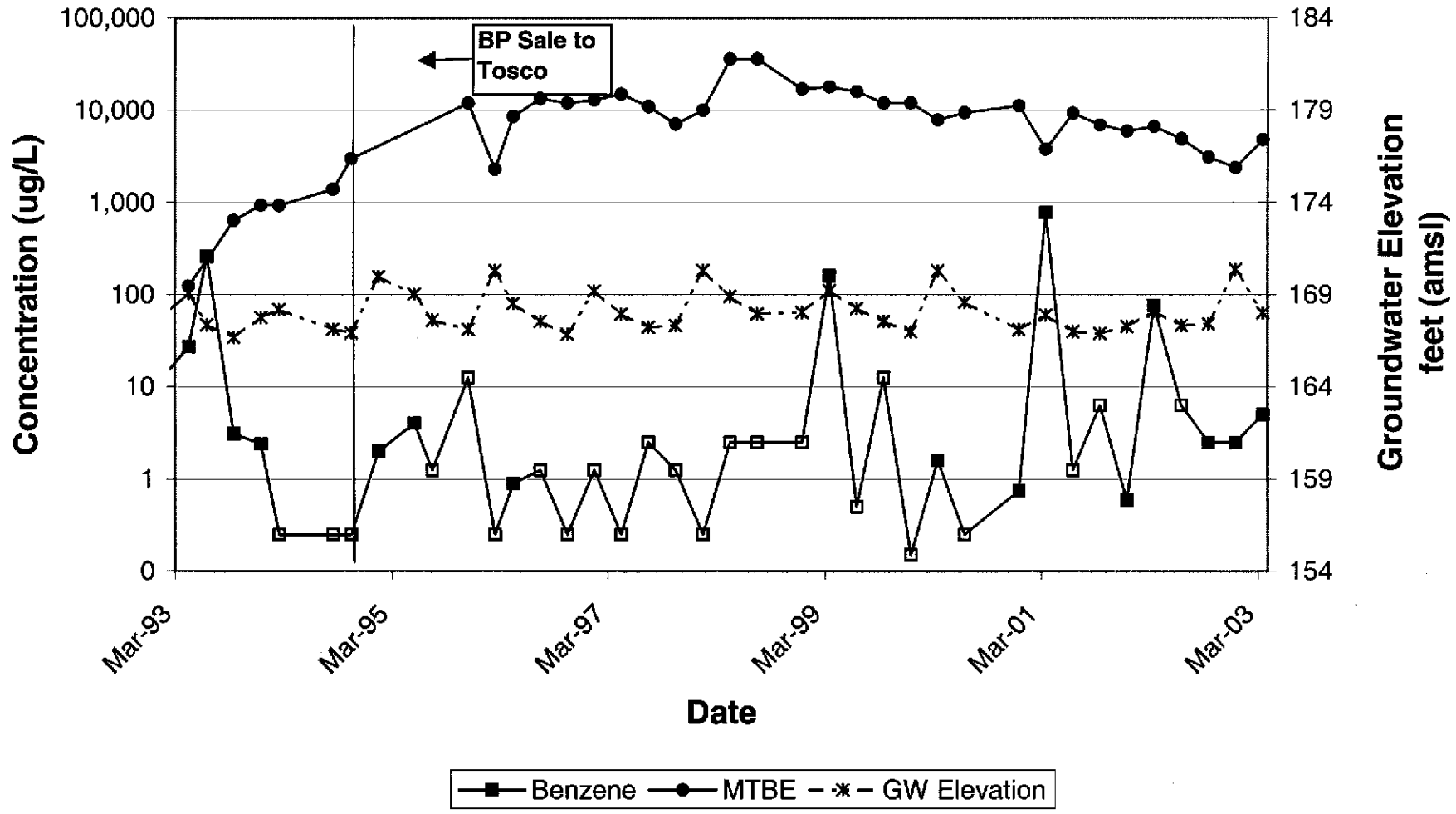


URS	Project No. 38486236	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP	FIGURE
	Former BP Service Station #11105 3519 Castro Valley Boulevard Castro Valley, California		
		First Quarter 2003 (March 11, 2003)	

X:\c_enn\waste\BP_GEM\Site\Niles_Site\11105\Reports\Monitoring\Qtr_1_2003\Drawings\GWEC-AS_3-11.dwg

ATTACHMENT A
CONCENTRATION, FREE PRODUCT AND WATER LEVEL TRENDS

Concentration and Water Level Trends ESE-2



Former BP Service Station #11105
3519 Castro Valley Boulevard
Castro Valley, California

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.

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030311-DW-1	Station # 11105
Sampler: Dave Walter	Date: 3-11-03
Well I.D.: ESE-1	Well Diameter: (2) 3 4 6 8
Total Well Depth: 29.23	Depth to Water: 9.40
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grnde	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 Sampling Method: Bailer
 Disposable Bailer Disposable Bailer
 Middleburg Extraction Port
 Electric Submersible
 Extraction Pump
 Other: _____

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

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

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
10:42	65.7	7.2	924	3.2	
10:46	65.9	7.1	948	6.4	
10:50	66.0	7.1	965	9.6	

Did well dewater? Yes No Gallons actually evacuated: 9.6

Sampling Time: 10:55 Sampling Date: 3-11-03

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030311-DW-1	Station # 11165
Sampler: Dave Walter	Date: 3-11-03
Well I.D.: ESE-2	Well Diameter: (2) 3 4 6 8
Total Well Depth: 27.04	Depth to Water: 10.24
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 Disposable Bailer
 Electric Submersible Extraction Port
 Extraction Pump Other: _____

Other: _____

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

2.7	x	3	=	8.1	Gals.
I Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
11:04	64.7	7.4	978	2.7	odor
11:08	64.9	7.3	974	5.4	
11:11	64.9	7.3	965	8.1	

Did well dewater? Yes No Gallons actually evacuated: 8.1

Sampling Time: 11:16 Sampling Date: 3-11-03

Sample I.D.: ESE-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 #: 030311-DW-1	Station # 11105
Sampler: Dave Walter	Date: 3-11-03
Well I.D.: ESE-3	Well Diameter: (2) 3 4 6 8
Total Well Depth: 29.70	Depth to Water: 9.05
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 Sampling Method: Bailer

Disposable Bailer Disposable Bailer

Middleburg Extraction Port

Electric Submersible Other: _____

Extraction Pump

Other: _____

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

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

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
9:27	66.1	7.5	1001	3.3	clear
9:32	66.9	7.4	1000	6.6	
9:36	67.3	7.3	989	9.9	

Did well dewater? Yes No Gallons actually evacuated: 9.9

Sampling Time: 9:41 Sampling Date: 3-11-03

Sample I.D.: ESE-3 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>030311-DW-1</u>	Station # <u>1110.5</u>
Sampler: <u>Dave Walter</u>	Date: <u>3-11-03</u>
Well I.D.: <u>ESE-5</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>23.71</u>	Depth to Water: <u>6.77</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: Bailer Sampling Method: Bailer

Disposable Bailer Disposable Bailer

Middleburg 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>2.7</u>	x	<u>3</u>	=	<u>8.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
10:18	64.4	7.2	1109	2.7	odor/clear
10:21	65.6	7.1	1127	5.4	
10:25	66.6	7.1	1137	8.1	cloudy

Did well dewater? Yes No Gallons actually evacuated: 8.1

Sampling Time: 10:30 Sampling Date: 3-11-03

Sample I.D.: ESE-5 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 #: 030311-DW-1	Station # 11165
Sampler: Dave Walter	Date: 3-11-03
Well I.D.: mw-7	Well Diameter: (2) 3 4 6 8
Total Well Depth: 28.77	Depth to Water: 9.30
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> 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
9.50	63.7	7.4	759	3.3	clear
9.54	64.0	7.3	791	6.6	
9.58	64.4	7.3	811	9.9	

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: 9.9
Sampling Time: 1010Z	Sampling Date: 3-11-03
Sample I.D.: mw-7	Laboratory: Pace <input checked="" type="checkbox"/> Sequoia Other _____
Analyzed for: <input checked="" type="checkbox"/> TPH-G <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> 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

Project Name G30311-DW-1
 BP BU/GEM CO Portfolio: _____
 BP Laboratory Contract Number: _____
 Requested Due Date (mm/dd/yy) _____

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

BP/GEM Facility No.:	11105	Consultant/Contractor: URS
BP/GEM Facility Address:	3519 Castro Valley Blvd, Castro Valley, CA	Address: 500 12th St, Ste. 200
Site ID No.	11105	Oakland, CA 94609-4014
95037	Site Lat/Long:	e-mail EDD: syed_rehan@urscorp.com
	California Global ID #: T0600100920	Consultant/Contractor Project No.:
	BP/GEM PM Contact: Scott Hooton	Consultant Tele/Fax: 510-874-1720 / 510-874-3268
08-782-6308	Address: 295 SW 41st St, Bldg. 13 Ste N	Consultant/Contractor PM: Leonard Niles
EDF Reports.	Renton, WA 98055	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
1124	Tele/Fax: 425-251-0889/425-251-0736	BP/GEM Work Release No:

1	Time	Matrix				Laboratory No.	No. of containers	Preservatives			Requested Analysis						Sample Point Lat/Long and Comments
		Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TPH-Q/BTEX (8015/8021)	TPH-D (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE DIPE, TBA (8260)	
	10:55	X				3					X	X					
	11:16	X				↓					X	X					
	9:41	X				↓					X	X					
	10:30	X				↓					X	X					
	10:07	X				↓					X	X					

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Walter Tech Services	David C Stahl				

Invoice to BP/GEM but send to URS for approval

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

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:

11105

Station # _____

Station Address 3519 Castro Valley Blvd Castro Valley, CA

Total Gallons Collected From Groundwater Monitoring Wells:
46

added equip. _____	any other _____
rinse water <u>10</u>	adjustments _____

TOTAL GALS. RECOVERED <u>56</u>	loaded onto BTS vehicle # <u>23</u>
--	-------------------------------------

BTS event # <u>030311-DW-1</u>	time <u>11:30</u>	date <u>3/11/03</u>
--------------------------------	-------------------	---------------------

signature David C. Skelton

REC'D AT _____	time _____	date <u>1/1</u>
----------------	------------	-----------------

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.



27 March, 2003

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

RE: BP Heritage Site #11105, Castro Valley, CA
Sequoia Work Order: MMC0471

Enclosed are the results of analyses for samples received by the laboratory on 03/12/03 15:30. 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,
Project Manager: Leonard Niles

MMC0471
Reported:
03/27/03 16:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ESE-1	MMC0471-01	Water	03/11/03 10:55	03/12/03 15:30
ESE-2	MMC0471-02	Water	03/11/03 11:16	03/12/03 15:30
ESE-3	MMC0471-03	Water	03/11/03 09:41	03/12/03 15:30
ESE-5	MMC0471-04	Water	03/11/03 10:30	03/12/03 15:30
MW-7	MMC0471-05	Water	03/11/03 10:02	03/12/03 15:30

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

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,
 Project Manager: Leonard Niles

 MMC0471
 Reported:
 03/27/03 16:08

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
ESE-1 (MMC0471-01) Water Sampled: 03/11/03 10:55 Received: 03/12/03 15:30									
Gasoline Range Organics	1700	250	ug/l	5	3030381	03/19/03	03/19/03	EPA 8015B/8021B	
Benzene	490	2.5	"	"	"	"	"	"	
Toluene	21	2.5	"	"	"	"	"	"	
Ethylbenzene	22	2.5	"	"	"	"	"	"	
Xylenes (total)	41	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	530	12	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		104 %		65-135	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		86 %		65-135	"	"	"	"	
ESE-2 (MMC0471-02) Water Sampled: 03/11/03 11:16 Received: 03/12/03 15:30									
Gasoline Range Organics	2800	1000	ug/l	20	3030381	03/19/03	03/19/03	EPA 8015B/8021B	
Benzene	ND	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	4800	50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		104 %		65-135	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		89 %		65-135	"	"	"	"	
ESE-3 (MMC0471-03) Water Sampled: 03/11/03 09:41 Received: 03/12/03 15:30									
Gasoline Range Organics	100	50	ug/l	1	3030381	03/19/03	03/19/03	EPA 8015B/8021B	
Benzene	3.4	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	0.54	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	140	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		102 %		65-135	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		88 %		65-135	"	"	"	"	

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,
 Project Manager: Leonard Niles

 MMC0471
Reported:
 03/27/03 16:08

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
ESE-5 (MMC0471-04) Water Sampled: 03/11/03 10:30 Received: 03/12/03 15:30									
Gasoline Range Organics	2100	250	ug/l	5	3030381	03/19/03	03/19/03	EPA 8015B/8021B	
Benzene	14	2.5	"	"	"	"	"	"	"
Toluene	ND	2.5	"	"	"	"	"	"	"
Ethylbenzene	15	2.5	"	"	"	"	"	"	"
Xylenes (total)	3.0	2.5	"	"	"	"	"	"	"
Methyl tert-butyl ether	80	12	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		98 %		65-135	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		89 %		65-135	"	"	"	"	"
MW-7 (MMC0471-05) Water Sampled: 03/11/03 10:02 Received: 03/12/03 15:30									
Gasoline Range Organics	620	250	ug/l	5	3030381	03/19/03	03/19/03	EPA 8015B/8021B	
Benzene	ND	2.5	"	"	"	"	"	"	"
Toluene	ND	2.5	"	"	"	"	"	"	"
Ethylbenzene	ND	2.5	"	"	"	"	"	"	"
Xylenes (total)	ND	2.5	"	"	"	"	"	"	"
Methyl tert-butyl ether	1100	12	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		104 %		65-135	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		89 %		65-135	"	"	"	"	"

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,
 Project Manager: Leonard Niles

 MMC0471
 Reported:
 03/27/03 16:08

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 3030381 - EPA 5030, waters
Blank (3030381-BLK1)

Prepared & Analyzed: 03/19/03

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	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	323		"	300		108	65-135			
<i>Surrogate: 4-Bromofluorobenzene</i>	267		"	300		89	65-135			

Laboratory Control Sample (3030381-BS1)

Prepared & Analyzed: 03/19/03

Gasoline Range Organics	2160	50	ug/l	2750		79	65-135			
Benzene	37.7	0.50	"	36.5		103	65-135			
Toluene	192	0.50	"	203		95	65-135			
Ethylbenzene	45.4	0.50	"	47.0		97	65-135			
Xylenes (total)	216	0.50	"	236		92	65-135			
Methyl tert-butyl ether	62.3	2.5	"	56.0		111	65-135			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	341		"	300		114	65-135			
<i>Surrogate: 4-Bromofluorobenzene</i>	276		"	300		92	65-135			

Matrix Spike (3030381-MS1)

Source: P303267-01

Prepared & Analyzed: 03/19/03

Gasoline Range Organics	2180	50	ug/l	2750	44	78	65-135			
Benzene	36.7	0.50	"	36.5	ND	101	65-135			
Toluene	187	0.50	"	203	ND	92	65-135			
Ethylbenzene	44.6	0.50	"	47.0	ND	95	65-135			
Xylenes (total)	210	0.50	"	236	ND	89	65-135			
Methyl tert-butyl ether	113	2.5	"	56.0	62	91	65-135			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	323		"	300		108	65-135			
<i>Surrogate: 4-Bromofluorobenzene</i>	278		"	300		93	65-135			

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,
Project Manager: Leonard Niles

MMC0471
Reported:
03/27/03 16:08

**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 3030381 - EPA 5030, waters										
Matrix Spike Dup (3030381-MSD1)										
Source: P303267-01 Prepared & Analyzed: 03/19/03										
Gasoline Range Organics	2130	50	ug/l	2750	44	76	65-135	2	20	
Benzene	36.6	0.50	"	36.5	ND	100	65-135	0.3	20	
Toluene	189	0.50	"	203	ND	93	65-135	1	20	
Ethylbenzene	44.8	0.50	"	47.0	ND	95	65-135	0.4	20	
Xylenes (total)	212	0.50	"	236	ND	90	65-135	0.9	20	
Methyl tert-butyl ether	120	2.5	"	56.0	62	104	65-135	6	20	
Surrogate: a,a,a-Trifluorotoluene	330		"	300		110	65-135			
Surrogate: 4-Bromofluorobenzene	275		"	300		92	65-135			



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Project: BP Heritage Site #11105, Castro Valley, CA
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MMC0471
Reported:
03/27/03 16:08

Notes and Definitions

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 030311-DW-1
 BP BU/GEM CO Portfolio: _____
 BP Laboratory Contract Number: _____
 Date: 3-11-03 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: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>3519 Castro Valley Blvd, Castro Valley, CA</u>	Address: <u>500 12th St., Ste. 200</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>11105</u>	<u>Oakland, CA 94609-4014</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long: _____	e-mail BDD: <u>syed_rehan@urscorp.com</u>
Lab PM: <u>Lalonya Pelt</u>	California Global ID #: <u>T0600100920</u>	Consultant/Contractor Project No.: _____
Tele/Fax: <u>408-776-9600 / 408-782-8308</u>	BP/GEM PM Contact: <u>Scott Hooton</u>	Consultant Tele/Fax: <u>510-874-1720 / 510-874-3268</u>
Report Type & QC Level: <u>Send EDF Reports</u>	Address: <u>295 SW 41st St., Bldg. 13 Ste N</u>	Consultant/Contractor PM: <u>Leonard Niles</u>
BP/GEM Account No.: <u>400-6-21124</u>	<u>Renton, WA 98055</u>	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
	Tele/Fax: <u>425-251-0680/425-251-0736</u>	BP/GEM Work Release No: _____

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives			Requested Analysis					Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TPH-G / BTEX (8015 / 8021)	TPH-D (8015)	MTBE (8021)	MTBE (8260)	
1	ESE-1	10:55		X			<u>MM0471</u>	3				X	X				
2	ESE-2	11:16		X								X	X				
3	ESE-3	9:41		X								X	X				
4	ESE-6	10:30		X								X	X				
5	MW-7	10:02		X								X	X				
6																	
7																	
8																	
9																	
10																	

Sampler's Name: <u>Dave Walter</u>	Relinquished By / Affiliation: <u>David C. Walter</u>	Date: <u>3/12/03</u>	Time: <u>10:10</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>3/12/03</u>	Time: <u>10:10</u>
Sampler's Company: <u>Blaine Tech Services</u>						
Shipment Date: _____						
Shipment Method: _____						
Shipment Tracking No: _____						

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

By Seals In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP
 REC. BY (PRINT) [Signature]
 WORKORDER: MHC0871

DATE Received at Lab: 3/12/03
 TIME Received at Lab: 15:30
 LOG IN DATE: 3-14-03

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 <input checked="" type="radio"/> Absent <input type="radio"/> Intact / Broken*	1		ESE - 1	(3) Vials HCL	L	3/11/03	2218050
2. Chain-of-Custody	Present / Absent*	2		ESE - 2	↓	↓	↓	↓
3. Traffic Reports or Packing List:	Present <input checked="" type="radio"/> Absent <input type="radio"/>	3		ESE - 3	↓	↓	↓	↓
4. Airbill:	Airbill / Sticker Present <input checked="" type="radio"/> Absent <input type="radio"/>	4		ESE - 5	↓	↓	↓	↓
5. Airbill #:		5		MW - 7	↓	↓	↓	↓
6. Sample Labels:	Present / Absent							
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody							
8. Sample Condition:	Intact <input checked="" type="radio"/> Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample labels agree?	Yes <input checked="" type="radio"/> No*							
10. Sample received within hold time:	Yes <input checked="" type="radio"/> No*							
11. Proper Preservatives used:	Yes <input checked="" type="radio"/> No*							
12. Temp Rec. at Lab: Is temp 4 ± 2°C?	5c Yes <input checked="" type="radio"/> No**							
(Acceptance range for samples requiring thermal pres.)								
**Exception (if any): Metals / DFF on ice? / DFF no ice? or Problem COC								

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