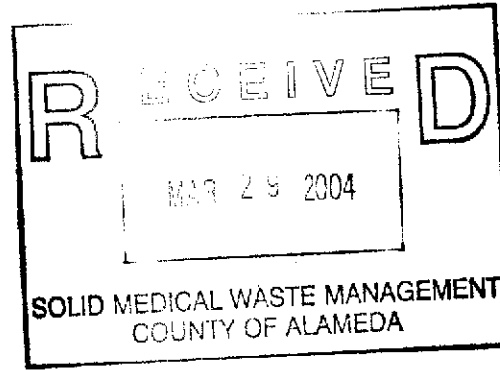


March 12, 2004

Ms. eva chu  
Alameda County Health Care Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577



**Re: First Quarter 2004 Groundwater Monitoring Report  
Former BP Service Station #11107  
18501 Hesperian Blvd  
San Lorenzo, California  
URS Project #38486807**

Dear Ms. Chu:

On behalf of the Atlantic Richfield Company (ARCO – a BP affiliated company), URS Corporation (URS) is submitting the *First Quarter 2004 Groundwater Monitoring Report* for the Former BP Service Station #11107, located at 18501 Hesperian Boulevard, San Lorenzo, California.

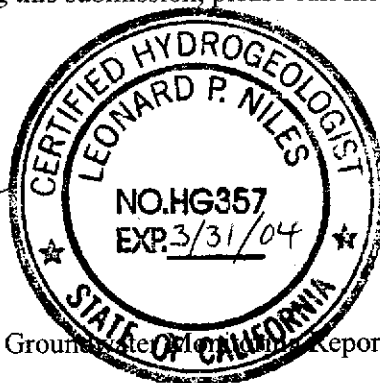
Based on the low hydrocarbon and MTBE concentrations, URS recommends this Site be considered for closure. URS requests a response to the April 23, 2003 letter from BP/ARCO to Alameda County Health Care Services requesting case closure. In the interim, URS proposes reduction of the monitoring and sampling frequency to a semi-annual basis during the first and third quarters.

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/Project Manager



Enclosure: First Quarter 2004 Groundwater Monitoring Report

cc: Mr. Paul Supple, ARCO, (electronic copy uploaded to ENFOS)  
Ms. Liz Sewell, ConocoPhillips, 76 Broadway, Sacramento, CA 95818  
Mr. Ron Gehrke, 19231 Lake Chabot Road, Castro Valley, CA 94546

**R E P O R T**

**FIRST QUARTER 2004  
GROUNDWATER MONITORING**

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

*Prepared for*  
Atlantic Richfield Company

March 12, 2004

**URS**

URS Corporation  
500 12<sup>th</sup> Street, Suite 200  
Oakland, California 94607

38486807

Date: March 12, 2004  
 Quarter: 1Q 04

## BP GEM QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 11107 Address: 18501 Hesperian Blvd, San Lorenzo, CA  
 BP Environmental Engineer: Paul Supple  
 Consulting Co./Contact Person: URS Corporation / Leonard Niles  
 Consultant Project No.: 38486807  
 Primary Agency/Regulatory ID No.: Alameda County Health Care Services / STID 780

### WORK PERFORMED THIS QUARTER (First – 2004):

1. Performed first quarter groundwater monitoring event on February 11, 2004.
2. Prepared and submitted first quarter 2004 groundwater monitoring report.
3. Performed repair work on monitoring well MW-6 on January 9, 2004.

### WORK PROPOSED FOR NEXT QUARTER (Second – 2004):

1. Perform second quarter 2004 groundwater monitoring event.
2. Prepare and submit second quarter 2004 groundwater monitoring report.

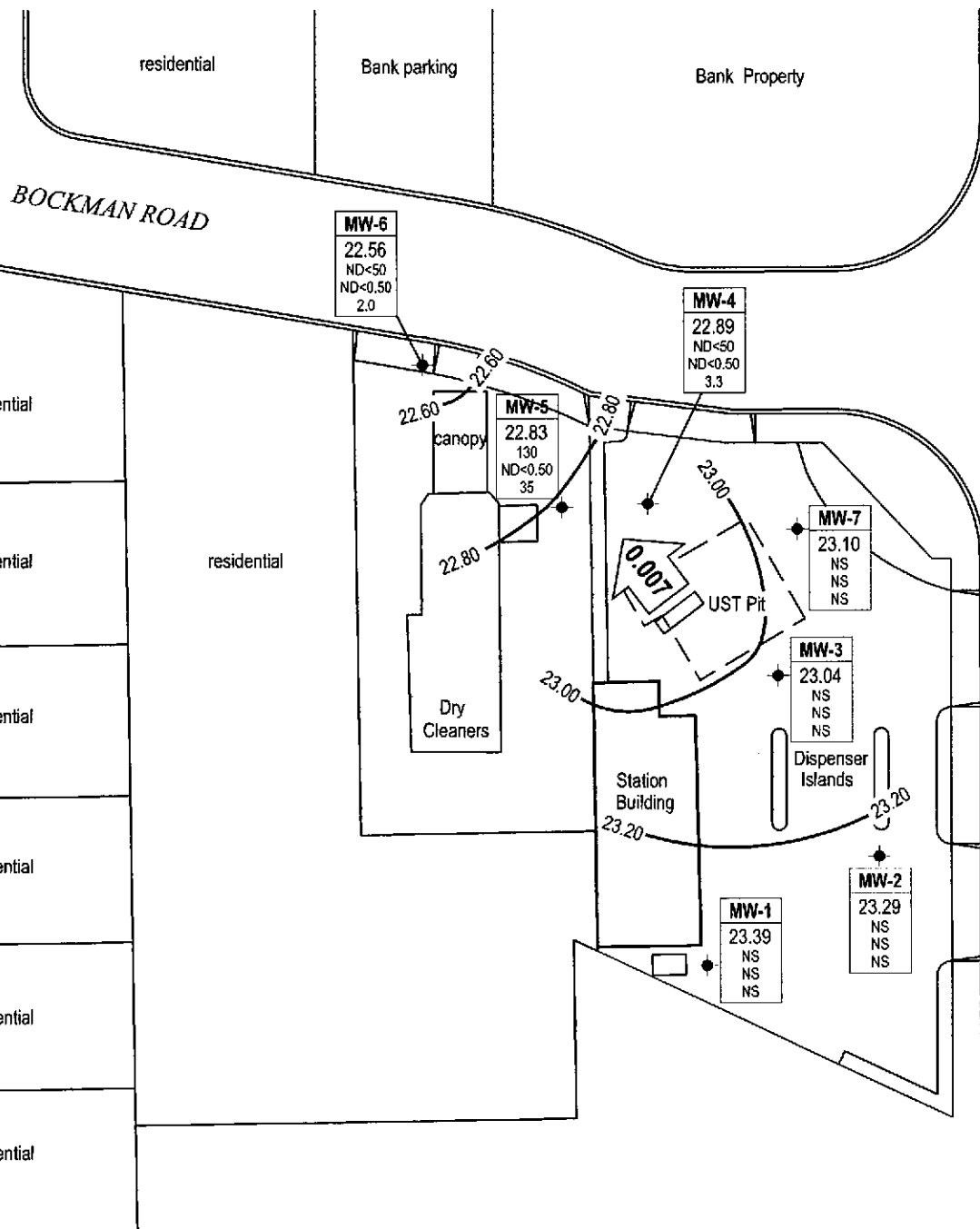
Current Phase of Project: GW monitoring/sampling  
 Frequency of Groundwater Sampling: Wells MW-4 through MW-6, quarterly  
 Frequency of Groundwater Monitoring: Quarterly  
 Is Free Product (FP) Present On-Site: No  
 Current Remediation Techniques: Monitored Natural Attenuation  
 Approximate Depth to Groundwater: 15.90 (MW-6) to 17.68 (MW-1) feet  
 Groundwater Gradient (direction): West-Northwest  
 Groundwater Gradient (magnitude): 0.003 feet per foot

### DISCUSSION:

GRO was detected above the laboratory reporting limit in one of the three wells sampled this quarter at a concentration of 130 micrograms per liter ( $\mu\text{g/L}$ ) (MW-5). Benzene was not detected above the laboratory reporting limit in any of the wells sampled this quarter. MTBE was detected above the laboratory reporting limit in all three wells sampled this quarter at concentrations of 2.0  $\mu\text{g/L}$  (MW-6), 3.3  $\mu\text{g/L}$  (MW-4) and 35  $\mu\text{g/L}$  (MW-5). No other fuel oxygenates were detected above the respective laboratory reporting limit. The groundwater flow direction was to the west-northwest at a calculated hydraulic gradient of 0.003 feet per foot.

### ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – February 11, 2004
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Groundwater Direction and Gradient
- Table 3 – Fuel Oxygenate Analytical Data
- 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



VIA ARRIBA

HESPERIAN BOULEVARD

BOCKMAN ROAD

residential Bank parking Bank Property

residential  
residential  
residential  
residential  
residential  
residential

MW-6  
22.56  
ND<50  
ND<0.50  
2.0

MW-4  
22.89  
ND<50  
ND<0.50  
3.3

MW-5  
22.83  
130  
ND<0.50  
35

MW-7  
23.10  
NS  
NS  
NS

MW-3  
23.04  
NS  
NS  
NS

MW-1  
23.39  
NS  
NS  
NS

MW-2  
23.29  
NS  
NS  
NS

22.60

22.80

22.80

22.80

23.00

23.00

23.20

23.20

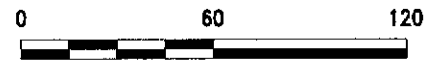
23.20

**EXPLANATION**

- ◆ Monitoring well location
- Well — Well designation
- ELEV — Groundwater elevation
- GRO — GRO, Benzene and MTBE concentrations in micrograms per liter (µg/L)
- ND< — Not detected
- NS — Not sampled
- ←0.003 — Approximate groundwater flow direction and gradient (feet/foot)
- 22.60 — Groundwater elevation contour line (feet above MSL)



NORTH



SCALE IN FEET

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

\*Please note that beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as Gasoline (TPHg) has been changed to Gasoline Range Organics (GRO). The resulting data may be impacted by the potential inclusion of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported.\*



Project No. 38486807  
Former BP Service Station #11107  
18501 Hesperian Boulevard  
San Lorenzo, California

**GROUNDWATER ELEVATION CONTOUR  
AND ANALYTICAL SUMMARY MAP**  
First Quarter 2004 (February 11, 2004)

FIGURE  
1

**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 (a) (Feet)	DTW (Feet)	GWE (b) (Feet)	GRO/TPH-G <sup>1</sup> (µg/L)	TPH-D (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)	1,1,1-TCA (µg/L)	PCE (µg/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<0.50	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	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	5/2/03	41.07	17.55	23.52	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	07/11/03 <sup>k</sup>	41.07	17.80	23.27	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	10/1/03	41.07	18.13	22.94	---	---	---	---	---	---	---	---	---	---	---	---
<b>MW-1</b>	<b>2/11/04</b>	<b>41.07</b>	<b>17.68</b>	<b>23.39</b>	---	---	---	---	---	---	---	---	---	---	---	---

**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 (a) (Feet)	DTW (Feet)	GWE (b) (Feet)	GRO/TPH-G <sup>1</sup> (µg/L)	TPH-D (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)	1,1,1-TCA (µg/L)	PCE (µg/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	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	5/2/03	40.56	17.00	23.56	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	07/11/03 <sup>k</sup>	40.56	17.29	23.27	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	10/1/03	40.56	17.59	22.97	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	2/11/04	40.56	17.27	23.29	---	---	---	---	---	---	---	---	---	---	---	---	---

**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 (a) (Feet)	DTW (Feet)	GWE (b) (Feet)	GRO/TPH-G <sup>1</sup> (µg/L)	TPH-D (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)	1,1,1-TCA (µg/L)	PCE (µg/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	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	5/2/03	40.45	17.26	23.19	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	07/11/03 <sup>k</sup>	40.45	17.44	23.01	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	10/1/03	40.45	17.72	22.73	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	2/11/04	40.45	17.41	23.04	---	---	---	---	---	---	---	---	---	---	---	---

**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 (a) (Feet)	DTW (Feet)	GWE (b) (Feet)	GRO/TPH-G <sup>1</sup> (µg/L)	TPH-D (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)	1,1,1-TCA (µg/L)	PCE (µg/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
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



**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 (a) (Feet)	DTW (Feet)	GWE (b) (Feet)	GRO/ TPH-G <sup>1</sup> (µg/L)	TPH-D (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)	1,1,1-TCA (µg/L)	PCE (µg/L)	DO (ppm)	LAB
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
MW-4	5/2/03	39.24	16.38	22.86	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7.2	--	--	--	--	SEQ
MW-4	07/11/03 <sup>k</sup>	39.24	16.50	22.74	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.0	--	--	--	--	SEQ
MW-4	10/1/03	39.24	16.75	22.49	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.1	--	--	--	--	SEQ
<b>MW-4</b>	<b>2/11/04</b>	<b>39.24</b>	<b>16.35</b>	<b>22.89</b>	<b>ND&lt;50</b>	<b>--</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>3.3</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>SEQ</b>

**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 (a) (Feet)	DTW (Feet)	GWE (b) (Feet)	GRO/TPH-G <sup>1</sup> (µg/L)	TPH-D (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)	1,1,1-TCA (µg/L)	PCE (µg/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
MW-5	5/2/03	39.07	16.27	22.80	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	17	---	---	---	---	SEQ
MW-5	07/11/03 <sup>k</sup>	39.07	16.42	22.65	58	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	19	---	---	---	---	SEQ
MW-5	10/1/03	39.07	16.65	22.42	71	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	17	---	---	---	---	SEQ
MW-5	2/11/04	<b>39.22</b> (m)	<b>16.39</b>	<b>22.83</b>	<b>130</b>	---	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>35</b>	---	---	---	---	<b>SEQ</b>

**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 (a) (Feet)	DTW (Feet)	GWE (b) (Feet)	GRO/TPH-G <sup>1</sup> (µg/L)	TPH-D (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)	1,1,1-TCA (µg/L)	PCE (µg/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
MW-6	5/2/03	38.46	15.89	22.57	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	12	---	---	---	---	SEQ
MW-6	07/11/03 <sup>k</sup>	38.46	16.03	22.43	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	17	---	---	---	---	SEQ
MW-6	10/1/03	38.46	16.27	22.19	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.5	---	---	---	---	SEQ
MW-6	2/11/04	38.46	15.90	22.56	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.0	---	---	---	---	SEQ

**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 (a) (Feet)	DTW (Feet)	GWE (b) (Feet)	GRO/ TPH-G <sup>1</sup> (µg/L)	TPH-D (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)	1,1,1-TCA (µg/L)	PCE (µg/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	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	5/2/03	39.50	16.37	23.13	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	07/11/03 <sup>k</sup>	39.50	16.55	22.95	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	10/1/03	39.50	16.82	22.68	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	2/11/04	39.50	16.40	23.10	---	---	---	---	---	---	---	---	---	---	---	---

**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 (a) (Feet)	DTW (Feet)	GWE (b) (Feet)	GRO/TPH-G <sup>1</sup> (µg/L)	TPH-D (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)	1,1,1-TCA (µg/L)	PCE (µg/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	---	-22.80	---	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

ABBREVIATIONS:

GRO	Gasoline Range Organics
TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
TOC	Top of Casing
DTW	Depth to Water
GWE	Groundwater Elevation
MTBE	Methyl tert butyl ether
TOG	Total oil and grease
1,1,1-TCA	1,1,1-Trichloroethane
PCE	Tetrachloroethene
DO	Dissolved oxygen
ug/L	Micrograms per liter
ppm	Parts per million
ND<	Not detected at or above reported detection limit
—	Not measured/sampled/ analyzed/applicable
PACE	Pace, Inc.
ATI	Analytical Technologies, Inc.
SPL	Southern Petroleum Laboratories
SEQ	Sequoia Analytical Laboratories

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 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.
  - (k) Beginning with the third quarter 2003 sampling event (7/11/03), groundwater samples were analyzed by EPA method 8260B for TPH-g, BTEX and fuel oxygenates.
  - (l) Please note that beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as Gasoline (TPH-G) has been changed to Gasoline Range Organics (GRO). The resulting data may be impacted by the potential inclusion of non-TPH-G analytes within the requested fuel range resulting in a higher concentration being reported.
  - (m) TOC raised by +0.15 feet during well repair on January 9, 2004.
- \* During the second quarter of 2002, URS Corporation assumed groundwater monitoring activities for Atlantic Richfield Company.

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

**Table 2**  
**Groundwater Direction and Gradient**  
Former BP Service Station #11107  
18501 Hesperian Boulevard  
San Lorenzo, CA

Date	Direction	Gradient (ft/ft)
8/6/02	Northwest	0.004
10/16/02	West-Northwest	0.003
1/13/03	Northwest	0.004
5/2/03	Northwest	0.004
7/11/03	West-Northwest	0.004
10/1/03	West-Northwest	0.004
2/11/04	West-Northwest	0.003

**Table 3**  
**Fuel Oxygenate Analytical Data**  
Former BP Service Station #11107  
18501 Hesperian Boulevard  
San Lorenzo, CA

WELL ID	DATE OF SAMPLING	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	LAB
MW-4	7/20/99	---	ND<500	590	ND<10	ND<5.0	ND<5.0	ND<1.0	ND<1.0	SPL
MW-4	12/30/99	---	---	280	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	PACE
MW-4	2/29/00	---	---	870	ND<20	ND<20	ND<20	ND<20	ND<20	PACE
MW-4	4/14/00	---	---	730	ND<10	ND<10	ND<10	ND<10	ND<10	PACE
MW-4	7/24/00	---	ND<50	390	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<1.0	PACE
MW-4	10/30/00	---	ND<50	160	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	PACE
MW-4	1/11/01	---	ND<10	170	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	PACE
MW-4	5/17/01	---	ND<10	91	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	PACE
MW-4	7/2/01	---	ND<10	66	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	PACE
MW-4	7/11/03	ND<100	ND<20	2.0	ND<0.50	ND<0.50	ND<0.50	---	---	SEQ
MW-4	10/1/03	ND<100	ND<20	3.1	ND<0.50	ND<0.50	ND<0.50	---	---	SEQ
<b>MW-4</b>	<b>2/11/04</b>	<b>ND&lt;100</b>	<b>ND&lt;20</b>	<b>3.3</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>SEQ</b>
MW-5	7/20/99	---	ND<500	490	ND<10	ND<10	ND<10	---	---	SPL
MW-5	12/30/99	---	---	470	ND<10	ND<10	ND<10	---	---	PACE
MW-5	2/29/00	---	---	190	ND<5.0	ND<5.0	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	---	ND<50	630	ND<5.0	ND<5.0	ND<5.0	---	---	PACE
MW-5	10/30/00	---	ND<100	260	ND<10	ND<10	ND<10	---	---	PACE
MW-5	1/11/01	---	110	540	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	PACE
MW-5	5/17/01	---	31	320	ND<1.0	ND<1.0	ND<1.0	---	---	PACE
MW-5	7/2/01	---	ND<10	290	ND<1.0	ND<1.0	ND<1.0	---	---	PACE
MW-5	7/11/03	ND<100	ND<20	19	ND<0.50	ND<0.50	ND<0.50	---	---	SEQ
MW-5	10/1/03	ND<100	ND<20	17	ND<0.50	ND<0.50	ND<0.50	---	---	SEQ
<b>MW-5</b>	<b>2/11/04</b>	<b>ND&lt;100</b>	<b>ND&lt;20</b>	<b>35</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>SEQ</b>
MW-6	7/20/99	---	ND<500	1400	ND<10	ND<10	ND<10	---	---	SPL
MW-6	12/30/99	---	---	300	ND<5.0	ND<5.0	ND<5.0	---	---	PACE
MW-6	2/29/00	---	---	240	ND<5.0	ND<5.0	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	---	62	600	ND<5.0	ND<5.0	ND<5.0	---	---	PACE
MW-6	10/30/00	---	ND<100	260	ND<10	ND<10	ND<10	---	---	PACE
MW-6	1/11/01	---	ND<10	2.4	ND<1.0	ND<1.0	ND<1.0	---	---	PACE
MW-6	5/17/01	---	ND<10	130	ND<1.0	ND<1.0	ND<1.0	---	---	PACE
MW-6	7/2/01	---	ND<10	80	ND<1.0	ND<1.0	ND<1.0	---	---	PACE



**Table 3**  
**Fuel Oxygenate Analytical Data**  
 Former BP Service Station #11107  
 18501 Hesperian Boulevard  
 San Lorenzo, CA

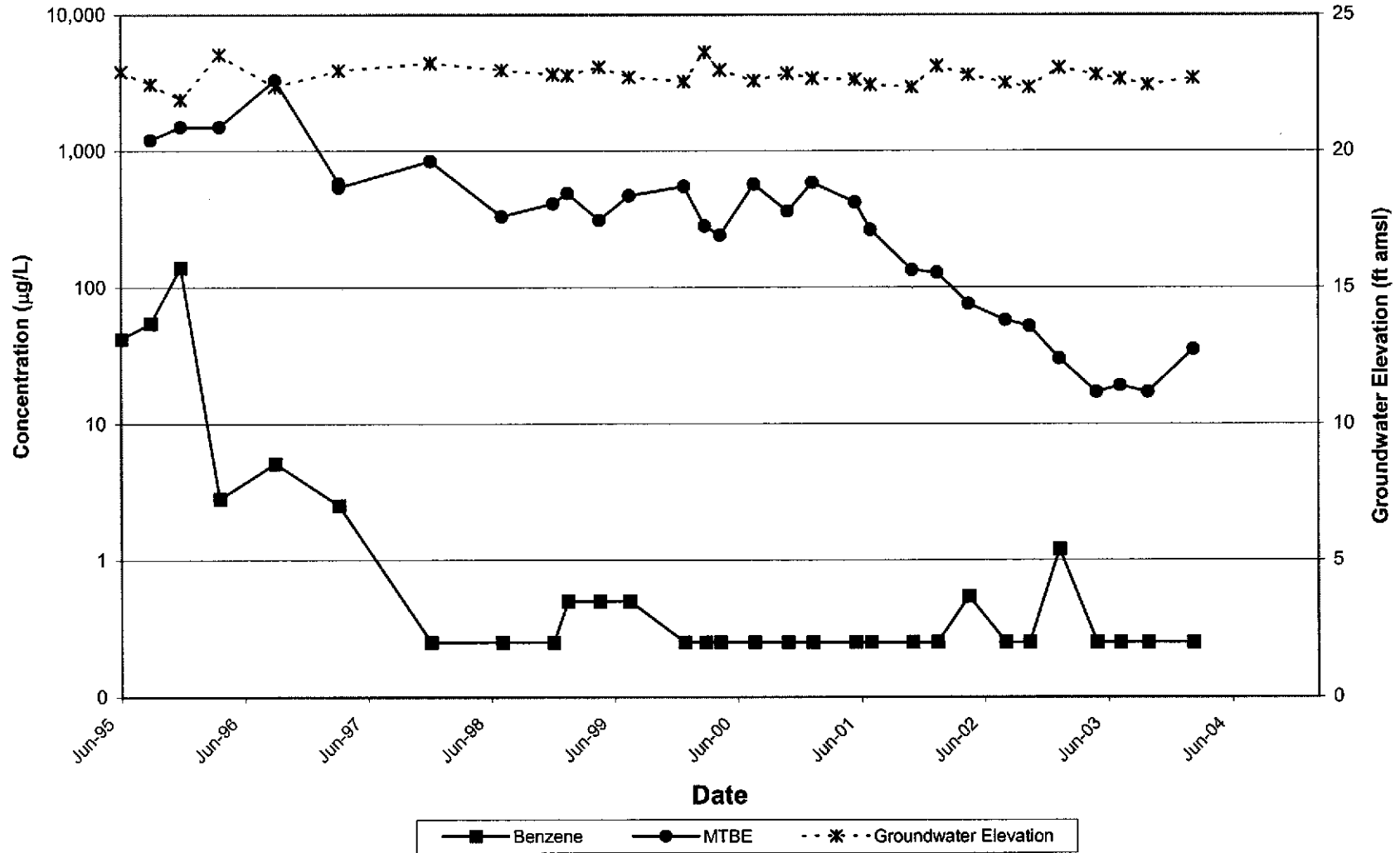
WELL ID	DATE OF SAMPLING	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	LAB
MW-6	7/11/03	ND<100	ND<20	17	ND<0.50	ND<0.50	ND<0.50	---	---	SEQ
MW-6	10/1/03	ND<100	ND<20	3.5	ND<0.50	ND<0.50	ND<0.50	---	---	SEQ
MW-6	2/11/04	ND<100	ND<20	2.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	SEQ

Note = All fuel oxygenate compounds analyzed using EPA Method 8260B  
 TBA = tert-Butyl alcohol  
 MTBE = Methyl tert-butyl ether  
 DIPE = Di-isopropyl ether  
 ETBE = Ethyl tert butyl ether  
 TAME = tert-Amyl methyl ether  
 1,2-DCA = 1,2-Dichloroethane  
 EDB = 1,2-Dibromoethane  
 µg/L = micrograms per liter  
 ND< = Not detected at or above the laboratory reporting limit  
 --- = Not sampled or analyzed  
 PACE = Pace, Inc.  
 SPL = Southern Petroleum Laboratories  
 SEQ = Sequioa Analytical Laboratories

Source: The data within this table collected prior to July 2003 was provided to URS by Atlantic Richfield Company and their previous consultants. URS has not verified the accuracy of this information.

**ATTACHMENT A**  
**CONCENTRATION AND WATER LEVEL TRENDS**  
**(MW-5)**

## Concentration and Water Level Trends Well MW-5



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

**Graph 1**

**ATTACHMENT B**

**FIELD PROCEDURES AND FIELD DATA SHEETS**

## **FIELD PROCEDURES**

---

### **Sampling Procedures**

The sampling procedure for each well consists first of measuring the water level and depth to bottom, and checking for the presence of free phase petroleum product (free product), using either an electronic indicator and a clear Teflon™ bailer or an oil-water interface probe.

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

## WELL GAUGING DATA

Project # 040211-ACZ Date 2/11/04 Client 11107

Site 18501 Hesperian 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 <del>TOC</del>		
MW-1	2					17.68	30.73	TOC	90	
MW-2	2					17.27	24.88	↓	90	
MW-3	2					17.41	24.84		90	
MW-4	2					16.35	25.14			
MW-5	2					16.39	22.68			
MW-6	2					15.90	25.08			
MW-7	2					16.40	24.54		↓	90

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>0A0211-Ac1</u>	Station # <u>11107</u>
Sampler: <u>Ac</u>	Date: <u>2/11/04</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>②</u> 3 4 6 8 <u>    </u>
Total Well Depth: <u>25.4</u>	Depth to Water: <u>16.35</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 <sup>2</sup> * 0.163

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

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

<u>1.5</u>	x	<u>3</u>	=	<u>4.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u> )	Gals. Removed	Observations
<u>1408</u>	<u>65.6</u>	<u>7.0</u>	<u>881</u>	<u>1.5</u>	<u>cloudy</u>
<u>1411</u>	<u>66.2</u>	<u>7.0</u>	<u>714</u>	<u>3</u>	<u>"</u>
<u>1413</u>	<u>68.9</u>	<u>6.9</u>	<u>720</u>	<u>4.5</u>	<u>"</u>

Did well dewater? Yes <u>No</u>	Gallons actually evacuated: <u>4.5</u>
Sampling Time: <u>1415</u>	Sampling Date: <u>2/11/04</u>

Sample I.D.: <u>MW-4</u>	Laboratory: Pace <u>Sequoia</u> Other _____
--------------------------	---

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See C.O.C.

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>0A0211-Ac1</u>	Station # <u>11107</u>
Sampler: <u>Ac</u>	Date: <u>2/11/04</u>
Well I.D.: <u>MW-5</u>	Well Diameter: <u>2</u> 3 4 6 8 <u>    </u>
Total Well Depth: <u>22.68</u>	Depth to Water: <u>16.39</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 <sup>2</sup> * 0.163

Purge Method: Bailer      Sampling Method: Bailer  
Disposable Bailer      Disposable Bailer  
Middleburg      Extraction Port  
 Electric Submersible      Other: \_\_\_\_\_  
 Extraction Pump

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>1</u>	x	<u>3</u>	=	<u>4</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u> )	Gals. Removed	Observations
<u>1428</u>	<u>66.5</u>	<u>6.8</u>	<u>701</u>	<u>1</u>	<u>cloudy</u>
<u>1430</u>	<u>66.9</u>	<u>6.8</u>	<u>710</u>	<u>2</u>	<u>"</u>
<u>1432</u>	<u>67.8</u>	<u>6.8</u>	<u>712</u>	<u>3</u>	<u>"</u>

Did well dewater? Yes No      Gallons actually evacuated: 3

Sampling Time: 1435      Sampling Date: 2/11/04

Sample I.D.: MW-5      Laboratory: Pace Sequoia Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See C.O.C.

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>040211-AC1</u>	Station # <u>11107</u>
Sampler: <u>Ac</u>	Date: <u>2/11/04</u>
Well I.D.: <u>MW-6</u>	Well Diameter: <u>②</u> 3 4 6 8 <u>    </u>
Total Well Depth: <u>25.08</u>	Depth to Water: <u>15.90</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 <sup>2</sup> * 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>1.5</u>	X	<u>3</u>	=	<u>4.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u> )	Gals. Removed	Observations
<u>1442</u>	<u>65.2</u>	<u>7.0</u>	<u>759</u>	<u>1.5</u>	<u>Cloudy</u>
<u>1445</u>	<u>65.0</u>	<u>6.9</u>	<u>728</u>	<u>3</u>	"
<u>1448</u>	<u>65.7</u>	<u>6.9</u>	<u>741</u>	<u>4.5</u>	"

Did well dewater? Yes  No  Gallons actually evacuated: 4.5

Sampling Time: 1455      Sampling Date: 2/11/04

Sample I.D.: MW-6      Laboratory: Pace Sequoia Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See C.O.C.

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

**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:

11107

Station #

18501 Hesperian San Lorenzo

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

10

added equip. \_\_\_\_\_ any other adjustments \_\_\_\_\_

rinse water 5

**TOTAL GALS. RECOVERED** 15

loaded onto BTS vehicle # 22

BTS event # \_\_\_\_\_ time \_\_\_\_\_ date \_\_\_\_\_

040211-Asz 1515 2/11/09

signature [Signature]

\*\*\*\*\*

REC'D AT \_\_\_\_\_ time \_\_\_\_\_ date \_\_\_\_\_

unloaded by \_\_\_\_\_

signature \_\_\_\_\_

# REPAIR DATA SHEET

Client BP/Arco # 11107 Date 1/9/04  
 Site Address 18501 Hesperian Blvd., San Lorenzo  
 Job Number 040109-1461 Technician MB

Repair Location MW-4  
 Deficiencies Corrected Tab/bolts stripped, cap broken. Helicoiled both tabs + added 2 new bolts + 2" cap.  
 Materials Used 2 Helicoils, 2 bolts, 2" cap

Repair Location MW-7  
 Deficiencies Corrected No bolts, no gasket, tabs stripped. Helicoiled 3 tabs, added 3 bolts + gasket.  
 Materials Used 3 helicoils, 3 bolts gasket

Repair Location MW-2  
 Deficiencies Corrected Bolts/Tabs stripped, no gasket. Helicoiled 3 tabs, added 3 new bolts + gasket  
 Materials Used 3 helicoils, 3 bolts, gasket

Repair Location MW-1  
 Deficiencies Corrected Bolts/Tabs stripped. Helicoiled 3 tabs + added 3 new bolts.  
 Materials Used 3 helicoils, 3 bolts

Repair Location MW-3  
 Deficiencies Corrected Bolts badly rusted, tabs clogged. Tapped both tabs + added 2 new bolts.  
 Materials Used 2 bolts

Repair Location MW-5  
 Deficiencies Corrected Casing cracked. Broke out small amount of annular seal to access crack. Added coupler + 4 caps concrete to seal. Casing raised 0.15"  
 Materials Used 2" Coupler, 4 caps conc

REPAIR DATA SHEET

Client BP/Arco # 11107 Date 1/9/04  
Site Address 18501 Hesperian Blvd., San Lorenzo  
Job Number 040109-M/1 Technician M/6

Repair Location MW-6  
Deficiencies Corrected One bolt broken off in tab, other two rusted. Drilled out + helicoiled one tab, tapped other two tabs. Added 3 new bolts.  
Materials Used 1 helicoil, 3 bolts

Repair Location \_\_\_\_\_  
Deficiencies Corrected \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Materials Used \_\_\_\_\_

Repair Location \_\_\_\_\_  
Deficiencies Corrected \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Materials Used \_\_\_\_\_

Repair Location \_\_\_\_\_  
Deficiencies Corrected \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Materials Used \_\_\_\_\_

Repair Location \_\_\_\_\_  
Deficiencies Corrected \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Materials Used \_\_\_\_\_

Repair Location \_\_\_\_\_  
Deficiencies Corrected \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Materials Used \_\_\_\_\_

**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 Atlantic Richfield Company have been reviewed and verified by that laboratory.



27 February, 2004

Leonard Niles  
URS Corporation [Arco]  
1333 Broadway, Suite 800  
Oakland, CA 94612

RE: BP Heritage #11107, San Lorenzo, CA  
Work Order: MNB0399

Enclosed are the results of analyses for samples received by the laboratory on 02/12/04 18:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Lisa Race".

Lisa Race  
Senior Project Manager

CA ELAP Certificate #1210



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

Project: BP Heritage #11107, San Lorenzo, CA  
Project Number: N/P  
Project Manager: Leonard Niles

MNB0399  
Reported:  
02/27/04 09:24

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4	MNB0399-01	Water	02/11/04 14:15	02/12/04 18:30
MW-5	MNB0399-02	Water	02/11/04 14:35	02/12/04 18:30
MW-6	MNB0399-03	Water	02/11/04 14:55	02/12/04 18:30
TB-11107-02112004	MNB0399-04	Water	02/11/04 00:00	02/12/04 18:30

These samples were received with intact custody seals.



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

Project: BP Heritage #11107, San Lorenzo, CA  
Project Number: N/P  
Project Manager: Leonard Niles

MNB0399  
Reported:  
02/27/04 09:24

**Volatile Organic Compounds by EPA Method 8260B  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-4 (MNB0399-01) Water</b> <b>Sampled: 02/11/04 14:15</b> <b>Received: 02/12/04 18:30</b>									
Ethanol	ND	100	ug/l	1	4B25005	02/25/04	02/25/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>3.3</b>	<b>0.50</b>	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<b>Gasoline Range Organics</b>	<b>ND</b>	<b>50</b>	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>102 %</i>	<i>78-129</i>						
<b>MW-5 (MNB0399-02) Water</b> <b>Sampled: 02/11/04 14:35</b> <b>Received: 02/12/04 18:30</b>									
Ethanol	ND	100	ug/l	1	4B25005	02/25/04	02/25/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>35</b>	<b>0.50</b>	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<b>Gasoline Range Organics</b>	<b>130</b>	<b>50</b>	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>105 %</i>	<i>78-129</i>						

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

Project: BP Heritage #11107, San Lorenzo, CA  
Project Number: N/P  
Project Manager: Leonard Niles

MNB0399  
Reported:  
02/27/04 09:24

**Volatile Organic Compounds by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-6 (MNB0399-03) Water    Sampled: 02/11/04 14:55    Received: 02/12/04 18:30</b>									
Ethanol	ND	100	ug/l	1	4B25005	02/25/04	02/25/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>2.0</b>	<b>0.50</b>	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %		78-129	"	"	"	"	

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

 Project: BP Heritage #11107, San Lorenzo, CA  
 Project Number: N/P  
 Project Manager: Leonard Niles

 MNB0399  
 Reported:  
 02/27/04 09:24

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 4B25005 - EPA 5030B P/T**
**Blank (4B25005-BLK1)**

Prepared &amp; Analyzed: 02/25/04

Ethanol	ND	100	ug/l							
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics	ND	50	"							

*Surrogate: 1,2-Dichloroethane-d4*

5.10

"

5.00

102

78-129

**Laboratory Control Sample (4B25005-BS1)**

Prepared &amp; Analyzed: 02/25/04

Ethanol	222	100	ug/l	200		111	31-143			
tert-Butyl alcohol	51.1	20	"	50.0		102	56-131			
Methyl tert-butyl ether	10.2	0.50	"	10.0		102	63-137			
Di-isopropyl ether	9.89	0.50	"	10.0		98.9	76-130			
Ethyl tert-butyl ether	10.7	0.50	"	10.0		107	81-121			
tert-Amyl methyl ether	10.5	0.50	"	10.0		105	82-140			
1,2-Dichloroethane	10.6	0.50	"	10.0		106	77-136			
1,2-Dibromoethane (EDB)	11.0	0.50	"	10.0		110	77-132			
Benzene	9.97	0.50	"	10.0		99.7	78-124			
Toluene	10.3	0.50	"	10.0		103	78-129			
Ethylbenzene	9.38	0.50	"	10.0		93.8	84-117			
Xylenes (total)	29.4	0.50	"	30.0		98.0	83-125			

*Surrogate: 1,2-Dichloroethane-d4*

4.90

"

5.00

98.0

78-129

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

Project: BP Heritage #11107, San Lorenzo, CA  
Project Number: N/P  
Project Manager: Leonard Niles

MNB0399  
Reported:  
02/27/04 09:24

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 4B25005 - EPA 5030B P/T**
**Laboratory Control Sample (4B25005-BS2)**

Prepared &amp; Analyzed: 02/25/04

Methyl tert-butyl ether	9.76	0.50	ug/l	10.1		96.6	63-137			
Benzene	6.01	0.50	"	6.48		92.7	78-124			
Toluene	37.0	0.50	"	29.7		125	78-129			
Ethylbenzene	7.59	0.50	"	7.20		105	84-117			
Xylenes (total)	39.3	0.50	"	33.7		117	83-125			
Gasoline Range Organics	407	50	"	440		92.5	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.17</i>		<i>"</i>	<i>5.00</i>		<i>103</i>	<i>78-129</i>			

**Laboratory Control Sample Dup (4B25005-BSD1)**

Prepared &amp; Analyzed: 02/25/04

Ethanol	229	100	ug/l	200		114	31-143	3.10	20	
tert-Butyl alcohol	48.6	20	"	50.0		97.2	56-131	5.02	20	
Methyl tert-butyl ether	10.5	0.50	"	10.0		105	63-137	2.90	13	
Di-isopropyl ether	10.1	0.50	"	10.0		101	76-130	2.10	9	
Ethyl tert-butyl ether	11.0	0.50	"	10.0		110	81-121	2.76	9	
tert-Amyl methyl ether	11.1	0.50	"	10.0		111	82-140	5.56	12	
1,2-Dichloroethane	10.8	0.50	"	10.0		108	77-136	1.87	13	
1,2-Dibromoethane (EDB)	11.1	0.50	"	10.0		111	77-132	0.905	9	
Benzene	10.0	0.50	"	10.0		100	78-124	0.300	12	
Toluene	10.3	0.50	"	10.0		103	78-129	0.00	10	
Ethylbenzene	9.36	0.50	"	10.0		93.6	84-117	0.213	10	
Xylenes (total)	29.5	0.50	"	30.0		98.3	83-125	0.340	11	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.95</i>		<i>"</i>	<i>5.00</i>		<i>99.0</i>	<i>78-129</i>			

**Laboratory Control Sample Dup (4B25005-BSD2)**

Prepared &amp; Analyzed: 02/25/04

Methyl tert-butyl ether	9.74	0.50	ug/l	10.1		96.4	63-137	0.205	13	
Benzene	5.81	0.50	"	6.48		89.7	78-124	3.38	12	
Toluene	35.8	0.50	"	29.7		121	78-129	3.30	10	
Ethylbenzene	7.64	0.50	"	7.20		106	84-117	0.657	10	
Xylenes (total)	38.3	0.50	"	33.7		114	83-125	2.58	11	
Gasoline Range Organics	385	50	"	440		87.5	70-113	5.56	9	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.86</i>		<i>"</i>	<i>5.00</i>		<i>97.2</i>	<i>78-129</i>			

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

Project: BP Heritage #11107, San Lorenzo, CA  
Project Number: N/P  
Project Manager: Leonard Niles

MNB0399  
**Reported:**  
02/27/04 09:24

### 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

**ATTACHMENT D**

**EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION**

---

## Error Summary Log

03/01/04

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	Labiocfl	Run Sub
MMA0313021020 030949	MW-4	MMA031301	W	CS	SW8021F	SW5030B	01/13/03	01/27/03	01/27/03	3A27004	1
MMA0313021020 030949	MW-5	MMA031302	W	CS	SW8021F	SW5030B	01/13/03	01/27/03	01/27/03	3A27003	1
MMA0313021020 030949	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

03/01/04

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

# EDFTEST: Error Summary Log

03/01/04

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

# EDFRES: Error Summary Log

03/01/04

Error type	Labsampid	Qcocode	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

03/01/04

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

# EDFCL: Error Summary Log

03/01/04

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

# AB2886 Electronic Delivery

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

Your EDF file has been successfully uploaded!

**Confirmation Number:** 5306758642

**Date/Time of Submittal:** 3/1/2004 5:41:26 PM

**Facility Global ID:** T0600101665

**Facility Name:** BP

**Submittal Title:** First Quarter 2004 Quarterly Monitoring

**Submittal Type:** GW Monitoring Report

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE [ADMINISTRATOR](#).

# AB2886 Electronic Delivery

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

## UPLOADING A GEO\_WELL FILE

Processing is complete. No errors were found!  
Your file has been successfully submitted!

**Submittal Title:** First Quarter 2004 Geowell Submittal for Site  
11107

**Submittal Date/Time:** 3/1/2004 5:52:45 PM

**Confirmation  
Number:** 2916355729

[Back to Main Menu](#)

Logged in as URSCORP-OAKLAND (CONTRACTOR)

[CONTACT SITE ADMINISTRATOR.](#)





"Mike Ninokata"  
<mninokata@blainetec  
h.com>

01/12/2004 02:52 PM  
Please respond to  
mninokata

To: "Leonard Niles \ (E-mail)" <Leonard\_Niles@URSCORP.COM>  
cc:  
Subject: Well repair at 11107 Casing adjustment

Len,

Sending you a special casing adjustment note.

Well MW-5 (cracked casing) - chiseled annular seal, added 2" coupler and repaired casing - casing raised + .15 ft. post repair.

Thanks,

Michael Ninokata  
Project Coordinator  
Blaine Tech Services, Inc.  
Ph. 408.573.0555 ext.202  
Fax 408.573.7771