RO - 255

URS

June 17, 2003

Alameda County
JUN 19 2003
Environmental Health

Mr. Jeff Carson
Oro Loma Sanitary District
2600 Grant Avenue
San Lorenzo, California 94580

Re: **Monthly Discharge Report – May 2003**
Discharge Permit # SDP-037
ARCO Service Station #0608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Mr. Carson:

On behalf of Atlantic Richfield Company (ARCO – an affiliated company of the Group Environmental Management Company, URS Corporation (URS) is operating a groundwater extraction and treatment (GWET) system at the site referenced above. This letter transmits GWET system operational data for the period between April 24, 2003 to May 30, 2003. (Tables 1 and 2). Operational parameters are summarized in the table shown below.

Treatment System Status:	***Operational***	
Reporting Period:	04/24/03 to 05/30/03	
Period Volume Discharged:	66,140 gallons	
Effluent pH Reading:	7.50	
Average Flow Rates:	04/24/03 – 05/08/03	1.79 gpm
	05/08/03 – 05/22/03	1.75 gpm
	05/22/03 – 05/30/03	System Down
Analytical Reports:	Attachment A	
O & M Field Information:	Attachment B	

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

URS

During the scheduled monthly sampling visit on May 22, 2003, a URS technician found that the system was down due to a utility power outage. On May 30, 2003, the system was restarted and monthly samples were collected.

If you have any questions regarding this project or require further information, please do not hesitate to call me at 510-874-3280.

Sincerely,

URS CORPORATION

Teresa Tamburello
Staff Engineer

Scott Robinson
Project Manager

Alameda County
JUN 1 9 2003
Environmental Health

Attachments: Table 1 - Treatment System Metered Volume
Table 2 – Treatment System Analytical Data
Attachment A - Certified Analytical Report and Chain-of-Custody Documentation, April 24, 2003
Attachment B - Operation and Maintenance Field Logs

cc: Mr. Paul Supple, ARCO, P.O. Box 6549, Moraga, CA 94549
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
Mr. Amir K. Gholami, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, Alameda, California 94502

Table 1
Treatment System Metered Volume

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

Meter Reading Date		Hour Meter Reading (hours)		Total (hours)	Volume Reading (gallons)	Net Volume (gallons)	Cumulative Volume Removed† (gallons)	Average Flow Rate (gpm)
06/05/00	a	29,593			979,800	3,200	3,200	2.1
06/19/00		29,896			1,052,390	72,590	75,790	4.0
06/28/00		30,062			1,082,340	29,950	105,740	3.0
07/08/00		30,352			1,131,560	49,220	154,960	2.8
07/26/00		30,749			1,196,420	64,860	219,820	2.7
08/07/00		30,955			1,228,020	31,600	251,420	2.6
08/29/00		31,309			1,276,650	48,630	300,050	2.3
09/08/00		31,528			1,306,300	29,650	329,700	2.3
09/28/00		32,011			1,368,410	62,110	391,810	2.1
10/28/00		32,638			1,444,183	75,773	467,583	2.0
11/30/00		33,399			1,534,960	90,777	558,360	2.0
12/28/00		33,761			1,576,520	41,560	599,920	1.9
01/04/01		33,924			1,595,340	18,820	618,740	1.9
02/06/01		34,556			1,672,330	76,990	695,730	2.0
03/08/01		34,776			1,698,860	26,530	722,260	2.0
03/24/01		35,088			1,741,170	42,310	764,570	2.3
04/05/01		35,310			1,767,530	26,360	790,930	2.0
04/18/01		35,335			1,770,860	3,330	794,260	2.3
05/04/01		35,716			1,812,690	41,830	836,090	1.8
06/09/01		36,345			1,879,710	67,020	903,110	1.8
07/05/01	b	36,469			1,897,180	17,470	920,580	2.3
07/28/01		36,821			1,928,250	31,070	951,650	1.5
08/14/01	c	36,822			1,928,510	260	951,910	5.4
09/05/01		37,219			1,977,050	48,540	1,000,450	2.0
10/05/01		37,932			2,040,950	63,900	1,064,350	1.5
11/13/01		38,820			2,119,670	78,720	1,143,070	1.5
12/11/01		39,496			2,186,530	66,860	1,209,930	1.6
01/04/02		40,063			2,248,700	62,170	1,272,100	1.8
01/31/02		40,716			2,321,310	72,610	1,344,710	1.9
02/05/02		40,830			2,333,090	11,780	1,356,490	1.7
02/25/02		40,831			2,333,270	180	1,356,670	1.7
03/05/02		40,968			2,353,460	20,190	1,376,860	2.5
04/08/02		41,735			2,448,360	94,900	1,471,760	2.1
05/04/02		42,362			2,487,090	38,730	1,510,490	1.0
05/31/02		42,832	d		2,503,380	16,290	1,526,780	0.6
08/19/02		44,925			2,520,289	16,909	1,543,689	0.1
10/03/02		44,956	e		2,520,582	293	1,543,982	N/A
10/07/02		44,956	e		2,522,394	1,812	1,545,794	N/A
10/24/02		44,956	e		2,527,898	5,504	1,551,298	N/A
11/07/02		0	f	44,956	2,527,925	27	1,551,325	N/A
11/21/02		336		45,292	2,527,945	20	1,551,345	0.00
12/05/02		479	g	45,435	2,528,113	168	1,551,513	0.02

Table 1
Treatment System Metered Volume

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

Meter Reading Date	Hour Meter Reading (hours)		Total (hours)	Volume Reading (gallons)	Net Volume (gallons)	Cumulative Volume Removed† (gallons)	Average Flow Rate (gpm)
12/18/02	788	g	45,744	2,555,895	27,782	1,579,295	1.50
01/03/02	1,174	g	46,130	2,591,359	35,464	1,614,759	1.53
01/16/03	1,486	g	46,442	2,625,812	34,453	1,649,212	1.84
02/13/03	2,156	g	47,112	2,692,710	66,898	1,716,110	1.67
03/13/03	2,832		47,788	2,758,948	66,238	1,782,348	1.63
03/27/03	3,165		48,121	2,790,668	31,720	1,814,068	1.58
04/10/03	3,500		48,456	2,828,060	37,392	1,851,460	1.86
04/24/03	3,837		48,793	2,865,050	36,990	1,888,450	1.83
05/08/03	**4,172**		**49,128**	**2,900,937**	**35,887**	**1,924,337**	**1.79**
05/22/03	**4,459**	**h**	**49,415**	**2,931,190**	**30,253**	**1,954,590**	**1.75**
05/30/03	**4,459**	**i**	**49,415**	**2,931,190**	**0**	**1,954,590**	**0.00**

REPORTING PERIOD:	**04/24/03 to 05/30/03**
PERIOD AVERAGE FLOW RATE (gpm):	**1.77**
PERIOD VOLUME DISCHARGED:	**66,140**

gpm = Gallons per minute
N/A = Not available or not applicable
Initial 3-hour startup pumping period May 31, 2000

a. System restarted 6/5/00 (previously ran 9/25/91 - 8/21/95)
b. System down during construction to main sewer line starting 6/25/01.
c. System restarted 8/14/01 following completion of construction work.
d. Hour meter reading not recorded. Estimated hours using last 3 months average.
e. Hour meter reading not functioning.
f. Hour meter replaced.
g. An error in the table has been corrected to show correct flow rate values.
h. System was down upon arrival due to utility power outage.
i. System restarted 5/30/03 after power restored to system.

Table 2
Treatment System Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

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

Table 2
Treatment System Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

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)
INFL (influent to primary carbon) (cont.)									
08/10/00	144	2.80	ND<0.500	1.04	ND<0.500	126	NS	NS	NA
09/08/00	261	2.74	0.826	0.626	ND<0.500	120	NS	NS	NA
10/10/00	114	ND<0.500	1.68	0.843	ND<0.500	ND<2.50	NS	NS	NA
11/07/00	128	ND<0.500	ND<0.500	ND<0.500	ND<0.500	98.6	NS	NS	NA
12/05/00	167	0.775	ND<0.500	ND<0.500	ND<0.500	104	NS	NS	NA
01/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	86.8	NS	NS	NA
02/06/01	203	0.572	ND<0.500	0.513	ND<0.500	80.5	NS	NS	NA
03/08/01	219	ND<0.500	6.16	1.21	0.682	81.0	NS	NS	NA
04/18/01	74.5	ND<0.500	ND<0.500	ND<0.500	ND<0.500	97.5	NS	NS	NA
05/04/01	63.3	ND<0.500	ND<0.500	ND<0.500	ND<0.500	93.2	NS	NS	NA
06/09/01	64	ND<0.50	ND<0.50	ND<0.50	ND<0.50	71	NS	NS	NA
07/05/01	100	ND<0.50	2.5	ND<0.50	ND<0.50	430	NS	NS	NA
08/14/01	290	2.2	3.5	ND<1.0	ND<1.0	870	NS	NS	NA
09/05/01	ND<100	ND<1.0	ND<1.0	ND<1.0	ND<1.0	340	NS	NS	NA
10/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	150	NS	NS	NA
11/13/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	92	NS	NS	NA
12/11/01	65	ND<0.50	0.58	ND<0.50	ND<0.50	83	NS	NS	NA
01/04/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140	NS	NS	NA
02/05/02	100	ND<0.50	ND<0.50	ND<0.50	ND<0.50	190	NS	NS	NA
03/05/02	150	ND<1.2	ND<1.2	ND<1.2	ND<1.2	350	NS	NS	NA
04/08/02	400	9.6	ND<1.0	1.4	ND<1.0	260	NS	NS	NA
05/16/02	310	ND<1.0	ND<1.0	ND<1.0	ND<1.0	330	NS	NS	NA
10/07/02	160	4.1	ND<1.0	ND<1.0	ND<1.0	130	NS	NS	NA
11/07/02	250	ND<0.50	10	0.70	0.77	210	NS	NS	NA
12/05/02	220	ND<1.0	ND<1.0	ND<1.0	ND<1.0	110	NS	NS	NA
01/03/03	170	ND<1.0	ND<1.0	ND<1.0	ND<1.0	140	NS	NS	NA
02/13/03	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	66	NS	NS	NA
03/27/03	110	ND<0.50	ND<0.50	ND<0.50	ND<0.50	71	NS	NS	NA
04/24/03	120	ND<0.50	ND<0.50	ND<0.50	ND<0.50	56	NS	NS	NA
05/30/03	**20**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<50**	**NS**	**NS**	**NA**

Table 2
Treatment System Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

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)
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
10/22/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
12/19/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
01/16/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
02/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
03/17/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
04/15/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
05/14/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
06/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
07/14/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
08/18/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
09/15/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
10/16/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/18/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/17/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
01/18/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
02/22/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/15/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
04/09/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
05/13/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
06/04/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
07/14/94	ND	ND	ND	ND	ND	NS	NS	NS	NA
08/17/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
09/12/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
10/18/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/05/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/05/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
01/04/95	NS	NS	NS	NS	NS	NS	NS	NS	NA
02/06/95	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/02/95	NS	NS	NS	NS	NS	NS	NS	NS	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
07/08/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	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
09/08/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	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
11/07/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	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
01/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	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
03/08/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	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
05/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA
06/09/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
07/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
08/14/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
09/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
10/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
11/13/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.3	NS	NS	NA
12/11/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.7	NS	NS	NA
01/04/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.0	NS	NS	NA
02/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	26	NS	NS	NA

Table 2
Treatment System Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

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)
MID-1 (cont.)									
03/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	17	NS	NS	NA
04/08/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	39	NS	NS	NA
05/16/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	58	NS	NS	NA
10/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	55	NS	NS	NA
11/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	100	NS	NS	NA
12/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	51	NS	NS	NA
01/03/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	66	NS	NS	NA
02/13/03	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	130	NS	NS	NA
03/27/03	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	120	NS	NS	NA
04/24/03	280	ND<2.5	ND<2.5	ND<2.5	ND<2.5	110	NS	NS	NA
04/24/03	**ND<250**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**140**	**NS**	**NS**	**NA**
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
07/08/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
09/08/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
10/10/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/07/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/05/00	NS	NS	NS	NS	NS	NS	NS	NS	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
02/06/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	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
04/18/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	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
06/09/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
07/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
08/14/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
09/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
10/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
11/13/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
12/11/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
01/04/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
02/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
03/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
04/08/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.7	NS	NS	NA
05/16/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
10/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
11/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
12/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
01/03/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
02/13/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.0	NS	NS	NA
03/27/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.94	NS	NS	NA
04/24/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.95	NS	NS	NA
05/30/03	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**1.1**	**NS**	**NS**	**NA**

Table 2
Treatment System Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

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)
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
10/22/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
11/22/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
12/19/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
01/16/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
02/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
03/17/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
04/15/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
05/14/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
06/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
07/14/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
08/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
09/15/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
10/16/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
11/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
12/17/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
01/18/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
02/22/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
03/15/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
04/09/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
05/13/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
06/04/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
07/20/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
08/16/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
09/13/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
10/08/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
11/19/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
12/21/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
01/18/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
02/17/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
03/15/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
04/21/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
05/13/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
06/14/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
07/14/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
08/17/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
09/12/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
10/18/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
11/05/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
12/05/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
01/04/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
02/06/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
03/02/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
04/04/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
05/02/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
06/05/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
07/06/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
08/21/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	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
06/12/00	ND<50.0	NS	NS	NS	NS	NS	NS	NS	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

Table 2
Treatment System Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

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)
EFFL (effluent to sewer) (cont.)									
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
10/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	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
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
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
02/13/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<30	ND<10	7.15
03/27/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	32	ND<10	7.5
04/24/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<30	ND<10	6.95
05/30/03	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<30**	**ND<10**	**6.95**

TPH =Total purgeable petroleum hydrocarbons
MtBE =Methyl tert Butyl Ether
COD =Chemical oxygen demand
TSS =Total suspended solids
µg/L =Micrograms per liter
mg/L =Miligrams per liter
ND< =Denotes minimum laboratory reporting limit.
NA =Not applicable or not available
NS =Not sampled

Note: The data within this table collected prior to May 2002 was provided to URS by Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.
Beginning 02/13/03 all constituents are analyzed with EPA Method 8260B.

ATTACHMENT A

CERTIFIED ANALYTICAL REPORT
AND CHAIN-OF-CUSTODY DOCUMENTATION
MAY 30, 2003

Sequoia Analytical

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

13 June, 2003

Scott Robinson
URS Corporation [Arco]
500 12th Street, Suite 100
Oakland, CA 94607

RE: ARCO #608, San Lorenzo, CA
Sequoia Work Order: MME0810

Enclosed are the results of analyses for samples received by the laboratory on 05/30/03 15:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya K. Pelt

Latonya Pelt
Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

885 Jarvis Dr
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URS Corporation [Arco]	Project: ARCO #608, San Lorenzo, CA	MME0810
500 12th Street, Suite 100	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	06/13/03 08:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
INFL	MME0810-01	Water	05/30/03 09:40	05/30/03 15:25
MID-1	MME0810-02	Water	05/30/03 09:45	05/30/03 15:25
MID-2	MME0810-03	Water	05/30/03 09:49	05/30/03 15:25
EFFL	MME0810-04	Water	05/30/03 10:19	05/30/03 15:25

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

Sequoia Analytical

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URS Corporation [Arco]	Project: ARCO #608, San Lorenzo, CA	MME0810
500 12th Street, Suite 100	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	06/13/03 08:33

Total Purgeable Hydrocarbons (C6-C10) and Volatile Organic Compounds by EPA method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
INFL (MME0810-01) Water Sampled: 05/30/03 09:40 Received: 05/30/03 15:25									
Methyl tert-butyl ether	**20**	0.50	ug/l	1	3F10038	06/10/03	06/11/03	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*113 %*		*78-129*	"	"	"	"	
MID-1 (MME0810-02) Water Sampled: 05/30/03 09:45 Received: 05/30/03 15:25									
Methyl tert-butyl ether	**140**	2.5	ug/l	5	3F11036	06/11/03	06/12/03	EPA 8260B	
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	250	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*114 %*		*78-129*	"	"	"	"	
MID-2 (MME0810-03) Water Sampled: 05/30/03 09:49 Received: 05/30/03 15:25									
Methyl tert-butyl ether	**1.1**	0.50	ug/l	1	3F10038	06/10/03	06/11/03	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*111 %*		*78-129*	"	"	"	"	

Sequoia Analytical

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FAX (408) 782-6308
www.sequoialabs.com

URS Corporation [Arco]	Project: ARCO #608, San Lorenzo, CA	MME0810
500 12th Street, Suite 100	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	06/13/03 08:33

Total Purgeable Hydrocarbons (C6-C10) and Volatile Organic Compounds by EPA method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFFL (MME0810-04) Water Sampled: 05/30/03 10:19 Received: 05/30/03 15:25									
Methyl tert-butyl ether	ND	0.50	ug/l	1	3F10038	06/10/03	06/10/03	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*		*78-129*		"	"	"	

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URS Corporation [Arco]	Project: ARCO #608, San Lorenzo, CA	MME0810
500 12th Street, Suite 100	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	06/13/03 08:33

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFFL (MME0810-04) Water Sampled: 05/30/03 10:19 Received: 05/30/03 15:25									
Chemical Oxygen Demand	ND	30	mg/l	1	3F10028	06/10/03	06/10/03	EPA 410.4	
Total Suspended Solids	ND	10	"	"	3F03020	05/30/03	05/31/03	EPA 160.2	

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500 12th Street, Suite 100	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	06/13/03 08:33

'otal Purgeable Hydrocarbons (C6-C10) and Volatile Organic Compounds by EPA method 8260B - Quality Contr

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F10038 - EPA 5030B P/T										
Blank (3F10038-BLK1)				Prepared & Analyzed: 06/10/03						
Methyl tert-butyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C6-C10)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*5.37*		"	*5.00*		*107*	*78-129*			
Laboratory Control Sample (3F10038-BS1)				Prepared & Analyzed: 06/10/03						
Methyl tert-butyl ether	10.2	0.50	ug/l	10.0		102	63-137			
Benzene	10.3	0.50	"	10.0		103	78-124			
Toluene	10.4	0.50	"	10.0		104	78-129			
Surrogate: 1,2-Dichloroethane-d4	*5.65*		"	*5.00*		*113*	*78-129*			
Laboratory Control Sample (3F10038-BS2)				Prepared & Analyzed: 06/10/03						
Methyl tert-butyl ether	9.55	0.50	ug/l	9.92		96.3	63-137			
Benzene	5.74	0.50	"	6.40		89.7	78-124			
Toluene	32.9	0.50	"	29.7		111	78-129			
Gasoline Range Organics (C6-C10)	484	50	"	440		110	70-113			
Surrogate: 1,2-Dichloroethane-d4	*5.68*		"	*5.00*		*114*	*78-129*			
Matrix Spike (3F10038-MS1)	**Source: MMF0133-02**			Prepared: 06/10/03 Analyzed: 06/11/03						
Methyl tert-butyl ether	373	5.0	ug/l	99.2	270	104	63-137			
Benzene	58.9	5.0	"	64.0	ND	92.0	78-124			
Toluene	333	5.0	"	297	ND	112	78-129			
Gasoline Range Organics (C6-C10)	5130	500	"	4400	360	108	70-113			
Surrogate: 1,2-Dichloroethane-d4	*5.72*		"	*5.00*		*114*	*78-129*			

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URS Corporation [Arco]	Project: ARCO #608, San Lorenzo, CA	MME0810
500 12th Street, Suite 100	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	06/13/03 08:33

'otal Purgeable Hydrocarbons (C6-C10) and Volatile Organic Compounds by EPA method 8260B - Quality Contr

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F10038 - EPA 5030B P/T										
Matrix Spike Dup (3F10038-MSD1)		**Source: MMF0133-02**		Prepared: 06/10/03 Analyzed: 06/11/03						
Methyl tert-butyl ether	372	5.0	ug/l	99.2	270	103	63-137	0.268	13	
Benzene	58.4	5.0	"	64.0	ND	91.2	78-124	0.853	12	
Toluene	336	5.0	"	297	ND	113	78-129	0.897	10	
Gasoline Range Organics (C6-C10)	5030	500	"	4400	360	106	70-113	1.97	9	
Surrogate: 1,2-Dichloroethane-d4	*5.73*		"	*5.00*		*115*	*78-129*			
Batch 3F11036 - EPA 5030B P/T										
Blank (3F11036-BLK1)				Prepared & Analyzed: 06/11/03						
Methyl tert-butyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C6-C10)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*5.48*		"	*5.00*		*110*	*78-129*			
Laboratory Control Sample (3F11036-BS1)				Prepared & Analyzed: 06/11/03						
Methyl tert-butyl ether	10.3	0.50	ug/l	10.0		103	63-137			
Benzene	10.3	0.50	"	10.0		103	78-124			
Toluene	10.6	0.50	"	10.0		106	78-129			
Surrogate: 1,2-Dichloroethane-d4	*5.69*		"	*5.00*		*114*	*78-129*			
Laboratory Control Sample (3F11036-BS2)				Prepared & Analyzed: 06/11/03						
Methyl tert-butyl ether	9.49	0.50	ug/l	9.92		95.7	63-137			
Benzene	5.69	0.50	"	6.40		88.9	78-124			
Toluene	32.7	0.50	"	29.7		110	78-129			
Gasoline Range Organics (C6-C10)	481	50	"	440		109	70-113			
Surrogate: 1,2-Dichloroethane-d4	*5.72*		"	*5.00*		*114*	*78-129*			

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URS Corporation [Arco]	Project: ARCO #608, San Lorenzo, CA	MME0810
500 12th Street, Suite 100	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	06/13/03 08:33

'otal Purgeable Hydrocarbons (C6-C10) and Volatile Organic Compounds by EPA method 8260B - Quality Contr

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F11036 - EPA 5030B P/T										
Matrix Spike (3F11036-MS1)		**Source: MMF0155-01**		Prepared: 06/11/03		Analyzed: 06/12/03				
Methyl tert-butyl ether	1360	10	ug/l	198	1200	80.8	63-137			
Benzene	111	10	"	128	ND	86.7	78-124			
Toluene	634	10	"	594	ND	107	78-129			
Gasoline Range Organics (C6-C10)	10100	1000	"	8800	1700	95.5	70-113			
Surrogate: 1,2-Dichloroethane-d4	*5.80*		"	*5.00*		*116*	*78-129*			
Matrix Spike Dup (3F11036-MSD1)		**Source: MMF0155-01**		Prepared: 06/11/03		Analyzed: 06/12/03				
Methyl tert-butyl ether	1370	10	ug/l	198	1200	85.9	63-137	0.733	13	
Benzene	114	10	"	128	ND	89.1	78-124	2.67	12	
Toluene	667	10	"	594	ND	112	78-129	5.07	10	
Gasoline Range Organics (C6-C10)	10600	1000	"	8800	1700	101	70-113	4.83	9	
Surrogate: 1,2-Dichloroethane-d4	*5.92*		"	*5.00*		*118*	*78-129*			

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URS Corporation [Arco]	Project: ARCO #608, San Lorenzo, CA	MME0810
500 12th Street, Suite 100	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	06/13/03 08:33

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F03020 - General Preparation										
Blank (3F03020-BLK1)				Prepared: 05/30/03 Analyzed: 05/31/03						
Total Suspended Solids	ND	10	mg/l							
Duplicate (3F03020-DUP1)		**Source: MME0810-04**		Prepared: 05/30/03 Analyzed: 05/31/03						
Total Suspended Solids	ND	10	mg/l		ND				20	
Batch 3F10028 - General Preparation										
Blank (3F10028-BLK1)				Prepared & Analyzed: 06/10/03						
Chemical Oxygen Demand	ND	30	mg/l							
Laboratory Control Sample (3F10028-BS1)				Prepared & Analyzed: 06/10/03						
Chemical Oxygen Demand	96.7	30	mg/l	100		96.7	80-124			
Matrix Spike (3F10028-MS1)		**Source: MME0810-04**		Prepared & Analyzed: 06/10/03						
Chemical Oxygen Demand	1010	300	mg/l	1000	ND	101	80-124			
Matrix Spike Dup (3F10028-MSD1)		**Source: MME0810-04**		Prepared & Analyzed: 06/10/03						
Chemical Oxygen Demand	977	300	mg/l	1000	ND	97.7	80-124	3.32	23	

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URS Corporation [Arco]	Project: ARCO #608, San Lorenzo, CA	MME0810
500 12th Street, Suite 100	Project Number: N/P	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	06/13/03 08:33

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

bp

Chain of Custody Record

Project Name Station 608 -18501 Hesparian Blvd, San Lorenzo, CA
Business Unit Atlantic Richfield Company/Northern CA Portfolio
BP Laboratory Contract Number: 4 6 1 0 0 0
Requested Due Date: MMEDDID
(mm/dd/yy - 2 weeks from sampling date)

Date: 5/30/03

On-site Time: 915	Temp: 65°
Off-site Time: 1040	Temp:
Sky Conditions: Cloudy	
Meteorological Events: Misting	
Wind Speed: 0-5	Direction:

Send To: ?	BP/GEM Facility No.: Station 608	Consultant: URS Oakland
Lab Name: Sequoia - Petaluma	BP/GEM Facility Address: 18501 Hesparian Blvd, San Lorenzo, CA	Address: 500 12th Street, #200
Lab Address: 1455 N. McDowell Blvd.	Site ID No. Station 608	Oakland, CA 94607
Suite D	California Global ID #:T0600101605	e-mail EDD: NO EDD
Petaluma, CA 95954	BP/GEM PM Contact: Paul Supple	Consultant Project No.: 38486167.00327
Lab PM: Angelee Cari	Address: P.O. Box 6549, Moraga, CA 94570	Consultant Tele/Fax: 510-874-3280/510-874-3268
Tele/Fax: 707-792-7527/ 707-792-0342	Tele/Fax: 925-299-8891/925-299-8872	Consultant PM: Scott Robinson
Report Type & QC Level: 1		Invoice to: Atlantic Richfield Company
BP/GEM Account No.:		BP/GEM Work Release No:
Lab Bottle Order No:		

Item No.	Field Point ID	Sample ID	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 (8015)	Requested Analysis: BTEX (8021)	Requested Analysis: MTBE (8021)	Requested Analysis: COD	Requested Analysis: TSS					Sample Point Lat/Long and Comments
1	INFL	INFL	940		X			01	3				X			X	X	X							
2	MID-1	MID-1	945		X			02	3				X			X	X	X							
3	MID-2	MID-2	949		X			03	3				X			X	X	X							
4	EFFL	EFFL	1019		X			04	7	X	X		X			X	X	X	X	X					
5																									
6																									
7																									
8																									
9																									
10																									

Sampler's Name: ~~George Bradshaw~~ Teresa Tamburello	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: URS Oakland	Teresa Tamburello	5/30/03	1245	Carlos 5104	5/30/03	1:21
Shipment Date: 5/30/03	Carlos 5104	5/30/03	1525		5/30/03	11:24
Shipment Method: ~~Hand Deliver~~ Pick-Up						
Shipment Tracking No:						

Special Instructions: COD = Chemical Oxygen Demand (3 VOS's w/ 1:2SO4), TSS = Total Suspended Solids (1 Liter poly unpreserved)

Custody Seals In Place Yes___ No__x__ Temperature Blank Yes___ No__x__ Cooler Temperature on Receipt 6 °F/C Trip Blank Yes___ No__x__

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BF
REC. BY (PRINT):
WORKORDER: 306890

DATE REC'D AT LAB: 5/30/03
TIME REC'D AT LAB: 15:25
DATE LOGGED IN: 5-30-03

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) Intact / Broken*			INFL	(3) voas	HCl	L	5/30/03	
2. Chain-of-Custody (Present) / Absent*			MID-1	↓	↓	↓	↓	
3. Traffic Reports or Packing List: Present / (Absent)			↓ 2					
4. Airbill: Airbill / Sticker Present / (Absent)	1		EFFL	↓	H_2SO_4			
5. Airbill #:			↓	(1) 1L poly	—			
6. Sample Labels: (Present) / Absent								
7. Sample IDs: (Listed) / Not Listed on Chain-of-Custody								
8. Sample Condition: (Intact) / Broken* / Leaking*								
9. Does information on custody reports, traffic reports and sample labels agree? (Yes) / No*								
10. Sample received within hold time: (Yes) / No*								
11. Proper Preservatives used: (Yes) / No*								
12. Temp Rec. at Lab: 6 °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

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

ATTACHMENT B

OPERATION AND MAINTENANCE FIELD LOGS

Date: 5/30/03

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
821803 (00008000)
June 14, 2001

System Description:

Groundwater Pumps

Well	Type	Size	Control	Set Depth (TOB)
E-1A	Electric	3"	panel	23.9'

Carbon Vessels: Three ASC-1,200
Filter: Rosedale P2 25 micron

PART A: SYSTEM DATA (Semi-Monthly)

System on upon arrival? No, electric turned on yesterday (Bill not paid, shut off last Thursday) (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)	33883	HOUR METER READING (hrs)	44589

MEASUREMENT	ON ARRIVAL (915)	ON DEPARTURE (1030)
TOTALIZER (gallons)	2931190	2931230
FILTER INLET PRESSURE (psig)	0 / 4.0	(ideal range: 8 to 12 psig)
CARBON #1 INLET PRESSURE (psig)	3.0 / 4.0	(ideal range: 5 to 9 psig)
CARBON #2 INLET PRESSURE (psig)	3.5 / 4.0	(ideal range: 1 to 4 psig)
DISCHARGE PRESSURE (psig)	0 / 0	(ideal range: 0 to 2 psig)
Carbon #3	3.5 / 4.0	

PART B: COMMENTS

Second measurments taken after second re-start. Noticed totalizer wasn't moving, talked w/ George and button pushed again and water started flowing.

PART C: WELL DATA (Monthly) N/A

*** ALLOW SYSTEM TO RUN 1 HOUR BEFORE OBTAINING DTW READINGS**

WELL	DTW (TOB)	TOTALIZER (gallons)	FLOWRATE (gpm)	COMMENTS/ ADJUSTMENTS
E-1A				
UST-A		N/A	N/A	
UST-B		N/A	N/A	
SP1-V4		N/A	N/A	

PART D: SAMPLING (Monthly)

SAMPLE	ANALYSIS	COMPLETED
INFLUENT	TPH-gasoline, BTEX compounds, MtBE	5/30
EFFLUENT	TPH-gasoline, BTEX compounds, MtBE COD, TSS	5/30
MID-1	TPH-gasoline, BTEX compounds, MtBE	5/30
MID-2	TPH-gasoline, BTEX compounds, MtBE	5/30

PART E: READINGS (Monthly)

	TEMP (°F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)
EFFLUENT	64.8	0.91	~~6.95~~ 7.50 JS.	N/A

PART F: SYSTEM MAINTENANCE I (Monthly) N/A

NUMBER OF SPARE FILTERS ON SITE?		CHANGE FILTERS? (if necessary)	
PUMP AMP DRAW		H202 injection well EA-1 (if necessary)	
SWEEP ENCLOSURE			

PART G: SYSTEM MAINTENANCE II (Quarterly) N/A

TEST ALARM SWITCHES		BACKFLUSH CARBONS	
CLEAN TOTALIZERS			

Date: 5/22/03

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
821803 (00008000)
June 14, 2001

System Description:

Groundwater Pumps

Well	Type	Size	Control	Set Depth (TOB)
E-1A	Electric	3"	panel	23.9'

Carbon Vessels: Three ASC-1,200
Filter: Rosedale P2 25 micron

PART A: SYSTEM DATA (Semi-Monthly)

System on upon arrival? Shut Down (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)	33873	HOUR METER READING (hrs)	4459.0

MEASUREMENT	ON ARRIVAL	ON DEPARTURE
TOTALIZER (gallons)	2931190	2931190
FILTER INLET PRESSURE (psig)	0	(ideal range: 8 to 12 psig)
CARBON #1 INLET PRESSURE (psig)	3.5	(ideal range: 5 to 9 psig)
CARBON #2 INLET PRESSURE (psig)	4.0	(ideal range: 1 to 4 psig)
DISCHARGE PRESSURE (psig)	0	(ideal range: 0 to 2 psig)

PART B: COMMENTS Utility Power Outage
Contact Scott Robinson from site.
Sampling and water testing could not
be performed for month of May.

Date: 5/8/03

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
821803 (00008000)
June 14, 2001

System Description:

Groundwater Pumps

Well	Type	Size	Control	Set Depth (TOB)
E-1A	Electric	3"	panel	23.9'

Carbon Vessels: Three ASC-1,200
Filter: Rosedale P2 25 micron

PART A: SYSTEM DATA (Semi-Monthly)

System on upon arrival? Operating (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)	33703	HOUR METER READING (hrs)	4171.5

MEASUREMENT	ON ARRIVAL	ON DEPARTURE
TOTALIZER (gallons)	2900937	2900960
FILTER INLET PRESSURE (psig)	8	(ideal range: 8 to 12 psig)
CARBON #1 INLET PRESSURE (psig)	5.9	(ideal range: 5 to 9 psig)
CARBON #2 INLET PRESSURE (psig) Carbon #2 Inlet	5.8 4.6	(ideal range: 1 to 4 psig)
DISCHARGE PRESSURE (psig)	0	(ideal range: 0 to 2 psig)

PART B: COMMENTS

Date: 5/8/03

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
821803 (00008000)
June 14, 2001

System Description:

Groundwater Pumps

Well	Type	Size	Control	Set Depth (FOB)
E-1A	Electric	3"	panel	23.9'

Carbon Vessels: Three ASC-1,200
Filter: Rosedale P2 25 micron

PART A: SYSTEM DATA (Semi-Monthly)

System on upon arrival? Operating (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)	33703	HOUR METER READING (hrs)	4171.5

MEASUREMENT	ON ARRIVAL	ON DEPARTURE
TOTALIZER (gallons)	2900937	2900960
FILTER INLET PRESSURE (psig)	8	(ideal range: 8 to 12 psig)
CARBON #1 INLET PRESSURE (psig)	5.9	(ideal range: 5 to 9 psig)
CARBON #2 INLET PRESSURE (psig) Carbon #2 Inlet	5.8 4.6	(ideal range: 1 to 4 psig)
DISCHARGE PRESSURE (psig)	0	(ideal range: 0 to 2 psig)

PART B: COMMENTS

PART C: WELL DATA (Monthly)

*** ALLOW SYSTEM TO RUN 1 HOUR BEFORE OBTAINING DTW READINGS**

WELL	DTW (TOB)	TOTALIZER (gallons)	FLOWRATE (gpm)	COMMENTS/ ADJUSTMENTS
E-1A				
UST-A		N/A	N/A	
UST-B		N/A	N/A	
SP1-V4		N/A	N/A	

PART D: SAMPLING (Monthly) Samples To Be Collected 5/22/03

SAMPLE	ANALYSIS	COMPLETED
INFLUENT	TPH-gasoline, BTEX compounds, MtBE	
EFFLUENT	TPH-gasoline, BTEX compounds, MtBE COD, TSS	
MID-1	TPH-gasoline, BTEX compounds, MtBE	
MID-2	TPH-gasoline, BTEX compounds, MtBE	

PART E: READINGS (Monthly) Will Collect on 5/22/03

	TEMP (°F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)
EFFLUENT				

PART F: SYSTEM MAINTENANCE I (Monthly)

NUMBER OF SPARE FILTERS ON SITE?	7	CHANGE FILTERS? (if necessary)	Yes 5/8/03
~~PUMP AMP DRAW~~		~~H202 injection well EA-1~~ (if necessary)	
SWEEP ENCLOSURE	Not Required		

PART G: SYSTEM MAINTENANCE II (Quarterly) To be completed 5/22/03

TEST ALARM SWITCHES		BACKFLUSH CARBONS	
CLEAN TOTALIZERS			