RO-489

URS

Alameda County

MAR 27 2003

Environmental Health

March 25, 2003

Mr. Amir K. Gholami
Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **First Quarter 2003 Groundwater Monitoring Report**
Former BP Service Station #11107
18501 Hesperian Blvd
San Lorenzo, California
URS Project #38486234

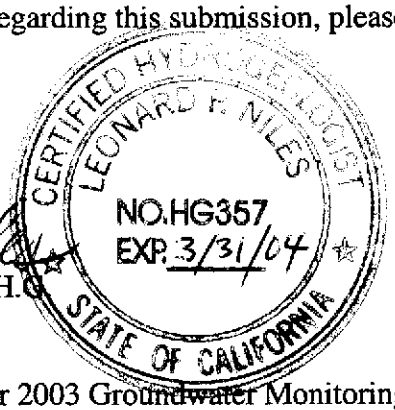
Dear Mr. Gholami:

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 #11107, located at 18501 Hesperian Boulevard, San Lorenzo, California.

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

Sincerely,

URS CORPORATION



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

Attachment: 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
Ms. Liz Sewell, ConocoPhillips, 76 Broadway Avenue, Sacramento, CA 95818

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

REPORT

FIRST QUARTER 2003 GROUNDWATER MONITORING

FORMER BP SERVICE STATION #11107
18501 HESPERIAN BLVD
SAN LORENZO, CALIFORNIA

Prepared for
BP GEM

March 25, 2003

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

38486234

Date: March 25, 2003

Quarter: 1Q 03

BP GEM QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.:	11107	Address:	18501 Hesperian Blvd, San Lorenzo, CA
BP Environmental Engineer:			Scott Hooton
Consulting Co./Contact Person:			URS Corporation / Leonard Niles
Consultant Project No.:			38486234
Primary Agency/Regulatory ID No.:			Alameda County Health Care Services / STID 780

WORK PERFORMED THIS QUARTER (First – 2003):

1. Performed first quarter 2003 groundwater monitoring event on January 13, 2003.
2. Prepared and submitted fourth quarter 2002 groundwater monitoring report.
3. Prepared and submitted first quarter 2003 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (Second – 2003):

1. Perform second quarter 2003 groundwater monitoring event.

Current Phase of Project:	GW monitoring/sampling
Frequency of Groundwater Sampling:	Wells MW-4 through MW-6, quarterly
Frequency of Groundwater Monitoring:	Quarterly
Is Free Product (FP) Present On-Site:	No
Current Remediation Techniques:	None currently
Approximate Depth to Groundwater:	15.66 (MW-6) to 17.31 (MW-1) feet
Groundwater Gradient (direction):	Northwest
Groundwater Gradient (magnitude):	0.004 feet per foot

DISCUSSION:

TPH-g was detected in only one of the three wells sampled this quarter (MW-5), at a concentration of 58 µg/L, slightly exceeding its detection limit (50 µg/L). Benzene and xylenes were detected in two of the three wells at concentrations of 1.2 µg/L and 1.4 µg/L (MW-5), and 3.6 µg/L and 4.8 µg/L (MW-6), respectively. Toluene and ethylbenzene were also found in MW-6 at concentrations slightly exceeding their detection limit. MTBE was detected in all three wells sampled this quarter at concentrations of 3.9 µg/L (MW-6), 21 µg/L (MW-4) and 30 µg/L (MW-5). Groundwater elevations across the site increased by an average of approximately 0.81 feet this quarter, and the groundwater flow direction was to the northwest at a calculated hydraulic gradient of 0.004 feet per foot.

ATTACHMENTS:

- Table 1 – Groundwater Elevation and Analytical Data
- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – January 13, 2003
- Attachment A – Concentration and Water Level Trends (MW-5)
- Attachment B – Field Procedures and Field Data Sheets
- Attachment C – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment D – EDCC Report and EDF/Geowell Submittal Confirmation

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11107
18501 Hesperian Boulevard
San Lorenzo, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet) (a)	DTW (Feet)	GWE (Feet)	TPH-G (b) (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		TOG (ug/L)	1,1,1-TCA (ug/L)	PCE (ug/L)	DO (ppm)	LAB
MW-1	11/4/92	41.07	20.78	20.29	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(j)	ND<5000	2.8	ND	---	PACE
QC-1 (c)	11/4/92	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(j)	---	---	---	---	PACE
MW-1	2/24/94	41.07	20.70	20.37	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j)	ND<5000	1.5	0.9	---	PACE
MW-1	5/12/94	41.07	18.12	22.95	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j)	ND<5000	1.0	ND<0.5	7	PACE
MW-1	9/9/94	41.07	21.74	19.33	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j)	ND<5000	ND<0.5	ND<0.5	2.3	PACE
MW-1	11/3/94	41.07	20.01	21.06	ND<50	50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j)	ND<5000	ND<0.5	ND<0.5	4.3	PACE
MW-1	3/1/95	41.07	17.44	23.63	ND<50	ND<500	ND<50	ND<0.50	ND<0.50	ND<1.0	---		420	0.54	0.3	2.3	ATI
MW-1	6/6/95	41.07	17.55	23.52	---	---	---	---	---	---	---		---	---	---	---	---
MW-1	9/1/95	41.07	18.19	22.88	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0		60	---	---	8.8	ATI
MW-1	11/29/95	41.07	18.84	22.23	---	---	---	---	---	---	---		---	---	---	---	---
MW-1	3/23/96	41.07	16.97	24.10	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	---	---	9.6	SPL
MW-1	9/5/96	41.07	17.74	23.33	110	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	---	---	3.6	SPL
MW-1	3/11/97	41.07	17.62	23.45	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	---	---	5.2	SPL
MW-1	12/8/97	41.07	16.30	24.77	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	---	---	---	---
MW-1	7/8/98	41.07	16.66	24.41	---	---	---	---	---	---	---		---	---	---	---	---
MW-1	12/7/98	41.07	17.80	23.27	---	---	---	---	---	---	---		---	---	---	---	---
MW-1	1/19/99	41.07	17.18	23.89	---	---	---	---	---	---	---		---	---	---	---	---
MW-1	4/23/99	41.07	17.40	23.67	---	---	---	---	---	---	---		---	---	---	---	---
MW-1	7/20/99	41.07	17.76	23.31	---	---	---	---	---	---	---		---	---	---	---	---
MW-1	2/29/00	41.07	17.17	23.90	---	---	---	---	---	---	---		---	---	---	---	---
MW-1	4/14/00	41.07	17.22	23.85	---	---	---	---	---	---	---		---	---	---	---	---
MW-1	7/24/00	41.07	17.61	23.46	---	---	---	---	---	---	---		---	---	---	---	---
MW-1	10/30/00	41.07	17.76	23.31	---	---	---	---	---	---	---		---	---	---	---	---
MW-1	1/11/01	41.07	17.88	23.19	---	---	---	---	---	---	---		---	---	---	---	---
MW-1	5/17/01	41.07	17.82	23.25	---	---	---	---	---	---	---		---	---	---	---	---
MW-1	7/2/01	41.07	17.95	23.12	---	---	---	---	---	---	---		---	---	---	---	---
MW-1	11/2/01	41.07	18.25	22.82	---	---	---	---	---	---	---		---	---	---	---	---
MW-1	8/6/2002*	41.07	17.93	23.14	---	---	---	---	---	---	---		---	---	---	---	---
MW-1	10/16/02	41.07	18.32	22.75	---	---	---	---	---	---	---		---	---	---	---	---
MW-1	**1/13/03**	**41.07**	**17.31**	**23.76**	**---**	**---**	**---**	**---**	**---**	**---**	**---**		**---**	**---**	**---**	**---**	**---**

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11107
18501 Hesperian Boulevard
San Lorenzo, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet) (a)	DTW (Feet)	GWE (Feet)	TPH-G (b) (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		TOG (ug/L)	1,1,1-TCA (ug/L)	PCE (ug/L)	DO (ppm)	LAB
MW-2	11/4/92	40.56	20.16	20.40	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(j)	---	---	---	---	PACE
MW-2	2/24/94	40.56	20.12	20.44	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j)	---	---	---	---	PACE
MW-2	5/12/94	40.56	17.49	23.07	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j)	---	---	---	7.4	PACE
MW-2	9/9/94	40.56	21.12	19.44	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j)	---	---	---	2.1	PACE
MW-2	11/3/94	40.56	19.36	21.20	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j)	---	---	---	4.2	PACE
MW-2	3/1/95	40.56	16.83	23.73	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---		---	---	---	2.2	ATI
MW-2	6/6/95	40.56	16.96	23.60	---	---	---	---	---	---	---		---	---	---	---	---
MW-2	9/1/95	40.56	17.54	23.02	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0		---	---	---	7.9	ATI
MW-2	11/29/95	40.56	18.19	22.37	---	---	---	---	---	---	---		---	---	---	---	---
MW-2	3/23/96	40.56	16.35	24.21	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10		---	---	---	8.5	SPL
MW-2	9/5/96	40.56	17.55	23.01	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	---	---	3.2	SPL
MW-2	3/11/97	40.56	16.95	23.61	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	---	---	2.9	SPL
MW-2	12/8/97	40.56	16.01	24.55	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	---	---	3.0	SPL
MW-2	7/8/98	40.56	16.41	24.15	---	---	---	---	---	---	---		---	---	---	---	---
MW-2	12/7/98	40.56	17.15	23.41	---	---	---	---	---	---	---		---	---	---	---	---
MW-2	1/19/99	40.56	17.15	23.41	---	---	---	---	---	---	---		---	---	---	---	---
MW-2	4/23/99	40.56	16.89	23.67	---	---	---	---	---	---	---		---	---	---	---	---
MW-2	7/20/99	40.56	17.25	23.31	---	---	---	---	---	---	---		---	---	---	---	---
MW-2	12/30/99	40.56	17.44	23.12	---	---	---	---	---	---	---		---	---	---	---	---
MW-2	2/29/00	40.56	16.13	24.43	---	---	---	---	---	---	---		---	---	---	---	---
MW-2	4/14/00	40.56	16.88	23.68	---	---	---	---	---	---	---		---	---	---	---	---
MW-2	7/24/00	40.56	17.11	23.45	---	---	---	---	---	---	---		---	---	---	---	---
MW-2	10/30/00	40.56	17.12	23.44	---	---	---	---	---	---	---		---	---	---	---	---
MW-2	1/11/01	40.56	17.28	23.28	---	---	---	---	---	---	---		---	---	---	---	---
MW-2	5/17/01	40.56	17.20	23.36	---	---	---	---	---	---	---		---	---	---	---	---
MW-2	7/2/01	40.56	17.45	23.11	---	---	---	---	---	---	---		---	---	---	---	---
MW-2	11/2/01	40.56	17.62	22.94	---	---	---	---	---	---	---		---	---	---	---	---
MW-2	8/6/2002*	40.56	17.42	23.14	---	---	---	---	---	---	---		---	---	---	---	---
MW-2	10/16/02	40.56	17.74	22.82	---	---	---	---	---	---	---		---	---	---	---	---
MW-2	**1/13/03**	**40.56**	**16.74**	**23.82**	**---**	**---**	**---**	**---**	**---**	**---**	**---**		**---**	**---**	**---**	**---**	**---**

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Former BP Service Station #11107
18501 Hesperian Boulevard
San Lorenzo, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet) (a)	DTW (Feet)	GWE (Feet)	TPH-G (b) (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		TOG (ug/L)	1,1,1-TCA (ug/L)	PCE (ug/L)	DO (ppm)	LAB
MW-3	11/4/92	40.45	20.23	20.22	760	---	3.7	15	1.9	57	---	(j)	---	---	---	---	PACE
MW-3	2/24/94	40.45	20.24	20.21	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	30.66	(j)	---	---	---	---	PACE
MW-3	5/12/94	40.45	17.61	22.84	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.11	(j)	---	---	---	7.3	PACE
MW-3	9/9/94	40.45	21.22	19.23	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j)	---	---	---	2	PACE
MW-3	11/3/94	40.45	19.48	20.97	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10.98	(j)	---	---	---	3.6	PACE
MW-3	3/1/95	40.45	17.08	23.37	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---		---	---	---	1.9	ATI
MW-3	6/6/95	40.45	17.21	23.24	---	---	---	---	---	---	---		---	---	---	---	---
MW-3	9/1/95	40.45	17.69	22.76	200	---	2.7	33	7.2	43	ND<5.0		---	---	---	7.8	ATI
MW-3	9/1/95	40.45	18.29	22.16	---	---	---	---	---	---	---		---	---	---	---	---
MW-3	3/23/96	40.45	16.59	23.86	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10		---	---	---	7.3	SPL
MW-3	9/5/96	40.45	17.71	22.74	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	---	---	3.2	SPL
MW-3	3/11/97	40.45	17.17	23.28	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	---	---	1.5	SPL
MW-3	12/8/97	40.45	16.12	24.33	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	---	---	1.9	SPL
MW-3	7/8/98	40.45	16.40	24.05	---	---	---	---	---	---	---		---	---	---	---	---
MW-3	12/7/98	40.45	17.32	23.13	---	---	---	---	---	---	---		---	---	---	---	---
MW-3	1/19/99	40.45	17.30	23.15	---	---	---	---	---	---	---		---	---	---	---	---
MW-3	4/23/99	40.45	17.07	23.38	---	---	---	---	---	---	---		---	---	---	---	---
MW-3	7/20/99	40.45	17.47	22.98	---	---	---	---	---	---	---		---	---	---	---	---
MW-3	12/30/99	40.45	17.60	22.85	---	---	---	---	---	---	---		---	---	---	---	---
MW-3	2/29/00	40.45	16.43	24.02	---	---	---	---	---	---	---		---	---	---	---	---
MW-3	4/14/00	40.45	17.09	23.36	---	---	---	---	---	---	---		---	---	---	---	---
MW-3	7/24/00	40.45	17.44	23.01	---	---	---	---	---	---	---		---	---	---	---	---
MW-3	10/30/00	40.45	17.29	23.16	---	---	---	---	---	---	---		---	---	---	---	---
MW-3	1/11/01	40.45	17.49	22.96	---	---	---	---	---	---	---		---	---	---	---	---
MW-3	5/17/01	40.45	17.45	23.00	---	---	---	---	---	---	---		---	---	---	---	---
MW-3	7/2/01	40.45	17.70	22.75	---	---	---	---	---	---	---		---	---	---	---	---
MW-3	11/2/01	40.45	17.82	22.63	---	---	---	---	---	---	---		---	---	---	---	---
MW-3	8/6/2002*	40.45	17.62	22.83	---	---	---	---	---	---	---		---	---	---	---	---
MW-3	10/16/02	40.45	17.82	22.63	---	---	---	---	---	---	---		---	---	---	---	---
MW-3	**1/13/03**	**40.45**	**16.95**	**23.50**	**---**	**---**	**---**	**---**	**---**	**---**	**---**		**---**	**---**	**---**	**---**	**---**

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11107
18501 Hesperian Boulevard
San Lorenzo, CA

WELL ID		DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a)	DTW (Feet)	GWE (Feet)	(b)	TPH-G (ug/L)	TPH-D (ug/L)		B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		TOG (ug/L)	1,1,1-TCA (ug/L)	PCE (ug/L)	DO (ppm)	LAB
MW-4		11/4/92	39.24		19.18	20.06		900	---		150	4.1	0.8	53	---	(j)	---	---	---	---	PACE
MW-4		2/24/94	39.24		19.22	20.02		240	---		110	3.8	1.8	11	1433	(d)(j)	---	---	---	---	PACE
QC-1	(c)	2/24/94	---		---	---		310	---		95	5.3	2.2	17	1479	(d)(j)	---	---	---	---	PACE
MW-4		5/12/94	39.24		16.62	22.62		ND<50	---		2.2	1.0	ND<0.5	ND<0.5	862	(d)(j)	---	---	---	7.3	PACE
QC-1	(c)	5/12/94	---		---	---		430	---		2.6	1.3	ND<0.5	ND<0.5	912	(d)(j)	---	---	---	---	PACE
MW-4		9/9/94	39.24		20.27	18.97		240	---		9.1	1.3	0.6	2.5	397	(j)	---	---	---	2.2	PACE
QC-1	(c)	9/9/94	---		---	---		57	---		1.7	ND<0.5	ND<0.5	0.5	83	(j)	---	---	---	---	PACE
MW-4		11/3/94	39.24		18.46	20.78		250	---		3.1	2.8	1.0	3.3	319	(j)	---	---	---	3.2	PACE
QC-1	(c)	11/3/94	---		---	---		110	---		2.4	ND<0.5	ND<0.5	ND<0.5	642	(j)	---	---	---	---	PACE
MW-4		3/1/95	39.24		16.15	23.09		8900	---		1800	26	450	400	---		---	---	---	2.0	ATI
QC-1	(c)	3/1/95	---		---	---		7600	---		1700	25	410	370	---		---	---	---	---	ATI
MW-4		6/6/95	39.24		16.28	22.96		3100	---	(e)	530	25	170	85	---		---	---	---	---	ATI
QC-1	(c)	6/6/95	---		---	---		3000	---		530	27	170	92	---		---	---	---	---	ATI
MW-4	(f)	9/1/95	39.24		---	---		---	---		---	---	---	---	---		---	---	---	---	---
MW-4		11/29/95	39.24		17.31	21.93		ND<50	---		1.8	ND<0.50	ND<0.50	ND<1.0	440		---	---	---	3.2	ATI
QC-1	(c)	11/29/95	---		---	---		ND<50	---		1.5	ND<0.50	ND<0.50	ND<1.0	490		---	---	---	---	ATI
MW-4		3/23/96	39.24		15.74	23.50		2700	---		480	ND<25	180	176	13000		---	---	---	7.8	SPL
MW-4		9/5/96	39.24		16.75	22.49		1100	---		ND<12	ND<25	ND<25	ND<25	3200		---	---	---	4.0	SPL
MW-4		3/11/97	39.24		16.10	23.14		2400	---		46	ND<10	66	106	3400		---	---	---	4.0	SPL
MW-4		12/8/97	39.24		15.96	23.28		590	---		11	ND<1.0	ND<1.0	ND<1.0	1200		---	---	---	4.4	SPL
QC-1	(c)	12/8/97	---		---	---		620	---		11	ND<1.0	ND<1.0	ND<1.0	1100		---	---	---	---	SPL
MW-4		7/8/98	39.24		16.28	22.96		1700	---		ND<0.5	ND<1.0	ND<1.0	ND<1.0	1200		---	---	---	3.9	SPL
QC-1	(c)	7/8/98	---		---	---		1600	---		ND<0.5	ND<1.0	ND<1.0	ND<1.0	1100		---	---	---	---	SPL
MW-4		12/7/98	39.24		16.47	22.77		530	---		ND<2.5	ND<5.0	ND<5.0	ND<5.0	680/910	(h)	---	---	---	---	SPL
MW-4		1/19/99	39.24		16.40	22.84		570	---		ND<1.0	ND<1.0	ND<1.0	ND<1.0	660		---	---	---	---	SPL
MW-4		4/23/99	39.24		16.17	23.07		ND<50	---		ND<1.0	ND<1.0	1.8	1.3	1100/810	(h)	---	---	---	---	SPL
MW-4		7/20/99	39.24		16.39	22.85		ND<50	---		ND<1.0	ND<1.0	ND<1.0	ND<1.0	480		---	---	---	---	SPL
MW-4		12/30/99	39.24		16.56	22.68		ND<50	---		ND<0.5	ND<0.5	ND<0.5	ND<0.5	410		---	---	---	---	PACE
MW-4		2/29/00	39.24		15.69	23.55		78	---	(i)	2.0	ND<0.5	0.77	2.8	1200		---	---	---	---	PACE
MW-4		4/14/00	39.24		16.21	23.03		300	---		ND<0.5	ND<0.5	ND<0.5	ND<0.5	800		---	---	---	---	PACE
MW-4		7/24/00	39.24		16.50	22.74		130	---		ND<0.5	ND<0.5	ND<0.5	ND<0.5	270		---	---	---	---	PACE
MW-4		10/30/00	39.24		16.35	22.89		73	---		ND<0.5	ND<0.5	ND<0.5	ND<0.5	210		---	---	---	---	PACE
MW-4		1/11/01	39.24		16.46	22.78		120	---		ND<0.5	ND<0.5	ND<0.5	ND<0.5	176		---	---	---	---	PACE
MW-4		5/17/01	39.24		16.40	22.84		99	---		ND<0.5	ND<0.5	ND<0.5	ND<1.5	119		---	---	---	---	PACE
MW-4		7/2/01	39.24		16.75	22.49		63	---		ND<0.5	ND<0.5	ND<0.5	ND<1.5	87.6		---	---	---	---	PACE

Table 1
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Former BP Service Station #11107
18501 Hesperian Boulevard
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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet) (a)	DTW (Feet)	GWE (Feet)	TPH-G (b) (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	1,1,1-TCA (ug/L)	PCE (ug/L)	DO (ppm)	LAB
MW-4	11/2/01	39.24	16.80	22.44	56	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	49.6	---	---	---	---	PACE
MW-4	8/6/2002*	39.24	16.60	22.64	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	14.4	---	---	---	---	PACE
MW-4	10/16/02	39.24	16.86	22.38	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	16	---	---	---	---	SEQ
MW-4	**1/13/03**	**39.24**	**16.13**	**23.11**	**ND<50**	**---**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**21**	**---**	**---**	**---**	**---**	**SEQ**

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San Lorenzo, CA

WELL ID		DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a)	DTW (Feet)	GWE (Feet)	(b)	TPH-G (ug/L)	TPH-D (ug/L)		B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		TOG (ug/L)	1,1,1-TCA (ug/L)	PCE (ug/L)	DO (ppm)	LAB
MW-5		6/6/95	39.07		16.16	22.91		1100	---	(e)	42	ND<2.5	15	4.0	---		---	---	---	---	ATI
MW-5		9/1/95	39.07		16.63	22.44		1600	---		55	ND<2.5	15	8.0	1200		---	---	---	7.4	ATI
QC-1	(c)	9/1/95	---		---	---		1200	---		64	ND<2.5	14	3.1	---		---	---	---	---	ATI
MW-5		11/29/95	39.07		17.19	21.88		2300	---		140	4.0	36	11	1500		---	---	---	4.1	ATI
MW-5		3/23/96	39.07		15.54	23.53		90	---		2.8	ND<1	ND<1	ND<1	1500		---	---	---	7.5	SPL
MW-5		9/5/96	39.07		16.72	22.35		2300	---		5.1	ND<1.0	ND<1.0	ND<1.0	3300		---	---	---	3.2	SPL
QC-1	(c)	9/5/96	---		---	---		2000	---		4.9	ND<1.0	ND<1.0	ND<1.0	2900		---	---	---	---	SPL
MW-5		3/11/97	39.07		16.12	22.95		470	---		ND<5.0	ND<5.0	ND<5.0	ND<5.0	580		---	---	---	3.0	SPL
QC-1	(c)	3/11/97	---		---	---		460	---		ND<5.0	ND<5.0	ND<5.0	ND<5.0	540		---	---	---	---	SPL
MW-5		12/8/97	39.07		15.85	23.22		370	---		ND<0.5	ND<1.0	ND<1.0	ND<1.0	840		---	---	---	3.0	SPL
MW-5		7/8/98	39.07		16.11	22.96		430	---		ND<0.5	ND<1.0	ND<1.0	ND<1.0	330		---	---	---	2.5	SPL
MW-5		12/7/98	39.07		16.27	22.80		220	---		ND<0.5	ND<1.0	ND<1.0	ND<1.0	290/410	(h)	---	---	---	---	SPL
MW-5		1/19/99	39.07		16.31	22.76		490	---		ND<1.0	ND<1.0	ND<1.0	ND<1.0	490/440	(h)	---	---	---	---	SPL
MW-5		4/23/99	39.07		16.00	23.07		ND<50	---		ND<1.0	ND<1.0	ND<1.0	ND<1.0	310/210	(h)	---	---	---	---	SPL
MW-5		7/20/99	39.07		16.36	22.71		ND<50	---		ND<1.0	ND<1.0	ND<1.0	ND<1.0	470		---	---	---	---	SPL
MW-5		12/30/99	39.07		16.53	22.54		ND<50	---		ND<0.5	ND<0.5	ND<0.5	ND<0.5	550		---	---	---	---	PACE
MW-5		2/29/00	39.07		15.45	23.62		ND<50	---		ND<0.5	ND<0.5	ND<0.5	ND<0.5	280		---	---	---	---	PACE
MW-5		4/14/00	39.07		16.10	22.97		81	---		ND<0.5	ND<0.5	ND<0.5	ND<0.5	240		---	---	---	---	PACE
MW-5		7/24/00	39.07		16.50	22.57		250	---		ND<0.5	ND<0.5	ND<0.5	ND<0.5	570		---	---	---	---	PACE
MW-5		10/30/00	39.07		16.23	22.84		140	---		ND<0.5	0.7	ND<0.5	1.1	360		---	---	---	---	PACE
MW-5		1/11/01	39.07		16.41	22.66		420	---		ND<0.5	ND<0.5	ND<0.5	ND<0.5	585		---	---	---	---	PACE
MW-5		5/17/01	39.07		16.45	22.62		360	---		ND<0.5	ND<0.5	ND<0.5	ND<1.5	419		---	---	---	---	PACE
MW-5		7/2/01	39.07		16.65	22.42		210	---		ND<0.5	ND<0.5	ND<0.5	ND<1.5	264		---	---	---	---	PACE
MW-5		11/2/01	39.07		16.73	22.34		130	---		ND<0.5	ND<0.5	ND<0.5	ND<1.5	134		---	---	---	---	PACE
MW-5		8/6/2002*	39.07		16.57	22.50		ND<50	---		ND<0.5	ND<0.5	ND<0.5	ND<1.5	57.6		---	---	---	---	PACE
MW-5		10/16/02	39.07		16.73	22.34		ND<50	---		ND<0.50	ND<0.50	ND<0.50	ND<0.50	52		---	---	---	---	SEQ
MW-5		**1/13/03**	**39.07**		**16.01**	**23.06**		**58**	**---**		**1.2**	**ND<0.50**	**ND<0.50**	**1.4**	**30**		**---**	**---**	**---**	**---**	**SEQ**

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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet) (a)	DTW (Feet)	GWE (Feet)	TPH-G (b) (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	1,1,1-TCA (ug/L)	PCE (ug/L)	DO (ppm)	LAB
MW-6	3/1/95	38.46	15.66	22.80	270	---	11	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	1.6	ATI
MW-6	6/6/95	38.46	15.82	22.64	220	--- (e)	2.3	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	ATI
MW-6	9/1/95	38.46	16.25	22.21	780	---	ND<2.5	ND<2.5	ND<2.5	ND<5.0	2800	---	---	---	7.5	ATI
MW-6	11/29/95	38.46	16.80	21.66	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1100	---	---	---	3.9	ATI
MW-6	3/23/96	38.46	15.27	23.19	50	---	ND<0.5	ND<1	ND<1	ND<1	910	---	---	---	8.0	SPL
MW-6	9/5/96	38.46	16.30	22.16	4400	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	7400	---	---	---	3.0	SPL
MW-6	3/11/97	38.46	15.75	22.71	1100	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2000	---	---	---	3.1	SPL
MW-6	12/8/97	38.46	15.51	22.95	150	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	140	---	---	---	3.4	SPL
MW-6	7/8/98	38.46	15.78	22.68	370	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	250	---	---	---	3.6	SPL
MW-6	12/7/98	38.46	15.95	22.51	440	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	630/820 (h)	---	---	---	---	---
MW-6	1/19/99	38.46	15.97	22.49	950	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	950/810 (h)	---	---	---	---	SPL
MW-6	4/23/99	38.46	15.74	22.72	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	310/220 (h)	---	---	---	---	SPL
MW-6	7/20/99	38.46	16.12	22.34	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1300	---	---	---	---	SPL
MW-6	12/30/99	38.46	16.16	22.30	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	360	---	---	---	---	PACE
MW-6	2/29/00	38.46	15.08	23.38	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	340	---	---	---	---	PACE
MW-6	4/14/00	38.46	15.82	22.64	90	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	220	---	---	---	---	PACE
MW-6	7/24/00	38.46	16.03	22.43	240	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	540	---	---	---	---	PACE
MW-6	10/30/00	38.46	15.83	22.63	120	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	380	---	---	---	---	PACE
MW-6	1/11/01	38.46	16.00	22.46	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.69	---	---	---	---	PACE
MW-6	5/17/01	38.46	16.05	22.41	140	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	169	---	---	---	---	PACE
MW-6	7/2/01	38.46	16.27	22.19	70	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	91.4	---	---	---	---	PACE
MW-6	11/2/01	38.46	16.31	22.15	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	32.3	---	---	---	---	PACE
MW-6	8/6/2002*	38.46	16.14	22.32	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	6.73	---	---	---	---	PACE
MW-6	10/16/02	38.46	16.38	22.08	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.50	---	---	---	---	SEQ
MW-6	**1/13/03**	**38.46**	**15.66**	**22.80**	**ND<50**	**---**	**3.6**	**1.2**	**1.4**	**4.8**	**3.9**	**---**	**---**	**---**	**---**	**SEQ**

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Former BP Service Station #11107
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WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet) (a)	DTW (Feet)	GWE (Feet)	TPH-G (b) (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	1,1,1-TCA (ug/L)	PCE (ug/L)	DO (ppm)	LAB
MW-7	3/1/95	39.50	16.21	23.29	1400	---	14	ND<1.0	14	27	---	---	---	---	1.8	ATI
MW-7	6/6/95	39.50	16.34	23.16	540	--- (e)	5.5	ND<0.50	15	1.1	---	---	---	---	---	ATI
MW-7	9/1/95	39.50	16.74	22.76	190	---	2.8	ND<0.50	5.0	ND<1.0	10	---	---	---	7.5	ATI
MW-7	11/29/95	39.50	17.33	22.17	230	---	31	ND<0.50	3.8	1.9	ND<5.0	---	---	---	4.6	ATI
MW-7	3/23/96	39.50	15.86	23.64	ND<50	---	5.0	ND<1	ND<1	ND<1	330	---	---	---	7.2	SPL
QC-1 (c)	3/23/96	---	---	---	60	---	7.6	ND<1	ND<1	ND<1	360	---	---	---	---	SPL
MW-7	9/5/96	39.50	16.80	22.70	200	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	430	---	---	---	3.1	SPL
MW-7	3/11/97	39.50	18.32	21.18	120	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	140	---	---	---	4.7	SPL
MW-7	12/8/97	39.50	16.02	23.48	240	---	0.8	ND<1.0	ND<1.0	ND<1.0	200	---	---	---	5.2	SPL
MW-7	7/8/98	39.50	16.32	23.18	270	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	170	---	---	---	4.8	SPL
MW-7	12/7/98	39.50	16.43	23.07	100	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	120	---	---	---	---	SPL
MW-7	1/19/99	39.50	16.41	23.09	80	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	80	---	---	---	---	SPL
MW-7	4/23/99	39.50	16.21	23.29	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	20	---	---	---	---	SPL
MW-7	7/20/99	39.50	16.54	22.96	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	24	---	---	---	---	SPL
MW-7	12/30/99	39.50	16.65	22.85	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	12	---	---	---	---	PACE
MW-7	2/29/00	39.50	15.71	23.79	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.0	---	---	---	---	PACE
MW-7	4/14/00	39.50	16.25	23.25	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.0	---	---	---	---	PACE
MW-7	7/24/00	39.50	16.63	22.87	ND<50	---	1.1	0.5	ND<0.5	ND<0.5	3.1	---	---	---	---	PACE
MW-7	10/30/00	39.50	16.35	23.15	ND<50	---	ND<0.5	ND<0.5	ND<0.5	1.1	ND<0.5	---	---	---	---	PACE
MW-7	1/11/01	39.50	16.52	22.98	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
MW-7	5/17/01	39.50	16.58	22.92	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	---	---	---	---	PACE
MW-7	7/2/01	39.50	16.75	22.75	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	0.581	---	---	---	---	PACE
MW-7	11/2/01	39.50	16.89	22.61	---	---	---	---	---	---	---	---	---	---	---	PACE
MW-7	8/6/2002*	39.50	16.65	22.85	---	---	---	---	---	---	---	---	---	---	---	PACE
MW-7	10/16/02	39.50	16.86	22.64	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	**1/13/03**	**39.50**	**16.21**	**23.29**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**

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Former BP Service Station #11107
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WELL ID		DATE OF SAMPLING/ MONITORING	TOC (Feet)	(a)	DTW (Feet)	GWE (Feet)	(b)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		TOG (ug/L)	1,1,1-TCA (ug/L)	PCE (ug/L)	DO (ppm)	LAB
QC-2	(g)	11/4/92	---		---	---		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(j)	---	---	---	---	PACE
QC-2	(g)	11/4/92	---		---	---		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(j)	---	---	---	---	PACE
QC-2	(g)	2/24/94	---		---	---		---	---	---	---	---	---	ND<5.0	(j)	---	---	---	---	PACE
QC-2	(g)	3/1/95	---		---	---		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	---		---	---	---	---	PACE
QC-2	(g)	5/12/94	---		---	---		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j)	---	---	---	---	PACE
QC-2	(g)	9/9/94	---		---	---		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j)	---	---	---	---	PACE
QC-2	(g)	11/3/94	---		---	---		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j)	---	---	---	---	PACE
QC-2	(g)	6/6/95	---		---	---		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---		---	---	---	---	ATI
QC-2	(g)	9/1/95	---		---	---		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0		---	---	---	---	ATI
QC-2	(g)	11/29/95	---		---	---		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0		---	---	---	---	ATI
QC-2	(g)	3/23/96	---		---	---		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 #11107
18501 Hesperian Boulevard
San Lorenzo, CA

ADDITIONAL ANALYSES

WELL ID	DATE OF SAMPLING/ MONITORING	1,2-DCA by 8010 (ug/L)	EDB by 8010 (ug/L)	1,2-DCA by 8260 (ug/L)	EDB by 8260 (ug/L)	MTBE by 8260 (ug/L)	DIPE by 8260 (ug/L)	ETBE by 8260 (ug/L)	TBA by 8260 (ug/L)	TAME by 8260 (ug/L)	LAB
MW-4	7/20/99	ND<1.0	ND<1.0	ND<1.0	ND<1.0	590	ND<10	ND<5.0	ND<500	ND<5.0	SPL
MW-4	12/30/99	---	---	ND<5.0	ND<5.0	280	ND<5.0	ND<5.0	---	ND<5.0	PACE
MW-4	2/29/00	---	---	ND<20	ND<20	870	ND<20	ND<20	---	ND<20	PACE
MW-4	4/14/00	---	---	ND<10	ND<10	730	ND<10	ND<10	---	ND<10	PACE
MW-4	7/24/00	---	---	ND<1.0	ND<1.0	390	ND<5.0	ND<5.0	ND<50	ND<5.0	PACE
MW-4	10/30/00	---	---	ND<5.0	ND<5.0	160	ND<5.0	ND<5.0	ND<50	ND<5.0	PACE
MW-4	1/11/01	---	---	ND<1.0	ND<1.0	170	ND<1.0	ND<1.0	ND<10	ND<1.0	PACE
MW-4	5/17/01	---	---	ND<1.0	ND<1.0	91	ND<1.0	ND<1.0	ND<10	ND<1.0	PACE
MW-4	7/2/01	---	---	ND<1.0	ND<1.0	66	ND<1.0	ND<1.0	ND<10	ND<1.0	PACE
MW-5	7/20/99	---	---	---	---	490	ND<10	ND<10	ND<500	ND<10	SPL
MW-5	12/30/99	---	---	---	---	470	ND<10	ND<10	---	ND<10	PACE
MW-5	2/29/00	---	---	ND<5.0	ND<5.0	190	ND<5.0	ND<5.0	---	ND<5.0	PACE
MW-5	4/14/00	---	---	---	---	200	ND<5.0	ND<5.0	---	ND<5.0	PACE
MW-5	7/24/00	---	---	---	---	630	ND<5.0	ND<5.0	ND<50	ND<5.0	PACE
MW-5	10/30/00	---	---	---	---	260	ND<10	ND<10	ND<100	ND<10	PACE
MW-5	1/11/01	---	---	ND<1.0	ND<1.0	540	ND<1.0	ND<1.0	110	ND<1.0	PACE
MW-5	5/17/01	---	---	---	---	320	ND<1.0	ND<1.0	31	ND<1.0	PACE
MW-5	7/2/01	---	---	---	---	290	ND<1.0	ND<1.0	ND<10	ND<1.0	PACE
MW-6	7/20/99	---	---	---	---	1400	ND<10	ND<10	ND<500	ND<10	SPL
MW-6	12/30/99	---	---	---	---	300	ND<5.0	ND<5.0	---	ND<5.0	PACE
MW-6	2/29/00	---	---	ND<5.0	ND<5.0	240	ND<5.0	ND<5.0	---	ND<5.0	PACE
MW-6	4/14/00	---	---	---	---	200	ND<5.0	ND<5.0	---	ND<5.0	PACE
MW-6	7/24/00	---	---	---	---	600	ND<5.0	ND<5.0	62	ND<5.0	PACE
MW-6	10/30/00	---	---	---	---	260	ND<10	ND<10	ND<100	ND<10	PACE
MW-6	1/11/01	---	---	---	---	2.4	ND<1.0	ND<1.0	ND<10	ND<1.0	PACE
MW-6	5/17/01	---	---	---	---	130	ND<1.0	ND<1.0	ND<10	ND<1.0	PACE
MW-6	7/2/01	---	---	---	---	80	ND<1.0	ND<1.0	ND<10	ND<1.0	PACE

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11107
18501 Hesperian Boulevard
San Lorenzo, CA

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
MTBE	Methyl tert butyl ether
TOG	Total oil and grease
1,1,1-TCA	1,1,1-Trichloroethane
PCE	Tetrachloroethene
1,2-DCA	1,2-Dichloroethane
EDB	1,2-Bibromoethane
DIPE	Di-isopropyl Ether
ETBE	tert-Butyl Ethyl Ether
TBA	t-Butyl Alcohol
TAME	tert-Amyl Methyl Ether
DO	Dissolved oxygen
ug/L	Micrograms per liter
ppm	Parts per million
ND	Not detected above reported detection limit
---	Not measured/analyzed/applicable
PACE	Pace, Inc.
ATI	Analytical Technologies, Inc.
SPL	Southern Petroleum Laboratories
TOC	Top of Casing
DTW	Depth to Water
GWE	Groundwater Elevation

NOTES:

(a) Top of casing elevations surveyed relative to an established benchmark with an elevation of 39.95 feet above mean sea level.

(b) Groundwater elevations in feet above mean sea level.

(c) Blind duplicate.

(d) A copy of the documentation for this data is included in Appendix C of Alisto report 10-060-07-001.

(e) MTBE peak present. See documentation in Appendix C of Alisto report 10-060-07-001.

(f) Well inaccessible.

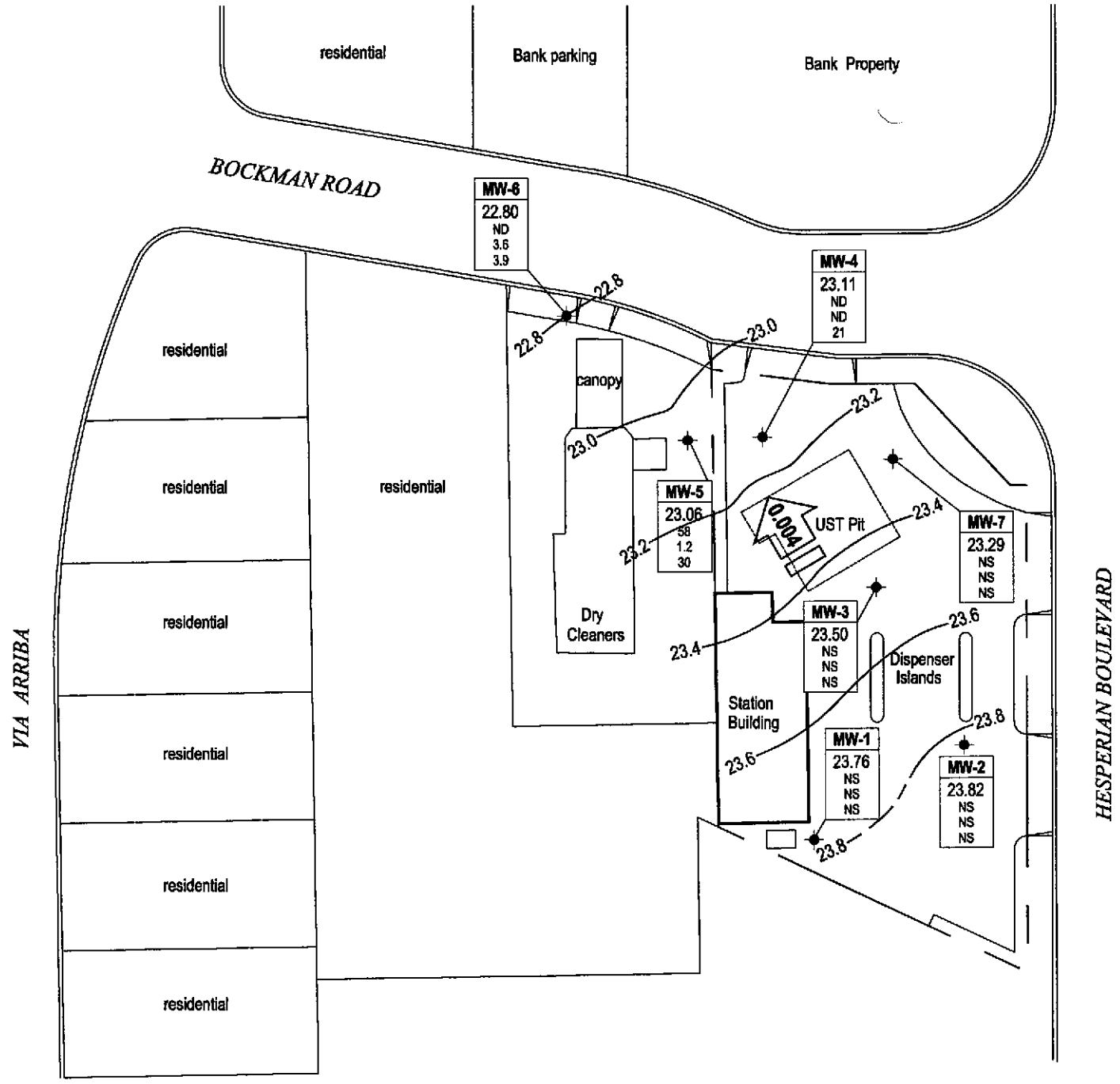
(g) Travel blank.

(h) MTBE by 8020/8260.

(i) Gasoline does not include MTBE.

(j) A copy of the documentation for this data is included in Blaine Tech Services report 010517-C-4. The MTBE data for the October 22 and 23, 1992 and November 4, 1992 sampling events have been destroyed.

* During the second quarter of 2002, URS Corporation assumed groundwater monitoring activities for BP. The data within this table collected prior to second quarter 2002 has not been verified by URS.



EXPLANATION

- Monitoring well location
- Well / ELEV / TPH-g / Benzene / MTBE — Well designation; Groundwater elevation; TPH-g, Benzene and MTBE concentrations in micrograms per liter (µg/L)
- ND — Not detected
- NS — Not sampled
- 0.004 — Approximate groundwater flow direction and gradient (feet/foot)
- 23.4 — Groundwater elevation contour line in feet above MSL, dashed where inferred

NORTH

0 60 120

SCALE IN FEET

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

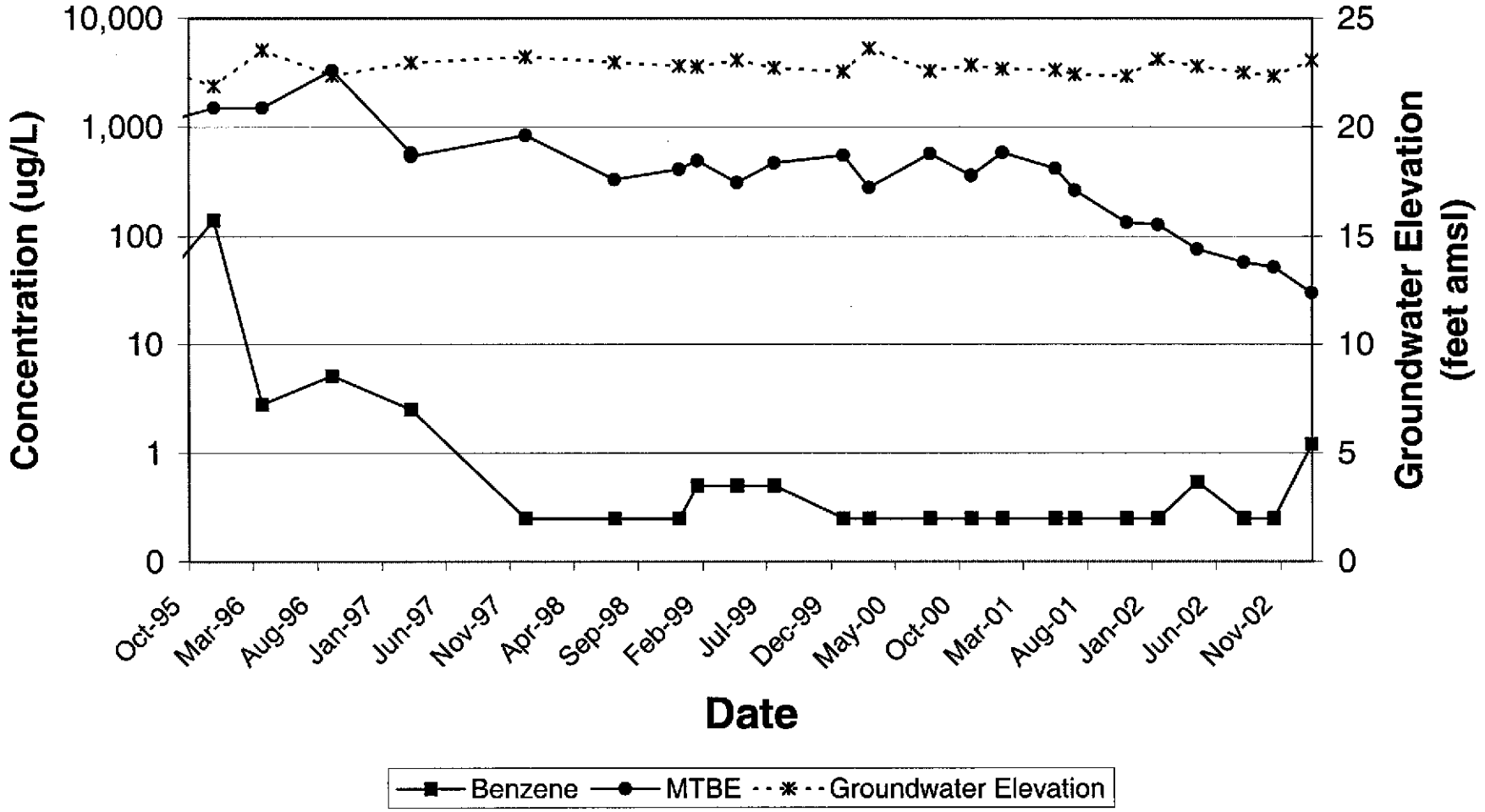
URS	Project No. 38486234 Former BP Service Station #11107 18501 Hesperian Boulevard San Lorenzo, California	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP First Quarter 2003 (January 13, 2003)	FIGURE 1

X:\x_env_waste\BP GEM\Sites\Niles Sites\111107\Reports\Monitoring\Qtr. 1, 2003\GWEC-AS_1-13.dwg

ATTACHMENT A

CONCENTRATION AND WATER LEVEL TRENDS

Concentration and Water Level Trends
Well MW-5



Former BP Service Station #11107
18501 Hesperian Blvd
San Lorenzo, CA

Graph 1

URS Corporation

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 # 030113-BA1 Date 1/13/03 Client BP #11107

Site 18501 HESPERIAN BLVD, SAN LORENZO

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	2					17.31	30.41	TOC	
MW2	2					16.74	24.77		
MW-3	2					16.95	24.83		
MW-4	2					16.13	25.00		
MW-5	2					16.01	22.37		
MW-6	2					15.66	24.90		
MW-7	2					16.21	24.26		

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030113-BA1	Station # 11107
Sampler: Brian Allord	Date: 1/13/03
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 25.00	Depth to Water: 16.13
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.

1.4 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 4.2 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
0932	66.5	6.9	798	1.5	cloudy brown
0935	67.1	6.7	793	3.0	clear
0938	67.4	6.7	794	4.5	"

Did well dewater? Yes (No) Gallons actually evacuated: 5

Sampling Time: 0940 Sampling Date: 1/13/03

Sample I.D.: MW-4 Laboratory: Pace (Sequoia) Other ___

Analyzed for: TPH-G BTEX (MTBE) TPH-D Other:

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030113-BA1	Station # 11107
Sampler: Brian Alcorn	Date: 1/13/03
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 22.37	Depth to Water: 16.01
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.

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

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
0950	65.7	6.9	785	1.0	clear
0952	66.9	6.8	794	2.0	"
0954	67.1	6.8	800	3.0	"

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

Sampling Time: 1000 Sampling Date: 1/13/03

Sample I.D.: MW-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 #: 030113-BA1	Station # 11107
Sampler: Brian Allcorn	Date: 1/13/03
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 24.90	Depth to Water: 15.66
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Purge Method: Bailer / Disposable Bailer / (Middleburg) / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: ___

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

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

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
0912	67.2	6.4	836	1.5	cloudy brown
0915	66.8	6.6	821	3.0	"
0918	67.2	6.5	817	4.5	clear

Did well dewater? Yes (No) Gallons actually evacuated: 5

Sampling Time: 0920 Sampling Date: 1/13/03

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

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

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

Chain of Custody Record

bp

Project Name
BP BU/GEM CO Portfolio:
BP Laboratory Contract Number:

Date: 1/13/03 **Requested Due Date (mm/dd/yy)** Standard

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

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

BP/GEM Facility No.:
BP/GEM Facility Address: 18501 HESPERIAN, SAN LORENZO, CA
Site ID No. 11107
Site Lat/Long:
California Global ID #: T0600101665
BP/GEM PM Contact: Scott Hooton
Address:
Tele/Fax:

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

Lab Bottle Order No:

Item No.	Sample Description	Time	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Sediments	Matrix: Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Preservatives:	Preservatives:	Requested Analysis: TPH-G / BTEX (8015 / 8021)	Requested Analysis: TPH –D (8015)	Requested Analysis: MTBE (8021)	Requested Analysis: MTBE, TAME, ETBE DIPE, TBA (8260)	Requested Analysis: 1,2-DCA & EDB (8260)	Requested Analysis:	Requested Analysis:	Requested Analysis:	Requested Analysis:	Requested Analysis:	Sample Point Lat/Long and Comments
1	MW-4	0940		X				3				X			X		X								
2	MW-5	1000		X				3				X			X		X								
3	MW-6	0920		X				3				X			X		X								
4																									
5																									
6																									
7																									
8																									
9																									
10																									

Sampler's Name: Brian Almeda
Sampler's Company: Blaine Tech Services
Shipment Date:
Shipment Method:
Shipment Tracking No:

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time

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

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

WELLHEAD INSPECTION CHECKLIST

Client BP #11107 Date 1/13/03

Site Address 18501 Hesperian Blvd, San Lorenzo

Job Number 030113-BA1 Technician Brian Allgood

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-1		X		X				
MW-2		X		X	X			
MW-3	X							
MW-4		X						
MW-5	X							
MW-6	~~X~~ No			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:

BP #11107

Station #

18501 Hesperian Blvd, San Lorenzo

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

13

added equip. rinse water 7

any other adjustments

TOTAL GALS. RECOVERED 20

loaded onto BTS vehicle # 14

BTS event #	time	date
030113-BA1	1015	1/13/03

signature

* *

REC'D AT	time	date
		/ /

unloaded by signature

ATTACHMENT C

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

LABORATORY PROCEDURES

Laboratory Procedures

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

Sequoia Analytical

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

10 February, 2003

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

RE: BP Heritage Site #11107, San Lorenzo, CA
Sequoia Work Order: MMA0313

Enclosed are the results of analyses for samples received by the laboratory on 01/14/03 10:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya K. Pelt

Latonya Pelt
Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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

URS Corporation	Project: BP Heritage Site #11107, San Lorenzo, CA	MMA0313
500 12th Street, Suite 100	Project Number: BP Heritage Site #11107, San Lorenzo,	**Reported:**
Oakland CA, 94607	Project Manager: Robert Horwath	02/10/03 09:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4	MMA0313-01	Water	01/13/03 09:40	01/14/03 10:45
MW-5	MMA0313-02	Water	01/13/03 10:00	01/14/03 10:45
MW-6	MMA0313-03	Water	01/13/03 09:20	01/14/03 10:45

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

Sequoia Analytical

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

URS Corporation	Project: BP Heritage Site #11107, San Lorenzo, CA	MMA0313
500 12th Street, Suite 100	Project Number: BP Heritage Site #11107, San Lorenzo,	**Reported:**
Oakland CA, 94607	Project Manager: Robert Horwath	02/10/03 09:49

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
MW-4 (MMA0313-01) Water Sampled: 01/13/03 09:40 Received: 01/14/03 10:45									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	3A27004	01/27/03	01/27/03	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**21**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.5 %*		*55-142*		"	"	"	
MW-5 (MMA0313-02) Water Sampled: 01/13/03 10:00 Received: 01/14/03 10:45									
Gasoline Range Organics (C6-C10)	**58**	50	ug/l	1	3A27003	01/27/03	01/27/03	8015Bm/8021B	HC-12
Benzene	**1.2**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	**1.4**	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**30**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*104 %*		*55-142*		"	"	"	
MW-6 (MMA0313-03) Water Sampled: 01/13/03 09:20 Received: 01/14/03 10:45									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	3A27003	01/27/03	01/27/03	8015Bm/8021B	
Benzene	**3.6**	0.50	"	"	"	"	"	"	
Toluene	**1.2**	0.50	"	"	"	"	"	"	
Ethylbenzene	**1.4**	0.50	"	"	"	"	"	"	
Xylenes (total)	**4.8**	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**3.9**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*99.1 %*		*55-142*		"	"	"	

Sequoia Analytical

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URS Corporation	Project: BP Heritage Site #11107, San Lorenzo, CA	MMA0313
500 12th Street, Suite 100	Project Number: BP Heritage Site #11107, San Lorenzo,	**Reported:**
Oakland CA, 94607	Project Manager: Robert Horwath	02/10/03 09:49

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 3A27003 - EPA 5030B [P/T]										
Blank (3A27003-BLK1)				Prepared & Analyzed: 01/27/03						
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: a,a,a-Trifluorotoluene	*8.56*		"	*10.0*		*85.6*	*55-142*			
Laboratory Control Sample (3A27003-BS1)				Prepared & Analyzed: 01/27/03						
Benzene	8.57	0.50	ug/l	10.0		85.7	68-140			
Toluene	8.93	0.50	"	10.0		89.3	76-127			
Ethylbenzene	9.35	0.50	"	10.0		93.5	77-130			
Xylenes (total)	27.6	0.50	"	30.0		92.0	78-128			
Surrogate: a,a,a-Trifluorotoluene	*9.10*		"	*10.0*		*91.0*	*55-142*			
Laboratory Control Sample (3A27003-BS2)				Prepared & Analyzed: 01/27/03						
Gasoline Range Organics (C6-C10)	248	50	ug/l	250		99.2	62-134			
Surrogate: a,a,a-Trifluorotoluene	*11.1*		"	*10.0*		*111*	*55-142*			
Matrix Spike (3A27003-MS1)		**Source: MMA0564-01**		Prepared & Analyzed: 01/27/03						
Gasoline Range Organics (C6-C10)	496	50	ug/l	550	ND	90.2	62-134			
Benzene	8.19	0.50	"	6.80	ND	119	68-140			
Toluene	36.9	0.50	"	41.0	ND	89.3	76-127			
Ethylbenzene	9.00	0.50	"	9.80	ND	91.8	77-130			
Xylenes (total)	42.9	0.50	"	47.9	ND	89.0	78-128			
Surrogate: a,a,a-Trifluorotoluene	*13.4*		"	*10.0*		*134*	*55-142*			
Matrix Spike Dup (3A27003-MSD1)		**Source: MMA0564-01**		Prepared & Analyzed: 01/27/03						
Gasoline Range Organics (C6-C10)	513	50	ug/l	550	ND	93.3	62-134	3.37	41	
Benzene	8.77	0.50	"	6.80	ND	128	68-140	6.84	30	

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URS Corporation	Project: BP Heritage Site #11107, San Lorenzo, CA	MMA0313
500 12th Street, Suite 100	Project Number: BP Heritage Site #11107, San Lorenzo,	**Reported:**
Oakland CA, 94607	Project Manager: Robert Horwath	02/10/03 09:49

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 3A27003 - EPA 5030B [P/T]										
Matrix Spike Dup (3A27003-MSD1)		**Source: MMA0564-01**		Prepared & Analyzed: 01/27/03						
Toluene	39.1	0.50	ug/l	41.0	ND	94.7	76-127	5.79	30	
Ethylbenzene	9.57	0.50	"	9.80	ND	97.7	77-130	6.14	21	
Xylenes (total)	45.9	0.50	"	47.9	ND	95.3	78-128	6.76	21	
Surrogate: a,a,a-Trifluorotoluene	*13.1*		"	*10.0*		*131*	*55-142*			
Batch 3A27004 - EPA 5030B [P/T]										
Blank (3A27004-BLK1)				Prepared & Analyzed: 01/27/03						
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: a,a,a-Trifluorotoluene	*9.43*		"	*10.0*		*94.3*	*55-142*			
Laboratory Control Sample (3A27004-BS1)				Prepared & Analyzed: 01/27/03						
Benzene	9.53	0.50	ug/l	10.0		95.3	68-140			
Toluene	9.59	0.50	"	10.0		95.9	76-127			
Ethylbenzene	9.91	0.50	"	10.0		99.1	77-130			
Xylenes (total)	30.1	0.50	"	30.0		100	78-128			
Surrogate: a,a,a-Trifluorotoluene	*9.79*		"	*10.0*		*97.9*	*55-142*			
Laboratory Control Sample (3A27004-BS2)				Prepared & Analyzed: 01/27/03						
Gasoline Range Organics (C6-C10)	282	50	ug/l	250		113	62-134			
Surrogate: a,a,a-Trifluorotoluene	*14.9*		"	*10.0*		*149*	*55-142*			*S-02*

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URS Corporation	Project: BP Heritage Site #11107, San Lorenzo, CA	MMA0313
500 12th Street, Suite 100	Project Number: BP Heritage Site #11107, San Lorenzo,	**Reported:**
Oakland CA, 94607	Project Manager: Robert Horwath	02/10/03 09:49

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 3A27004 - EPA 5030B [P/T]										
Matrix Spike (3A27004-MS1)		**Source: MMA0279-04**		Prepared & Analyzed: 01/27/03						
Gasoline Range Organics (C6-C10)	489	50	ug/l	550	ND	88.9	62-134			
Benzene	7.55	0.50	"	6.80	ND	111	68-140			Q-23
Toluene	41.1	0.50	"	41.0	ND	99.9	76-127			
Ethylbenzene	9.07	0.50	"	9.80	ND	92.6	77-130			
Xylenes (total)	45.3	0.50	"	47.9	ND	94.6	78-128			Q-23
Surrogate: a,a,a-Trifluorotoluene	*17.0*		"	*10.0*		*170*	*55-142*			*S-02*
Matrix Spike Dup (3A27004-MSD1)		**Source: MMA0279-04**		Prepared & Analyzed: 01/27/03						
Gasoline Range Organics (C6-C10)	505	50	ug/l	550	ND	91.8	62-134	3.22	41	
Benzene	7.60	0.50	"	6.80	ND	112	68-140	0.660	30	Q-23
Toluene	43.1	0.50	"	41.0	ND	105	76-127	4.75	30	
Ethylbenzene	9.13	0.50	"	9.80	ND	93.2	77-130	0.659	21	
Xylenes (total)	45.7	0.50	"	47.9	ND	95.4	78-128	0.879	21	Q-23
Surrogate: a,a,a-Trifluorotoluene	*16.4*		"	*10.0*		*164*	*55-142*			*QM-07*

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URS Corporation	Project: BP Heritage Site #11107, San Lorenzo, CA	MMA0313
500 12th Street, Suite 100	Project Number: BP Heritage Site #11107, San Lorenzo,	**Reported:**
Oakland CA, 94607	Project Manager: Robert Horwath	02/10/03 09:49

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.
Q-23	The closing calibration was outside acceptance limits by 1%. This should be considered in evaluating the result. The average % difference for all analytes met the 15% requirement and the QC suggests that calibration linearity is not a factor.
QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Chain of Custody Record

mmA0313

bp

Project Name
BP BU/GEM CO Portfolio:
BP Laboratory Contract Number:
Date: 1/13/03
Requested Due Date (mm/dd/yy) Standard

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: 18501 HESPERIAN, SAN LORENZO, CA	Address: 500 12th St., Ste. 200
Lab Address: 885 Jarvis Dr.	Site ID No. 11107	Oakland, CA 94609-4014
Morgan Hill, CA 95037	Site Lat/Long:	e-mail EDD: syed_rehan@urscorp.com
	California Global ID #: T0600101665	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 / 408-782-6308	Address:	Consultant/Contractor PM: Robert Horwath
Report Type & QC Level: Send EDF Reports		Invoice to: Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Account No.: 400-6-21124	Tele/Fax:	BP/GEM Work Release No:

Lab Bottle Order No:

Item No.	Sample Description	Time	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Sediments Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Requested Analysis: TPH-G / BTEX (8015 / 8021)	Requested Analysis: TPH-D (8015)	Requested Analysis: MTBE (8021)	Requested Analysis: MTBE, TAME, ETBE, DIPE, TBA (8260)	Requested Analysis: 1,2-DCA & EDB (8260)	Sample Point Lat/Long and Comments
1	MW-4	0940		X		01	3				X	X		X			
2	MW-5	1040		X		02	3				X	X		X			
3	MW-6	0920		X		03	3				X	X		X			
4																	
5																	
6																	
7																	
8																	
9																	
10																	

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: Brian Allcock		1/14/03	1003		1/14/03	1003
Sampler's Company: Blaine Tech Services		1/14/03	1045	Claudia Jensen	1-14-03	1045
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

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

Custody Seals In Place Yes ___ No X Temperature Blank Yes ___ No X Cooler Temperature on Receipt 3.8 °F/C Trip Blank Yes ___ No X

Distribution: White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS
REC. BY (PRINT): AS
WORKORDER: 1mA0313

DATE Received at Lab: 1-14-03
TIME Received at Lab: 1045
LOG IN DATE: 1-15-03

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 / (Absent)	1		MW-4	(3)VOAs HCl	L	1-13-03	Lot# B149040
	Intact / Broken*	2		MW-5	↓	↓	↓	
2. Chain-of-Custody	(Present) / Absent*	3		MW-6	↓	↓	↓	
3. Traffic Reports or Packing List:	Present / (Absent)							
4. Airbill:	Airbill / Sticker Present / (Absent)							
5. Airbill #:								
6. Sample Labels:	(Present) / Absent							
7. Sample IDs:	(Listed) / Not Listed on Chain-of-Custody							
8. Sample Condition:	(Intact) / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample labels agree?	(Yes) / No*							
10. Sample received within hold time:	(Yes) / No*							
11. Proper Preservatives used:	(Yes) / No*							
12. Temp Rec. at Lab: 3.8°C Is temp 4 +/-2°C?	(Yes) / No**							

(Acceptance range for samples requiring thermal pres.)

**Exception (if any): Metals / DFF on ice? / DFF no ice? or Problem COC

1-14-03 AS

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

Sample Receipt Log
Revision 2.3 (12/23/02)
Replaces Revision 2.1 (04/11/02)
Effective 12/24/02

ATTACHMENT D

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

03/03/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	BP Heritage Site #11107,
Work Order Number:	MMA0313
Global ID:	T0600101665
Lab Report Number:	MMA0313021020030949

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
MMA0313021020030949	MW-4	MMA031301	W	CS	SW8021F	SW5030B	01/13/03	01/27/03	01/27/03	3A27004	1	
MMA0313021020030949	MW-5	MMA031302	W	CS	SW8021F	SW5030B	01/13/03	01/27/03	01/27/03	3A27003	1	
MMA0313021020030949	MW-6	MMA031303	W	CS	SW8021F	SW5030B	01/13/03	01/27/03	01/27/03	3A27003	1	
		MMA027904	W	NC	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27004	1	
		MMA056401	W	NC	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27003	1	
		3A27003BS1	WQ	BS1	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27003	1	
		3A27003BS2	WQ	BS2	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27003	1	
		3A27003BLK1	WQ	LB1	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27003	1	
		3A27003MS1	W	MS1	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27003	1	
		3A27003MSD1	W	SD1	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27003	1	
		3A27004BS1	WQ	BS1	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27004	1	
		3A27004BS2	WQ	BS2	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27004	1	
		3A27004BLK1	WQ	LB1	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27004	1	
		3A27004MS1	W	MS1	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27004	1	
		3A27004MSD1	W	SD1	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27004	1	

EDFSAMP: Error Summary Log

03/03/03

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

EDFTEST: Error Summary Log

03/03/03

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

EDFRES: Error Summary Log

03/03/03

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	3A27003MS1	MS1	W	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	3A27003MS1	MS1	W	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	3A27003MSD1	SD1	W	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	3A27003MSD1	SD1	W	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	3A27004MS1	MS1	W	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	3A27004MS1	MS1	W	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	3A27004MSD1	SD1	W	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	3A27004MSD1	SD1	W	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	MMA027904	NC	W	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	MMA027904	NC	W	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	MMA031301	CS	W	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	MMA031301	CS	W	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	MMA031301	CS	W	SW8021F	PR	01/27/03	1	MTBE
Warning: extra parameter	MMA031302	CS	W	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	MMA031302	CS	W	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	MMA031302	CS	W	SW8021F	PR	01/27/03	1	MTBE
Warning: extra parameter	MMA031303	CS	W	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	MMA031303	CS	W	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	MMA031303	CS	W	SW8021F	PR	01/27/03	1	MTBE
Warning: extra parameter	MMA056401	NC	W	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	MMA056401	NC	W	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	3A27003BLK1	LB1	WQ	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	3A27003BLK1	LB1	WQ	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	3A27003BLK1	LB1	WQ	SW8021F	PR	01/27/03	1	MTBE
Warning: extra parameter	3A27003BS1	BS1	WQ	SW8021F	PR	01/27/03	1	AAATFBZME

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	3A27003BS2	BS2	WQ	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	3A27003BS2	BS2	WQ	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	3A27004BLK1	LB1	WQ	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	3A27004BLK1	LB1	WQ	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	3A27004BLK1	LB1	WQ	SW8021F	PR	01/27/03	1	MTBE
Warning: extra parameter	3A27004BS1	BS1	WQ	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	3A27004BS2	BS2	WQ	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	3A27004BS2	BS2	WQ	SW8021F	PR	01/27/03	1	GROC6C10

EDFQC: Error Summary Log

03/03/03

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

EDFCL: Error Summary Log

03/03/03

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

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Confirmation Number: 6018222093
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Facility Name: BP
Submittal Title: First Quarter 2003 Groundwater Monitoring Report Site #11107
Submittal Type: GW Monitoring Report

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Submittal Date/Time:	**3/3/2003 8:17:47 AM**
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