RO - 255

Atlantic Richfield Company
(a BP affiliated company)

P.O. Box 6549
Moraga, California 94570
Phone: (925) 299-8891
Fax: (925) 299-8872

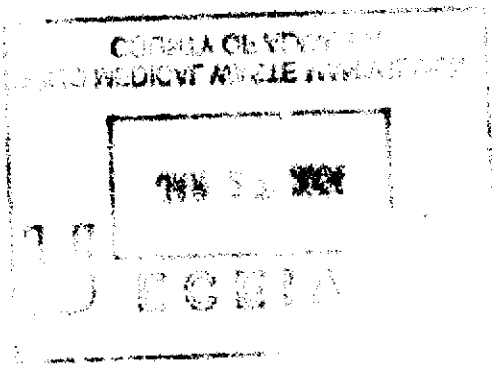
January 9, 2004

Fourth Quarter 2003 Groundwater Monitoring and Remediation System Report
ARCO Service Station #0608
17601 Hesperian Boulevard
San Lorenzo, California
URS Project #38486314

I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct.

Submitted by:

Paul Supple
Environmental Business Manager



URS

January 9, 2004

Ms. eva chu
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alameda, California 94502

Re: Fourth Quarter 2003 Groundwater Monitoring and Remediation System Report
ARCO Service Station #0608
17601 Hesperian Boulevard
San Lorenzo, California
URS Project #38486314

Dear Ms. chu:

On behalf of Atlantic Richfield Company (ARCO – a BP affiliated company) URS Corporation (URS) is submitting the *Fourth Quarter 2003 Groundwater Monitoring and Remediation System Report* for ARCO Service Station #0608, located at 17601 Hesperian Boulevard, San Lorenzo, California.

If you have any questions regarding this submission, please call me at (510) 874-3280.

Sincerely,
URS CORPORATION

Scott Robinson
Project Manager

James F. Durkin, C. Hg.
Senior Geologist

Enclosure: Fourth Quarter 2003 Groundwater Monitoring and Remediation System Report

cc: Mr. Paul Supple, ARCO, (electronic copy uploaded to ENFOS)
Mr. Ron Sykora/Mr. Robert L. Webster, David D. Bohannon Organization, 60 Hillsdale Mall, San Mateo, CA 94403
Mr. John Kaiser, Regional Water Quality Control Board - San Francisco Bay Region, 1515 Clay Street, Suite 1400, Oakland, CA 94612

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

REPORT

FOURTH QUARTER 2003 GROUNDWATER MONITORING AND REMEDIATION SYSTEM

ARCO SERVICE STATION #0608
17601 HESPERIAN BOULEVARD
SAN LORENZO, CALIFORNIA

Prepared for
Atlantic Richfield Company

January 9, 2004

URS

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

38486314

Date: January 9, 2003

Quarter: 4Q 03

ARCO QUARTERLY GROUNDWATER MONITORING AND REMEDIATION SYSTEM REPORT

Facility No.:	608	Address:	17601 Hesperian Boulevard, San Lorenzo, California
Atlantic Richfield Co. Business Manager:			Paul Supple
Consulting Co./Contact Person:			URS Corporation / Scott Robinson
Consultant Project No.:			38486314
Primary Agency:			Alameda County Health Care Services (ACHCSA)

WORK PERFORMED THIS QUARTER (Fourth – 2003):

1. Performed fourth quarter 2003 groundwater monitoring event on December 4, 2003.
2. Prepared and submitted fourth quarter 2003 groundwater monitoring and remediation report.
3. Continued quarterly payments to homeowners for not using domestic irrigation wells.
4. Continued homeowner quarterly monitoring result notification program.
5. Continued operation and maintenance of the groundwater extraction and treatment (GWET) system.
6. Submitted monthly flow data to Oro Loma Sanitary District.
7. Change sampling frequency of MW-9, MW-16 and MW-22 from quarterly to semiannually (1st and 3rd quarters).
8. Re-developed extraction well E-1A on December 9, 2003 (Attachment E) – Blaine Tech field notes.

WORK PROPOSED FOR NEXT QUARTER (First – 2004):

1. Perform first quarter 2004 groundwater monitoring event.
2. Prepare and submit first quarter 2004 groundwater monitoring and remediation report.
3. Continue operation, maintenance and performance monitoring of GWET system.
4. Continue monthly payments to homeowners for not using domestic irrigation wells.
5. Continue homeowner quarterly monitoring result notification program.
6. Submit monthly flow data to Oro Loma Sanitary District.
7. Destroy homeowner domestic wells, if permisible.

Current Phase of Project:	GW monitoring/sampling/remediation
Frequency of Groundwater Sampling:	See Table 1
Frequency of Groundwater Monitoring:	See Table 1
Is Free Product (FP) Present On-Site:	No
FP Recovered this Quarter	None
Current Remediation Techniques:	GWET
Approximate Depth to Groundwater:	9.20 (MW-14) to 14.75(642H) feet
Groundwater Gradient (direction):	West

Groundwater Gradient (magnitude):	0.003 feet per foot	
Frequency of GWET System Lab Sampling:	Monthly	
Frequency of GWET System Field Monitoring:	Bi-weekly	
System Restart:	06/05/2000	
Extraction Well:	E-1A	
Permits for Discharge:	Oro Loma Sanitary District Permit No. SDP-037 Expires 08/05/2004	
Gallons of Groundwater Treated and Discharge for this Quarter:	232,627	
Total Gallons of Groundwater Treated and Discharged to Date:	7,140,412	
Total Operation Hours to Date:	55,412	
Mass Removal (pounds):	Quarterly	Cumulative
TPH-g:	0.00	7.36
Benzene:	0.000	0.31
MTBE:	0.05	2.76
GWET System Samples Collection Dates and Effluent Results (µg/L)::	10/23/2003	11/20/2003
TPH-g:	ND<50	ND<50
Benzene:	ND<0.50	ND<0.50
MTBE:	2.5	ND<0.50

DISCUSSION:

TPH-g was detected in two of the nine wells sampled this quarter at concentrations of 81 µg/L (MW-5 and MW-25). Benzene was not detected in any of the wells sampled this quarter. MTBE was detected in six wells at concentrations ranging from 6.4 µg/L (MW-15) to 110 µg/L (MW-10). TAME was detected in five wells at concentrations ranging from 0.89 µg/L (E-1A) to 17 µg/L (MW-25).

Domestic irrigation wells 642H and 17372VM were sampled this quarter. Domestic irrigation wells 17197VM and 17349VM were not sampled, as the wells have been abandoned. Domestic irrigation wells 17302VM and 17371VM were not sampled because the owners were not home to grant access and the wells are not operational. Domestic irrigation wells 634H, 675H, 17203VM, and 17348VE were not sampled because residents were not home to grant access to the wells or access was denied. The property owners are currently under no obligation to allow access to their domestic wells. URS has requested permission from the property owners to properly destroy the wells. URS plans to destroy homeowners wells during the first quarter of 2004, if permissible.

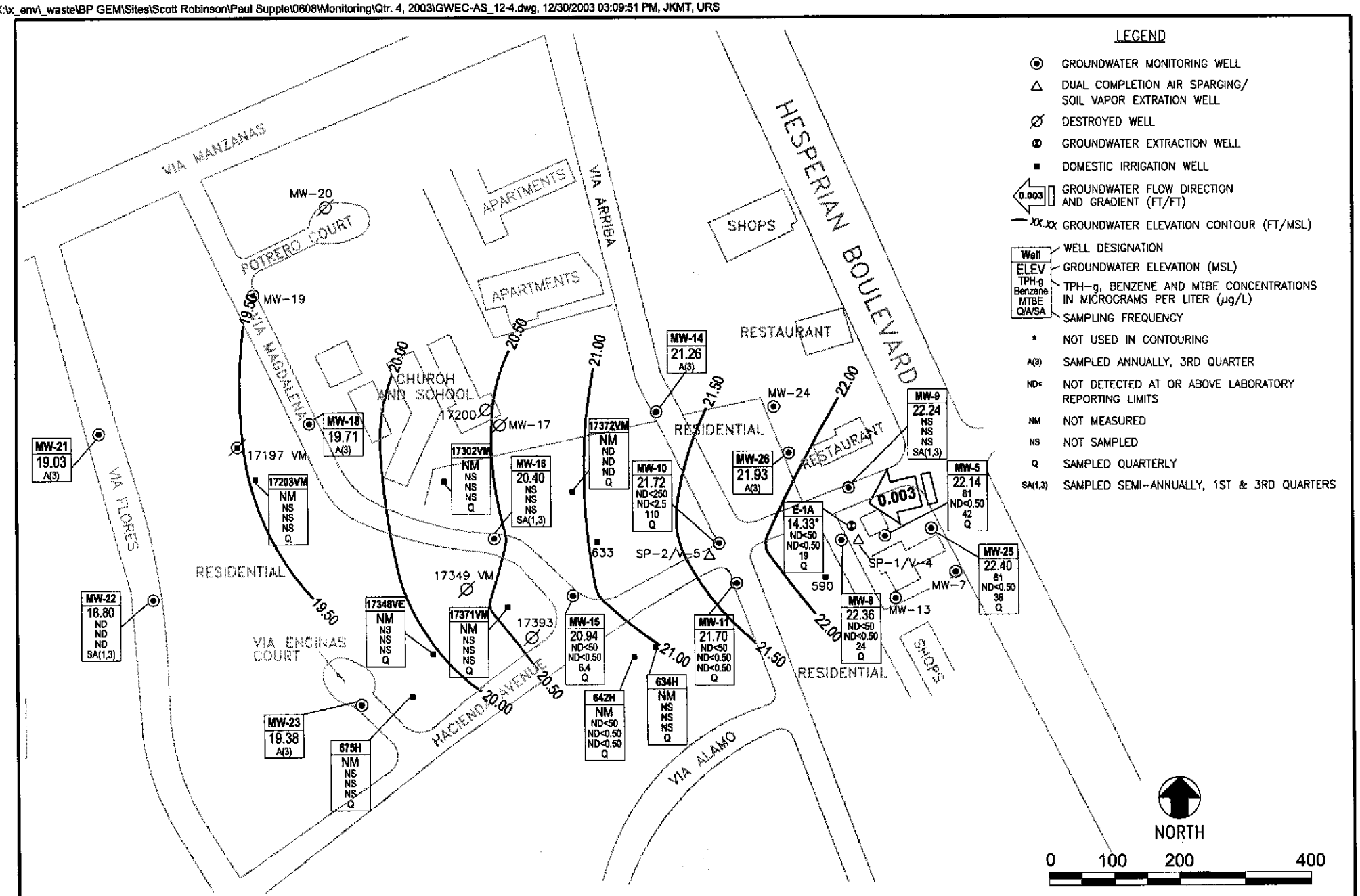
From July 24 to September 25, 2003, the system operated 100 percent of the time. Due to concerns on water flow and system pressure buildup, extraction well E-1A was redeveloped on December 9, 2003. Additionally, during the December 18, 2003 scheduled O&M visit, the system was backflushed and air build up was bled from the system to

return system to normal operating pressure. During this time period, a total of 232,627 gallons of groundwater were treated. Performance data and laboratory analytical data are listed in Tables 6 and 7.

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – December 4, 2003
- Figure 2 – Groundwater Extraction System Mass Removal Trend TPH-g and Benzene
- Figure 3 – Groundwater Extraction System Concentration Trend TPH-g and Benzene
- Figure 4 – Groundwater Extraction System Mass Removal Trend MTBE
- Figure 5 – Groundwater Extraction System Concentration Trend MTBE
- Table 1 – Groundwater Sampling Schedule
- Table 2 – Groundwater Analytical Data – Domestic Irrigation Wells
- Table 3 – Groundwater Elevation and Analytical Data – Groundwater Monitoring Wells
- Table 4 – Groundwater Flow Direction and Gradient
- Table 5 – Fuel Oxygenate Analytical Data
- Table 6 – Groundwater Extraction System Performance Data
- Table 7 – Treatment System Analytical Data
- Attachment A – Field Procedures and Field Data Sheets
- Attachment B – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment C – Historical Groundwater Data Tables
- Attachment D – EDCC Report and EDF/Geowell Submittal Confirmation
- Attachment E – Well Development Field Notes

X:\x_env_waste\BP GEM\Sites\Scott Robinson\Paul Supple\0608\Monitoring\Qtr. 4, 2003\GWEC-AS_12-4.dwg, 12/30/2003 03:09:51 PM, JKMT, URS



NOTE: SITE MAP ADAPTED FROM IT CORPORATION FIGURES.
SITE DIMESIONS AND FACILITY LOCATIONS NOT VERIFIED.

URS

Project No. 38465883

Arco Service Station #0608
17601 Hesperian Boulevard
San Lorenzo, California

GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP
Fourth Quarter 2003 (December 4, 2003)

FIGURE
1

Figure 2
Groundwater Extraction System Mass Removal Trend
TPH-g and Benzene

ARCO Service Station #0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

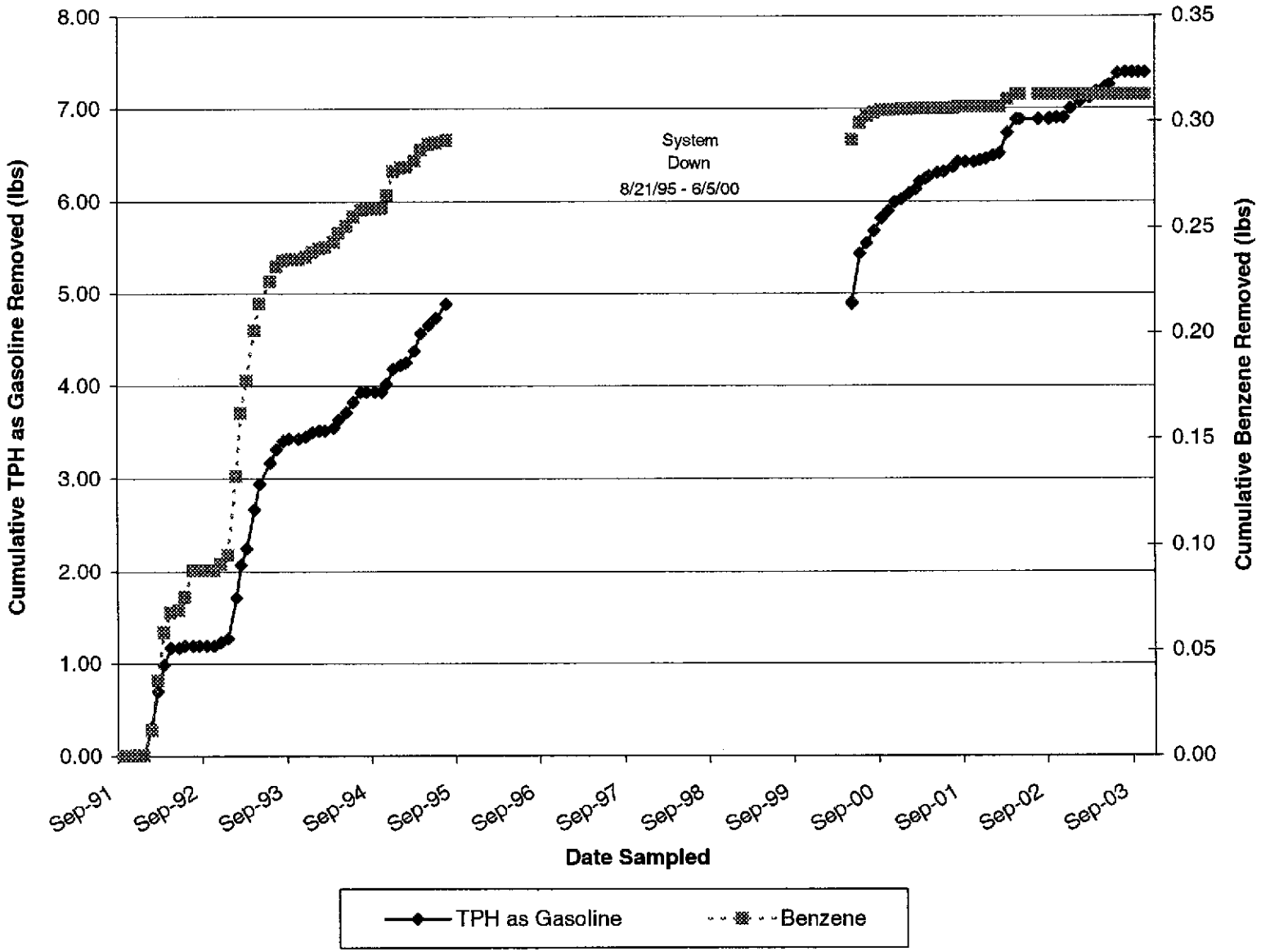


Figure 3
Groundwater Extraction System Concentration Trend
TPH-g and Benzene

ARCO Service Station #0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

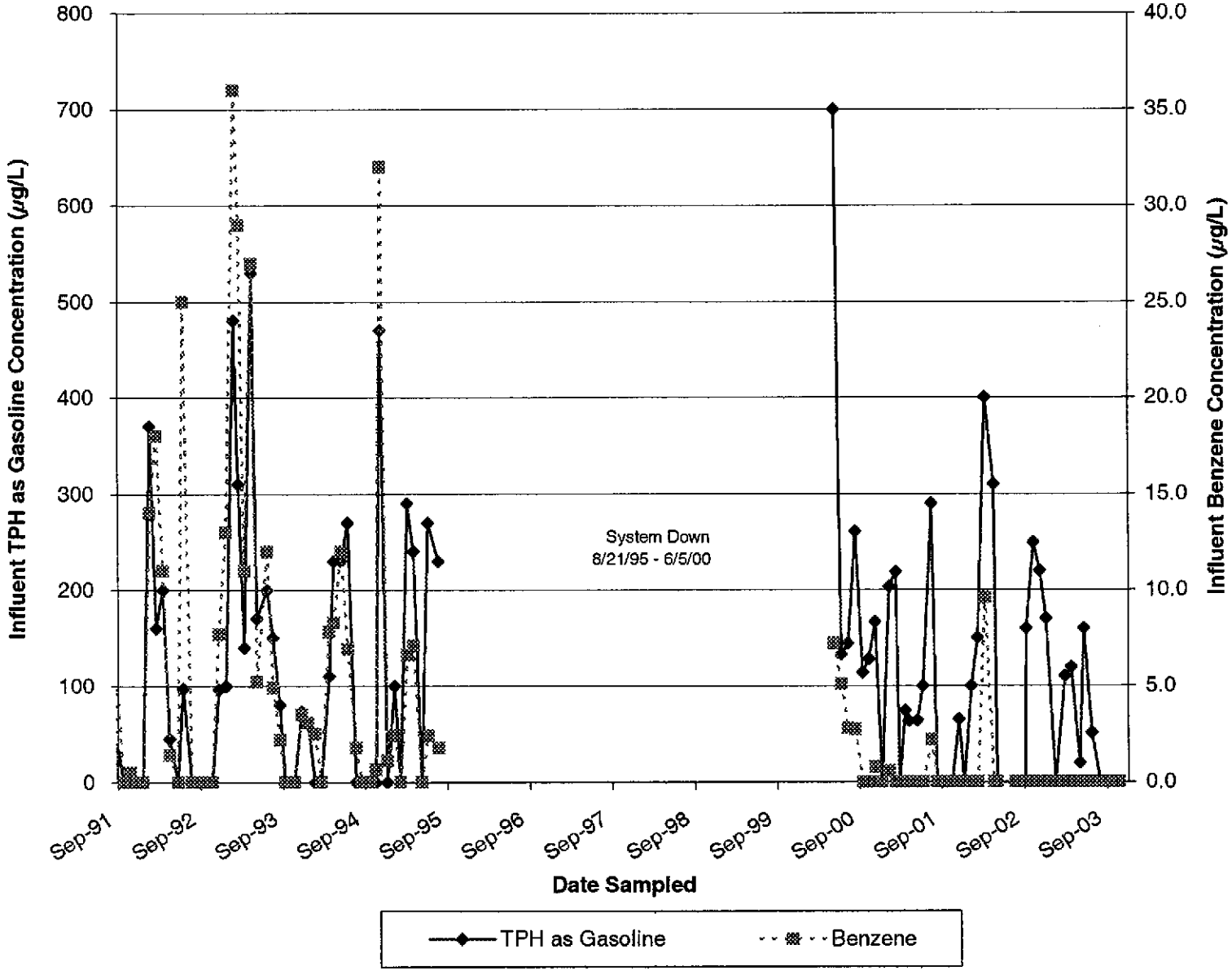


Figure 4
Groundwater Extraction System Mass Removal Trend
MtBE

ARCO Service Station #0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

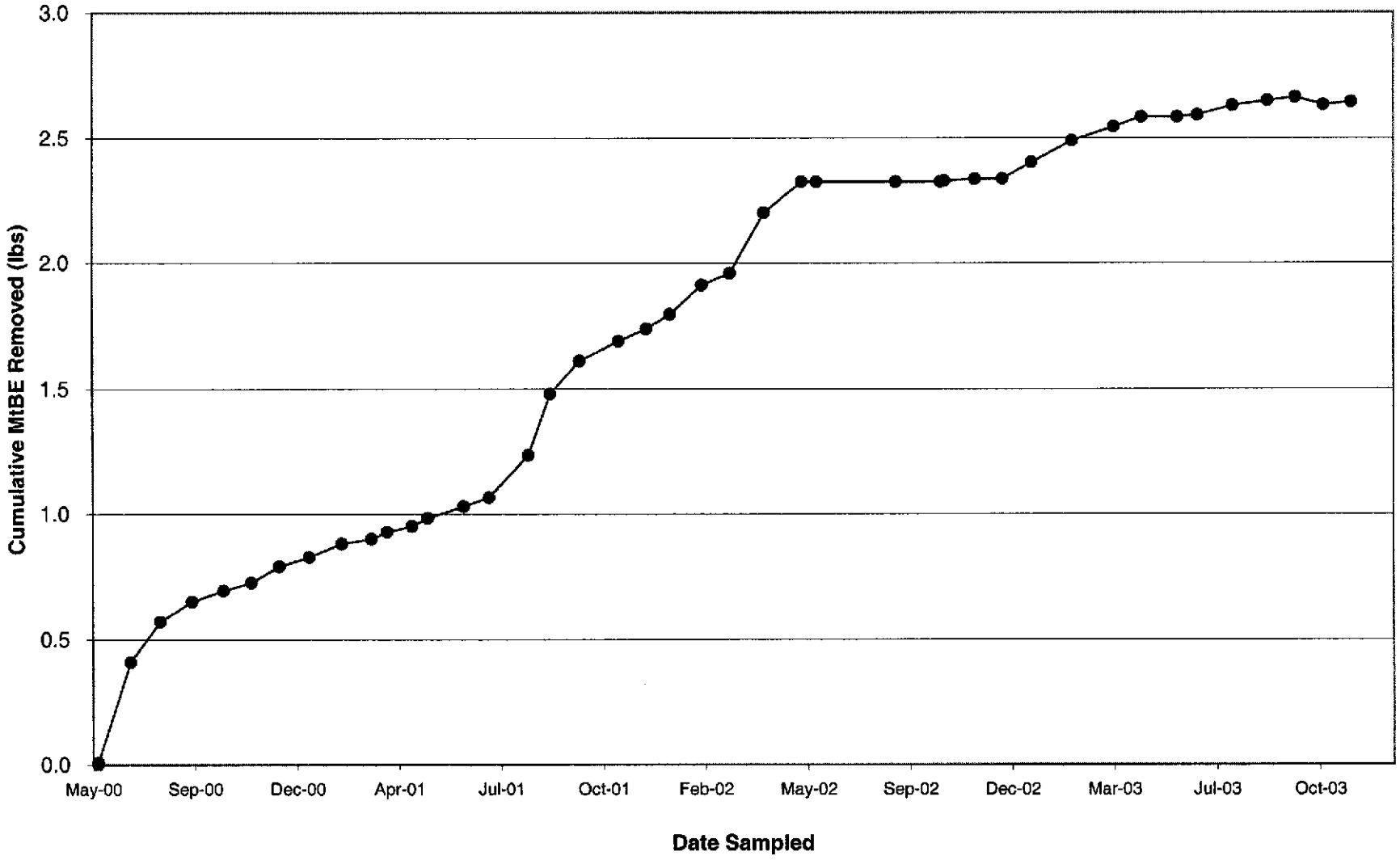


Figure 5
Groundwater Extraction System Concentration Trend
MtBE

ARCO Service Station #0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

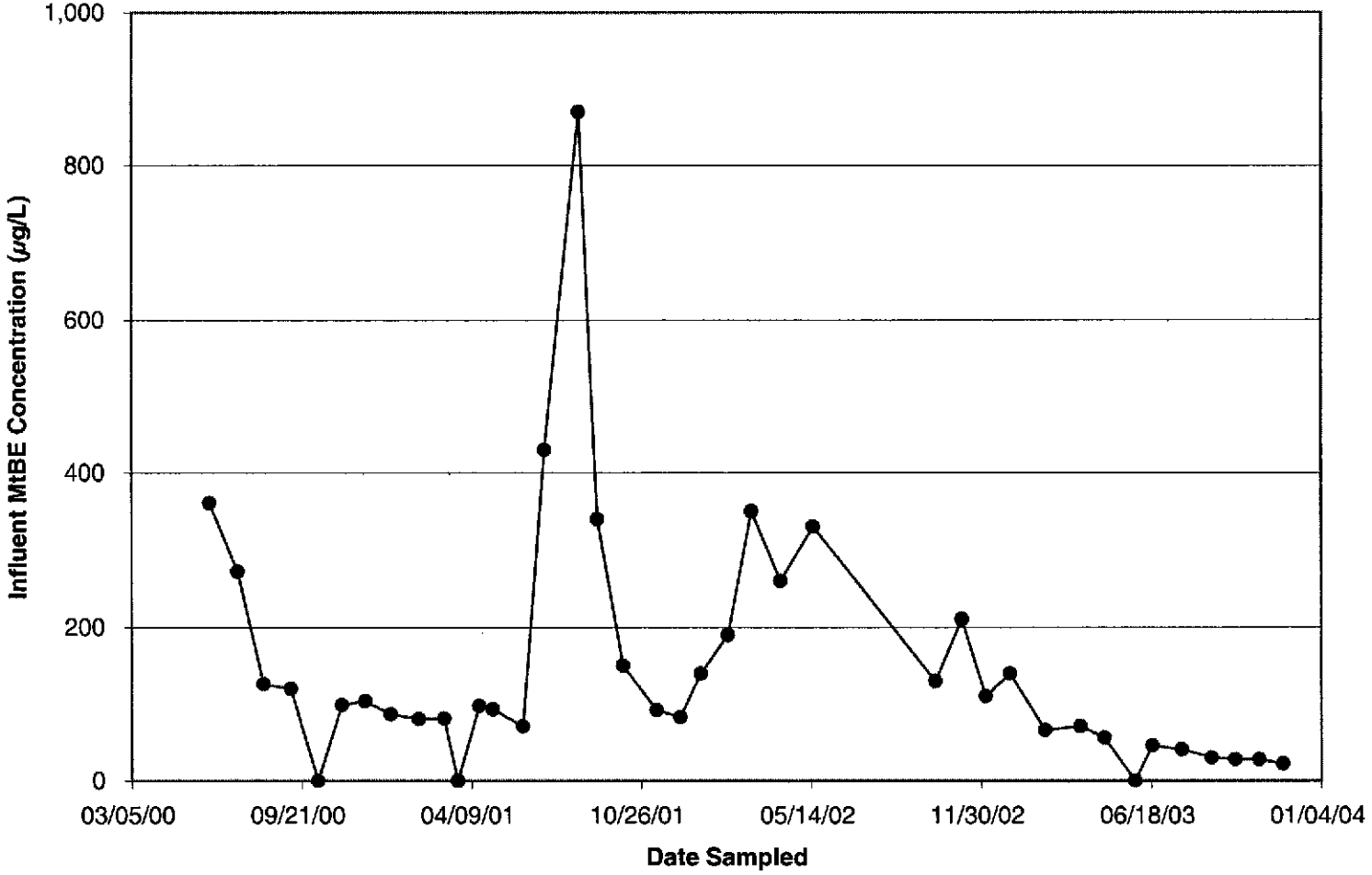


Table 1
Groundwater Sampling Schedule
ARCO Service Station #0608
17601 Hesperian Boulevard, San Lorenzo, California

Well Number	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Sampling Frequency
Groundwater Monitoring Wells					
MW-5	a	a	a	a	Quarterly
MW-7	----------Removed from Program----------				
MW-8	a	a	a	a	Quarterly
MW-9	a	a	a	a	Semiannually (March/September)
MW-10	a	a	a	a	Quarterly
MW-11	a	a	a	a	Quarterly
E-1A	a	a	a	a	Quarterly
MW-13	----------Removed from Program----------				
MW-14	a				Annually (March)
MW-15	a	a	a	a	Quarterly
MW-16	a	a	a	a	Semiannually (March/September)
MW-17	----------Destroyed----------				
MW-18	a				Annually (March)
MW-19	----------Removed from Program----------				
MW-20	----------Destroyed----------				
MW-21	a				Annually (March)
MW-22	a	a	a	a	Semiannually (March/September)
MW-23	a				Annually (March)
MW-24	----------Removed from Program----------				
MW-25	a	a	a	a	Quarterly
MW-26	a				Annually (March)

Table 1
Groundwater Sampling Schedule
ARCO Service Station #0608
17601 Hesperian Boulevard, San Lorenzo, California

Well Number	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Sampling Frequency
Domestic Irrigation Wells					
590H	----------Destroyed----------				
633H	----------Destroyed----------				
634H	a	a	a	a	Quarterly
642H	a	a	a	a	Quarterly
675H	a	a	a	a	Quarterly
17197 VM	----------Destroyed----------				
17200 VM	----------Destroyed----------				
17203 VM	a	a	a	a	Quarterly
17302 VM	a	a	a	a	Quarterly
17348 VE	a	a	a	a	Quarterly
17349 VM	----------Destroyed----------				
17371 VM	a	a	a	a	Quarterly
17372 VM	a	a	a	a	Quarterly
17393 VM	----------Destroyed----------				

a. Beginning first quarter 2003, samples analyzed for TPH-g, BTEX compounds, and MTBE by EPA Method 8260B. Fuel oxygenates were also added to the analyte list at this time.

Table 2

Groundwater Analytical Data - Domestic Irrigation Wells

ARCO Service Station #0608

17601 Hesperian Boulevard, San Lorenzo, California

Well Number	Date Sampled	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
634 H	03/13/02	NS	NS	NS	NS	NS	NS
	06/28/02	NS	NS	NS	NS	NS	NS
	09/20/02	NS	NS	NS	NS	NS	NS
	12/30/02	NS	NS	NS	NS	NS	NS
	03/27/03	NS	NS	NS	NS	NS	NS
	06/30/03	NS	NS	NS	NS	NS	NS
	09/15/03	NS	NS	NS	NS	NS	NS
	09/15/03	NS	NS	NS	NS	NS	NS
	12/04/03	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
642 H	03/13/02	NS	NS	NS	NS	NS	NS
	06/28/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	09/20/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	12/30/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	03/27/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	06/30/03	NS	NS	NS	NS	NS	NS
	09/15/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	12/04/03	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
675 H	03/13/02	NS	NS	NS	NS	NS	NS
	06/28/02	NS	NS	NS	NS	NS	NS
	09/20/02	NS	NS	NS	NS	NS	NS
	12/30/02	NS	NS	NS	NS	NS	NS
	03/27/03	NS	NS	NS	NS	NS	NS
	06/30/03	NS	NS	NS	NS	NS	NS
	09/15/03	NS	NS	NS	NS	NS	NS
	12/04/03	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
17197 VM	03/13/02	NS	NS	NS	NS	NS	NS
	06/28/02	NS	NS	NS	NS	NS	NS
	09/20/02	NS	NS	NS	NS	NS	NS
	12/30/02	NS	NS	NS	NS	NS	NS
	03/27/03	NS	NS	NS	NS	NS	NS
	06/30/03	NS	NS	NS	NS	NS	NS
	09/15/03	NS	NS	NS	NS	NS	NS
	12/04/03	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**

Table 2
Groundwater Analytical Data - Domestic Irrigation Wells
ARCO Service Station #0608
17601 Hesperian Boulevard, San Lorenzo, California

Well Number	Date Sampled	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
17203 VM	03/13/02	NS	NS	NS	NS	NS	NS
	06/28/02	NS	NS	NS	NS	NS	NS
	09/20/02	NS	NS	NS	NS	NS	NS
	12/30/02	NS	NS	NS	NS	NS	NS
	03/27/03	NS	NS	NS	NS	NS	NS
	06/30/03	NS	NS	NS	NS	NS	NS
	09/15/03	NS	NS	NS	NS	NS	NS
	12/04/03	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
17302 VM	03/13/02	NS	NS	NS	NS	NS	NS
	06/28/02	NS	NS	NS	NS	NS	NS
	09/20/02	NS	NS	NS	NS	NS	NS
	12/30/02	NS	NS	NS	NS	NS	NS
	03/27/03	NS	NS	NS	NS	NS	NS
	06/30/03	NS	NS	NS	NS	NS	NS
	09/15/03	NS	NS	NS	NS	NS	NS
	12/04/03	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
17348 VE	03/13/02	NS	NS	NS	NS	NS	NS
	06/28/02	NS	NS	NS	NS	NS	NS
	09/20/02	NS	NS	NS	NS	NS	NS
	12/30/02	NS	NS	NS	NS	NS	NS
	03/27/03	NS	NS	NS	NS	NS	NS
	06/30/03	NS	NS	NS	NS	NS	NS
	09/15/03	NS	NS	NS	NS	NS	NS
	12/04/03	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
17349 VM	03/13/02	ND<50	1	ND<0.50	ND<0.50	ND<0.50	49
	06/28/02	66	0.50	ND<0.50	ND<0.50	ND<0.50	45(47)[a]
	09/20/02	NS	NS	NS	NS	NS	NS
	12/30/02	NS	NS	NS	NS	NS	NS
	03/27/03	NS	NS	NS	NS	NS	NS
	06/30/03	NS	NS	NS	NS	NS	NS
	09/15/03	NS	NS	NS	NS	NS	NS
	12/04/03	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**

Table 2
Groundwater Analytical Data - Domestic Irrigation Wells
ARCO Service Station #0608
17601 Hesperian Boulevard, San Lorenzo, California

Well Number	Date Sampled	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
17371 VM	03/13/02	NS	NS	NS	NS	NS	NS
	06/28/02	NS	NS	NS	NS	NS	NS
	09/20/02	NS	NS	NS	NS	NS	NS
	12/30/02	NS	NS	NS	NS	NS	NS
	03/27/03	NS	NS	NS	NS	NS	NS
	06/30/03	NS	NS	NS	NS	NS	NS
	09/15/03	NS	NS	NS	NS	NS	NS
	12/04/03	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
17372 VM	03/13/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	06/28/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	09/20/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	12/30/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	03/27/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	06/30/03	NS	NS	NS	NS	NS	NS
	09/15/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	12/04/03	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**

Table 2
Groundwater Analytical Data - Domestic Irrigation Wells
ARCO Service Station #0608
17601 Hesperian Boulevard, San Lorenzo, California

Note:	Samples analyzed by EPA Method 8260B. Prior to March 27, 2003 samples analyzed for benzene, toluene, ethyl benzene, and total xylenes using EPA Method 8021B.
	Tert-butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tert-butyl (ETBE), and tert-amyl methyl ether (TAME) were not detected at or above the specified laboratory method detection limit in any of the groundwater samples analyzed.
TPH-g	= Total petroleum hydrocarbons as gasoline analyzed.
MTBE	= Methyl tertiary butyl ether
µg/L	= Micrograms per liter
ND<	= Not detected at or above specified laboratory method detection limit
a	= MTBE confirmed by EPA Method 8260B
Source:	The data within this table collected prior to June 2002 was provided to URS by Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.

Table 3

Groundwater Elevation and Analytical Data - Groundwater Monitoring Wells

ARCO Service Station #0608

17601 Hesperian Boulevard, San Lorenzo, California

Well Number	Date Sampled		Casing Elevation (feet, MSL)	Top of Screen (ft., MSL)	Bottom of Screen (ft., MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-5	03/13/02		33.99			11.46	22.53	530	ND<2.5	ND<2.5	ND<2.5	ND<2.5	230
	06/28/02					11.75	22.24	180[b]	ND<1.0	2.6	ND<1.0	1.2	230
	09/20/02					12.15	21.84	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50	333
	12/30/02					9.73	24.26	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	03/27/03					11.24	22.75	100	ND<0.50	ND<0.50	ND<0.50	ND<0.50	59
	06/30/03	P				11.62	22.37	91	ND<0.50	ND<0.50	ND<0.50	ND<0.50	58
	09/15/03	P				12.13	21.86	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	61
	12/04/03	**P**				**11.85**	**22.14**	**81**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**42**
MW-8	03/13/02		32.79			10.30	22.49	500	ND<2.5	ND<2.5	ND<2.5	ND<2.5	1,100
	06/28/02					10.30	22.49	150[b]	ND<0.50	2.9	0.54	1.5	130
	09/20/02					10.84	21.95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50	273
	12/30/02					8.31	24.48	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.5
	03/27/03					9.85	22.94	63	ND<0.50	ND<0.50	ND<0.50	ND<0.50	33
	06/30/03	P				10.20	22.59	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	15
	09/15/03	P				10.69	22.10	59	ND<0.50	ND<0.50	ND<0.50	ND<0.50	41
	12/04/03	**P**				**10.43**	**22.36**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**24**
MW-9	03/13/02		32.11			9.49	22.62	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	06/28/02					9.78	22.33	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	09/20/02					10.29	21.82	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50	ND<0.500
	12/30/02					7.60	24.51	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	03/27/03					9.14	22.97	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	06/30/03					9.64[i]	22.47	----------Well Sampled Annually----------					
	09/15/03					10.12	21.99	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	12/04/03					**9.87**	**22.24**	**----------Well Sampled Annually----------**					
MW-10	03/13/02		31.67			9.68	21.99	680	ND<5.0	ND<5.0	ND<5.0	ND<5.0	570
	06/28/02					9.84	21.83	820[b]	ND<2.0	ND<2.0	ND<2.0	ND<2.0	1,200
	09/20/02					10.37	21.30	194	ND<0.50	ND<0.50	ND<0.50	ND<1.50	575
	12/30/02					7.70	23.97	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	490
	03/27/03					9.33	22.34	530	ND<5.0	ND<5.0	ND<5.0	ND<5.0	330
	06/30/03	P				9.75	21.92	ND<1,000	ND<10	ND<10	ND<10	ND<10	750
	09/15/03	P				10.17	21.50	----------Well Sampled Annually----------					
	12/04/03	**P**				**9.95**	**21.72**	**ND<250**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**110**

Table 3
Groundwater Elevation and Analytical Data - Groundwater Monitoring Wells
ARCO Service Station #0608
17601 Hesperian Boulevard, San Lorenzo, California

Well Number	Date Sampled		Casing Elevation (feet, MSL)	Top of Screen (ft., MSL)	Bottom of Screen (ft., MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-11	03/13/02		32.54			10.38	22.16	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	06/28/02					10.74	21.80	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	09/20/02					11.27	21.27	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50	ND<0.500
	12/30/02					8.73	23.81	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	03/27/03					10.25	22.29	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	06/30/03	P				10.65	21.89	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	09/15/03	P				11.03	21.51	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	12/04/03	**P**				**10.84**	**21.70**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
E-1A	03/13/02		33.06			21.75	11.31	200	ND<0.50	ND<0.50	ND<0.50	ND<0.50	310
(MW-12)	06/28/02					11.22	21.84	260[b]	ND<0.50	11	1.2	1.2	150
	09/20/02					11.80	21.26	250	1.18	0.520	ND<0.5	ND<1.5	218
	12/30/02					16.33	16.73	190 [c,e]	ND<1.2 [e]	ND<1.2 [e]	ND<1.2 [e]	ND<1.2 [e]	190 [e]
	03/27/03					13.63 [g]	19.43	96	ND<0.50	ND<0.50	ND<0.50	ND<0.50	60
	06/30/03	P				9.60[h]	23.46	140	ND<0.50	ND<0.50	ND<0.50	ND<0.50	37
	09/15/03	P				17.80 [g]	15.26	83	ND<0.50	ND<0.50	ND<0.50	ND<0.50	49
	12/04/03	**P**				**18.73 [g]**	**14.33**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**19**
MW-14	03/13/02		30.46			8.56	21.90	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	06/28/02					9.12	21.34	----------Well Sampled Annually----------					
	09/20/02					9.79	20.67	----------Well Sampled Annually----------					
	12/30/02					7.13	23.33	----------Well Sampled Annually----------					
	03/27/03					8.53	21.93	ND<50	ND<0.50	0.86	ND<0.50	ND<0.50	ND<0.50
	06/30/03					9.05	21.41	----------Well Sampled Annually----------					
	09/15/03					9.47	20.99	----------Well Sampled Annually----------					
	12/04/03					**9.20**	**21.26**	**----------Well Sampled Annually----------**					
MW-15	03/13/02		31.41			10.03	21.38	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	21
	06/28/02					10.41	21.00	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	8.7
	09/20/02					11.00	20.41	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50	21.6
	12/30/02					8.33	23.08	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	67
	03/27/03					9.83	21.58	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	17
	06/30/03	P				10.00	21.41	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	12
	09/15/03	P				10.67	20.74	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	10
	12/04/03	**P**				**10.47**	**20.94**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**6.4**

Table 3

Groundwater Elevation and Analytical Data - Groundwater Monitoring Wells

ARCO Service Station #0608

17601 Hesperian Boulevard, San Lorenzo, California

Well Number	Date Sampled	Casing Elevation (feet, MSL)	Top of Screen (ft., MSL)	Bottom of Screen (ft., MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-16	03/13/02	31.39			10.51	20.88	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	06/28/02				10.96	20.43	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	09/20/02				10.47	20.92	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50	1.67
	12/30/02				NM		Well not sampled - Car Parked on Well					
	03/27/03				10.28	21.11	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	06/30/03				10.87[i]	20.52	----------Well Sampled Annually----------					
	09/15/03				11.25	20.14	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	12/04/03				**10.99**	**20.40**	**----------Well Sampled Annually----------**					
MW-18	03/13/02	29.70			9.46	20.24	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	06/28/02				10.05	19.65	----------Well Sampled Annually----------					
	09/20/02				10.67	19.03	----------Well Sampled Annually----------					
	12/30/02				7.98	21.72	----------Well Sampled Annually----------					
	03/27/03				9.18	20.52	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	06/30/03				9.68	20.02	----------Well Sampled Annually----------					
	09/15/03				10.30	19.40	----------Well Sampled Annually----------					
	12/04/03				**9.99**	**19.71**	**----------Well Sampled Annually----------**					
MW-21	03/13/02	28.72			9.40	19.32	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0
	06/28/02				9.80	18.92	----------Well Sampled Annually----------					
	09/20/02				10.27	18.45	----------Well Sampled Annually----------					
	12/30/02				7.70	21.02	----------Well Sampled Annually----------					
	03/27/03				9.05	19.67	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	06/30/03				9.48	19.24	----------Well Sampled Annually----------					
	09/15/03				10.06	18.66	----------Well Sampled Annually----------					
	12/04/03				**9.69**	**19.03**	**----------Well Sampled Annually----------**					
MW-22	03/13/02	29.29			9.86	19.43	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	06/28/02				10.65	18.64	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	09/20/02				11.05	18.24	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50	ND<0.500
	12/30/02				8.28	21.01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	03/27/03				9.85	19.44	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	06/30/03				10.20[i]	19.09	----------Well Sampled Annually----------					
	09/15/03				10.81	18.48	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	12/04/03				**10.49**	**18.80**	**----------Well Sampled Annually----------**					

Table 3
Groundwater Elevation and Analytical Data - Groundwater Monitoring Wells
ARCO Service Station #0608
17601 Hesperian Boulevard, San Lorenzo, California

Well Number	Date Sampled		Casing Elevation (feet, MSL)	Top of Screen (ft., MSL)	Bottom of Screen (ft., MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-23	03/13/02		30.99			11.01	19.98	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	06/28/02					11.59	19.40	----------Well Sampled Annually----------					
	09/20/02					12.00	18.99	----------Well Sampled Annually----------					
	12/30/02					9.42	21.57	----------Well Sampled Annually----------					
	03/27/03					11.00	19.99	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	06/30/03					11.47	19.52	----------Well Sampled Annually----------					
	09/15/03					11.84	19.15	----------Well Sampled Annually----------					
	12/04/03					**11.61**	**19.38**	**----------Well Sampled Annually----------**					
MW-25	03/13/02		33.81	27.81	12.81	10.99	22.82	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	06/28/02					11.26	22.55	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	36
	09/20/02					11.65	22.16	117	ND<0.50	ND<0.50	ND<0.50	ND<1.50	259
	12/30/02					9.33	24.48	95 [d]	13	ND<0.50	ND<0.50	ND<0.50	98 [f]
	03/27/03					10.82	22.99	150	ND<0.50	ND<0.50	ND<0.50	ND<0.50	90
	06/30/03	P				11.20	22.61	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	130
	09/15/03	P				11.62	22.19	220	ND<1.0	ND<1.0	ND<1.0	ND<1.0	140
	12/04/03	**P**				**11.41**	**22.40**	**81**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**36**
MW-26	03/13/02		33.71	27.71	12.71	11.27	22.44	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5
	06/28/02					11.70	22.01	----------Well Sampled Annually----------					
	09/20/02					12.10	21.61	----------Well Sampled Annually----------					
	12/30/02					9.60	24.11	----------Well Sampled Annually----------					
	03/27/03					11.15	22.56	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	06/30/03					11.61	22.10	----------Well Sampled Annually----------					
	09/15/03					12.01	21.70	----------Well Sampled Annually----------					
	12/04/03					**11.78**	**21.93**	**----------Well Sampled Annually----------**					

Table 3
Groundwater Elevation and Analytical Data - Groundwater Monitoring Wells
ARCO Service Station #0608
17601 Hesperian Boulevard, San Lorenzo, California

Note:	Samples analyzed by EPA Method 8260B. Prior to March 27, 2003 TPH-g was analyzed by EPA Method 8015; benzene, toluene, ethyl benzene, total xylenes and MTBE were analyzed by EPA Method 8021B.
TPH	= Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015, Modified
MTBE	= Methyl tertiary butyl ether
µg/L	= Micrograms per liter
P	= Purged
NP	=Not Purged
MSL	= Mean sea level
TOC	= Top of casing
ND<	= Not detected at or above specified laboratory method detection limit
a	= Well elevation data obtained from Quarterly Groundwater Monitoring and Site Status Report, Fourth Quarter 1994
b	= Chromatogram Pattern: Unidentified Hydrocarbons C6-C10
c	= Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
d	= Chromatogram Pattern: C6-C10
e	= This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
f	= The continuing calibration was outside the acceptance criteria. This should be considered in evaluating the result for its intended purpose
g	= Groundwater extraction system pumping; inaccurate depth to water.
h	= Groundwater extraction system not pumping.
i	= Sampling frequency changed from quarterly to annually per recommendations in first quarter 2003 groundwater monitoring report.
Source:	The data within this table collected prior to June 2002 was provided to URS by ARCO and their previous consultants. URS has not verified the accuracy of this information.

Table 4

Groundwater Flow Direction and Gradient

ARCO Service Station #0608

17601 Hesperian Boulevard, San Lorenzo, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
06/28/02	West	0.003
09/20/02	West	0.002
12/30/02	West	0.003
03/27/03	West	0.002
06/30/03	West-Southwest	0.001
09/15/03	**West**	**0.003**

Table 5
Fuel Oxygenate Analytical Data
ARCO Service Station #0608
17601 Hesperian Boulevard, San Lorenzo, California

Well Number	Date Sampled	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)
MW-5	03/27/03	ND<100	24	59	ND<0.50	ND<0.50	2.2	NA	NA
	06/30/03	ND<100	22	58	ND<0.50	ND<0.50	2.1	ND<0.50	ND<0.50
	09/15/03	ND<500	ND<100	61	ND<2.5	ND<2.5	2.5	NA	NA
	12/04/03	**ND<100**	**ND<20**	**42**	**ND<0.50**	**ND<0.50**	**1.9**	**NA**	**NA**
MW-8	03/27/03	ND<100	ND<20	33	ND<0.50	ND<0.50	0.53	NA	NA
	06/30/03	ND<100	ND<20	15	ND<0.50	ND<0.50	0.85	ND<0.50	ND<0.50
	09/15/03	ND<100	ND<20	41	ND<0.50	ND<0.50	5.3	NA	NA
	12/04/03	**ND<100**	**ND<20**	**24**	**ND<0.50**	**ND<0.50**	**3.7**	**NA**	**NA**
MW-9	03/27/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	09/15/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-10	03/27/03	ND<1,000	ND<200	330	ND<5.0	ND<5.0	15	NA	NA
	06/30/03	ND<2,000	ND<400	750	ND<10	ND<10	28	ND<10	ND<10
	09/15/03	ND<1,000	ND<200	430	ND<5.0	ND<5.0	15	ND<5.0	ND<5.0
	12/04/03	**ND<500**	**ND<100**	**110**	**ND<2.5**	**ND<2.5**	**4.8**	**NA**	**NA**
MW-11	03/27/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/30/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	09/15/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	12/04/03	**ND<100**	**ND<20**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**NA**	**NA**
E-1A[1]	03/27/03	ND<100	ND<20	60	ND<0.50	ND<0.50	2.3	NA	NA
	06/30/03	ND<100	ND<20	37	ND<0.50	ND<0.50	1.6	ND<0.50	ND<0.50
	09/15/03	ND<100	ND<20	49	ND<0.50	ND<0.50	2.4	ND<0.50	ND<0.50
	12/04/03	**ND<100**	**ND<20**	**19**	**ND<0.50**	**ND<0.50**	**0.89**	**NA**	**NA**
MW-14	03/27/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
MW-15	03/27/03	ND<100	ND<20	17	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/30/03	ND<100	ND<20	12	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	09/15/03	ND<100	ND<20	10	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	12/04/03	**ND<100**	**ND<20**	**6.4**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**NA**	**NA**

Table 5
Fuel Oxygenate Analytical Data
ARCO Service Station #0608
17601 Hesperian Boulevard, San Lorenzo, California

Well Number	Date Sampled	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)
MW-16	03/27/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	09/15/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-18	03/27/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
MW-21	03/27/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
MW-22	03/27/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	09/15/03	ND<1,000	ND<200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
MW-23	03/27/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
MW-25	03/27/03	ND<100	ND<20	90	ND<0.50	ND<0.50	40	NA	NA
	06/30/03	ND<1,000	ND<200	130	ND<5.0	ND<5.0	81	ND<5.0	ND<5.0
	09/15/03	ND<200	ND<40	140	ND<1.0	ND<1.0	71	ND<1.0	ND<1.0
	12/04/03	**ND<100**	**ND<20**	**36**	**ND<0.50**	**ND<0.50**	**17**	**NA**	**NA**
MW-26	03/27/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
642 H	03/27/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	09/15/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	12/04/03	**ND<100**	**ND<20**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**NA**	**NA**
17372 VM	03/27/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	09/15/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	12/04/03	**ND<100**	**ND<20**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**NA**	**NA**

Note:
All fuel oxygenate compounds analyzed using EPA Method 8260B

Abbreviations:

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
NA	= Not analyzed
ND<	= Not detected above laboratory reporting limits.
mg/L	= micrograms per liter
1	= Previously named MW-12

Table 6
Groundwater Extraction System Performance Data
ARCO Service Station #0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

						TPH-g			Benzene			MtBE			Primary
Influent Sample Date	Hour Meter Reading (hours)	System Down Time (%)	Volume Reading (gallons)	Net Volume (gallons)	Average Flow (gpm)	Influent Concen-tration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concen-tration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concen-tration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Primary MtBE Carbon Loading (%)
09/25/91	0	N/A	0	0	0.0	ND	N/A	0.00	N/A	0.000	0.00	N/A	N/A	N/A	0.0
09/26/91	N/A	N/A	1,144	1,144	N/A	38	0.00	0.00	4.8	0.000	0.00	N/A	N/A	N/A	0.0
10/22/91	26	96	12,844	11,700	7.6	ND	N/A	0.00	ND	0.000	0.00	N/A	N/A	N/A	0.0
11/22/91	77	93	52,532	39,688	13.0	ND	N/A	0.00	0.52	0.000	0.00	N/A	N/A	N/A	0.0
12/19/91	322	62	122,540	70,008	4.8	ND	N/A	0.00	ND	0.000	0.00	N/A	N/A	N/A	0.0
01/16/92	994	0	283,289	160,749	4.0	ND	N/A	0.00	ND	0.000	0.00	N/A	N/A	N/A	0.0
02/19/92	1,809	0	485,200	201,911	4.1	370	0.31	0.31	14	0.012	0.01	N/A	N/A	N/A	0.4
03/17/92	2,462	0	662,847	177,647	4.5	160	0.39	0.70	18	0.024	0.04	N/A	N/A	N/A	0.9
04/15/92	3,150	1	851,100	188,253	4.6	200	0.28	0.99	11	0.023	0.06	N/A	N/A	N/A	1.2
05/14/92	3,849	0	1,030,086	178,986	4.3	45	0.18	1.17	1.4	0.009	0.07	N/A	N/A	N/A	1.5
06/19/92	4,712	0	1,229,960	199,874	3.9	ND	N/A	1.17	ND	0.001	0.07	N/A	N/A	N/A	1.5
07/14/92	5,001	52	1,291,201	61,241	3.5	97	0.02	1.19	25.0	0.006	0.08	N/A	N/A	N/A	1.5
08/18/92	N/A	N/A	1,410,018	118,817	N/A	ND	N/A	1.19	ND	0.012	0.09	N/A	N/A	N/A	1.5
09/15/92	6,298	N/A	1,535,640	125,622	3.1	ND	N/A	1.19	ND	0.000	0.09	N/A	N/A	N/A	1.5
10/16/92	7,012	4	1,651,623	115,983	2.7	ND	N/A	1.19	ND	0.000	0.09	N/A	N/A	N/A	1.5
11/18/92	7,809	0	1,768,076	116,453	2.4	ND	N/A	1.19	ND	0.000	0.09	N/A	N/A	N/A	1.5
12/17/92	8,502	0	1,864,300	96,224	2.3	96	0.04	1.23	7.7	0.003	0.09	N/A	N/A	N/A	1.5
01/18/93	8,798	61	1,915,165	50,865	2.9	100	0.04	1.27	13	0.004	0.10	N/A	N/A	N/A	1.6
02/22/93	9,607	0	2,096,930	181,765	3.7	480	0.44	1.71	36	0.037	0.13	N/A	N/A	N/A	2.1
03/15/93	10,113	0	2,205,833	108,903	3.6	310	0.36	2.07	29	0.030	0.16	N/A	N/A	N/A	2.6
04/09/93	10,517	33	2,298,770	92,937	3.8	140	0.17	2.25	11	0.015	0.18	N/A	N/A	N/A	2.8
05/13/93	11,211	15	2,449,160	150,390	3.6	530	0.42	2.67	27	0.024	0.20	N/A	N/A	N/A	3.3
06/04/93	11,734	1	2,543,500	94,340	3.0	170	0.28	2.94	5.2	0.013	0.21	N/A	N/A	N/A	3.7
07/20/93	12,573	24	2,689,697	146,197	2.9	200	0.23	3.17	12	0.010	0.22	N/A	N/A	N/A	4.0
08/16/93	13,219	0	2,791,366	101,669	2.6	150	0.15	3.32	4.9	0.007	0.23	N/A	N/A	N/A	4.1
09/13/93	13,888	0	2,884,736	93,370	2.3	80	0.09	3.41	2.2	0.003	0.23	N/A	N/A	N/A	4.3
10/08/93	14,485	1	2,951,737	67,001	1.9	ND	0.02	3.43	ND	0.001	0.24	N/A	N/A	N/A	4.3
11/19/93	15,494	0	3,036,032	84,295	1.4	ND	0.00	3.43	ND	0.000	0.24	N/A	N/A	N/A	4.3
12/21/93	16,260	0	3,113,565	77,533	1.7	73	0.02	3.45	3.5	0.001	0.24	N/A	N/A	N/A	4.3
01/18/94	16,939	0	3,190,900	77,335	1.9	60	0.04	3.49	3.1	0.002	0.24	N/A	N/A	N/A	4.4
02/17/94	17,658	0	3,273,720	82,820	1.9	ND	0.02	3.51	2.5	0.002	0.24	N/A	N/A	N/A	4.4
03/15/94	18,235	7	3,344,249	70,529	2.0	ND	0.00	3.51	ND	0.001	0.24	N/A	N/A	N/A	4.4
04/21/94	18,849	31	3,418,537	74,288	2.0	110	0.03	3.55	7.8	0.002	0.24	N/A	N/A	N/A	4.4
05/13/94	19,351	5	3,478,910	60,373	2.0	230	0.09	3.63	8.3	0.004	0.25	N/A	N/A	N/A	4.5

Table 6
Groundwater Extraction System Performance Data
ARCO Service Station #0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

						TPH-g			Benzene			MtBE			Primary
Influent Sample Date	Hour Meter Reading (hours)	System Down Time (%)	Volume Reading (gallons)	Net Volume (gallons)	Average Flow (gpm)	Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concentration (µg/L)	Net Removed (pounds)	Removed To Date (pounds)	MtBE Carbon Loading (%)
06/14/94	19,680	57	3,518,608 a	39,698	2.0	230	0.08	3.71	12	0.003	0.25	N/A	N/A	N/A	4.6
07/14/94	20,145	35	3,574,408 b	55,800	2.0	270	0.12	3.83	6.9	0.004	0.26	N/A	N/A	N/A	4.8
08/17/94	20,920	5	51,260 c	91,580 c	2.0	ND	0.10	3.93	1.8	0.003	0.26	N/A	N/A	N/A	4.9
09/12/94	21,549	0	120,910	69,650	1.8	ND	0.00	3.93	ND	0.001	0.26	N/A	N/A	N/A	4.9
10/18/94	22,408	1	211,880	90,970	1.8	ND	0.00	3.93	ND	0.000	0.26	N/A	N/A	N/A	4.9
11/15/94	23,080	0	280,840	68,960	1.7	ND	0.00	3.93	0.66	0.000	0.26	N/A	N/A	N/A	4.9
12/05/94	23,489	15	325,830	44,990	1.8	470	0.09	4.02	32	0.006	0.27	N/A	N/A	N/A	5.0
01/04/95	24,205	1	408,740	82,910	1.9	ND	0.16	4.18	1.1	0.011	0.28	N/A	N/A	N/A	5.2
02/06/95	24,926	9	499,690	90,950	2.1	100	0.04	4.22	2.4	0.001	0.28	N/A	N/A	N/A	5.3
03/02/95	25,465	6	569,180	69,490	2.1	ND	0.03	4.25	ND	0.001	0.28	N/A	N/A	N/A	5.3
04/04/95	26,253	1	672,510	103,330	2.2	290	0.12	4.37	6.6	0.003	0.28	N/A	N/A	N/A	5.5
05/02/95	26,924	0	760,350	87,840	2.2	240	0.19	4.57	7.1	0.005	0.29	N/A	N/A	N/A	5.7
06/05/95	27,721	2	848,810	88,460	1.9	ND	0.09	4.65	ND	0.003	0.29	N/A	N/A	N/A	5.8 f
07/06/95	28,464	0	921,260	72,450	1.6	270	0.08	4.74	2.4	0.001	0.29	N/A	N/A	N/A	N/A g
08/21/95 d	29,568	0	993,320	72,060	1.1	230	0.15	4.89	1.8	0.001	0.29	N/A	N/A	N/A	N/A g
06/05/00 e	29,592	N/A	976,600	N/A	N/A	700	N/A	4.89	7.2	N/A	0.29	361	N/A	0.00	N/A g
06/05/00	29,593	0	979,800	3,200	2.1	700	0.02	4.91	7.2	0.000	0.29	361	0.01	0.01	N/A g
07/08/00	30,352	4	1,131,560	151,760	3.3	133	0.53	5.43	5.1	0.008	0.30	272	0.40	0.41	N/A g
08/07/00	30,955	16	1,228,240	96,680	2.7	144	0.11	5.54	2.8	0.003	0.30	126	0.16	0.57	N/A g
09/08/00	31,528	25	1,306,300	78,060	2.3	261	0.13	5.68	2.7	0.002	0.30	120	0.08	0.65	N/A g
10/10/00	32,230	9	1,393,820	87,520	2.1	114	0.14	5.81	ND	0.001	0.31	ND	0.04	0.69	N/A g
11/07/00	32,880	3	1,472,930	79,110	2.0	128	0.08	5.89	ND	0.000	0.31	98.6	0.03	0.73	N/A g
12/05/00	33,516	5	1,548,840	75,910	2.0	167	0.09	5.99	0.775	0.000	0.31	104	0.06	0.79	N/A g
01/04/01	33,924	43	1,595,340	46,500	1.9	ND	0.03	6.02	ND	0.000	0.31	86.8	0.04	0.83	N/A g
02/06/01	34,556	20	1,672,330	76,990	2.0	203	0.07	6.08	0.572	0.000	0.31	80.5	0.05	0.88	N/A g
03/08/01	34,776	70	1,698,860	26,530	2.0	219	0.05	6.13	ND	0.000	0.31	81.0	0.02	0.90	N/A g
03/24/01	35,088	19	1,741,170	42,310	2.3	NS †	0.07	6.20	NS †	0.000	0.31	NS †	0.03	0.93	N/A g
04/18/01	35,335	59	1,770,860	29,690	2.0	74.5	0.04	6.24	ND	0.000	0.31	97.5	0.02	0.95	N/A g
05/04/01	35,716	0	1,812,690	41,830	1.8	63.3	0.02	6.26	ND	0.000	0.31	93.2	0.03	0.98	N/A g
06/09/01	36,345	27	1,879,710	67,020	1.8	64	0.04	6.30	ND	0.000	0.31	71	0.05	1.03	N/A g
07/05/01 h	36,469	80	1,897,180	17,470	2.3	100	0.01	6.31	ND	0.000	0.31	430	0.04	1.07	N/A g
08/14/01 h	36,822	63	1,928,510	31,330	1.5	290	0.05	6.36	2.2	0.000	0.31	870	0.17	1.24	N/A g
09/05/01	37,219	25	1,977,050	48,540	2.0	ND(100)	0.06	6.42	ND(1.0)	0.000	0.31	340	0.24	1.48	N/A g
10/05/01	37,932	0	2,040,950	63,900	1.5	ND	0.00	6.42	ND	0.000	0.31	150	0.13	1.61	N/A g

Table 6
Groundwater Extraction System Performance Data
ARCO Service Station #0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Influent Sample Date	Hour Meter Reading (hours)	System Down Time (%)	Volume Reading (gallons)	Net Volume (gallons)	Average Flow (gpm)	TPH-g Influent Concentration (µg/L)	TPH-g Net Removed (pounds)	TPH-g Removed To Date (pounds)	Benzene Influent Concentration (µg/L)	Benzene Net Removed (pounds)	Benzene Removed To Date (pounds)	MtBE Influent Concentration (µg/L)	MtBE Net Removed (pounds)	MtBE Removed To Date (pounds)	Primary MtBE Carbon Loading (%)	
11/13/01	38,820	0	2,119,670	78,720	1.5	ND	0.00	6.42	ND	0.000	0.31	92	0.08	1.69	N/A	g
12/11/01	39,496	0	2,186,530	66,860	1.6	65	0.02	6.44	ND	0.000	0.31	83	0.05	1.74	N/A	g
01/04/02	40,063	0	2,248,700	62,170	1.8	ND(50)	0.02	6.46	ND	0.000	0.31	140	0.06	1.80	N/A	g
02/05/02	40,830	0	2,333,090	84,390	1.8	100	0.04	6.49	ND	0.000	0.31	190	0.12	1.91	N/A	g
03/05/02	40,968	79	2,353,460	20,370	2.5	150	0.02	6.51	ND(1.2)	0.000	0.31	350	0.05	1.96	N/A	g
04/08/02	41,735	6	2,448,360	94,900	2.1	400	0.22	6.73	9.6	0.004	0.31	260	0.24	2.20	N/A	g
05/16/02	42,642	1	2,499,320	50,960	0.9	310	0.15	6.88	ND(1.0)	0.002	0.31	330	0.13	2.33	N/A	g
05/31/02	42,832	47	2,503,380	4,060	0.4	NS	0.00	6.88	NS	0.000	0.31	NS	0.00	2.33	N/A	g
08/19/02	44,925		2,520,289	16,909	0.1	NS	0.00	6.88	NS	0.000	0.31	NS	0.00	2.33	N/A	g
10/03/02	44,956		2,520,582	293	0.2	NS	0.00	6.88	NS	0.000	0.31	NS	0.00	2.33	N/A	g
10/07/02	44,956		2,522,394	1,812	N/A	160	0.00	6.89	ND(1.0)	0.000	0.31	130	0.00	2.33	N/A	g
11/07/02	0		2,527,925	5,531	N/A	250	0.01	6.89	ND(1.0)	0.000	0.31	210	0.01	2.34	N/A	g
12/05/02	479	29	2,528,113	188	0.0	220	0.00	6.89	ND(1.0)	0.000	0.31	110	0.00	2.34	N/A	g
01/03/03	1,174	0	2,591,359	63,246	1.5	170	0.10	7.00	ND(1.0)	0.000	0.31	140	0.07	2.40	N/A	g
02/13/03	2,156	0	2,692,710	101,351	1.72	ND(250)	0.07	7.07	ND(2.5)	0.000	0.31	66	0.09	2.49	N/A	g
03/27/03	3,165	0	2,790,668	97,958	1.62	110	0.04	7.11	ND(0.50)	0.000	0.31	71	0.06	2.55	N/A	g
04/24/03	4,172	0	2,865,050	74,382	1.23	120	0.07	7.19	ND(0.50)	0.000	0.31	56	0.04	2.59	N/A	g
05/30/03	4,459	67	2,931,190	66,140	3.83	20	0.04	7.22	ND(5.0)	0.000	0.31	ND(50)	0.00	2.59	N/A	g
06/19/03	4,940	0	2,971,985	40,795	1.41	160	0.03	7.25	ND(5.0)	0.000	0.31	46	0.01	2.59	N/A	g
07/24/03	5,331	86	2,972,362	181,694	1.40	51	0.12	7.38	ND(0.50)	0.000	0.31	41	0.08	2.63	N/A	g
08/28/03	6,165	1	3,040,900	68,538	1.37	ND(50)	0.01	7.39	ND(0.50)	0.000	0.31	30	0.02	2.65	N/A	g
09/25/03	6,838	0	3,095,020	54,120	1.34	ND(50)	0.00	7.39	ND(0.50)	0.000	0.31	28	0.01	2.66	N/A	g
10/23/03	**7,512**	**0**	**3,149,200**	**177,215**	**1.15**	**ND(50)**	**0.00**	**7.39**	**ND(0.50)**	**0.000**	**0.31**	**28**	**0.04**	**2.63**	**N/A**	**g**
11/20/03	**8,182**	**0**	**3,204,612**	**55,412**	**1.38**	**ND(50)**	**0.00**	**7.39**	**ND(0.50)**	**0.000**	**0.31**	**22**	**0.01**	**2.65**	**N/A**	**g**
REPORTING PERIOD:				**9/25/03 to 11/20/03**												
TOTAL GALLONS EXTRACTED:				**7,140,412**												
PERIOD GALLONS EXTRACTED:				**232,627**												
TOTAL POUNDS REMOVED:								**7.39**			**0.31**			**2.65**		
TOTAL GALLONS REMOVED:								**1.21**			**0.04**			**0.43**		
AVERAGE PERIOD FLOW RATE (gpm):					**1.26**											
PERIOD PERCENT OPERATIONAL:					**100%**											
PERIOD POUNDS REMOVED:								**0.00**			**0.000**			**0.05**		
PERIOD GALLONS REMOVED:								**0.00**			**0.000**			**0.01**		

Table 6
Groundwater Extraction System Performance Data
ARCO Service Station #0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

TPH-g = Total purgeable petroleum hydrocarbons as gasoline	a. Totalizer broken; volume estimated from hourmeter and flow rate.
gpm = Gallons per minute	b. Volume estimated from hourmeter and instantaneous flow rate.
µg/L = Micrograms per liter	c. Sewer totalizer replaced July 28, 1994; volume discharged estimated between July 14 and 28, 1994 at 2.0 gpm.
N/A = Not available or not applicable	d. GWE system temporarily shut down August 21, 1995.
ND = Not detected above detection limit	e. GWE system restarted June 5, 2000.
NS = Not sampled	f. Prior to June 5, 2000 primary carbon loading for benzene estimated using isotherm of 8 percent by weight.
† = Assume same concentration as prior sampling event	g. Cannot predict Primary carbon MtBE loading because MtBE wasn't tracked prior to 6/5/00.
	h. System down during construction to main sewer line from approx. 6/25/01; restarted 8/14/01.
Densities: Gasoline = 6.1 lbs/gallon; Benzene = 7.34 lbs/gallon; MTBE = 6.18 lbs/gallon (MTBE not quantified prior to 6/5/00)	i. Hour meter reading not functioning.
	j. Hour meter replaced.

Equations: Net Dissolved Concentration Removed (pounds) = Average influent concentration, [ug/L] x net volume (gallon) x conversion factor [µg to kg] x conversion factor [L to pounds]; (Net dissolved concentration removed is calculated by averaging influent concentratic

Note: The data within this table collected prior to May 2002 was provided to URS by ARCO and their previous consultants. URS has not verified the accuracy of this information.

Table 7
Treatment System Analytical Data
ARCO Service Station #0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Date Sampled	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
INFL (influent to primary carbon)										
09/26/91	38	4.8	0.6	1.6	1.1	NS	NS	NS	NA	NA
10/22/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
11/22/91	ND<30	0.5	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
12/19/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
01/16/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
02/19/92	370	14	0.34	14	2.4	NS	NS	NS	NA	NA
03/17/92	160	18	0.32	0.56	1.6	NS	NS	NS	NA	NA
04/15/92	200	11	ND<0.3	7.3	0.77	NS	NS	NS	NA	NA
05/14/92	45	1.4	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
06/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
07/14/92	97	25	ND<0.5	8.5	ND<0.5	NS	NS	NS	NA	NA
08/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
09/15/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
10/16/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
11/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
12/17/92	96	7.7	13	0.56	9.7	NS	NS	NS	NA	NA
01/18/93	100	13	6.6	1.1	11	NS	NS	NS	NA	NA
02/22/93	480	36	29	4.9	96	NS	NS	NS	NA	NA
03/15/93	310	29	14	4.9	55	NS	NS	NS	NA	NA
04/09/93	140	11	2.8	2.6	17	NS	NS	NS	NA	NA
05/13/93	530	27	12	18	96	NS	NS	NS	NA	NA
06/04/93	170	5.2	1.6	2.5	23	NS	NS	NS	NA	NA
07/20/93	200	12	0.91	8.2	29	NS	NS	NS	NA	NA
08/16/93	150	4.9	0.63	2.9	15	NS	NS	NS	NA	NA
09/13/93	80	2.2	ND<0.5	ND<0.5	4.8	NS	NS	NS	NA	NA
10/08/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
11/19/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
12/21/93	73	3.5	ND<0.5	1.9	8.4	NS	NS	NS	NA	NA
01/18/94	60	3.1	ND<0.5	3.2	4.3	NS	NS	NS	NA	NA
02/17/94	ND<50	2.5	ND<0.5	2.1	3.1	NS	NS	NS	NA	NA
03/15/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
04/21/94	110	7.8	ND<1.0	9.6	ND<1.0	NS	NS	NS	NA	NA
05/13/94	230	8.3	ND<0.5	14	6.0	NS	NS	NS	NA	NA
06/14/94	230	12	ND<0.5	16	1.5	NS	NS	NS	NA	NA
07/14/94	270	6.9	ND<0.5	15	1.9	NS	NS	NS	NA	NA
08/18/94	ND<50	1.8	ND<0.5	1.5	ND<0.5	NS	NS	NS	NA	NA
09/12/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
10/18/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
11/05/94	ND<50	0.66	ND<0.5	2.6	ND<0.5	NS	NS	NS	NA	NA
12/05/94	470	32	0.59	29	6.2	NS	NS	NS	NA	NA
01/04/95	ND<50	1.1	ND<0.50	1.4	ND<0.50	NS	NS	NS	NA	NA
02/06/95	100	2.4	1.1	1.2	2.8	NS	NS	NS	NA	NA
03/02/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA	NA
04/04/95	290	6.6	ND<0.50	10	1.7	NS	NS	NS	NA	NA
05/02/95	240	7.1	ND<0.50	3.2	1.6	NS	NS	NS	NA	NA
06/05/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA	NA
07/06/95	270	2.4	ND<0.50	7.6	1.0	NS	NS	NS	NA	NA
08/21/95	230	1.8	ND<0.50	1.6	0.9	NS	NS	NS	NA	NA
06/05/00	700	7.24	ND<1.00	2.11	ND<1.00	361	NS	NS	NA	NA
07/08/00	133	5.09	0.598	ND<0.500	ND<0.500	272	NS	NS	NA	NA
08/10/00	144	2.80	ND<0.500	1.04	ND<0.500	126	NS	NS	NA	NA
09/08/00	261	2.74	0.826	0.626	ND<0.500	120	NS	NS	NA	NA
10/10/00	114	ND<0.500	1.68	0.843	ND<0.500	ND<2.50	NS	NS	NA	NA

Table 7
Treatment System Analytical Data
ARCO Service Station #0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Date Sampled	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
INFL (influent to primary carbon) (cont.)										
11/07/00	128	ND<0.500	ND<0.500	ND<0.500	ND<0.500	98.6	NS	NS	NA	NA
12/05/00	167	0.775	ND<0.500	ND<0.500	ND<0.500	104	NS	NS	NA	NA
01/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	86.8	NS	NS	NA	NA
02/06/01	203	0.572	ND<0.500	0.513	ND<0.500	80.5	NS	NS	NA	NA
03/08/01	219	ND<0.500	6.16	1.21	0.682	81.0	NS	NS	NA	NA
04/18/01	74.5	ND<0.500	ND<0.500	ND<0.500	ND<0.500	97.5	NS	NS	NA	NA
05/04/01	63.3	ND<0.500	ND<0.500	ND<0.500	ND<0.500	93.2	NS	NS	NA	NA
06/09/01	64	ND<0.50	ND<0.50	ND<0.50	ND<0.50	71	NS	NS	NA	NA
07/05/01	100	ND<0.50	2.5	ND<0.50	ND<0.50	430	NS	NS	NA	NA
08/14/01	290	2.2	3.5	ND<1.0	ND<1.0	870	NS	NS	NA	NA
09/05/01	ND<100	ND<1.0	ND<1.0	ND<1.0	ND<1.0	340	NS	NS	NA	NA
10/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	150	NS	NS	NA	NA
11/13/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	92	NS	NS	NA	NA
12/11/01	65	ND<0.50	0.58	ND<0.50	ND<0.50	83	NS	NS	NA	NA
01/04/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140	NS	NS	NA	NA
02/05/02	100	ND<0.50	ND<0.50	ND<0.50	ND<0.50	190	NS	NS	NA	NA
03/05/02	150	ND<1.2	ND<1.2	ND<1.2	ND<1.2	350	NS	NS	NA	NA
04/08/02	400	9.6	ND<1.0	1.4	ND<1.0	260	NS	NS	NA	NA
05/16/02	310	ND<1.0	ND<1.0	ND<1.0	ND<1.0	330	NS	NS	NA	NA
10/07/02	160	4.1	ND<1.0	ND<1.0	ND<1.0	130	NS	NS	NA	NA
11/07/02	250	ND<0.50	10	0.70	0.77	210	NS	NS	NA	NA
12/05/02	220	ND<1.0	ND<1.0	ND<1.0	ND<1.0	110	NS	NS	NA	NA
01/03/03	170	ND<1.0	ND<1.0	ND<1.0	ND<1.0	140	NS	NS	NA	NA
2/13/03*	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	66	NS	NS	NA	NA
3/27/03*	110	ND<0.50	ND<0.50	ND<0.50	ND<0.50	71	NS	NS	NA	NA
4/24/03*	120	ND<0.50	ND<0.50	ND<0.50	ND<0.50	56	NS	NS	NA	NA
5/30/03*	20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<50	NS	NS	NA	NA
06/19/03	160	ND<0.50	ND<0.50	ND<0.50	ND<0.50	46	NS	NS	NA	NA
07/24/03	51	ND<0.50	ND<0.50	ND<0.50	ND<0.50	41 (47)**	NS	NS	NA	NA
08/28/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	30 (40)**	NS	NS	NA	NA
09/25/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	28	NS	NS	NA	NA
10/23/03	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**28 (28)****	**NS**	**NS**	**NA**	**NA**
11/20/03	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<1.0**	**22**	**NS**	**NS**	**NA**	**NA**
MID-1 (between primary and secondary carbons)										
09/26/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
10/22/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
12/19/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
01/16/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
02/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
03/17/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
04/15/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
05/14/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
06/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
07/14/92	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
08/18/92	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
09/15/92	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
10/16/92	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
11/18/92	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
12/17/92	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
01/18/93	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
02/22/93	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
03/15/93	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
04/09/93	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA

Table 7
Treatment System Analytical Data
ARCO Service Station #0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Date Sampled	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
MID-1 (cont.)										
05/13/93	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
06/04/93	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
07/14/94	ND	ND	ND	ND	ND	NS	NS	NS	NA	NA
08/17/94	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
09/12/94	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
10/18/94	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
11/05/94	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
12/05/94	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
01/04/95	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
02/06/95	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
03/02/95	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
06/05/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
07/08/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
08/10/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<5.00	NS	NS	NA	NA
09/08/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
10/10/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
11/07/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
12/05/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
01/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
02/06/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
03/08/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
04/18/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
05/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
06/09/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
07/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
08/14/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
09/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
10/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
11/13/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.3	NS	NS	NA	NA
12/11/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.7	NS	NS	NA	NA
01/04/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.0	NS	NS	NA	NA
02/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	26	NS	NS	NA	NA
03/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	17	NS	NS	NA	NA
04/08/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	39	NS	NS	NA	NA
05/16/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	58	NS	NS	NA	NA
10/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	55	NS	NS	NA	NA
11/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	100	NS	NS	NA	NA
12/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	51	NS	NS	NA	NA
01/03/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	66	NS	NS	NA	NA
2/13/03*	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	130	NS	NS	NA	NA
3/27/03*	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	120	NS	NS	NA	NA
4/24/03*	280	ND<2.5	ND<2.5	ND<2.5	ND<2.5	110	NS	NS	NA	NA
5/30/03*	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	140	NS	NS	NA	NA
06/19/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	110	NS	NS	NA	NA
07/24/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
08/28/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
09/25/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
10/23/03	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<2.5 (1.3)****	**NS**	**NS**	**NA**	**NA**
11/20/03	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<1.0**	**1.1**	**NS**	**NS**	**NA**	**NA**

Table 7
Treatment System Analytical Data
ARCO Service Station #0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Date Sampled	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
MID-2 (between secondary and teriary carbons)										
06/05/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
07/08/00	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
09/08/00	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
10/10/00	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
11/07/00	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
12/05/00	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
01/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
02/06/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
03/08/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
04/18/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
05/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
06/09/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
07/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
08/14/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
09/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
10/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
11/13/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
12/11/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
01/04/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
02/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
03/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
04/08/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.7	NS	NS	NA	NA
05/16/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
10/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
11/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
12/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
01/03/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
2/13/03*	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.0	NS	NS	NA	NA
3/27/03*	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.94	NS	NS	NA	NA
4/24/03*	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.95	NS	NS	NA	NA
5/30/03*	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.1	NS	NS	NA	NA
06/19/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
07/24/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
08/28/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
09/25/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
10/23/03	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<2.5 (<0.5)****	**NS**	**NS**	**NA**	**NA**
11/20/03	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<1.0**	**ND<0.50**	**NS**	**NS**	**NA**	**NA**
EFFL (effluent to sewer)										
09/26/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
10/22/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
11/22/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
12/19/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
01/16/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
02/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
03/17/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
04/15/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
05/14/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
06/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
07/14/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
08/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
09/15/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
10/16/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
11/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
12/17/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA

Table 7
Treatment System Analytical Data
ARCO Service Station #0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Date Sampled	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
01/18/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
02/22/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
03/15/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
04/09/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
05/13/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
06/04/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
07/20/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
08/16/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
09/13/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
10/08/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
11/19/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
12/21/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
01/18/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
02/17/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
03/15/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
04/21/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
05/13/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
06/14/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
07/14/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
08/17/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
09/12/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
10/18/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
11/05/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
12/05/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
01/04/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA	NA
02/06/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA	NA
03/02/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA	NA
04/04/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA	NA
05/02/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA	NA
06/05/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA	NA
07/06/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA	NA
08/21/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA	NA
06/05/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	7.19	NA
06/12/00	ND<50.0	NS	NS	NS	NS	NS	NS	NS	NA	NA
07/08/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	32.1	ND<10.0	7.08	NA
08/10/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<5.00	23.4	ND<10.0	6.67	NA
09/08/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	29.2	ND<10.0	6.82	NA
10/10/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	ND<20.0	ND<10.0	7.25	NA
11/07/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	ND<20.0	ND<10.0	7.24	NA
12/05/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	44.0	ND<10.0	7.48	NA
01/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	ND<20.0	ND<10.0	7.00	NA
02/06/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	ND<20.0	10.7	7.03	NA
03/08/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	ND<20.0	ND<10.0	7.04	NA
04/18/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	28.5	ND<10.0	7.06	NA
05/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	ND<20.0	ND<10.0	7.31	NA
06/09/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	34	ND<10	7.05	NA
07/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	7.10	NA
08/14/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	14	7.09	NA
09/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	70	ND<10	7.07	NA
10/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	55	ND<10	6.89	NA
11/13/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	150	ND<10	6.98	NA
12/11/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	34	ND<10	7.01	NA
01/04/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	52	ND<10	7.22	NA
02/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	6.91	NA
03/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	6.77	NA

Table 7
Treatment System Analytical Data
ARCO Service Station #0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Date Sampled	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
EFFL (effluent to sewer) (cont.)										
04/08/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	6.52	NA
05/16/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	6.60	NA
10/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
11/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	0.74	ND<2.5	ND<30	ND<10	7.80	NA
12/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<30	ND<10	7.40	0.27
01/03/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<30	ND<10	7.50	NA
2/13/03*	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<30	ND<10	7.15	0.12
3/27/03*	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	32	ND<10	7.5	0.08
4/24/03*	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<30	ND<10	6.95	10.23
5/30/03*	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<30	ND<10	6.95	NA
06/19/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	7.02	9.75
07/24/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	7.07	3.00
08/28/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	7.03	2.12
09/25/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	6.79	2.70
10/23/03	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<2.5 (<0.5)****	**ND<20**	**ND<10**	**6.82**	**3.45**
11/20/03	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<1.0**	**ND<0.50**	**ND<30**	**ND<10**	**6.94**	**0.84**

TPH-g =Total purgeable petroleum hydrocarbons as gasoline, analyzed using EPA Method 8015B/8021B
MtBE =Methyl tert Butyl Ether, analyzed using EPA Method 8015B/8021B
COD =Chemical oxygen demand, analyzed using EPA Method 410.4
TSS =Total suspended solids, analyzed using EPA Method 160.2
DO =Dissolved Oxygen, field measurement
µg/L =Micrograms per liter
mg/L =Milligrams per liter
ND< =Not detected above the laboratory reporting limit.
NA =Not applicable or not available
NS =Not sampled
* =Analyzed with EPA Method 8260
** =MTBE concentration analyzed by EPA methods 8021B and 8260B (Results of EPA Method 8260 shown in parenthesis).

Note: The data within this table collected prior to May 2002 was provided to URS by ARCO and their previous consultants. URS has not verified the accuracy of this information.

ATTACHMENT A

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 # 031204-DW-1 Date 12-4-03 Client Arco 0608

Site 17601 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	
6 (VOA's)	mw-5	4					11.85	13.65		
13	mw-8	3					10.43	20.95		
10	mw-9	3					9.87	18.30		GO
15	mw-10	3					9.95	22.45		
7	mw-11	3					10.84	18.74		
12	E-1A (mw-12)	6	pump running				18.73	24.55		
8	mw-14	3					9.20	23.00		GO
6	mw-15	3					10.47	23.21		
5	mw-16	3					10.99	23.10		GO
4	mw-18	3					9.99	21.55		
1	mw-21	3					9.69	21.60		
2	mw-22	3					10.49	21.50		
3	mw-23	3					11.61	21.70		
11	mw-25	2					11.41	18.50		
9	mw-26	2					11.78	19.45		GO
	642H	3					14.75	—		
	17372VM		unable to gauge well, shack built on top of well				—	—		

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031204-DW-1	Station # 0608
Sampler: Dave Walter	Date: 12-4-03
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 13.65	Depth to Water: 11.85
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; X Disposable Bailer; Positive Air Displacement; Electric Submersible; Extraction Pump; Other: ___

Sampling Method: Bailer; X 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.

1.2 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 3.6 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
12:49	66.7	6.9	903	1.2	light odor
12:51	67.9	6.9	907	2.4	"
12:53	well dewatered @ 2.5 gl.			~~DTW~~ DTW = 13.00	
12:57	66.6	7.0	897	—	DTW = 12.31

Did well dewater? (Yes) (No) Gallons actually evacuated: 3.6

Sampling Time: 12:57 Sampling Date: 12-4-03

Sample I.D.: MW-5 Laboratory: Pace (Sequoia) Other ___

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: Oxy's, Ethanol all by 8260

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge):	1.7 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031204-DW-1	Station # 0608
Sampler: Dave Walter	Date: 12-4-03
Well I.D.: MW-8	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 20.95	Depth to Water: 10.43
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 / X Positive Air Displacement / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / X Disposable Bailer / Extraction Port / Other: ___

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

3.9 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 11.7 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
12:22	66.7	6.9	917	4	light odor
12:27	67.5	7.0	922	8	clear "
12:31	67.7	7.0	919	12	" "

Did well dewater? Yes (No) Gallons actually evacuated: 12

Sampling Time: 12:35 Sampling Date: 12-4-03

Sample I.D.: MW-8 Laboratory: Pace (Sequoia) Other ___

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: Oxy's, Ethanol all by 8260

D.O. (if req'd):	Pre-purge:		mg/L	(Post-purge:)	1.0 mg/L
O.R.P. (if req'd):	Pre-purge:		mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031204-DW-1	Station # 0608
Sampler: Dave Walter	Date: 12-4-03
Well I.D.: MW-10	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth: 22.45	Depth to Water: 9.95
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
- X Positive Air Displacement
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- Bailer
- X 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.

4.6 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 13.8 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
13:16	64.4	7.0	803	4.6	odor/clear
13:31	65.8	6.9	828	9.2	"
13:36	66.4	6.9	833	13.8	"

Did well dewater? Yes (No)

Gallons actually evacuated: 13.8

Sampling Time: 13:30

Sampling Date: 12-4-03

Sample I.D.: MW-10

Laboratory: Pace (Sequoia) Other _____

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: Oxy's, Ethanol all by 8260

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 #: 031204-0W-1	Station # 0608
Sampler: Dave Walter	Date: 12-4-03
Well I.D.: MW-11	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 18.74	Depth to Water: 10.82
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
- X Positive Air Displacement
- Electric Submersible
- Extraction Pump
- Other: ___

Sampling Method:
- Bailer
- X Disposable Bailer
- Extraction Port
- Other: ___

Top of Screen: ___

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

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

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
11:41	63.2	7.0	936	3	clear
11:45	64.5	7.0	953	6	"
11:48	64.9	7.0	956	9	"

Did well dewater? Yes (No)

Gallons actually evacuated: 9

Sampling Time: 11:58

Sampling Date: 12-4-03

Sample I.D.: MW-11

Laboratory: Pace (Sequoia) Other ___

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: Oxy's, Ethanol all by 8260

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.5 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031204-DW-1	Station # 0608
Sampler: Dave Walter	Date: 12-4-03
Well I.D.: E-1A (MW-12)	Well Diameter: 2 3 4 (6) 8 ___
Total Well Depth: 24.55	Depth to Water: 18.73
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
- Positive Air Displacement
- Electric Submersible
- X Extraction Pump
- Other: _____

Sampling Method:
- Bailer
- X Disposable Bailer
- (Extraction Port)
- Other: _____

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

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

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
9:02	63.6	7.0	936	—	clear
	Let port run for 2 min prior to sampling. URS rep was				
	on site to assist in sampling				

Did well dewater? Yes No		Gallons actually evacuated: —	
Sampling Time: 9:07		Sampling Date: 12-4-03	
Sample I.D.: E-1A		Laboratory: Pace (Sequoia) Other _____	
Analyzed for: (TPH-G) (BTEX) MTBE TPH-D		Other: Oxy's, Ethanol all by 8260	
D.O. (if req'd):	Pre-purge: ___ mg/L	(Post-purge):	4.3 mg/L
O.R.P. (if req'd):	Pre-purge: ___ mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031204-DW-1	Station # 0608
Sampler: Dave Walter	Date: 12-4-03
Well I.D.: MW-15	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 23.21	Depth to Water: 10.47
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
- Positive Air Displacement
- Electric Submersible
- Extraction Pump
- Other: ___

Sampling Method:
- Bailer
- (X) 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.

4.7 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 14.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
11:18	61.9	7.0	948	4.7	clear
11:23	62.5	7.0	949	9.4	"
11:28	63.5	7.0	954	14.1	"

Did well dewater? Yes (No)	Gallons actually evacuated: 14.1
Sampling Time: 11:32	Sampling Date: 12-4-03
Sample I.D.: MW-15	Laboratory: Pace (Sequoia) Other ___
Analyzed for: (TPH-G) (BTEX) MTBE TPH-D	Other: Oxy's, Ethanol all by 8260

D.O. (if req'd):	Pre-purge:		mg/L	(Post-purge):	2.6 mg/L
O.R.P. (if req'd):	Pre-purge:		mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031204-0W-1	Station # 0608
Sampler: Dave Walter	Date: 12-4-03
Well I.D.: MW-25	Well Diameter: (2) ~~3~~ 4 6 8 ___
Total Well Depth: 18.50	Depth to Water: 11.41
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~~
~~Positive Air Displacement~~
Electric Submersible
Extraction Pump
Other: ___

Sampling Method:
Bailer
X 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.

1.1 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 3.3 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
1203	64.6	7.0	953	1.1	clear
1205	66.7	7.0	946	2.2	
1206	67.0	7.0	948	3.3	cloudy

Did well dewater? Yes (No)		Gallons actually evacuated: 3.3	
Sampling Time: 1210		Sampling Date: 12-4-03	
Sample I.D.: MW-25		Laboratory: Pace (Sequoia) Other ___	
Analyzed for: (TPH-G) (BTEX) MTBE TPH-D		Other: Oxy's, Ethanol all by 8260	
D.O. (if req'd):	Pre-purge: ___ mg/L	(Post-purge):	1.2 mg/L
O.R.P. (if req'd):	Pre-purge: ___ mV	Post-purge:	___ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031204-DW-1	Station # 0608
Sampler: Dave Walter	Date: 12-4-03
Well I.D.: 642 H	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: —	Depth to Water: 14.75
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / ~~Electric Submersible~~ / (Extraction Pump) / Other: ___

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

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

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

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
10:50	61.0	7.1	925	—	Clear
	Let port run for 2 min prior to Sampling				
		Homeowner # 510-278-4410 (Ryan)			

Did well dewater? Yes No	Gallons actually evacuated: —		
Sampling Time: 10:50	Sampling Date: 12-4-03		
Sample I.D.: 642H	Laboratory: Pace (Sequoia) Other ___		
Analyzed for: (TPH-G) (BTEX) MTBE TPH-D	Other: Oxy's, Ethanol all by 8260		
D.O. (if req'd): Pre-purge:	mg/L	(Post-purge):	3.2 mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031204-DW-1	Station # 0608
Sampler: Dave Walter	Date: 12-4-03
Well I.D.: 17372 VM	Well Diameter: 2 3 4 6 8 ___
Total Well Depth: —	Depth to Water: —
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 / Positive Air Displacement / Electric Submersible / X Extraction Pump / Other: _____

Sampling Method: Bailer / (X) Disposable Bailer / Extraction Port / Other: _____

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

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

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
10:05	55.1	7.2	842	—	clear
	Let pos	t run for 2	min prior		to sampling

Did well dewater? Yes No		Gallons actually evacuated: —	
Sampling Time: 10:05		Sampling Date: 12-4-03	
Sample I.D.: ~~10-05~~ 17372 VM		Laboratory: Pace (Sequoia) Other_____	
Analyzed for: (TPH-G) (BTEX) MTBE TPH-D	Other: Oxy's, Ethanol all by 8260		
D.O. (if req'd): Pre-purge:	mg/L	(Post-purge):	4.7 mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV

Chain of Custody Record

bp

Project Name GWM 031204-DW-1
BP BU/GEM CO Portfolio Retail
BP Laboratory Contract Number: Atlantic Richfield Company
Requested Due Date (mm/dd/yy) 14 day TAT

Date: 12-4-03

On-site Time:	8:25 Temp: 60°
Off-site Time:	13:45 Temp: 60°
Sky Conditions:	Cloudy
Meteorological Events:	
Wind Speed:	0-2 mph Direction:

Send To:	
Lab Name:	SEQUOIA
Lab Address:	885 Jarvis Dr.
	Morgan Hill, CA 95037
Lab PM	Theresa Allen
Tele/Fax:	408-776-9600 / 408-782-6308
Report Type & QC Level:	1 Send EDF Reports
BP/GEM Account No.:	

BP/GEM Facility No.:	ARCO 608
BP/GEM Facility Address:	17601 HESPERIAN BL, SAN LORENZO, CA
Site ID No.	ARCO 608
Site Lat/Long:	
California Global ID #:	T0600100085
BP/GEM PM Contact:	PAUL SUPPLE
Address:	P.O. Box 6549
	Moraga, CA 94570
Tele/Fax:	925-299-8891/925-299-8872

Consultant/Contractor:	URS
Address:	500 12th St., Ste. 200
	Oakland, CA 94609-4014
e-mail EDD:	donna_cosper@URSCorp.com
Consultant/Contractor Project No.:	J5-00000608.01 00427
Consultant Tele/Fax:	510-893-3600/510-874-3268
Consultant/Contractor PM:	Scott Robinson
Invoice to:	Consultant/Contractor or BP/GEM (Circle One)
BP/GEM Work Release No:	INTRIM -50715

Lab Bottle Order No:

Item No.	Sample Description	Time	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Sediments	Matrix: Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Requested Analysis: TPH-G / BTEX 8015/8021 or 8260	Requested Analysis: TPH-D (8015)	Requested Analysis: MTBE (8021)	Requested Analysis: MTBE (8260)	Requested Analysis: MTBE, TAME, ETBE DIPE, TBA (8260)	Requested Analysis: 1,2-DCA & EDB (8260)	Requested Analysis: Ethanol (8260)	Sample Point Lat/Long and Comments
1	MW-5	12:57		X				6				X	X				X		X	
2	MW-8	12:35		↓				3				↓	X				X		X	
3	MW-12	13:30						↓					X				X		X	
4	MW-11	11:57											X				X		X	
5	E-1A	9:00											X				X		X	
6	MW-15	11:37											X				X		X	
7	MW-25	12:10											X				X		X	
8	642-H	10:50											X				X		X	
9	17372 VM	10:05		↓				↓				↓	X				X		X	
10																				

Sampler's Name:	Dave Walter	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:	Blaine Tech	David C. Walter					
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 ___ °F/C Trip Blank Yes ___ No X

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:

0608

Station #

17601 Hesperian Blvd San Lorenzo

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

34

added equip. rinse water 6

any other adjustments

TOTAL GALS. RECOVERED 40

loaded onto BTS vehicle # 11

BTS event #	time	date
031204-OW-1	13:45	12/4/03

signature David C. Stabt

* *

REC'D AT	time	date
		/ /

unloaded by signature

WELLHEAD INSPECTION CHECKLIST
BP / GEM

Page ____ of ____

Date 12-4-03

Site Address 17601 Hesperian Blvd San Lorenzo

Job Number 031204-DW-1 Technician Dave W

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
mw-5	X							
mw-8	X							
mw-9		X						
mw-10		X						
mw-11	X							
E-1A (mw-12)	X							
mw-14	X							
mw-15	X							
mw-16		X						
mw-18		X						
mw-21		X						
mw-22	X							
mw-23	X							
mw-25	X							
mw-26							X	X
642 H	X							

17372 VM

NOTES: mw-26 - Bolts/tabs stripped

17372 - Shack built ontop of well.

ATTACHMENT B

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 noted on 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 Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

18 December, 2003

Scott Robinson
URS Corporation [Arco]
500 12th Street, Suite 200
Oakland, CA 94607

RE: ARCO #0608, San Lorenzo, CA
Work Order: MML0194

Enclosed are the results of analyses for samples received by the laboratory on 12/05/03 18:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Theresa Allen

Theresa Allen
Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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

URS Corporation [Arco]	Project: ARCO #0608, San Lorenzo, CA	MML0194
500 12th Street, Suite 200	Project Number: INTRIM-50715	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/18/03 11:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5	MML0194-01	Water	12/04/03 12:57	12/05/03 18:00
MW-8	MML0194-02	Water	12/04/03 12:35	12/05/03 18:00
MW-10	MML0194-03	Water	12/04/03 13:30	12/05/03 18:00
MW-11	MML0194-04	Water	12/04/03 11:52	12/05/03 18:00
E-1A	MML0194-05	Water	12/04/03 09:02	12/05/03 18:00
MW-15	MML0194-06	Water	12/04/03 11:32	12/05/03 18:00
MW-25	MML0194-07	Water	12/04/03 12:10	12/05/03 18:00
642-H	MML0194-08	Water	12/04/03 10:50	12/05/03 18:00
17372 VM	MML0194-09	Water	12/04/03 10:05	12/05/03 18:00

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

Sequoia Analytical

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

URS Corporation [Arco]	Project: ARCO #0608, San Lorenzo, CA	MML0194
500 12th Street, Suite 200	Project Number: INTRIM-50715	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/18/03 11:52

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MML0194-01) Water Sampled: 12/04/03 12:57 Received: 12/05/03 18:00									
Ethanol	ND	100	ug/l	1	3L15001	12/13/03	12/13/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	**42**	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	**1.9**	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics	**81**	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*78-129*		"	"	"	"	
MW-8 (MML0194-02) Water Sampled: 12/04/03 12:35 Received: 12/05/03 18:00									
Ethanol	ND	100	ug/l	1	3L15001	12/13/03	12/13/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	**24**	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	**3.7**	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		*109 %*	*78-129*		"	"	"	"	

Sequoia Analytical

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

URS Corporation [Arco]	Project: ARCO #0608, San Lorenzo, CA	MML0194
500 12th Street, Suite 200	Project Number: INTRIM-50715	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/18/03 11:52

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 (MML0194-03) Water Sampled: 12/04/03 13:30 Received: 12/05/03 18:00									
Ethanol	ND	500	ug/l	5	3L15001	12/13/03	12/13/03	EPA 8260B	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	**110**	2.5	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
tert-Amyl methyl ether	**4.8**	2.5	"	"	"	"	"	"	
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Gasoline Range Organics	ND	250	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*78-129*		"	"	"	"	
MW-11 (MML0194-04) Water Sampled: 12/04/03 11:52 Received: 12/05/03 18:00									
Ethanol	ND	100	ug/l	1	3L15001	12/13/03	12/14/03	EPA 8260B	
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	"	"	"	"	"	"	
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		*109 %*	*78-129*		"	"	"	"	

Sequoia Analytical

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

URS Corporation [Arco]	Project: ARCO #0608, San Lorenzo, CA	MML0194
500 12th Street, Suite 200	Project Number: INTRIM-50715	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/18/03 11:52

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
E-1A (MML0194-05) Water Sampled: 12/04/03 09:02 Received: 12/05/03 18:00									
Ethanol	ND	100	ug/l	1	3L15001	12/13/03	12/14/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	**19**	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	**0.89**	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		*108 %*	*78-129*		"	"	"	"	
MW-15 (MML0194-06) Water Sampled: 12/04/03 11:32 Received: 12/05/03 18:00									
Ethanol	ND	100	ug/l	1	3L15001	12/13/03	12/14/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	**6.4**	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	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		*109 %*	*78-129*		"	"	"	"	

Sequoia Analytical

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

URS Corporation [Arco]	Project: ARCO #0608, San Lorenzo, CA	MML0194
500 12th Street, Suite 200	Project Number: INTRIM-50715	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/18/03 11:52

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-25 (MML0194-07) Water Sampled: 12/04/03 12:10 Received: 12/05/03 18:00									
Ethanol	ND	100	ug/l	1	3L15001	12/13/03	12/14/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	**36**	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	**17**	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics	**81**	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*78-129*		"	"	"	"	
642-H (MML0194-08) Water Sampled: 12/04/03 10:50 Received: 12/05/03 18:00									
Ethanol	ND	100	ug/l	1	3L15001	12/13/03	12/14/03	EPA 8260B	
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	"	"	"	"	"	"	
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		*104 %*	*78-129*		"	"	"	"	

Sequoia Analytical

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

URS Corporation [Arco]	Project: ARCO #0608, San Lorenzo, CA	MML0194
500 12th Street, Suite 200	Project Number: INTRIM-50715	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/18/03 11:52

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
17372 VM (MML0194-09) Water	**Sampled: 12/04/03 10:05**	**Received: 12/05/03 18:00**							
Ethanol	ND	100	ug/l	1	3L15001	12/13/03	12/14/03	EPA 8260B	
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	"	"	"	"	"	"	
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		*108 %*	*78-129*		"	"	"	"	

Sequoia Analytical

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

URS Corporation [Arco]	Project: ARCO #0608, San Lorenzo, CA	MML0194
500 12th Street, Suite 200	Project Number: INTRIM-50715	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/18/03 11:52

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 3L15001 - EPA 5030B P/T										
Blank (3L15001-BLK1)				Prepared & Analyzed: 12/13/03						
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	*5.43*		"	*5.00*		*109*	*78-129*			
Laboratory Control Sample (3L15001-BS1)				Prepared & Analyzed: 12/13/03						
Ethanol	189	100	ug/l	200		94.5	31-186			
tert-Butyl alcohol	45.9	20	"	50.0		91.8	0-206			
Methyl tert-butyl ether	9.74	0.50	"	10.0		97.4	63-137			
Di-isopropyl ether	9.08	0.50	"	10.0		90.8	76-130			
Ethyl tert-butyl ether	9.36	0.50	"	10.0		93.6	61-141			
tert-Amyl methyl ether	9.26	0.50	"	10.0		92.6	56-140			
1,2-Dichloroethane	10.5	0.50	"	10.0		105	77-136			
1,2-Dibromoethane (EDB)	9.41	0.50	"	10.0		94.1	77-132			
Benzene	9.84	0.50	"	10.0		98.4	78-124			
Toluene	9.24	0.50	"	10.0		92.4	78-129			
Ethylbenzene	8.88	0.50	"	10.0		88.8	84-117			
Xylenes (total)	25.4	0.50	"	30.0		84.7	83-125			
Surrogate: 1,2-Dichloroethane-d4	*5.37*		"	*5.00*		*107*	*78-129*			

Sequoia Analytical

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

URS Corporation [Arco]	Project: ARCO #0608, San Lorenzo, CA	MML0194
500 12th Street, Suite 200	Project Number: INTRIM-50715	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/18/03 11:52

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 3L15001 - EPA 5030B P/T										
Laboratory Control Sample (3L15001-BS2)				Prepared & Analyzed: 12/13/03						
Methyl tert-butyl ether	8.51	0.50	ug/l	9.92		85.8	63-137			
Benzene	5.63	0.50	"	6.40		88.0	78-124			
Toluene	30.3	0.50	"	29.7		102	78-129			
Ethylbenzene	6.98	0.50	"	6.96		100	84-117			
Xylenes (total)	33.2	0.50	"	33.7		98.5	83-125			
Gasoline Range Organics	424	50	"	440		96.4	70-113			
Surrogate: 1,2-Dichloroethane-d4	*5.25*		"	*5.00*		*105*	*78-129*			
Laboratory Control Sample Dup (3L15001-BSD1)				Prepared & Analyzed: 12/13/03						
Ethanol	208	100	ug/l	200		104	31-186	9.57	37	
tert-Butyl alcohol	44.1	20	"	50.0		88.2	0-206	4.00	22	
Methyl tert-butyl ether	9.88	0.50	"	10.0		98.8	63-137	1.43	13	
Di-isopropyl ether	9.29	0.50	"	10.0		92.9	76-130	2.29	9	
Ethyl tert-butyl ether	9.47	0.50	"	10.0		94.7	61-141	1.17	9	
tert-Amyl methyl ether	9.68	0.50	"	10.0		96.8	56-140	4.44	12	
1,2-Dichloroethane	11.1	0.50	"	10.0		111	77-136	5.56	13	
1,2-Dibromoethane (EDB)	9.56	0.50	"	10.0		95.6	77-132	1.58	9	
Benzene	10.1	0.50	"	10.0		101	78-124	2.61	12	
Toluene	9.34	0.50	"	10.0		93.4	78-129	1.08	10	
Ethylbenzene	9.27	0.50	"	10.0		92.7	84-117	4.30	10	
Xylenes (total)	26.7	0.50	"	30.0		89.0	83-125	4.99	11	
Surrogate: 1,2-Dichloroethane-d4	*5.30*		"	*5.00*		*106*	*78-129*			
Laboratory Control Sample Dup (3L15001-BSD2)				Prepared & Analyzed: 12/13/03						
Methyl tert-butyl ether	8.46	0.50	ug/l	9.92		85.3	63-137	0.589	13	
Benzene	5.62	0.50	"	6.40		87.8	78-124	0.178	12	
Toluene	30.4	0.50	"	29.7		102	78-129	0.329	10	
Ethylbenzene	7.34	0.50	"	6.96		105	84-117	5.03	10	
Xylenes (total)	33.4	0.50	"	33.7		99.1	83-125	0.601	11	
Gasoline Range Organics	405	50	"	440		92.0	70-113	4.58	9	
Surrogate: 1,2-Dichloroethane-d4	*5.48*		"	*5.00*		*110*	*78-129*			

Sequoia Analytical

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

URS Corporation [Arco]	Project: ARCO #0608, San Lorenzo, CA	MML0194
500 12th Street, Suite 200	Project Number: INTRIM-50715	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/18/03 11:52

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

MML0194

Page 1 of 1

Chain of Custody Record

Project Name GWM 03120-4-DW-1
BP BU/GEM CO Portfolio Retail
BP Laboratory Contract Number: Atlantic Richfield Company
Date: 12-4-03 **Requested Due Date (mm/dd/yy)** 14 day TAT

On-site Time:	8:25 Temp: 60°
Off-site Time:	13:45 Temp: 60°
Sky Conditions:	Cloudy
Meteorological Events:	
Wind Speed:	0-2 mph Direction:

Send To:	BP/GEM Facility No.: ARCO 608	Consultant/Contractor: URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 17601 HESPERIAN BL, SAN LORENZO, CA	Address: 500 12th St., Ste. 200
Lab Address: 885 Jarvis Dr.	Site ID No. ARCO 608	Oakland, CA 94609-4014
Morgan Hill, CA 95037	Site Lat/Long:	e-mail EDD: donna_cosper@URSCorp.com
	California Global ID #: T0600100085	Consultant/Contractor Project No.: 35-00000608.01 00427
Lab PM Theresa Allen	BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-893-3600/510-874-3268
Tele/Fax: 408-778-9600 / 408-782-6308	Address: P.O. Box 8549	Consultant/Contractor PM: Scott Robinson
Report Type & QC Level: 1 Send EDF Reports	Moraga, CA 94570	Invoice to: Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Account No.:	Tele/Fax: 925-299-8891/925-299-8872	BP/GEM Work Release No: INTRIM -50715

Lab Bottle Order No:

Item No.	Sample Description	Time	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Sediments	Matrix: Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Requested Analysis: TPH-G / BTEX (8015/8021) or 8260	Requested Analysis: TPH-D (8015)	Requested Analysis: MTBE (8021)	Requested Analysis: MTBE (8260)	Requested Analysis: MTBE, TAME, ETBE DIPE, TBA (8260)	Requested Analysis: 1,2-DCA & EDB (8260)	Requested Analysis: Ethanol (8260)	Sample Point Lat/Long and Comments
1	MW-5	12:57		X			MML0194-01	6				X	X				X		X	
2	MW-8	12:35					-02	3					X				X		X	
3	MW-10	13:30					-03						X				X		X	
4	MW-11	11:52					-04						X				X		X	
5	E-1A	9:02					-05						X				X		X	
6	MW-15	11:32					-06						X				X		X	
7	MW-25	12:16					-07						X				X		X	
8	642-M	10:50					-08						X				X		X	
9	17372 VM	10:05					-09						X				X		X	
10																				

Sampler's Name: Dave Walter	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Blaine Tech	David C. Holt				12/5	11:00
Shipment Date:		12/5	18:00		12/5/03	1800
Shipment Method:						
Shipment Tracking No:						

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

In Place Yes ___ No X Temperature Blank Yes ___ No X Cooler Temperature on Receipt 5 °F/C Trip Blank Yes ___ No X

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

BP COC Rev. 1 2/5/02

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP
REC. BY (PRINT) TL
WORKORDER: MML0194

DATE REC'D AT LAB: 12/5/03
TIME REC'D AT LAB: 1800
DATE LOGGED IN: 12-8-03

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

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / (Absent)	01		MW-5	(6) VOA	HCl	W	12/4-5	3237040
Intact / Broken*	02		MW-8	(3) VOA	HCl			
2. Chain-of-Custody (Present) / Absent*	03		MW-10					
3. Traffic Reports or Packing List: Present / (Absent)	04		MW-11					
	05		E-1A					
4. Airbill: Airbill / Sticker Present / (Absent)	06		MW-15					
	07		MW-25					
5. Airbill #:	08		C42-H					
6. Sample Labels: (Present) / Absent	09		17372 VOA	↓	↓	↓	↓	↓
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: 5°C Is temp 4 +/-2°C? (Yes) / No**								

(Acceptance range for samples requiring thermal pres.)
**Exception (if any): Metals / DFF (Direct From Field) or Problem COC

12/5-03

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

ATTACHMENT C

HISTORICAL GROUNDWATER DATA TABLES

Table 2
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Number		Date Sampled		Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-5	††	03/13,14/96		33.99	9.75	24.24	1,600	30	<10	13	<10	NA	NM
		05/28,29/96			11.48	22.51	240	2.4	<0.50	<0.50	<0.50	NA	NM
		08/28/96			12.58	21.41	250	210	8.0	<1.0	<1.0	210	NM
		11/25,26/96			12.07	21.92	<500	<5.0	<5.0	<5.0	<5.0	280	NM
		03/31/97	†		12.42	21.57	<50	<0.50	<0.50	<0.50	<0.50	41	NM
		06/25/97			12.64	21.35	NS	NS	NS	NS	NS	NS	NM
		09/09,10/97			12.75	21.24	<50	<0.50	<0.50	<0.50	<0.50	19	NM
		11/24,25/97			12.60	21.39	<50	0.9	<0.50	<0.50	<0.50	23	1.4
		03/19,20/98			10.43	23.56	61	1.0	0.56	0.55	<0.50	75	1.2
		06/04/98			11.24	22.75	150	<0.30	<0.30	0.32	0.74	20	1.4
		09/21,22/98			12.45	21.54	110	0.59	<0.50	<0.50	<0.50	25	1.8
		12/14,15/98			11.85	22.14	<200	<2.0	<2.0	<2.0	<2.0	600	1.2
		03/15,16/99			11.05	22.94	50.9	<0.50	<0.50	<0.50	<0.50	211	1.0
		06/14,15/99			12.25	21.74	211	<0.50	<0.50	<0.50	<0.50	212	1.2
		09/15,16/99			12.70	21.29	139	<0.50	<0.50	<0.50	<0.50	184	2.4
		12/08,09/99			12.56	21.43	87.4	<0.50	<0.50	<0.50	<0.50	197	1.2
		03/15/00			10.10	23.89	82.4	<0.50	0.710	<0.50	0.579	906	1.2
		03/15/00	a		--	--	--	--	--	--	--	1,230	--
		06/13/00	b		12.44	21.55	96.7	<0.50	<0.50	<0.50	<0.50	551	2.0
		9/19,20/00			12.45	21.54	<50.0	<0.50	<0.50	<0.50	<0.50	51	2.2
		12/14,15/00			12.03	21.96	152.0	1.33	0.56	<0.50	<0.50	<2.50	1.0
		3/8,9/01			10.81	23.18	<50.0	<0.50	<0.50	<0.50	<0.50	73.8	1.6
		06/14/01			12.25	21.74	<50.0	<0.50	<0.50	<0.50	<0.50	47.0	1.8
		09/26/01			12.83	21.16	<50.0	<0.50	<0.50	<0.50	<0.50	270.0	2.0
		12/29/01			10.97	23.02	<50.0	<0.50	<0.50	<0.50	0.95	370.0	2.4
		03/13/02			11.46	22.53	530	<2.5	<2.5	<2.5	<2.5	1100	3.00
MW-7		03/13,15/96		34.40	9.73	24.67	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		05/28,29/96			11.60	22.80	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		08/28,29/96			12.63	21.77	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		11/25,26/96			12.10	22.30	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		03/31-04/01/97			11.72	22.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		06/25/97			12.98	21.42	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		09/09,10/97			12.25	22.15	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
		11/24,25/97			12.57	21.83	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.0
		03/19,20/98			10.35	24.05	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.0
		06/04/98			11.30	23.10	<50	<0.30	<0.30	<0.30	<0.60	<10	0.7
		09/21,22/98			12.48	21.92	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.4
		12/14,15/98			11.90	22.50	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.2
		03/15,16/99			11.10	23.30	<50	<0.50	<0.50	<0.50	<0.50	<	0.0
		06/14,15/99			Removed From Gauging and Sampling Program								
MW-8		03/13,14/96		32.79	8.90	23.89	670	5.1	<2.0	<2.0	<2.0	NA	NM
		05/28,29/96			10.58	22.21	490	<1.0	<1.0	0.91	0.91	NA	NM
		08/28/96			11.30	21.49	680	29	2.1	3.0	2.4	80	NM
		11/25/96			10.80	21.99	620	1.2	2.6	2.9	2.0	46	NM
		03/31-04/01/97			10.76	22.03	530	<1.0	1.7	2.0	3.8	380	NM
		06/25/97			11.65	21.14	480	6.7	0.69	0.8	0.71	88	NM
		09/09,10/97			11.67	21.12	570	57	<1.0	2.1	1.7	57	2.0
		09/09,10/97	a		--	--	--	--	--	--	--	48	--
		11/24,25/97			11.50	21.29	530	3.0	1.7	1.9	1.5	26	2.0
		03/19,20/98			9.40	23.39	440	1.4	<0.50	<0.50	3.7	140	2.2
		06/03/98			10.25	22.54	360	2.2	1.2	1.8	1.0	47	0.3
		09/21,22/98			11.37	21.42	380	<2.5	<2.5	<2.5	<2.5	620	0.0
		12/14,15/98			10.80	21.99	<50	<0.50	<0.50	<0.50	<0.50	1,600	0.0
		03/15,16/99			10.00	22.79	<500	<5.0	<5.0	<5.0	<5.0	625	0.0
		06/14,15/99			11.17	21.62	166	<0.50	<0.50	<0.50	<0.50	141	NM
		09/15,16/99			11.65	21.14	<500	<5.0	<5.0	<5.0	<5.0	2,380	2.4
		12/08,09/99			11.48	21.31	213	<0.50	<0.50	<0.50	<0.50	4,160	2.8
		03/15/00			9.38	23.41	133	<0.50	3.44	<0.50	0.548	1,350	2.2
		03/15/00	a		--	--	--	--	--	--	--	1,980	--
		06/13/00	b		11.93	20.86	227	<0.50	<0.50	<0.50	<0.50	657	1.0
		9/19,20/2000			11.46	21.33	191	1.7	3.2	<0.50	1.2	160	1.0
		12/14,15/00			10.97	21.82	243	<0.50	<0.50	<0.50	<0.50	243	2.0
		3/8,9/01			9.80	22.99	144	<0.50	<0.50	<0.50	<0.50	188	3.0
		06/14/01			11.22	21.57	150	3.2	0.75	<0.50	1.0	230	3.4
		09/26/01			10.80	21.99	140	<0.50	0.58	<0.50	1.9	170	0.6
		12/29/01			9.85	22.94	<50.0	<0.50	<0.50	<0.50	<0.50	560	4.2
		03/13/02			10.30	22.49	500	<2.5	<2.5	<2.5	<2.5	1,100	2.0

Table 2
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Number		Date Sampled		Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-9		03/13,15/96		32.11	7.65	24.46	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		05/28/96			9.67	22.44	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		08/28,29/96			10.78	21.33	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		11/25/96			10.24	21.87	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		03/31-04/01/97			9.95	22.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		06/25/97			10.85	21.26	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		09/09,10/97			10.87	21.24	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
		11/24,25/97			10.70	21.41	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
		03/19,20/98			8.63	23.48	<50	<0.50	<0.50	<0.50	<0.50	58	4.8
		06/04/98			9.35	22.76	<50	<0.30	<0.30	<0.30	<0.60	<10	2.0
		09/21,22/98			10.55	21.56	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
		12/14,15/98			9.98	22.13	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
		03/15,16/99			9.10	23.01	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.0
		06/14,15/99			10.32	21.79	<50	<0.50	<0.50	<0.50	<0.50	3.27	2.2
		09/15,16/99			10.83	21.28	<50	<0.50	<0.50	<0.50	<0.50	<5.0	3.2
		12/08,09/99			10.70	21.41	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.6
		03/15/00			8.58	23.53	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
		06/13/00	b		10.48	21.63	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
		9/19,20/00			10.53	21.58	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
		12/14,15/00			10.35	21.76	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
		3/8,9/01			9.05	23.06	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
		06/14/01			10.33	21.78	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
		09/26/01			10.82	21.29	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
		12/29/01			8.82	23.29	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
		03/13/02			9.49	22.62	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
MW-10	††	03/13,14/96		31.67	7.78	23.89	870	35	<5.0	5.2	7.0	NA	NM
		05/29/96			10.00	21.67	800	<1.0	<1.0	<1.0	<1.0	NA	NM
		08/28/96			10.93	20.74	NS	NS	NS	NS	NS	NS	NM
		11/25,26/96			10.45	21.22	1,100	6.0	4.9	3.8	9.5	200	NM
		03/31/97	†		10.15	21.52	160	<0.50	<0.50	<0.50	<0.50	140	NM
		06/25/97			10.99	20.68	800	4.2	1.4	1.5	1.4	170	NM
		09/09,10/97			11.08	20.59	950	<1.2	3.3	2.5	3.7	240	2.0
		09/09,10/97	a		–	–	–	–	–	–	–	210	–
		11/24,25/97			10.85	20.82	920	5.7	6.7	<5.0	<5.0	160	2.4
		11/24,25/97			–	–	–	–	–	–	–	160	–
		03/19/98			8.78	22.89	330	1.7	<0.50	<0.50	<0.50	130	1.0
		06/04/98			9.59	22.08	680	<0.30	4.8	2.3	8.6	79	0.0
		09/21,22/98			10.77	20.90	650	<0.50	<0.50	3.5	1.3	99	0.0
		12/14/98			10.18	21.49	828	<1.0	<1.0	3.39	<1.0	152	0.4
		03/15,16/99			9.30	22.37	910	17.6	1.3	5.24	<1.0	268	0.0
		06/14,15/99			10.57	21.10	643	<0.50	0.761	1.13	1.35	232	NM
		09/15,16/99			11.03	20.64	655	<1.25	1.26	<1.25	<1.25	315	5.8
		12/08,09/99			10.88	20.79	898	5.7	1.29	<1.0	<1.0	236	5.6
		03/15/00			8.68	22.99	459	<1.0	<1.0	<1.0	<1.0	266	2.2
		03/15/00	a		–	–	–	–	–	–	–	342	–
		06/13/00	b		10.85	20.82	617	6.82	2.77	3.07	1.92	437	1.0
		9/19,20/00			10.70	20.97	527	<0.50	0.86	0.99	1.19	413	2.2
		12/14,15/00			10.35	21.32	456	10.50	1.01	0.60	<0.50	145	4.0
		3/8,9/01			9.12	22.55	509	<0.50	21.90	3.16	3.55	161	3.2
		06/14/01			10.56	21.12	710	9.20	2.60	<0.50	1.50	290	3.0
		09/26/01			10.98	20.69	580	<0.50	1.60	1.50	1.60	250	2.6
		12/29/01			9.06	22.61	410	<0.50	6.70	2.50	2.90	950	3.2
		03/13/02			9.68	21.99	680	<5.0	<5.0	<5.0	<5.0	570	3.2
MW-11		03/13,14/96		32.54	8.60	23.94	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		05/28/96			10.55	21.99	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		08/28/96			11.52	21.02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		11/25/96			11.00	21.54	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		03/31-04/01/97			10.88	21.66	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		06/25/97			11.65	20.89	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		09/09,10/97			11.75	20.79	80	<0.50	<0.50	<0.50	0.65	<2.5	2.0
		11/24,25/97			11.50	21.04	<50	<0.50	<0.50	<0.50	<0.50	3.8	2.4
		03/19/98			9.43	23.11	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
		06/03/98			10.27	22.27	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.8
		09/21,22/98			11.43	21.11	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0
		12/14/98			10.85	21.69	<50	<0.50	<0.50	<0.50	<0.50	<2.0	1.4
		03/15,16/99			10.05	22.49	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.2

Table 2
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Number		Date Sampled		Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-11		06/14,15/99			11.25	21.29	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4
(cont.)		09/15/99			11.68	20.86	<50	<0.50	<0.50	<0.50	<0.50	<5.0	3.4
		12/08,09/99			11.53	21.01	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0
		03/15/00			9.32	23.22	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.7
		06/13/00	b		11.05	21.49	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0
		9/19,20/00			11.37	21.17	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
		3/8,9/01			11.00	21.54	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0
		3/8,9/01			9.78	22.76	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
		06/14/01			11.23	21.31	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.4
		09/26/01			11.70	20.84	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.6
		12/29/01			9.91	22.63	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
		03/13/02			10.38	22.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
E-1A	††	03/13,14/96		33.06	10.35	22.71	2,700	38	<5.0	130	6.2	NA	NM
(MW-12)		05/28,29/96			11.50	21.56	1,400	410	18	55	5.5	NA	NM
		08/28/96			11.70	21.36	NS	NS	NS	NS	NS	NS	NM
		11/25,26/96			11.18	21.88	4,300	13	<5.0	100	20	220	NM
		03/31/97	†		12.65	20.41	1,900	7.9	<2.0	62	3.5	140	NM
		06/25/97			11.82	21.24	4,900	21	<5.0	53	6.8	160	NM
		09/09,10/97			11.85	21.21	3,200	9.0	<5.0	45	<5.0	85	2.0
		09/09,10/97	a		--	--	--	--	--	--	--	70	--
		11/24,25/97			11.75	21.31	2,000	10	<2.5	42	2.8	65	1.0
		03/19,20/98			9.65	23.41	11,000	1,300	<0.50	550	380	220	6.2
		06/04/98	b		10.47	22.59	4,500	3.3	0.92	41	4.0	51	1.5
		09/21,22/98			11.60	21.46	3,300	1.7	<0.50	29	3.6	52	1.8
		12/14,15/98			11.10	21.96	3,100	21	6.7	28	<5.0	140	1.0
		03/15,16/99			10.25	22.81	3,900	24.5	<20	41.2	<20	296	1.0
		06/14,15/99			11.47	21.59	5,090	<5.0	<5.0	6.01	<5.0	234	1.4
		09/15,16/99			11.90	21.16	2,200	7.93	<5.0	10.50	<5.0	142	3.2
		12/08,09/99			11.75	21.31	1,490	6.57	1.36	9.21	<1.25	364	NM
		03/15/00			9.52	23.54	4,430	26.1	<10.0	15.3	<10.0	786	1.8
		03/15/00	a		--	--	--	--	--	--	--	908	--
		06/13/00	b		22.31	10.75	262	9.52	0.584	0.535	<0.5	534	3.4
		9/19,20/00			23.15	9.91	143	1.01	<0.50	<0.50	<0.50	76	2.8
		12/14,15/00			NA	NA	181	<0.50	<0.50	0.789	<0.50	100	1.4
		3/8,9/01			23.80	9.26	370	1.78	<0.50	0.765	<0.50	76	1.6
		06/14/01			21.10	11.96	180	<0.50	<0.50	0.54	<0.50	100	2.6
		09/26/01			19.95	13.11	<50.0	<0.50	<0.50	<0.50	<0.50	210	1.8
		12/29/01			22.40	10.66	<50.0	<0.50	<0.50	<0.50	<0.50	190	2.0
		03/13/02			21.75	11.31	200	<0.50	<0.50	<0.50	<0.50	310	3.4
MW-13		03/13,15/96		35.42	10.90	24.52	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		05/28,29/96			12.90	22.52	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		08/28/96			13.89	21.53	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		11/25/96			13.41	22.01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		03/31-04/01/97			13.11	22.31	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		06/25/97			13.98	21.44	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		09/09,10/97			14.09	21.33	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
		11/24,25/97			13.90	21.52	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
		03/19,20/98			11.80	23.62	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.8
		06/04/98			12.63	22.79	<50	<0.30	<0.30	<0.30	<0.60	<10	1.3
		09/21,22/98			13.77	21.65	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
		12/14,15/98			13.28	22.14	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
		03/15,16/99	b		12.48	22.94	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.2
		06/14,15/99			Removed From Gauging and Sampling Program								
MW-14		03/13,15/96		30.46	6.63	23.83	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		05/28/96			8.83	21.63	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		08/28/96			9.83	20.63	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		11/25/96			9.33	21.13	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		03/31-04/01/97			9.04	21.42	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		06/25/97			9.94	20.52	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		09/09,10/97			10.08	20.38	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
		11/24,25/97			9.78	20.68	<50	<0.50	<0.50	<0.50	<0.50	2.9	2.6
		03/19/98			7.92	22.54	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
		06/03/98			8.52	21.94	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.1
		09/21,22/98			9.72	20.74	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.8
		12/14/98			9.15	21.31	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.8
		03/15,16/99			8.20	22.26	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.6

Table 2
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Number	Date Sampled		Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-14	06/14,15/99			9.54	20.92	Well Sampled Annually						
(cont.)	09/15/99			9.98	20.48	Well Sampled Annually						
	12/08,09/99			9.84	20.62	Well Sampled Annually						
	03/15/00			7.78	22.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.6
	06/13/00	b		9.45	21.01	Well Sampled Annually						
	9/19,20/00			9.68	20.78	Well Sampled Annually						
	12/14,15/00			9.14	21.32	Well Sampled Annually						
	3/8,9/01			8.10	22.36	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	06/14/01			9.51	20.95	Well Sampled Annually						
	09/26/01			9.96	20.50	Well Sampled Annually						
	12/29/01			7.62	22.84	Well Sampled Annually						
	03/13/02			8.56	21.90	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
MW-15	03/13,15/96		31.41	8.13	23.28	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28,29/96			10.30	21.11	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96			11.30	20.11	<50	<0.50	<0.50	<0.50	<0.50	5.3	NM
	11/25/96			10.83	20.58	<50	<0.50	<0.50	<0.50	<0.50	12	NM
	03/31-04/01/97			10.45	20.96	<50	<0.50	<0.50	<0.50	<0.50	7.2	NM
	06/25/97			11.39	20.02	<50	<0.50	<0.50	<0.50	<0.50	7.0	NM
	09/09,10/97			11.50	19.91	Well Inaccessible						
	11/24,25/97					Well Inaccessible						
	03/19/98			9.15	22.26	<50	<0.50	<0.50	<0.50	<0.50	5.3	2.2
	06/04/98			NM		Well Inaccessible						
	09/21,22/98			NM		Well Inaccessible						
	12/14/98			10.63	20.78	<50	<0.50	<0.50	<0.50	<0.50	48.2	1.8
	03/15,16/99			NM		Well Inaccessible						
	06/14,15/99			NM		Well Inaccessible						
	09/15, 16/99			NM		Well Inaccessible						
	12/08,09/99			11.28	20.13	<50	<0.5	<0.5	<0.5	<0.5	167.0	NM
	03/15/00			9.03	22.38	<50	<0.5	<0.5	<0.5	<0.5	82.1	1.5
	03/15/00	a		--	--	--	--	--	--	--	105	--
	06/13/00	b		10.96	20.45	<50	<0.5	0.703	<0.5	0.870	69.8	2.0
	9/19,20/00			11.10	20.31	<50	<0.5	<0.5	<0.5	<0.5	156.0	2.2
	12/14,15/00			NM	NA	Well Inaccessible						
	3/8,9/01			9.48	21.93	<50	<0.5	<0.5	<0.5	<0.5	63.8	2.6
	06/14/01			10.95	20.46	<50	<0.5	<0.5	<0.5	<0.5	26.0	3.0
	09/26/01			11.38	20.03	<50	<0.5	<0.5	<0.5	<0.5	17.0	1.2
	12/29/01			9.41	22.00	<50	<0.5	<0.5	<0.5	<0.5	30.0	2.2
	03/13/02			10.03	21.38	<50	<0.5	<0.5	<0.5	<0.5	21.0	1.2
MW-16	03/13/96		31.39	8.62	22.77	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96			10.90	20.49	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96			11.84	19.55	<50	<0.50	<0.50	<0.50	<0.50	89	NM
	11/25/96			11.32	20.07	<50	<0.50	<0.50	<0.50	<0.50	66	NM
	03/31-04/01/97			11.06	20.33	<50	<0.50	<0.50	<0.50	<0.50	49	NM
	06/25/97			11.92	19.47	<50	<0.50	<0.50	<0.50	<0.50	59	NM
	09/09,10/97			12.03	19.36	<50	<0.50	<0.50	<0.50	<0.50	63	3.0
	09/09,10/97	a		--	--	--	--	--	--	--	86	--
	11/24,25/97			11.76	19.63	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	03/19/98			9.80	21.59	<50	<0.50	<0.50	<0.50	<0.50	8.4	3.0
	06/03/98			10.55	20.84	<50	<0.50	<0.50	<0.50	<0.50	22	1.6
	09/21,22/98			11.77	19.62	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.2
	12/14/98			11.20	20.19	<50	<0.50	<0.50	<0.50	<0.50	25	1.0
	03/15,16/99			10.30	21.09	<50	<0.50	<0.50	<0.50	<0.50	<5.0	3.6
	06/14,15/99			11.55	19.84	<50	<0.50	<0.50	<0.50	<0.50	3.13	3.4
	09/15/99			11.99	19.40	<50	<0.50	<0.50	<0.50	<0.50	8.70	3.8
	12/08,09/99			11.80	19.59	<50	<0.50	<0.50	<0.50	<0.50	10.1	2.4
	03/15/00			9.55	21.84	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
	06/13/00	b		11.64	19.75	<50	<0.50	0.517	<0.50	0.603	6.29	1.0
	9/19,20/00			11.64	19.75	<50	<0.50	<0.50	<0.50	<0.50	5.01	2.0
	12/14,15/00			11.25	20.14	<50	<0.50	<0.50	<0.50	<0.50	6.14	2.0
	3/8,9/01			10.01	21.38	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
	06/14/01			11.47	19.92	<50	<0.50	<0.50	<0.50	<0.50	2.5	2.6
	09/26/01			11.93	19.46	<50	<0.50	<0.50	<0.50	<0.50	3.8	1.8
	12/29/01			9.71	21.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/13/02			10.51	20.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.6
MW-17				Well Destroyed								
MW-18	03/13/96		29.70	7.53	22.17	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96			9.88	19.82	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96			10.82	18.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/26/96			10.18	19.52	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM

Table 2
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-18	03/31-04/01/97		10.14	19.56	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
(cont.)	06/25/97		10.94	18.76	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97		11.00	18.70	<50	<0.50	<0.50	<0.50	<0.50	<2.5	4.0
	11/24,25/97		10.65	19.05	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.4
	03/19/98		8.95	20.75	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	06/03/98		9.57	20.13	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.8
	09/21,22/98		10.80	18.90	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
	12/14/98		10.18	19.52	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.6
	03/15,16/99		9.20	20.50	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0
	06/14,15/99		10.60	19.10	Well Sampled Annually						
	09/15/99		10.96	18.74	Well Sampled Annually						
	12/08,09/99		10.79	18.91	Well Sampled Annually						
	03/15/00		8.80	20.90	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/13/00 b		10.60	19.10	Well Sampled Annually						
	9/19,20/00		10.63	19.07	Well Sampled Annually						
	12/14,15/00		10.39	19.31	Well Sampled Annually						
	3/8,9/01		9.03	20.67	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4
	06/14/01		10.40	19.30	Well Sampled Annually						
	09/26/01		10.91	18.79	Well Sampled Annually						
	12/29/01		8.24	21.46	Well Sampled Annually						
	03/13/02		9.46	20.24	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.8
MW-19	03/13/96	29.02	7.06	21.96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96		9.42	19.60	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96		10.33	18.69	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96		9.67	19.35	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31-04/01/97		9.65	19.37	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97		10.41	18.61	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97		10.47	18.55	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	11/24,25/97		10.35	18.67	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.6
	03/19/98		8.67	20.35	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/03/98		9.15	19.87	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.2
	09/21,22/98		10.28	18.74	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
	12/14/98		9.70	19.32	<50	<0.50	<0.50	0.588	0.647	<2.0	2.4
	03/15,16/99		Well Inaccessible								
	06/14,15/99	*	Removed From Gauging and Sampling Program								
MW-20			Well Destroyed								
MW-21	03/13/96	28.72	7.58	21.14	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28,29/96		9.85	18.87	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96		10.75	17.97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96		10.00	18.72	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31-04/01/97		10.03	18.69	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97		10.83	17.89	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97		10.90	17.82	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	11/24,25/97		10.50	18.22	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
	03/19/98		9.08	19.64	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.08
	06/03/98		9.57	19.15	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.6
	09/21,22/98		10.75	17.97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.4
	12/14/98		10.11	18.61	<50	<0.50	<0.50	<0.50	<0.50	<2.0	0.6
	03/15,16/99		9.10	19.62	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0
	06/14,15/99		10.58	18.14	Well Sampled Annually						
	09/15/99		10.93	17.79	Well Sampled Annually						
	12/08,09/99		10.70	18.02	Well Sampled Annually						
	03/15/00		8.95	19.77	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.3
	06/13/00 b		10.97	17.75	Well Sampled Annually						
	9/19,20/00		10.66	18.06	Well Sampled Annually						
	12/14,15/00		10.30	18.42	Well Sampled Annually						
	3/8,9/01		9.00	19.72	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.4
	06/14/01		10.40	18.32	Well Sampled Annually						
	09/26/01		10.75	17.97	Well Sampled Annually						
	12/29/01		7.86	20.86	Well Sampled Annually						
	03/13/02		9.40	19.32	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.2
MW-22	03/13/96	29.29	7.83	21.46	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96		10.33	18.96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96		11.28	18.01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96		10.61	18.68	<50	<0.50	<0.50	<0.50	<0.50	3.0	NM
	12/30/96		10.61	18.68	NA	NA	NA	NA	NA	3.3	NM
	03/31-04/01/97		10.56	18.73	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97		11.51	17.78	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97		11.45	17.84	<50	<0.50	<0.50	<0.50	<0.50	3.4	1.0
	11/24,25/97		11.08	18.21	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.6
	03/19/98		9.40	19.89	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	06/03/98		10.00	19.29	<50	<0.50	<0.50	<0.50	<0.50	0.87	3.2
	09/21,22/98		11.27	18.02	<50	<0.50	<0.50	<0.50	<0.50	2.1	2.8
	12/14/98		10.65	18.64	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.4
	03/15,16/99		9.67	19.62	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.4
	06/14,15/99		11.06	18.23	<50	<0.50	<0.50	<0.50	<0.50	5.05	1.0
	09/15/99 a		11.46	17.83	<50	<0.50	<0.50	<0.50	<0.50	49.2	1.2
	12/08,09/99		11.25	18.04	<50	<0.50	<0.50	<0.50	<0.50	17.9	1.4

Table 2
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Number	Date Sampled		Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-22	03/15/00			9.20	20.09	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.1
(cont.)	06/13/00	b		11.06	18.23	<50	<0.50	<0.50	<0.50	<0.50	6.85	1.0
	9/19,20/00			11.12	18.17	<50	<0.50	<0.50	<0.50	<0.50	3.18	1.8
	12/14,15/00			10.85	18.44	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	3/8,9/01			9.43	19.86	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.8
	06/14/01			10.98	18.31	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
	09/26/01			11.41	17.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0
	12/29/01			8.78	20.51	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/13/02			9.86	19.43	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4
MW-23	03/13/96		30.99	9.13	21.86	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96			11.37	19.62	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96			12.31	18.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96			11.76	19.23	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31-04/01/97			11.56	19.43	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97			12.39	18.60	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97			12.53	18.46	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	11/24,25/97			12.13	18.86	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
	03/19/98			10.22	20.77	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4
	06/03/98			11.03	19.96	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.3
	09/21,22/98			12.31	18.68	<50	<0.50	0.54	1.9	<0.50	<2.5	2.2
	12/14/98			11.57	19.32	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.0
	03/15,16/99			10.82	20.17	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.6
	06/14,15/99			12.08	18.91	Well Sampled Annually						
	09/15/99			12.48	18.51	Well Sampled Annually						
	12/08,09/99			12.29	18.70	Well Sampled Annually						
	03/15/00			10.04	20.95	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
	06/13/00	b		11.95	19.04	Well Sampled Annually						
	9/19,20/00			12.15	18.84	Well Sampled Annually						
	12/14,15/00			12.25	18.74	Well Sampled Annually						
	3/8,9/01			10.49	20.50	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
	06/14/01			11.97	19.02	Well Sampled Annually						
	09/26/01			12.40	18.59	Well Sampled Annually						
	12/29/01			10.42	20.57	Well Sampled Annually						
	03/13/02			11.01	19.98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.0
MW-24	03/13,15/96		34.38	10.10	24.28	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96			12.25	22.13	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96			13.28	21.10	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96			12.71	21.67	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31-04/01/97			12.50	21.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97			13.38	21.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97			13.46	20.92	<50	<0.50	<0.50	<0.50	<0.50	<2.5	5.0
	11/24,25/97			13.25	21.13	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/19,20/98			11.32	23.06	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
	06/04/98			12.00	22.38	<50	<0.30	<0.30	<0.30	<0.60	<10	0.8
	09/21,22/98			13.13	21.25	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.4
	12/14,15/98			12.53	21.85	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.2
	03/15,16/99			11.58	22.80	<50	<0.50	<0.50	<0.50	<0.50	<5.0	0.0
	06/14,15/99			Removed From Gauging and Sampling Program								
MW-25	03/13,14/96		34.12	9.61	24.51	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28,29/96			11.30	22.82	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28,29/96			12.32	21.80	<50	<0.50	<0.50	<0.50	<0.50	51	NM
	11/25/96			11.83	22.29	<50	<0.50	<0.50	<0.50	<0.50	110	NM
	03/31-04/01/97			11.55	22.57	<50	<0.50	<0.50	<0.50	<0.50	39	NM
	06/25/97			14.57	19.55	<50	<0.50	<0.50	<0.50	<0.50	49	NM
	09/09,10/97			12.45	21.67	<50	<0.50	<0.50	<0.50	<0.50	78	1.0
	09/09,10/97	a		--	--	--	--	--	--	--	79	--
	11/24,25/97			12.30	21.82	<50	<0.50	<0.50	<0.50	<0.50	130	0.0
	03/19,20/98			10.18	23.94	<50	<0.50	<0.50	<0.50	<0.50	96	1.8
	06/04/98			11.00	23.12	<50	<0.30	<0.30	<0.30	<0.60	44	0.8
	09/21,22/98			12.13	21.99	<50	<0.50	<0.50	<0.50	<0.50	150	0.4
	12/14,15/98			11.60	22.52	<50	<0.50	<0.50	<0.50	<0.50	44	1.0
	03/15,16/99			10.78	23.34	<50	<0.50	<0.50	<0.50	<0.50	26.6	2.0
	06/14,15/99			11.97	22.15	<50	<0.50	<0.50	<0.50	<0.50	98.9	2.2
	09/15,16/1999			12.34	21.78	<50	<0.50	<0.50	<0.50	<0.50	86.4	NM
	12/08,09/99			12.25	21.87	<50	<0.50	<0.50	<0.50	<0.50	55.5	0.0
	03/15/00			10.16	23.96	<50	<0.50	<0.50	<0.50	<0.50	154	1.0
	03/15/00	a		--	--	--	--	--	--	--	206	--
	06/13/00	b		11.72	22.40	<50	<0.50	<0.50	<0.50	<0.50	77.7	1.0
	9/19,20/00			12.08	22.04	<50	1	<0.50	<0.50	<0.50	192	1.2
	12/14,15/00			11.74	22.38	<50	<0.50	<0.50	<0.50	<0.50	134	4.0
	3/8,9/01			10.53	23.59	<50	<0.50	<0.50	<0.50	<0.50	140	2.6
	06/14/01			11.95	22.17	<50	<0.50	<0.50	<0.50	<0.50	150	2.6
	09/26/01			12.22	21.90	<50	<0.50	<0.50	<0.50	<0.50	84	1.0
	12/29/01	c	33.81	10.32	23.49	73	<0.50	<0.50	1	7	94	2.2
	03/13/02			10.99	22.82	57	<0.50	<0.50	<0.50	<0.50	89	2.6
MW-26	03/13,15/96		33.71	9.38	24.33	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96			11.57	22.14	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28,29/96			12.55	21.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96			12.03	21.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31-04/01/97			11.84	21.87	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97			12.94	20.77	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM

Table 2
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-26	09/09,10/97		12.77	20.94	<50	<0.50	<0.50	<0.50	<0.50	<2.5	5.0
(cont.)	11/24,25/97		12.55	21.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.6
	03/19,20/98		10.55	23.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
	06/04/98		11.22	22.49	<50	<0.30	<0.30	<0.30	<0.60	<10	2.1
	09/21,22/98		12.45	21.26	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
	12/14,15/98		11.83	21.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0
	03/15,16/99		10.86	22.85	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0
	06/14,15/99		12.17	21.54	——— Well Sampled Annually ———						
	09/15/99		12.70	21.01	——— Well Sampled Annually ———						
	12/08,09/99		12.57	21.14	——— Well Sampled Annually ———						
	03/15/00		10.50	23.21	<50	<0.50	<0.50	<0.50	<0.50	6.55	1.4
	06/13/00	b	12.20	21.51	——— Well Sampled Annually ———						
	9/19,20/00		12.38	21.33	——— Well Sampled Annually ———						
	12/14,15/00		11.88	21.83	——— Well Sampled Annually ———						
	3/8,9/01		10.78	22.93	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
	06/14/01		12.17	21.54	——— Well Sampled Annually ———						
	09/26/01		12.70	21.01	——— Well Sampled Annually ———						
	12/29/01		10.41	23.30	——— Well Sampled Annually ———						
	03/13/02		11.27	22.44	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4

MtBE = Methyl tert-butyl ether
MSL = Mean sea level
TOB = Top of box
ppb = Parts per billion
ppm = Parts per million
< = Less than laboratory detection limit
† = Well sampled without purging.
†† = ORC program initiated September 21, 1995 and discontinued on May 15, 1997.

NA = Not analyzed
NM = Not measured
NS = Not sampled
a. = MtBE result confirmed by EPA Method 8260.
b. = Depths to water originally measured from TOC. Depth to water adjusted to reflect a TOB measurement by adding the average difference between TOB and TOC measurements over the last four gauging events.
c. = well elevation changed during station reconstruction. well resurveyed 11/6/2001

Please see certified analytical reports for laboratory notes and definitions.

Table 3
Groundwater Analytical Data
Domestic Irrigation Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)		Dissolved Oxygen (ppm)
590 H	03/14/96	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
	05/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
	08/29/96 a	NS	NS	NS	NS	NS	NA		NM
	11/26/96	NS	NS	NS	NS	NS	NS		NM
	03/31/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5		NM
	06/25/97 a	NS	NS	NS	NS	NS	NS		NM
	09/09/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5		2.0
	11/24/97 a	NS	NS	NS	NS	NS	NS		NM
	03/19/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5		1.0
	06/03/98	<50	<0.50	<0.50	<0.50	<0.50	<0.50		3.8
	09/21/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5		3.2
	12/14/98	<50	<0.50	<0.50	<0.50	<0.50	<2.0		2.2
	03/15/99 a	NS	NS	NS	NS	NS	NS		NM
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	<2.5		NM
	09/15/99 a	NS	NS	NS	NS	NS	NS		NM
	12/08/99 a	NS	NS	NS	NS	NS	NS		NM
	03/15/00 a	NS	NS	NS	NS	NS	NS		NM
	06/13/00 a	NS	NS	NS	NS	NS	NS		NM
			Well Destroyed						
633 H	03/14/96	480	10	11	1.8	140	NA		NM
	05/13/96 b	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	3.70		NM
	12/30/96	--	--	--	--	--	4.9	c	NM
	03/31/97	NS	NS	NS	NS	NS	NS		NM
	06/25/97 a	NS	NS	NS	NS	NS	NS		NM
	09/10/97	<50	<0.50	<0.50	<0.50	0.66	<2.5		1.0
	11/24/97	110	2.0	2.1	1.0	4.2	<2.5	c	NM
	03/19/98	150	1.8	0.62	<0.50	28	77		NM
	03/19/98	--	--	--	--	--	<2.0	c	NM
	06/03/98	480	6.2	4.3	2.9	120	28		1.3
	09/21/98	<50	<0.50	<0.50	<0.50	0.66	<2.5		1.2
	12/14/98	<50	<0.50	<0.50	<0.50	2.21	11.7		NM
	03/15/99	<50	0.513	<0.50	<0.50	0.542	31		NM
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	7.93		NM
	09/15/99	<50	<0.50	<0.50	<0.50	<0.50	5.65		0.0
	12/08/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0		1.4
	03/15/00	<50	<0.50	<0.50	<0.50	<0.50	17.5		1.2
	06/13/00	240	5.03	1.01	2.39	63.8	10.5		NM
			Well Destroyed						
634 H	03/13/96 a	NS	NS	NS	NS	NS	NA		NM
	05/27/96 a	NS	NS	NS	NS	NS	NA		NM
	08/29/96 a	NS	NS	NS	NS	NS	NA		NM
	11/26/96	NS	NS	NS	NS	NS	NS		NM
	03/31/97	NS	NS	NS	NS	NS	NS		NM
	06/25/97 a	NS	NS	NS	NS	NS	NS		NM
	09/09/97 g	NS	NS	NS	NS	NS	NS		NM
	11/24/97 g	NS	NS	NS	NS	NS	NS		NM
	03/19/98 e	NS	NS	NS	NS	NS	NS		NM

Table 3
Groundwater Analytical Data
Domestic Irrigation Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
634 H	06/03/98 e	NS	NS	NS	NS	NS	NS	NM
(cont.)	09/21/98 e	NS	NS	NS	NS	NS	NS	NM
	12/14/98 e	NS	NS	NS	NS	NS	NS	NM
	03/15/99 e	NS	NS	NS	NS	NS	NS	NM
	06/14/99 e	NS	NS	NS	NS	NS	NS	NM
	09/15/99 e	NS	NS	NS	NS	NS	NS	NM
	12/08/99 e	NS	NS	NS	NS	NS	NS	NM
	03/15/00 e	NS	NS	NS	NS	NS	NS	NM
	06/13/00 e	NS	NS	NS	NS	NS	NS	NM
	09/19/00 e	NS	NS	NS	NS	NS	NS	NM
	12/14/00 e	NS	NS	NS	NS	NS	NS	NM
	03/08/01 e	NS	NS	NS	NS	NS	NS	NM
	06/14/01 e	NS	NS	NS	NS	NS	NS	NM
	09/26/01 e	NS	NS	NS	NS	NS	NS	NM
	12/29/01 e	NS	NS	NS	NS	NS	NS	NM
	03/13/02 e	NS	NS	NS	NS	NS	NS	NM
642 H	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31/97	NS	NS	NS	NS	NS	NS	NM
	06/25/97	NS	NS	NS	NS	NS	NS	NM
	09/09/97 a	NS	NS	NS	NS	NS	NS	NM
	11/24/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/19/98 a	NS	NS	NS	NS	NS	NS	NM
	06/03/98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NM
	09/21/98 a	NS	NS	NS	NS	NS	NS	NM
	12/14/98 a	NS	NS	NS	NS	NS	NS	NM
	03/15/99 a	NS	NS	NS	NS	NS	NS	NM
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0
	09/15/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.2
	12/08/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.4
	03/15/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.8
	06/13/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/19/00 a	NS	NS	NS	NS	NS	NS	NM
	12/14/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
	03/08/01 a	NS	NS	NS	NS	NS	NS	NM
	06/14/01 a	NS	NS	NS	NS	NS	NS	NM
	09/26/01 a	NS	NS	NS	NS	NS	NS	NM
	12/29/01 a	NS	NS	NS	NS	NS	NS	NM
	03/13/02 a	NS	NS	NS	NS	NS	NS	NM
675 H	03/13/96 a	NS	NS	NS	NS	NS	NA	NM
	05/27/96 a	NS	NS	NS	NS	NS	NA	NM
	08/29/96 d	NS	NS	NS	NS	NS	NA	NM
	11/26/96	NS	NS	NS	NS	NS	NS	NM
	03/31/97	NS	NS	NS	NS	NS	NS	NM
	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09/97 f	NS	NS	NS	NS	NS	NS	NM
	11/24/97 f	NS	NS	NS	NS	NS	NS	NM
	03/19/98 f	NS	NS	NS	NS	NS	NS	NM
	06/03/98 f	NS	NS	NS	NS	NS	NS	NM
	09/21/98 a,f	NS	NS	NS	NS	NS	NS	NM
	12/14/98 f	NS	NS	NS	NS	NS	NS	NM
	03/15/99 f	NS	NS	NS	NS	NS	NS	NM
	06/14/99 f	NS	NS	NS	NS	NS	NS	NM
	09/15/99 f	NS	NS	NS	NS	NS	NS	NM
	12/08/99 f	NS	NS	NS	NS	NS	NS	NM
	03/15/00 f	NS	NS	NS	NS	NS	NS	NM
	06/13/00 f	NS	NS	NS	NS	NS	NS	NM
	09/19/00 f	NS	NS	NS	NS	NS	NS	NM

Table 3
Groundwater Analytical Data
Domestic Irrigation Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
675 H	12/14/00 f	NS	NS	NS	NS	NS	NS	NM
(cont.)	03/08/01 f	NS	NS	NS	NS	NS	NS	NM
	06/14/01 f	NS	NS	NS	NS	NS	NS	NM
	09/26/01 f	NS	NS	NS	NS	NS	NS	NM
	12/29/01 f	NS	NS	NS	NS	NS	NS	NM
	03/13/02 f	NS	NS	NS	NS	NS	NS	NM
17197 VM	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	11/24/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
	03/19/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
	06/03/98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.2
	09/21/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	12/14/98	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.4
	03/15/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.6
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
	09/15/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0
	12/08/99 a	NS	NS	NS	NS	NS	NS	NM
	03/15/00 a	NS	NS	NS	NS	NS	NS	NM
	06/13/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/19/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	12/14/00 f	NS	NS	NS	NS	NS	NS	NM
	03/08/01 f	NS	NS	NS	NS	NS	NS	NM
	06/14/01 f	NS	NS	NS	NS	NS	NS	NM
	09/26/01 f	NS	NS	NS	NS	NS	NS	NM
	12/29/01 f	NS	NS	NS	NS	NS	NS	NM
	03/13/02 f	NS	NS	NS	NS	NS	NS	NM
17200 VM	03/15/96	730	<1.0	<1.0	1.5	1.7	NA	NM
	05/27/96	200	<0.50	<0.50	1.4	1.8	NA	NM
	08/29/96	Well Destroyed						
17203 VM	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31/97 f	NS	NS	NS	NS	NS	NS	NM
	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09/97 f	NS	NS	NS	NS	NS	NS	NM
	11/24/97 f	NS	NS	NS	NS	NS	NS	NM
	03/19/98	Well Dry						
	06/03/98 f	NS	NS	NS	NS	NS	NS	NM
	09/21/98 f	NS	NS	NS	NS	NS	NS	NM
	12/14/98 f	NS	NS	NS	NS	NS	NS	NM
	03/15/99 f	NS	NS	NS	NS	NS	NS	NM
	06/14/99 f	NS	NS	NS	NS	NS	NS	NM
	09/15/99 f	NS	NS	NS	NS	NS	NS	NM
	12/08/99 f	NS	NS	NS	NS	NS	NS	NM
	03/15/00 f	NS	NS	NS	NS	NS	NS	NM
	06/13/00 f	NS	NS	NS	NS	NS	NS	NM
	09/19/00 f	NS	NS	NS	NS	NS	NS	NM
	12/14/00 f	NS	NS	NS	NS	NS	NS	NM
	03/08/01 f	NS	NS	NS	NS	NS	NS	NM
	06/14/01 f	NS	NS	NS	NS	NS	NS	NM
	09/26/01 f	NS	NS	NS	NS	NS	NS	NM
	12/29/01 f	NS	NS	NS	NS	NS	NS	NM
	03/13/20 f	NS	NS	NS	NS	NS	NS	NM
17302 VM	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM

Table 3
Groundwater Analytical Data
Domestic Irrigation Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)		Dissolved Oxygen (ppm)
17302 VM	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5		NM
(cont.)	03/31/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5		NM
	09/09/97 f	NS	NS	NS	NS	NS	NS		NM
	11/24/97 f	NS	NS	NS	NS	NS	NS		NM
	03/19/98 f	NS	NS	NS	NS	NS	NS		NM
	06/03/98 f	NS	NS	NS	NS	NS	NS		NM
	09/21/98 f	NS	NS	NS	NS	NS	NS		NM
	12/14/98 f	NS	NS	NS	NS	NS	NS		NM
	03/15/99 f	NS	NS	NS	NS	NS	NS		NM
	06/14/99 f	NS	NS	NS	NS	NS	NS		NM
	09/15/99 f	NS	NS	NS	NS	NS	NS		NM
	12/08/99 f	NS	NS	NS	NS	NS	NS		NM
	12/08/99 f	NS	NS	NS	NS	NS	NS		NM
	03/15/00 f	NS	NS	NS	NS	NS	NS		NM
	06/13/00 f	NS	NS	NS	NS	NS	NS		NM
	09/19/00 f	NS	NS	NS	NS	NS	NS		NM
	12/14/00 f	NS	NS	NS	NS	NS	NS		NM
	03/08/01 f	NS	NS	NS	NS	NS	NS		NM
	06/14/01 f	NS	NS	NS	NS	NS	NS		NM
	09/26/01 f	NS	NS	NS	NS	NS	NS		NM
	12/29/01 f	NS	NS	NS	NS	NS	NS		NM
	03/13/02 f	NS	NS	NS	NS	NS	NS		NM
17348 VE	03/13/96	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
	05/27/96		Well Dry						
	08/29/96		Well Dry						
	11/26/96		Well Dry						
	03/31/97		Well Dry						
	06/25/97		Well Inaccessible						
	09/09/97 g	NS	NS	NS	NS	NS	NS		NM
	11/24/97 g	NS	NS	NS	NS	NS	NS		NM
	03/19/98 a	NS	NS	NS	NS	NS	NS		NM
	06/03/98 a	NS	NS	NS	NS	NS	NS		NM
	09/21/98 a	NS	NS	NS	NS	NS	NS		NM
	12/14/98 a	NS	NS	NS	NS	NS	NS		NM
	03/15/99 a	NS	NS	NS	NS	NS	NS		NM
	06/14/99 f	NS	NS	NS	NS	NS	NS		NM
	09/15/99 f	NS	NS	NS	NS	NS	NS		NM
	12/08/99 f	NS	NS	NS	NS	NS	NS		NM
	03/15/00 a	NS	NS	NS	NS	NS	NS		NM
	06/13/00 f	NS	NS	NS	NS	NS	NS		NM
	09/19/00 f	NS	NS	NS	NS	NS	NS		NM
	12/14/00 f	NS	NS	NS	NS	NS	NS		NM
	03/08/01 f	NS	NS	NS	NS	NS	NS		NM
	06/14/01 f	NS	NS	NS	NS	NS	NS		NM
	09/26/01 f	NS	NS	NS	NS	NS	NS		NM
	12/29/01 f	NS	NS	NS	NS	NS	NS		NM
	03/13/02 f	NS	NS	NS	NS	NS	NS		NM
17349 VM	03/15/96	1,700	<2.0	<2.0	2.5	13	NA		NM
	05/27/96	320	4.2	1.3	0.95	0.71	NA		NM
	08/29/96	410	7.5	<0.50	<0.50	1.1	NA		NM
	11/26/96	300	<1.0	1.7	<1.0	2.1	55	*	NM
	03/31/97	430	<1.0	2.7	<1.0	1.0	57	c	NM
	06/25/97 **	2,100	30	<5.0	<5.0	6.7	140		NM
	08/18/97	320	2.0	<0.5	<0.5	<0.5	34		NM
	08/18/97	--	--	--	--	--	31	c	NM
	09/09/97	380	6.0	1.4	0.98	<0.50	38		3.0
	09/09/97	--	--	--	--	--	34	c	NM
	11/24/97	240	<1.0	1.1	<1.0	1.4	53		2.4
	11/24/97	--	--	--	--	--	33	c†	NM
	03/19/98	1,300	14	<0.50	<0.50	1.2	250		1.0
	03/19/98	--	--	--	--	--	27	c	NM

Table 3
Groundwater Analytical Data
Domestic Irrigation Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)		Dissolved Oxygen (ppm)
17349 VM	06/03/98	860	8.7	<0.50	0.7	8.0	38		4.9
(cont.)	07/29/98	860	20	2.1	<1.2	<1.2	27		NM
	07/29/98	--	--	--	--	--	25	c	NM
	09/21/98	200	<0.50	<0.50	<0.50	14	14		5.2
	12/14/98	254	<0.50	6.92	0.604	1.58	21.7		1.0
	03/15/99	172	1.35	<0.50	<0.50	<0.50	24.2		3.6
	06/14/99	91	<0.50	3.53	<0.50	<0.50	88.3		2.8
	09/15/99 a	133	<0.50	<0.50	<0.50	<0.50	184		2.2
	12/08/99	136	0.681	<0.50	<0.50	<0.50	267	c	2.4
	03/15/00	<50	<0.50	<0.50	<0.50	<0.50	82.1	c	2.8
	06/13/00	319	5.28	<0.5	<0.50	<0.50	97.1		NM
	06/13/00	--	--	--	--	--	85.1	c	NM
	09/19/00	106	<0.50	2	<0.50	<0.50	204.0		NM
	09/19/00	--	--	--	--	--	84.0	c	NM
	12/14/00	65.9	0.61	<0.50	<0.50	<0.50	188.0		1.8
	12/14/00	--	--	--	--	--	197.0	c	NM
	03/08/01	<50	<0.50	<0.50	<0.50	<0.50	91.8		1.8
	03/08/01	--	--	--	--	--	98.3	c	NM
	06/14/01	<50	<0.50	<0.50	<0.50	<0.50	68.0		2.6
	06/14/01	--	--	--	--	--	99.0	c	NM
	09/26/01	52	0.53	<0.50	<0.50	<0.50	49.0		1.8
	09/26/01	--	--	--	--	--	54.0	c	
	12/29/01	<50.0	<0.50	0.78	<0.50	<0.50	58.0		NM
	12/29/01	--	--	--	--	--	48.0	c	NM
	03/13/02	<50.0	1	<0.50	<0.50	<0.50	49.0		2.0
	03/13/02	--	--	--	--	--	47.0	c	NM
17371 VM	03/13/96 e	NS	NS	NS	NS	NS	NA		NM
	05/27/96 e	NS	NS	NS	NS	NS	NA		NM
	08/29/96 e	NS	NS	NS	NS	NS	NA		NM
	11/26/96 e	NS	NS	NS	NS	NS	NS		NM
	03/31/97 e	NS	NS	NS	NS	NS	NS		NM
	06/25/97 e	NS	NS	NS	NS	NS	NS		NM
	09/09/97 e	NS	NS	NS	NS	NS	NS		NM
	11/24/97 e	NS	NS	NS	NS	NS	NS		NM
	03/19/98 e	NS	NS	NS	NS	NS	NS		NM
	06/03/98 e	NS	NS	NS	NS	NS	NS		NM
	09/21/98 e	NS	NS	NS	NS	NS	NS		NM
	12/14/98 e	NS	NS	NS	NS	NS	NS		NM
	03/15/99 e	NS	NS	NS	NS	NS	NS		NM
	06/14/99 e	NS	NS	NS	NS	NS	NS		NM
	09/15/99 e	NS	NS	NS	NS	NS	NS		NM
	12/08/99 f	NS	NS	NS	NS	NS	NS		NM
	03/15/00 f	NS	NS	NS	NS	NS	NS		NM
	06/13/00 f	NS	NS	NS	NS	NS	NS		NM
	09/19/00 f	NS	NS	NS	NS	NS	NS		NM
	12/14/00 f	NS	NS	NS	NS	NS	NS		NM
	03/08/01 f	NS	NS	NS	NS	NS	NS		NM
	06/14/01 f	NS	NS	NS	NS	NS	NS		NM
	09/26/01 f	NS	NS	NS	NS	NS	NS		NM
	12/29/01 f	NS	NS	NS	NS	NS	NS		NM
	03/13/02 f	NS	NS	NS	NS	NS	NS		NM
17372 VM	03/14/96	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5		NM
	03/31/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5		NM
	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5		NM
	09/09/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5		4.0
	11/24/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5		2.0
	03/19/98	<50	<0.50	<0.50	<0.50	<0.50	1,200		1.8
	03/19/98	--	--	--	--	--	1,400	c	NM
	06/03/98	<50	<0.50	<0.50	<0.50	<0.50	16,000		1.8
	07/29/98	<200	<2.0	<2.0	<2.0	<2.0	940		NM

ATTACHMENT D

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

12/19/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #0608, San Lorenzo,
Work Order Number:	MML0194
Global ID:	T0600100085
Lab Report Number:	MML0194121820031152

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
MML01941218200 31152	17372 VM	MML019409	W	CS	8260TPH	SW5030B	12/04/03	12/13/03	12/14/03	3L15001	1
MML01941218200 31152	642-H	MML019408	W	CS	8260TPH	SW5030B	12/04/03	12/13/03	12/14/03	3L15001	1
MML01941218200 31152	E-1A	MML019405	W	CS	8260TPH	SW5030B	12/04/03	12/13/03	12/14/03	3L15001	1
MML01941218200 31152	MW-10	MML019403	W	CS	8260TPH	SW5030B	12/04/03	12/13/03	12/13/03	3L15001	1
MML01941218200 31152	MW-11	MML019404	W	CS	8260TPH	SW5030B	12/04/03	12/13/03	12/14/03	3L15001	1
MML01941218200 31152	MW-15	MML019406	W	CS	8260TPH	SW5030B	12/04/03	12/13/03	12/14/03	3L15001	1
MML01941218200 31152	MW-25	MML019407	W	CS	8260TPH	SW5030B	12/04/03	12/13/03	12/14/03	3L15001	1
MML01941218200 31152	MW-5	MML019401	W	CS	8260TPH	SW5030B	12/04/03	12/13/03	12/13/03	3L15001	1
MML01941218200 31152	MW-8	MML019402	W	CS	8260TPH	SW5030B	12/04/03	12/13/03	12/13/03	3L15001	1
		3L15001BSD1	WQ	BD1	8260TPH	SW5030B	/ /	12/13/03	12/13/03	3L15001	1
		3L15001BSD2	WQ	BD2	8260TPH	SW5030B	/ /	12/13/03	12/13/03	3L15001	1
		3L15001BS1	WQ	BS1	8260TPH	SW5030B	/ /	12/13/03	12/13/03	3L15001	1
		3L15001BS2	WQ	BS2	8260TPH	SW5030B	/ /	12/13/03	12/13/03	3L15001	1
		3L15001BLK1	WQ	LB1	8260TPH	SW5030B	/ /	12/13/03	12/13/03	3L15001	1

EDFSAMP: Error Summary Log

12/19/03

Error type	Logcode	Projname	Npdlwo	Sampid	Matrix
Error: LOGCODE field is blank or invalid	URSO	ARCO #0608, San Lorenzo,	MML0194	17372 VM	W
Error: LOGCODE field is blank or invalid	URSO	ARCO #0608, San Lorenzo,	MML0194	642-H	W
Error: LOGCODE field is blank or invalid	URSO	ARCO #0608, San Lorenzo,	MML0194	E-1A	W
Error: LOGCODE field is blank or invalid	URSO	ARCO #0608, San Lorenzo,	MML0194	MW-10	W
Error: LOGCODE field is blank or invalid	URSO	ARCO #0608, San Lorenzo,	MML0194	MW-11	W
Error: LOGCODE field is blank or invalid	URSO	ARCO #0608, San Lorenzo,	MML0194	MW-15	W
Error: LOGCODE field is blank or invalid	URSO	ARCO #0608, San Lorenzo,	MML0194	MW-25	W
Error: LOGCODE field is blank or invalid	URSO	ARCO #0608, San Lorenzo,	MML0194	MW-5	W
Error: LOGCODE field is blank or invalid	URSO	ARCO #0608, San Lorenzo,	MML0194	MW-8	W

EDFTEST: Error Summary Log

12/19/03

Error type	Labsampid	Qccode	Anmcode	Exmcode	Anadate	Run number
Error: ANMCODE field is blank or invalid	3L15001BLK1	LB1	8260TPH	SW5030B	12/13/03	1
Error: ANMCODE field is blank or invalid	3L15001BS1	BS1	8260TPH	SW5030B	12/13/03	1
Error: ANMCODE field is blank or invalid	3L15001BS2	BS2	8260TPH	SW5030B	12/13/03	1
Error: ANMCODE field is blank or invalid	3L15001BSD1	BD1	8260TPH	SW5030B	12/13/03	1
Error: ANMCODE field is blank or invalid	3L15001BSD2	BD2	8260TPH	SW5030B	12/13/03	1
Error: ANMCODE field is blank or invalid	MML019409	CS	8260TPH	SW5030B	12/14/03	1
Error: ANMCODE field is blank or invalid	MML019408	CS	8260TPH	SW5030B	12/14/03	1
Error: ANMCODE field is blank or invalid	MML019405	CS	8260TPH	SW5030B	12/14/03	1
Error: ANMCODE field is blank or invalid	MML019403	CS	8260TPH	SW5030B	12/13/03	1
Error: ANMCODE field is blank or invalid	MML019404	CS	8260TPH	SW5030B	12/14/03	1
Error: ANMCODE field is blank or invalid	MML019406	CS	8260TPH	SW5030B	12/14/03	1
Error: ANMCODE field is blank or invalid	MML019407	CS	8260TPH	SW5030B	12/14/03	1
Error: ANMCODE field is blank or invalid	MML019401	CS	8260TPH	SW5030B	12/13/03	1
Error: ANMCODE field is blank or invalid	MML019402	CS	8260TPH	SW5030B	12/13/03	1

EDFRES: Error Summary Log

12/19/03

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

EDFQC: Error Summary Log

12/19/03

Error type	Lablotctl	Anmcode	Parlabel	Qccode	Labqcid
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	BZ	BD1	3L15001BSD1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	BZ	BD2	3L15001BSD2
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	BZ	BS1	3L15001BS1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	BZ	BS2	3L15001BS2
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	BZ	LB1	3L15001BLK1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	BZME	BD1	3L15001BSD1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	BZME	BD2	3L15001BSD2
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	BZME	BS1	3L15001BS1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	BZME	BS2	3L15001BS2
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	BZME	LB1	3L15001BLK1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	DCA12	BD1	3L15001BSD1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	DCA12	BS1	3L15001BS1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	DCA12	LB1	3L15001BLK1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	DCA12D4	BD1	3L15001BSD1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	DCA12D4	BD2	3L15001BSD2
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	DCA12D4	BS1	3L15001BS1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	DCA12D4	BS2	3L15001BS2
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	DCA12D4	LB1	3L15001BLK1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	DIPE	BD1	3L15001BSD1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	DIPE	BS1	3L15001BS1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	DIPE	LB1	3L15001BLK1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	EBZ	BD1	3L15001BSD1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	EBZ	BD2	3L15001BSD2
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	EBZ	BS1	3L15001BS1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	EBZ	BS2	3L15001BS2
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	EBZ	LB1	3L15001BLK1

Error type	Lablotctl	Anmcode	Parlabel	Qccode	Labqcid
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	EDB	BD1	3L15001BSD1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	EDB	BS1	3L15001BS1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	EDB	LB1	3L15001BLK1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	ETBE	BD1	3L15001BSD1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	ETBE	BS1	3L15001BS1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	ETBE	LB1	3L15001BLK1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	ETHANOL	BD1	3L15001BSD1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	ETHANOL	BS1	3L15001BS1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	ETHANOL	LB1	3L15001BLK1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	GRO	BD2	3L15001BSD2
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	GRO	BS2	3L15001BS2
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	GRO	LB1	3L15001BLK1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	MTBE	BD1	3L15001BSD1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	MTBE	BD2	3L15001BSD2
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	MTBE	BS1	3L15001BS1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	MTBE	BS2	3L15001BS2
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	MTBE	LB1	3L15001BLK1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	TAME	BD1	3L15001BSD1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	TAME	BS1	3L15001BS1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	TAME	LB1	3L15001BLK1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	TBA	BD1	3L15001BSD1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	TBA	BS1	3L15001BS1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	TBA	LB1	3L15001BLK1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	XYLENES	BD1	3L15001BSD1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	XYLENES	BD2	3L15001BSD2
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	XYLENES	BS1	3L15001BS1
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	XYLENES	BS2	3L15001BS2
Error: ANMCODE field is blank or invalid	3L15001	8260TPH	XYLENES	LB1	3L15001BLK1

EDFCL: Error Summary Log

12/19/03

Error type	Clrevdate	Anmcode	Exmcode	Parlabel	Clcode
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	DCA12D4	SLSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	BZ	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	BZ	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	BZME	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	BZME	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	DCA12	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	DCA12	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	DCA12D4	SLSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	DIPE	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	DIPE	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	EBZ	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	EBZ	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	EDB	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	EDB	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	ETBE	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	ETBE	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	ETHANOL	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	ETHANOL	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	GRO	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	GRO	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	MTBE	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	MTBE	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	TAME	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	TAME	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	TBA	LSA
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	TBA	LSP

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:	**4th Quarter 2003 Geowell for Site #608**
Submittal Date/Time:	**12/19/2003 1:32:59 PM**
Confirmation Number:	**3856785416**

Back to Main Menu

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.

ATTACHMENT E

WELL DEVELOPMENT FIELD NOTES

WELL GAUGING DATA

Project # 031209-AC1 Date 12.9.03 Client Arco 0608

Site 17601 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	
E-1A	6					11.95	25.20	TOC	

WELL DEVELOPMENT DATA SHEET

Project #: 031209-AC1	Client: Arco 608
Developer: AC	Date Developed: 12-9-03
Well I.D. E-1A	Well Diameter: (circle one) 2 3 4 (6)
Total Well Depth: Before 24.55 After 25.20	Depth to Water: Before 11.95 After 15.76
Reason not developed:	If Free Product, thickness:
Additional Notations: pulled pump prior to gauging + purging	

Volume Conversion Factor (VCF):
{12 x (d^2/4) x π} /231
where
12 = in / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

19	X	10	=	190
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☒ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump _____
Other equipment used 6" surge block

TIME	TEMP (F)	pH	Cond. (mS or (µS))	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
well was swabbed for 20 min. prior to purging						
*removed large amounts of course & fine silt before 1st case volume *						
1007	64.5	7.5	988	71000	19	Cloudy / fine silt particles
1032	62.4	6.9	987	71000	38	Hard bottom
1057	64.4	6.8	969	66	57	Clear / slight odor
*switched to purging w/ E.S. Pump						
1108	64.6	6.8	962	61	77	"
1113	64.9	6.8	1001	25	97	"
1118	65.1	6.8	994	22	117	"
1123	65.4	6.8	996	16	137	"
1128	65.1	6.9	985	24	157	"
1133	65.6	7.0	996	14	177	"
1138	65.7	7.0	991	18	197	"
Did Well Dewater? NO		If yes, note above.		Gallons Actually Evacuated:		197

TD = 25.20
DTW = 16.76

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:

Arco 608

Station #

17601 Hesperian Blvd. San Lorenzo

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

190

added equip. rinse water 10

any other adjustments

TOTAL GALS. RECOVERED 200

loaded onto BTS vehicle # 52

BTS event # 031209-ACL

time 1200

date 12/9/03

signature

* *

REC'D AT

time

date

unloaded by signature

WELLHEAD INSPECTION CHECKLIST
BP / GEM

Date 12.9.03

Site Address 17601 Hesperian Blvd. San Lorenzo

Job Number 031209-AC1 Technician AC

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
E-1A							X	

NOTES: E-1A bolt missing (1 of 2) on vault lid