RO-494

Atlantic Richfield Company
(a BP affiliated company)

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

March 31, 2005

Re: First Quarter 2005 Groundwater Monitoring Report
ARCO Service Station #2111
1156 Davis Street
San Leandro, California
File #: STID 744/R0-494

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

March 31, 2005

Mr. Robert Schultz
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: First Quarter 2005 Groundwater Monitoring Report
ARCO Service Station #2111
1156 Davis Street
San Leandro, California
File #: STID 744/R0-494

Dear Mr. Schultz:

On behalf of Atlantic Richfield Company (RM), a BP affiliated company, URS Corporation (URS) is submitting the *First Quarter 2005 Groundwater Monitoring Report* for ARCO Service Station #2111, located at 1156 Davis Street, San Leandro, California.

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

Sincerely,

URS CORPORATION

CERTIFIED HYDROGEOLOGIST
LEONARD P. NILES
NO.HG357
EXP. 3/31/06
STATE OF CALIFORNIA

Scott Robinson
Project Manager

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

Enclosure: First Quarter 2005 Groundwater Monitoring Report

cc: Mr. Paul Supple, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS

URS Corporation
1333 Broadway, Suite 800
Oakland, CA 94612-1924
Tel: 510.893.3600
Fax: 510.874.3268

REPORT

FIRST QUARTER 2005 GROUNDWATER MONITORING REPORT

ARCO SERVICE STATION #2111
1156 DAVIS STREET
SAN LEANDRO, CALIFORNIA

Prepared for
RM

March 31, 2005

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

Date: March 31, 2005

Quarter: 1Q 05

RM QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 2111 Address: 1156 Davis Street, San Leandro, California

RM Environmental Business Manager: Paul Supple

Consulting Co./Contact Person: URS Corporation / Scott Robinson

Primary Agency: Alameda County Environmental Health (ACEH)

File/Case #: STID 744/R0-494

WORK PERFORMED THIS QUARTER (First – 2005):

1. Prepared and submitted Fourth Quarter 2004 Groundwater Monitoring Report.
2. Performed first quarter 2005 groundwater monitoring event on January 20, 2005.
3. Performed monthly free product bailing at well MW-2.
4. Prepared and submitted this First Quarter 2005 Groundwater Monitoring Report
5. Prepared and submitted DPE system design and workplan for bidding.

WORK PROPOSED FOR NEXT QUARTER (Second – 2005):

1. Perform second quarter 2005 groundwater monitoring event.
2. Prepare and submit Second Quarter 2005 Groundwater Monitoring Report.
3. Check MW-2 monthly for free product.

SITE SUMMARY

Current Phase of Project:	Groundwater monitoring/sampling/interim remediation
Frequency of Groundwater Sampling:	Quarterly: Wells MW-1 through MW-5 and MW-8 Annually (3rd Quarter): MW-6
Frequency of Groundwater Monitoring:	Quarterly
Is Free Product (FP) Present On-Site:	Sheen
FP recovered this quarter (to 3/23/05):	0 gallons
Cumulative FP Recovered from 6/28/99 to 3/23/05 :	1.44 gallons
Current Remediation Techniques:	Bailing free product as needed from MW-2
Approximate Depth to Groundwater:	12.57 (MW-6) to 15.50 (MW-1) feet
Groundwater Gradient (direction):	West
Groundwater Gradient (magnitude):	0.009 feet per foot

DISCUSSION:

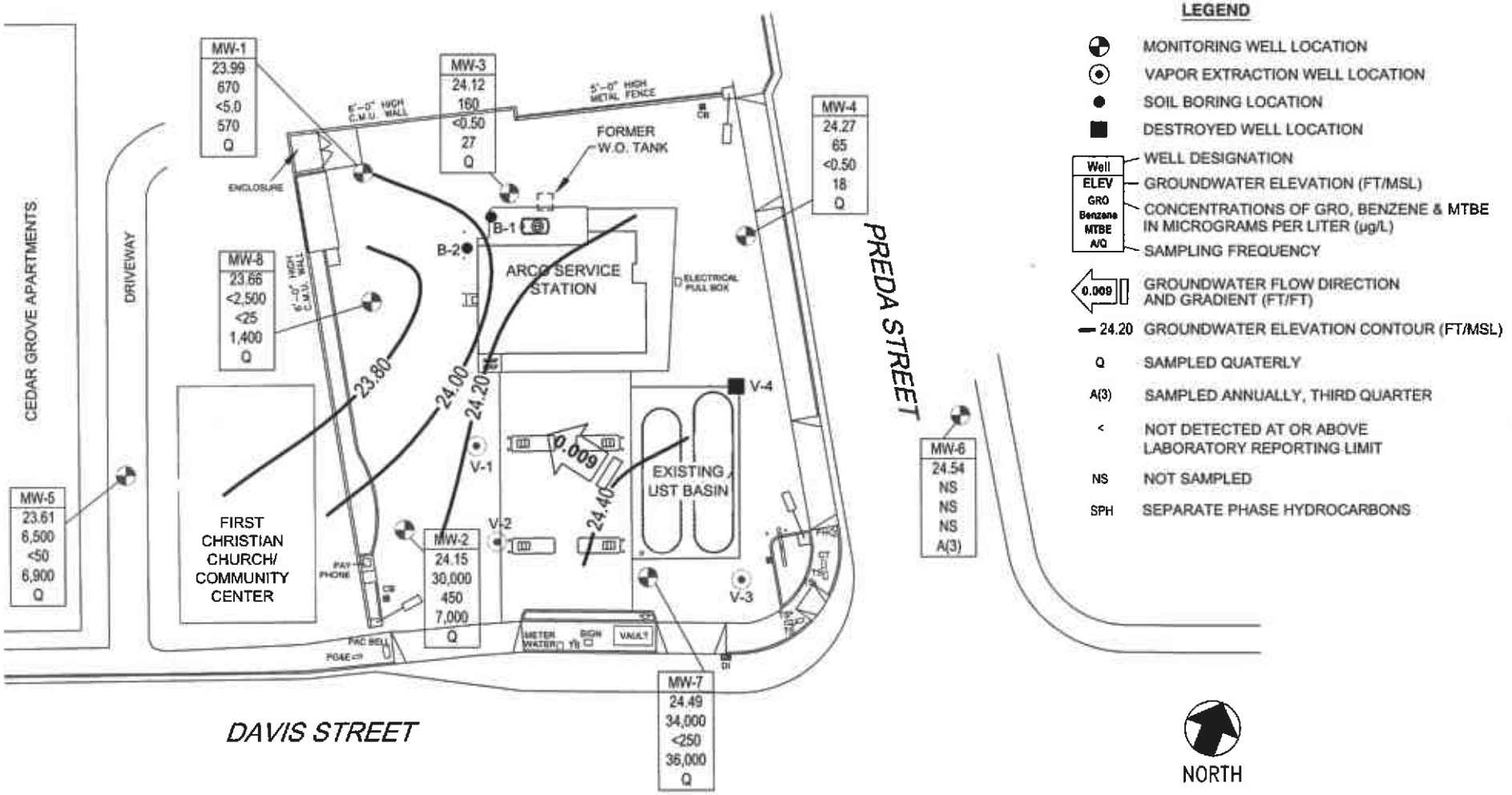
Gasoline range organics (GRO) were detected at or above the laboratory reporting limits in six of the seven wells sampled this quarter at concentrations ranging from 65 µg/L (MW-4) to 34,000 µg/L (MW-7). Methyl tert-butyl ether (MTBE) was detected at or above the laboratory reporting limit in all seven wells at concentrations ranging from 18 µg/L (MW-4) to 36,000 µg/L (MW-7). Tert-amyl methyl ether (TAME) was detected at or above the laboratory reporting limit in three wells at concentrations ranging from 2.6 µg/L (MW-3) to 17 µg/L (MW-1). Benzene was detected at or above the laboratory reporting limits in one well at a concentration of 450 µg/L (MW-2). Ethylbenzene was detected at or above the laboratory reporting limits in one well at a concentration of 1,300 µg/L (MW-2). Xylenes were detected at or above the laboratory reporting limits in one well at a concentration of 3,300 µg/L (MW-2). No other fuel additives were detected at or above the laboratory reporting limits in wells sampled this quarter.

Free product monitoring events were conducted at well MW-2 on January 20, February 4, and March 23, 2005. No free product was recovered from well MW-2 during this quarter.

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – January 20, 2005
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Additive Analytical Data
- Table 3 –Groundwater Flow Direction and Gradient
- Table 4 – Approximate Cumulative Floating Product Recovered (1999 – Present)
- Attachment A – Field Procedures and Field Data Sheets
- Attachment B – Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records
- Attachment C – Error Check Reports and EDF/Geowell Submittal Confirmations

Mar 29, 2005 - 2:27pm
X:\x_env_waste\BP GEM\sites\Scott Robinson\Paul Supple\2111\Monitoring Qtr. 1, 2005\Drawings\2111-1Q05-GW.dwg



LEGEND

- MONITORING WELL LOCATION
- VAPOR EXTRACTION WELL LOCATION
- SOIL BORING LOCATION
- DESTROYED WELL LOCATION
- Well — WELL DESIGNATION
- ELEV — GROUNDWATER ELEVATION (FT/MSL)
- GRO, Benzene, MTBE — CONCENTRATIONS OF GRO, BENZENE & MTBE IN MICROGRAMS PER LITER (µg/L)
- A/Q — SAMPLING FREQUENCY
- 0.009 — GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)
- 24.20 — GROUNDWATER ELEVATION CONTOUR (FT/MSL)
- Q — SAMPLED QUATERLY
- A(3) — SAMPLED ANNUALLY, THIRD QUARTER
- < — NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMIT
- NS — NOT SAMPLED
- SPH — SEPARATE PHASE HYDROCARBONS

NORTH

0 40 80

SCALE IN FEET

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

URS	Project No. 38487175 ARCO Service Station #2111 1156 Davis Street San Leandro, California	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP First Quarter 2005 (January 20, 2005)	FIGURE 1

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2111
1156 Davis St, San Leandro, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-1	6/26/2000	--		39.6	12.50	26.00	16.46	23.14	--	--	--	--	--	--	--	--
	7/20/2000	--		39.6	12.50	26.00	16.89	22.71	360	110	<0.5	<0.5	2.7	2,100	--	--
	9/19/2000	--		39.6	12.50	26.00	17.62	21.98	290	76	<0.5	<0.5	2.3	1,500	--	--
	12/21/2000	--		39.6	12.50	26.00	17.39	22.21	257	64	2.89	1.31	4.57	1,080/1,060	--	--
	3/13/2001	--		39.6	12.50	26.00	15.70	23.90	<500	52.5	<5.0	<5.0	<5.0	1,430/1,370	--	--
	9/18/2001	--		39.6	12.50	26.00	18.24	21.36	<500	64	7.3	<5.0	52	810/1,100	--	--
	12/28/2001	--		39.6	12.50	26.00	15.95	23.65	<500	<5.0	<5.0	5	22	1,200/1,100	--	--
	3/14/2002	--		39.6	12.50	26.00	16.01	23.59	<50	<0.5	<0.5	<0.5	<0.5	34/40	--	--
	4/23/2002	--		39.6	12.50	26.00	15.43	24.17	<50	<0.5	<0.5	<0.5	<0.5	30	--	--
	7/17/2002	NP		39.6	12.50	26.00	17.50	22.10	<50	1.2	<0.50	<0.50	<0.50	29	6.9	6.9
	10/9/2002	--	c	39.6	12.50	26.00	18.27	21.33	240	4.9	<1.0	4.1	7.0	290	6.5	6.5
	1/13/2003	--	c	39.6	12.50	26.00	15.37	24.23	760	34	11	17	56	300	6.8	6.8
	04/07/03	--		39.6	12.50	26.00	16.61	22.99	<50	<0.50	<0.50	<0.50	<0.50	22	6.8	6.8
	7/9/2003	--		39.6	12.50	26.00	17.27	22.33	<2,500	<25	<25	<25	<25	690	6.7	6.7
	02/05/2004	NP	m	39.49	12.50	26.00	16.28	23.21	2,800	31	<25	<25	<25	1,100	0.9	6.5
	04/05/2004	NP		39.49	12.50	26.00	16.25	23.24	5,800	46	<25	<25	<25	1,700	1.0	--
	07/13/2004	NP		39.49	12.50	26.00	17.57	21.92	<1,000	<10	<10	<10	<10	730	0.5	6.6
	11/04/2004	NP		39.49	12.50	26.00	17.78	21.71	560	<5.0	<5.0	<5.0	<5.0	380	0.8	6.5
	01/20/2005	**NP**		**39.49**	**12.50**	**26.00**	**15.50**	**23.99**	**670**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**570**	**0.6**	**6.0**
MW-2	6/26/2000	--	a	37.99	12.00	26.00	14.60	23.39	--	--	--	--	--	--	--	
	7/20/2000	--		37.99	12.00	26.00	15.14	22.85	95,000	2,300	18,000	2,500	19,000	13,000	--	--
	9/19/2000	--		37.99	12.00	26.00	15.95	22.04	63,000	1,200	6,300	2,000	14,000	19,000	--	--
	12/21/00	--	b	37.99	12.00	26.00	--	--	5,010	360	189	213	626	54,300/89,200	--	--
	12/21/2000	--		37.99	12.00	26.00	15.60	22.39	45,900	--	2,130	1,160	9,460	22,400/24,700	--	--
	3/13/2001	--	b	37.99	12.00	26.00	--	--	<20,000	525	466	408	1,460	91,700/76,000	--	--
	3/13/2001	--		37.99	12.00	26.00	13.77	23.90	3,650	98.1	<5.0	<5.0	6.42	3,590/3,260	--	--
	9/18/2001	--	a	37.99	12.00	26.00	16.86	21.13	--	--	--	--	--	--	--	--
	12/28/2001	--		37.99	12.00	26.00	14.28	23.71	31,000	1,500	3,800	1,300	4,800	9,300/8,800	--	--
	3/14/2002	--		37.99	12.00	26.00	14.15	23.84	1,800	25	43	43	270	990/960	--	--
	4/23/2002	--		37.99	12.00	26.00	13.60	24.39	9,000	220	110	470	2,500	8,500	--	--
	7/17/2002	NP	a, c	37.99	12.00	26.00	15.75	--	74,000	280	290	820	10,000	19,000/0.4	6.8	6.8

Table 1

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1156 Davis St, San Leandro, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-2	10/9/02	NP	g	37.99	12.00	26.00	16.69	--	--	--	--	--	--	--	--	--
	1/13/03	--	g, h	37.99	12.00	26.00	13.59	24.61	--	--	--	--	--	--	--	--
	04/07/03	--	g, h	37.99	12.00	26.00	14.70	23.69	--	--	--	--	--	--	--	--
	07/09/03	--	g, h	37.99	12.00	26.00	15.48	22.57	--	--	--	--	--	--	--	--
	02/05/2004	NP	g,m	37.86	12.00	26.00	14.43	23.53	--	--	--	--	--	--	--	--
	04/05/2004	NP		37.86	12.00	26.00	14.35	23.51	2,300	33	<5.0	<5.0	200	750	0.6	--
	07/13/2004	NP		37.86	12.00	26.00	15.79	22.07	59,000	380	<50	2,100	7,900	5,800	0.3	6.4
	08/31/2004	--		37.86	12.00	26.00	15.89	21.97	--	--	--	--	--	--	--	--
	11/04/2004	--	g, h	37.86	12.00	26.00	15.92	21.94	--	--	--	--	--	--	--	--
	01/20/2005	**NP**	**o**	**37.86**	**12.00**	**26.00**	**13.71**	**24.15**	**30,000**	**450**	**<50**	**1,300**	**3,300**	**7,000**	**0.7**	**6.2**
MW-3	6/26/2000	--		39.32	12.00	26.00	15.96	23.36	--	--	--	--	--	--	--	NA
	7/20/2000	--		39.32	12.00	26.00	16.42	22.90	<50	<0.5	<0.5	<0.5	<1.0	130	--	--
	9/19/2000	--		39.32	12.00	26.00	17.18	22.14	190	17	<0.5	1.4	2.4	160	--	--
	12/21/2000	--		39.32	12.00	26.00	16.97	22.35	187	17.8	<0.5	2.47	2.5	143/125	--	--
	3/13/2001	--		39.32	12.00	26.00	15.17	24.15	72.4	2.83	<0.5	<0.5	<0.5	126/122	--	--
	9/18/2001	--		39.32	12.00	26.00	17.81	21.51	140	6.4	<0.5	3.5	1.6	110/75	--	--
	12/28/2001	--		39.32	12.00	26.00	15.44	23.88	130	5.9	<0.5	0.99	0.55	90/63	--	--
	3/14/2002	--		39.32	12.00	26.00	15.50	23.82	<50	<0.5	<0.5	<0.5	<0.5	100/88	--	--
	4/23/2002	--		39.32	12.00	26.00	14.96	24.36	<50	<0.5	<0.5	<0.5	<0.5	77	--	--
	7/17/2002	NP		39.32	12.00	26.00	17.09	22.23	<50	<0.50	<0.50	<0.50	<0.50	47	7.2	7.2
	10/9/2002	NP		39.32	12.00	26.00	17.87	21.45	<50	<0.50	<0.50	<0.50	<0.50	26/29	7.2	7.2
	1/13/2003	NP	l (Toluene and MTBE)	39.32	12.00	26.00	14.78	24.54	<50	<0.50	<0.50	<0.50	<0.50	59	6.8	6.8
	04/07/03	NP		39.32	12.00	26.00	16.15	23.17	88	<0.50	<0.50	<0.50	<0.50	75	7.0	7.0
	7/9/2003	--		39.32	12.00	26.00	16.79	22.53	100	<0.50	<0.50	<0.50	<0.50	52	6.5	6.5
	02/05/2004	NP	m	39.19	11.90	26.00	15.66	23.53	240	<0.50	<0.50	<0.50	<0.50	37	0.5	--
	04/05/2004	NP		39.19	11.90	26.00	15.78	23.41	140	<0.50	<0.50	<0.50	0.60	53	1.0	6.6
	07/13/2004	NP		39.19	11.90	26.00	17.20	21.99	120	<0.50	<0.50	<0.50	<0.50	35	0.8	6.7
	11/04/2004	NP		39.19	11.90	26.00	17.32	21.87	160	<0.50	<0.50	<0.50	<0.50	25	0.8	6.5
	01/20/2005	**NP**		**39.19**	**11.90**	**26.00**	**15.07**	**24.12**	**160**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**27**	**0.6**	**6.1**
MW-4	6/26/2000	--		38.1	10.00	24.00	14.59	23.51	--	--	--	--	--	--	--	NA
	7/20/2000	--		38.1	10.00	24.00	15.04	23.06	97	7.9	<0.5	<0.5	1.1	51	--	--
	9/19/2000	--		38.1	10.00	24.00	15.83	22.27	110	7	<0.5	<0.5	<1.0	60	--	--
	12/21/2000	--		38.1	10.00	24.00	15.59	22.51	120	5.6	<0.5	1.72	<0.5	46.3/48.6	--	--

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2111
1156 Davis St, San Leandro, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-4	3/13/2001	--		38.1	10.00	24.00	13.73	24.37	76	0.796	<0.5	<0.5	<0.5	53.7/50	--	--
	9/18/2001	--		38.1	10.00	24.00	16.50	21.60	<50	<0.5	<0.5	<0.5	<0.5	25/26	--	--
	12/28/2001	--		38.1	10.00	24.00	14.03	24.07	<50	<0.5	<0.5	<0.5	<0.5	15/11	--	--
	3/14/2002	--		38.1	10.00	24.00	14.10	24.00	<50	<0.5	<0.5	<0.5	<0.5	31/28	--	--
	4/23/2002	--		38.1	10.00	24.00	13.57	24.53	<50	2.8	<0.5	<0.5	<0.5	42	--	--
	7/17/2002	NP		38.1	10.00	24.00	15.76	22.34	<50	<0.50	<0.50	<0.50	<0.50	16	7.1	7.1
	10/9/2002	NP		38.1	10.00	24.00	16.59	21.51	<50	2.2	<0.50	<0.50	<0.50	20/23	7.1	7.1
	1/13/2003	NP	d	38.1	10.00	24.00	13.43	24.67	52	<0.50	1.6	<0.50	<0.50	22	6.6	6.6
	04/07/03	NP		38.1	10.00	24.00	14.74	23.36	65	<0.50	<0.50	<0.50	<0.50	24	6.6	6.6
	7/9/2003	--		38.1	10.00	24.00	15.44	22.66	120	<0.50	<0.50	<0.50	<0.50	34	6.6	6.6
	02/05/2004	NP	m	37.99	10.00	24.00	14.39	23.60	120	<0.50	<0.50	<0.50	<0.50	22	0.5	6.6
	04/05/2004	NP		37.99	10.00	24.00	14.37	23.62	110	<0.50	<0.50	<0.50	<0.50	27	1.1	6.5
	07/13/2004	NP		37.99	10.00	24.00	15.96	22.03	77	<0.50	<0.50	<0.50	<0.50	27	0.6	6.6
	11/04/2004	NP		37.99	10.00	24.00	16.02	21.97	<50	<0.50	<0.50	<0.50	<0.50	19	1.2	6.7
	01/20/2005	**NP**		**37.99**	**10.00**	**24.00**	**13.72**	**24.27**	**65**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**18**	**0.6**	**6.1**
MW-5	6/26/2000	--		37.21	9.50	23.50	14.27	22.94	--	--	--	--	--	--	--	
	7/20/2000	--		37.21	9.50	23.50	14.69	22.52	55	<0.5	<0.5	<0.5	<1.0	14,000	--	--
	9/19/2000	--		37.21	9.50	23.50	15.36	21.85	54	<0.5	<0.5	<0.5	<1.0	13,000	--	--
	12/21/2000	--		37.21	9.50	23.50	15.15	22.06	72.9	2.51	<0.5	<0.5	0.961	19,200/21,200	--	--
	3/13/2001	--		37.21	9.50	23.50	13.50	23.71	<500	<5	<5	<5	<5	15,900/20,000	--	--
	9/18/2001	--		37.21	9.50	23.50	15.94	21.27	<10,000	<100	<100	<100	<1,000	22,000/20,000	--	--
	12/28/2001	--		37.21	9.50	23.50	13.45	23.76	<10,000	<100	<100	<100	<100	10,000/10,000	--	--
	3/14/2002	--		37.21	9.50	23.50	13.82	23.39	<5,000	<50	<50	<50	<50	7,100/7,700	--	--
	4/23/2002	--		37.21	9.50	23.50	13.25	23.96	<5,000	<50	<50	<50	<50	8,900	--	--
	7/17/2002	NP	d	37.21	9.50	23.50	15.27	21.94	7,900	<50	<50	<50	<50	13,000	7.5	7.5
	10/9/2002	NP	e	37.21	9.50	23.50	16.02	21.19	2,400	<20	<20	<20	<20	7,300/7,500	6.7	6.7
	1/13/2003	NP	e, k, j (benzene and total xylenes)	37.21	9.50	23.50	13.20	24.01	6,400	<50	<50	<50	<50	8,900	6.8	6.8
	04/07/03	NP		37.21	9.50	23.50	14.42	22.79	<10,000	<100	<100	<100	<100	3,700	6.8	6.8
	7/9/2003	--		37.21	9.50	23.50	15.01	22.20	11,000	<50	<50	<50	<50	6,500	6.9	6.9
	02/05/2004	NP	m	37.12	9.00	23.50	14.10	23.02	8,100	<50	<50	<50	<50	7,900	1.5	--

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2111
1156 Davis St, San Leandro, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-5	04/05/2004	NP		37.12	9.00	23.50	14.14	22.98	4,000	<25	<25	<25	<25	2,000	1.0	6.6
	07/13/2004	NP		37.12	9.00	23.50	15.37	21.75	<5,000	<50	<50	<50	<50	4,000	0.8	6.7
	11/04/2004	NP		37.12	9.00	23.50	15.53	21.59	7,400	<50	<50	<50	<50	6,300	3.5	6.7
	01/20/2005	**NP**	**n**	**37.12**	**9.00**	**23.50**	**13.51**	**23.61**	**6,500**	**<50**	**<50**	**<50**	**<50**	**6,900**	**0.7**	**6.5**
MW-6	6/26/2000	--		37.11	10.00	25.00	13.46	23.65	--	--	--	--	--	--	--	NA
	7/20/2000	--		37.11	10.00	25.00	13.94	23.17	<50	<0.5	<0.5	<0.5	<1.0	<3.0	--	--
	9/19/2000	--		37.11	10.00	25.00	14.41	22.70	<50	<0.5	<0.5	<0.5	<1.0	<3.0	--	--
	12/21/2000	--		37.11	10.00	25.00	14.53	22.58	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	3/13/2001	--		37.11	10.00	25.00	12.67	24.44	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	9/18/2001	--		37.11	10.00	25.00	15.42	21.69	<50	<0.5	<0.5	<0.5	<0.5	<2.5/<2.0	--	--
	12/28/2001	--		37.11	10.00	25.00	12.96	24.15	<50	<0.5	<0.5	<0.5	<0.5	12/<0.5	--	--
	3/14/2002	--		37.11	10.00	25.00	12.98	24.13	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	4/23/2002	--		37.11	10.00	25.00	12.44	24.67	<50	<0.5	<0.5	<0.5	<0.5	3.1	--	--
	7/17/2002	NP		37.11	10.00	25.00	14.65	22.46	<50	<0.50	<0.50	<0.50	<0.50	<2.5	7.3	7.3
	10/9/2002	NP		37.11	10.00	25.00	15.51	21.60	<50	<0.50	<0.50	<0.50	<0.50	<2.5	7.1	7.1
	1/13/2003	NP		37.11	10.00	25.00	12.27	24.84	<50	<0.50	<0.50	<0.50	<0.50	<2.5	6.8	6.8
	04/07/03	NP		37.11	10.00	25.00	13.61	23.50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	6.6	6.6
	7/9/2003	--		37.11	10.00	25.00	14.34	22.77	<50	<0.50	<0.50	<0.50	<0.50	<0.50	7	7.0
	02/05/2004	--	m	37.11	10.00	25.00	13.38	23.73	--	--	--	--	--	--	--	--
	04/05/2004	--		37.11	10.00	25.00	13.31	23.80	--	--	--	--	--	--	--	--
	07/13/2004	NP		37.11	10.00	25.00	14.65	22.46	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.7	6.8
	11/04/2004	--		37.11	10.00	25.00	14.95	22.16	--	--	--	--	--	--	--	--
	01/20/2005	**--**		**37.11**	**10.00**	**25.00**	**12.57**	**24.54**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
MW-7	6/26/2000	--		38.68	12.00	27.00	14.34	24.34	--	--	--	--	--	--	--	
	7/20/2000	--		38.68	12.00	27.00	15.26	23.42	14,000	5.4	<0.5	2.8	5.9	71,000	--	--
	9/19/2000	--		38.68	12.00	27.00	15.70	22.98	8,400	420	38	470	220	5,600	--	--
	12/21/2000	--		38.68	12.00	27.00	16.02	22.66	--	--	--	--	--	--	--	--
	3/13/2001	--		38.68	12.00	27.00	14.18	24.50	<2,000	154	63	46.3	127	175,000/160,000	--	--
	9/18/2001	--		38.68	12.00	27.00	17.02	21.66	<100,000	1,900	<1,000	<1,000	2,800	190,000/370,000	--	--
	12/28/2001	--		38.68	12.00	27.00	14.81	23.87	<20,000	<200	<200	<200	<200	84,000/72,000	--	--

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2111
1156 Davis St, San Leandro, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-7	3/14/2002	--		38.68	12.00	27.00	14.60	24.08	<50,000	<500	<500	<500	<500	85,000/85,000	--	--
	4/23/2002	--		38.68	12.00	27.00	13.94	24.74	<20,000	530	200	220	800	67,000	--	--
	7/17/2002	NP	d	38.68	12.00	27.00	16.27	22.41	26,000	720	<250	<250	860	120,000	6.9	6.9
	10/9/2002	NP	d	38.68	12.00	27.00	17.16	21.52	110,000	1,500	4,400	820	5,400	97,000/120,000	6.8	6.8
	1/13/2003	NP	f (TPH-g, BTEX, MTBE)	38.68	12.00	27.00	13.82	24.86	<50,000	<500	<500	<500	2,200	33,000	6.6	6.6
	04/07/03	NP		38.68	12.00	27.00	14.52	24.16	<2,500	30	<25	<25	<25	710	7.0	7.0
	7/9/2003	--		38.68	12.00	27.00	15.97	22.71	66,000	<500	<500	<500	<500	36,000	6.7	6.7
	02/05/2004	NP	m	38.54	12.00	27.00	14.75	23.79	55,000	300	<250	<250	<250	34,000	1.0	6.7
	04/05/2004	NP		38.54	12.00	27.00	14.63	23.91	62,000	520	<250	<250	380	37,000	1.0	6.7
	07/13/2004	NP		38.54	12.00	27.00	16.31	22.23	<100,000	<1,000	<1,000	<1,000	<1,000	56,000	0.7	6.7
	11/04/2004	--		38.54	12.00	27.00	16.46	22.08	70,000	<500	<500	<500	<500	71,000	2.0	6.6
	01/20/2005	**NP**	**n**	**38.54**	**12.00**	**27.00**	**14.05**	**24.49**	**34,000**	**<250**	**<250**	**<250**	**<250**	**36,000**	**0.6**	**6.3**
MW-8	02/05/2004	P	m	38.91	18.00	38.00	15.61	23.30	3,600	<25	<25	<25	<25	1,900	6.9	6.8
	04/05/2004	P		38.91	18.00	38.00	15.64	23.27	1,900	<10	<10	<10	<10	1,200	3.2	6.7
	07/13/2004	P		38.91	18.00	38.00	17.22	21.69	<1,000	<10	<10	<10	<10	760	1.6	6.7
	11/04/2004	P		38.91	18.00	38.00	17.19	21.72	960	<5.0	<5.0	<5.0	<5.0	820	1.8	6.7
	01/20/2005	**P**		**38.91**	**18.00**	**38.00**	**15.25**	**23.66**	**<2,500**	**<25**	**<25**	**<25**	**<25**	**1,400**	**1.5**	**6.4**

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2111
1156 Davis St, San Leandro, CA

ABBREVIATIONS:
-- = Not analyzed/applicable/measured/available
< = Not detected at or above laboratory reporting limit
DO = Dissolved oxygen
DTW = Depth to water in feet below ground surface
ft bgs = feet below ground surface
ft MSL = feet above mean sea level
GRO = Gasoline Range Organics, range C4-C12
GWE = Groundwater elevation measured in feet above mean sea level
mg/L = Milligrams per liter
MTBE = Methyl tert butyl ether
NP = Not Purged
P = Purge
TOC = Top of casing measured in feet above mean sea level
TPH-g = Total petroleum hydrocarbons as gasoline
ug/L = Micrograms per liter

FOOTNOTES:
a = Product sheen noted
b = Well was sampled after batch extraction event.
c = Chromatogram Pattern: Gasoline C6-C10 for GRO/TPH-g.
d = Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel for GRO/TPH-g.
e = Discrete peak @C6-C7 for GRO/TPH-g.
f = This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
g = Well not sampled due to the detection of free product.
h = Groundwater elevation adjusted for free product: (thickness of free product x 0.8) + measured groundwater elevation
j = The closing calibration was outside acceptance limits by 1%. This should be considered in evaluating the result. The average % difference for all analytes met the 15% requirement and the QC suggests that calibration linearity is not a factor.
k = The closing calibration was outside acceptance limits by 6%. This should be considered in evaluating the result. The average % difference for all analytes met the 15% requirement and the QC suggests that calibration linearity is not a factor.
l = This analyte was not confirmed using a secondary column in accordance to client contract.
m = TOC elevations re-surveyed to NAVD '88 on February 23, 2004.
n = Hydrocarbon result partly due to indiv. peak(s) in quant. range.
o = Light to moderate sheen

NOTES:
Beginning with the second quarter 2003 sampling event (04/07/03), TPH-g, BTEX, and MTBE analyzed by EPA method 8260B. Prior to 04/07/03, TPH-g was analyzed by EPA method 8015 modified and MTBE was analyzed by EPA methods 8020/ 8260B.

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. Total petroleum hydrocarbons as gasoline (TPHg) has been changed to gasoline range organics (GRO). The resulting data may be impacted by the potential of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported.

Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12.

Values for dissolved oxygen (DO) and pH were obtained through field measurements.

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

Table 2

Fuel Additives Analytical Data

ARCO Service Station #2111
1156 Davis St, San Leandro, CA

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)	Footnotes/ Comments
MW-1	4/7/2003	<100	<20	1,100	<0.50	<0.50	<0.50	--	--	
	7/9/2003	<5,000	<1,000	690	<25	<25	<25	--	--	
	02/05/2004	<5,000	<1,000	1,100	<25	<25	32	<25	<25	
	04/05/2004	<5,000	<1,000	1,700	<25	<25	38	<25	<25	a
	07/13/2004	<2,000	780	730	<10	<10	19	<10	<10	a
	11/04/2004	<1,000	<200	380	<5.0	<5.0	12	<5.0	<5.0	
	01/20/2005	**<1,000**	**<200**	**570**	**<5.0**	**<5.0**	**17**	**<5.0**	**<5.0**	**a**
MW-2	04/05/2004	<1,000	<200	750	<5.0	<5.0	<5.0	<5.0	<5.0	
	07/13/2004	<10,000	12,000	5,800	<50	<50	<50	<50	<50	a
	01/20/2005	**<10,000**	**<2,000**	**7,000**	**<50**	**<50**	**<50**	**<50**	**<50**	**a**
MW-3	4/7/2003	<100	<20	75	<0.50	<0.50	6.5	--	--	
	7/9/2003	<100	<20	52	<0.50	<0.50	4.2	--	--	
	02/05/2004	<100	<20	37	<0.50	<0.50	3.1	<0.50	<0.50	
	04/05/2004	<100	<20	53	<0.50	<0.50	3.7	<0.50	<0.50	a
	07/13/2004	<100	44	35	<0.50	<0.50	3.2	<0.50	<0.50	
	11/04/2004	<100	<20	25	<0.50	<0.50	2.2	<0.50	<0.50	
	01/20/2005	**<100**	**<20**	**27**	**<0.50**	**<0.50**	**2.6**	**<0.50**	**<0.50**	
MW-4	4/7/2003	<100	<20	24	<0.50	<0.50	7.3	--	--	
	7/9/2003	<100	<20	34	<0.50	<0.50	9.8	--	--	
	02/05/2004	<100	<20	22	<0.50	<0.50	6.2	<0.50	<0.50	
	04/05/2004	<100	<20	27	<0.50	<0.50	7.2	<0.50	<0.50	a
	07/13/2004	<100	26	27	<0.50	<0.50	7.4	<0.50	<0.50	a
	11/04/2004	<100	<20	19	<0.50	<0.50	5.1	<0.50	<0.50	
	01/20/2005	**<100**	**<20**	**18**	**<0.50**	**<0.50**	**5.2**	**<0.50**	**<0.50**	
MW-5	4/7/2003	<20,000	<4,000	3,700	<100	<100	<100	--	--	
	7/9/2003	<10,000	<2,000	6,500	<50	<50	<50	--	--	
	02/05/2004	<10,000	<2,000	7,900	<50	<50	<50	<50	<50	a
	04/05/2004	<5,000	<1,000	2,000	<25	<25	<25	<25	<25	a
	07/13/2004	<10,000	3,200	4,000	<50	<50	<50	<50	<50	a
	11/04/2004	<10,000	<2,000	6,300	<50	<50	<50	<50	<50	
	01/20/2005	**<10,000**	**<2,000**	**6,900**	**<50**	**<50**	**<50**	**<50**	**<50**	**a**
MW-6	4/7/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	

Table 2

Fuel Additives Analytical Data

ARCO Service Station #2111
1156 Davis St, San Leandro, CA

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)	Footnotes/ Comments
MW-6	7/9/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	07/13/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
MW-7	4/7/2003	<5,000	<1,000	710	<25	<25	<25	--	--	
	7/9/2003	<100,000	<20,000	36,000	<500	<500	<500	--	--	
	02/05/2004	<50,000	<10,000	34,000	<250	<250	<250	<250	<250	
	04/05/2004	<50,000	<10,000	37,000	<250	<250	<250	<250	<250	
	07/13/2004	<200,000	<40,000	56,000	<1,000	<1,000	1,300	<1,000	<1,000	
	11/04/2004	<100,000	<20,000	71,000	<500	<500	<500	<500	<500	
	01/20/2005	**<50,000**	**<10,000**	**36,000**	**<250**	**<250**	**<250**	**<250**	**<250**	**a**
MW-8	02/05/2004	<5,000	<1,000	1,900	<25	<25	<25	<25	<25	
	04/05/2004	<2,000	<400	1,200	<10	<10	12	<10	<10	a
	07/13/2004	<2,000	770	760	<10	<10	<10	<10	<10	a
	11/04/2004	<1,000	<200	820	<5.0	<5.0	9.6	<5.0	<5.0	
	01/20/2005	**<5,000**	**<1,000**	**1,400**	**<25**	**<25**	**<25**	**<25**	**<25**	**a**

Table 2

Fuel Additives Analytical Data

ARCO Service Station #2111
1156 Davis St, San Leandro, CA

ABBREVIATIONS:
-- = Not analyzed/applicable/measured/available
< = Not detected at or above the laboratory reporting limit.
1,2-DCA = 1,2-Dichloroethane
DIPE = Di-isopropyl ether
EDB = 1,2-Dibromoethane
ETBE = Ethyl tert-butyl ether
MTBE = Methyl tert-butyl ether
TAME = tert-Amyl methyl ether
TBA = tert-Butyl alcohol
ug/L = Micrograms per Liter

FOOTNOTES:
a = The continuing calibration verification for ethanol was outside of client contractual acceptance limits. However, it was within method aceptance limits. The data should still be useful for its intended purpose.

NOTES:
All volatile organic compounds (Ethanol, TBA, MTBE, DIPE, ETBE, and TAME) analyzed using EPA Method 8260B.

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

Table 3

Groundwater Gradient Data

ARCO Service Station #2111
1156 Davis St, San Leandro, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
7/20/2000	West-Northwest	0.006
9/19/2000	West-Northwest	0.004
12/21/2000	West-Northwest	0.004
3/13/2001	West-Northwest	0.005
5/30/2001	West-Northwest	0.004
9/18/2001	West-Northwest	0.003
12/28/2001	West-Northwest	0.003
3/14/2002	West	0.004
4/23/2002	West	0.006
7/17/2002	West	0.003
10/9/2002	West	0.002
1/13/2003	Southwest	0.0043
4/7/2003	West-Northwest	0.009-0.011
7/9/2003	West-Northwest	0.004
10/1/2003	West	0.002
2/5/2004	West	0.004
4/5/2004	West-Southwest	0.004
7/13/2004	West-Southwest	0.003
11/4/2004	West	0.003
1/20/2005	**West**	**0.009**

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

Table 4
Approximate Cumulative Floating Product Recovered
(1999 - present)

ARCO Service Station #2111
1156 Davis Street, San Leandro California

Well Designation	Product Recovery Field Date	Floating Product Thickness (feet)	Floating Product Recovered (gallons)
MW-2	06/28/99	0.45	0.30
MW-2	06/30/99	0.015	0.01
MW-2	07/07/99	0.06	0.04
MW-2	07/23/99	0.008	0.01
MW-2	08/25/99	0.02	0.01
MW-2	09/21/99	0.01	0.01
MW-2	11/10/99	ND	0.00
MW-2	02/09/00	ND	0.00
MW-2	04/23/02	ND	0.00
MW-2	07/17/02	Sheen	0.00
MW-2	10/9/2002 (1)	NA	0.00
MW-2	01/13/03	0.26	0.13
MW-2	02/14/03	ND	0.00
MW-2	03/24/03	ND	0.00
MW-2	04/07/03	0.05	0.00
MW-2	05/23/03	ND	0.00
MW-2	06/24/03	0.03	0.01
MW-2	07/09/03	0.07	0.03
MW-2	07/31/03	0.05	0.03
MW-2	09/04/03	0.02	0.01
MW-2	10/01/03	0.07	0.02
MW-2	11/12/03	0.59	0.36
MW-2	12/11/03	0.05	0.07
MW-2	02/05/04	0.13	0.02
MW-2	02/16/04	0.02	0.01
MW-2	03/11/04	ND	0.00
MW-2	03/30/04	ND	0.00
MW-2	04/05/04	ND	0.00
MW-2	07/13/04	ND	0.00
MW-2	08/31/04	ND	0.00
MW-2	09/07/04	ND	0.00
MW-2	11/04/04	0.22	0.14
MW-2	11/29/04	0.02	0.05
MW-2	12/15/04	0.24	0.16
MW-2	**01/20/05**	**ND**	**0.00**
MW-2	**02/04/05**	**Sheen**	**0.00**
MW-2	**03/23/05**	**Sheen**	**0.00**
Approximate Cumulative Floating Product:			**1.44**

FOOTNOTES:
1) Free product encountered, but unable to gauge.

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 # 050120-3A1 Date 1/20/05 Client #2111

Site 1156 Davis, San Leandro

	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	
2.5'	MW-1	4					15.50	26.22	TOC	
SPH 12'	MW-2	4		No SPH Detected			13.71	—		
11.9'	MW-3	4					15.07	26.66		
10'	MW-4	4					13.72	21.66		
9.4'	MW-5	2					13.51	23.81		
~~10~~ 9	MW-6	2					12.57	25.00		
12'	MW-7	4					14.05	27.19		
	MW-8	2					15.25	39.75	↓	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050120-BA1	Station # 2111
Sampler: Brian Alcorn	Date: 1/20/05
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 26.22	Depth to Water: 15.50
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 / (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.

No Purge @ 12.5'

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

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
0905	62.4	6.0	688	—	clear

Did well dewater? Yes No			Gallons actually evacuated: —	
Sampling Time: 0905			Sampling Date: 1/20/05	
Sample I.D.: MW-1			Laboratory: Pace (Sequoia) Other____	
Analyzed for: GRO BTEX MTBE DRO			Other:	
D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge):	0.6 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050120-BA1	Station # 2111
Sampler: Brian Alcorn	Date: 1/20/05
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: —	Depth to Water: 13.71
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 / (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.

✓ SPH Bail No Purge @ 12'

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

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1015	61.8	6.2	638	—	clear, light to mod. sheen, strong odor
	No SPH Detected				

Did well dewater? Yes No		Gallons actually evacuated: —	
Sampling Time: 1015		Sampling Date: 1/20/05	
Sample I.D.: MW-2		Laboratory: Pace (Sequoia) Other _____	
Analyzed for: GRO BTEX MTBE DRO		Other:	
D.O. (if req'd):	Pre-purge: ___ mg/L	Post-purge: 0.7 mg/L	
O.R.P. (if req'd):	Pre-purge: ___ mV	Post-purge: ___ mV	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050120-BA1	Station # 2611
Sampler: ~~Jon~~ Brian Alcom	Date: 1/20/05
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 26.66	Depth to Water: 15.07
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 / (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.

No Purge @ 11.9'

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

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
0855	63.1	6.1	926	—	clear

Did well dewater? Yes No		Gallons actually evacuated: —		
Sampling Time: 0855		Sampling Date: 1/20/05		
Sample I.D.: MW-3		Laboratory: Pace (Sequoia) Other____		
Analyzed for: GRO BTEX MTBE DRO		Other:		
D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge): 0.6	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050120-3A1	Station # 2111
Sampler: Brian Alcorn	Date: 1/20/05
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 21.66	Depth to Water: 13.72
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 / (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.

No Purge @ 10'

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

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
0920	63.0	6.1	716	—	clear

Did well dewater? Yes / No		Gallons actually evacuated: —		
Sampling Time: 0920		Sampling Date: 1/20/05		
Sample I.D.: MW-4		Laboratory: Pace (Sequoia) Other_____		
Analyzed for: GRO BTEX MTBE DRO		Other:		
D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge)	0.6 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050120-BA1	Station # 2111
Sampler: Brian Alcorn	Date: 1/20/05
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 23.81	Depth to Water: 13.51
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.

No Purge @ 9.4'

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

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
0955	60.9	6.5	657	—	clear, mild odor

Did well dewater? Yes No — Gallons actually evacuated: —

Sampling Time: 0955 — Sampling Date: 1/20/05

Sample I.D.: MW-5 — Laboratory: Pace (Sequoia) Other_____

Analyzed for: GRO BTEX MTBE DRO — Other:

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge):	0.7 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050120-BA1	Station # 2111
Sampler: Brian Alcorn	Date: 1/20/05
Well I.D.: MW-7	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 27.19	Depth to Water: 14.05
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / 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.

No Purge @ 12'

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

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
0940	60.6	6.3	882	—	clear, debris, odor

Did well dewater? Yes No — Gallons actually evacuated: —

Sampling Time: 0940 — Sampling Date: 1/20/05

Sample I.D.: MW-7 — Laboratory: Pace (Sequoia) Other ___

Analyzed for: GRO BTEX MTBE DRO — Other:

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge):	0.6 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050120-3A1	Station # 2111
Sampler: Brian Alcorn	Date: 1/20/05
Well I.D.: MW-8	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 39.75	Depth to Water: 15.25
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 / (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.

4.0 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 12.0 Gals. (Calculated Volume)

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1034	63.1	6.4	619	4.0	gray
1040	64.1	6.4	614	8.0	"
1045	63.6	6.4	618	12.0	"

Did well dewater? Yes (No) Gallons actually evacuated: 12.0

Sampling Time: 1048 Sampling Date: 1/20/05

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

Analyzed for: GRO BTEX MTBE DRO Other:

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

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:

2111

Station #

1156 Davis, San Leandro

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

added equip. rinse water_____

any other adjustments_____

TOTAL GALS. RECOVERED 12

loaded onto BTS vehicle # 58

BTS event #	time	date
050120-BA1	1100	1/20/05

signature

* *

REC'D AT	time	date
		/ /

unloaded by signature_____

WELL GAUGING DATA

Project # 050204-044 Date 2/4/05 Client Arco 2111

Site 1156 Davis St. San Leandro, CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
* MW-2	4	S/O				14.00	-	TOC	
* checked for SPH w/ interface probe									

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050204-DAM	Station # Arco 2111
Sampler: DA	Date: 2/4/05
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth:	Depth to Water: 14.00
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~~ 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 Bail SPH (Specified Volumes) = _____ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
			No SPH detected		

Did well dewater? ~~Yes~~ No		Gallons actually evacuated:	
Sampling Time:		Sampling Date:	
Sample I.D.:		Laboratory: Pace Sequoia Other_____	
Analyzed for: GRO BTEX MTBE DRO		Other:	
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge: mV

WELL GAUGING DATA

Project # 050323-DW-4 Date 3-23-05 Client Arco 2111

Site 1156 Davis St. San Leandro

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-2	4	Sheen/No	Sht detected			12.61	—	TOC	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050323-DW-4	Station # 2111
Sampler: DW	Date: 3-23-05
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: —	Depth to Water: 12.61
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 / 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	check SPH	=	_____ Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
		No	SPH detected		

Did well dewater? Yes No		Gallons actually evacuated:	
Sampling Time:		Sampling Date:	
Sample I.D.:		Laboratory: Pace Sequoia Other_____	
Analyzed for: GRO BTEX MTBE DRO		Other:	
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge: mV

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 mentioned in the chain of custody using standard EPA methods. The methods of analysis for the groundwater samples are documented in the certified analytical report. The certified analytical reports and chain-of-custody record are presented in this attachment. The analytical data provided by the laboratory approved by RM 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

2 February, 2005

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

RE: ARCO #2111, San Leandro, CA
Work Order: MOA0588

Enclosed are the results of analyses for samples received by the laboratory on 01/20/05 16:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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Morgan Hill, CA 95037
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www.sequoialabs.com

URS Corporation [Arco]	Project:ARCO #2111, San Leandro, CA	MOA0588
1333 Broadway, Suite 800	Project Number:G09JZ-0169	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	02/02/05 17:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MOA0588-01	Water	01/20/05 09:05	01/20/05 16:25
MW-2	MOA0588-02	Water	01/20/05 10:15	01/20/05 16:25
MW-3	MOA0588-03	Water	01/20/05 08:55	01/20/05 16:25
MW-4	MOA0588-04	Water	01/20/05 09:20	01/20/05 16:25
MW-7	MOA0588-05	Water	01/20/05 09:40	01/20/05 16:25
MW-8	MOA0588-06	Water	01/20/05 10:48	01/20/05 16:25
TB-2111-01202005	MOA0588-07	Water	01/20/05 10:50	01/20/05 16:25
MW-5	MOA0588-08	Water	01/20/05 09:55	01/20/05 16:25

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies.

These samples were received with no custody seals.

Sequoia Analytical

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

URS Corporation [Arco]	Project:ARCO #2111, San Leandro, CA	MOA0588
1333 Broadway, Suite 800	Project Number:G09JZ-0169	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	02/02/05 17:23

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MOA0588-01) Water Sampled: 01/20/05 09:05 Received: 01/20/05 16:25									
tert-Amyl methyl ether	**17**	5.0	ug/l	10	5A31018	01/31/05	01/31/05	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**570**	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**670**	500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97 %*	*78-129*		"	"	"	"	
MW-2 (MOA0588-02) Water Sampled: 01/20/05 10:15 Received: 01/20/05 16:25									
tert-Amyl methyl ether	ND	50	ug/l	100	5A31018	01/31/05	01/31/05	EPA 8260B	
Benzene	**450**	50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	2000	"	"	"	"	"	"	
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
Ethanol	ND	10000	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Ethylbenzene	**1300**	50	"	"	"	"	"	"	
Methyl tert-butyl ether	**7000**	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Xylenes (total)	**3300**	50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**30000**	5000	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95 %*	*78-129*		"	"	"	"	

Sequoia Analytical

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Morgan Hill, CA 95037
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www.sequoialabs.com

URS Corporation [Arco]	Project:ARCO #2111, San Leandro, CA	MOA0588
1333 Broadway, Suite 800	Project Number:G09JZ-0169	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	02/02/05 17:23

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MOA0588-03) Water Sampled: 01/20/05 08:55 Received: 01/20/05 16:25									
tert-Amyl methyl ether	**2.6**	0.50	ug/l	1	5B01001	02/01/05	02/02/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**27**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**160**	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98 %*	*78-129*		"	"	"	"	
MW-4 (MOA0588-04) Water Sampled: 01/20/05 09:20 Received: 01/20/05 16:25									
tert-Amyl methyl ether	**5.2**	0.50	ug/l	1	5B01001	02/01/05	02/02/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**18**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**65**	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*93 %*	*78-129*		"	"	"	"	

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1333 Broadway, Suite 800	Project Number:G09JZ-0169	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	02/02/05 17:23

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (MOA0588-05) Water Sampled: 01/20/05 09:40 Received: 01/20/05 16:25									
tert-Amyl methyl ether	ND	250	ug/l	500	5A31018	01/31/05	01/31/05	EPA 8260B	
Benzene	ND	250	"	"	"	"	"	"	
tert-Butyl alcohol	ND	10000	"	"	"	"	"	"	
Di-isopropyl ether	ND	250	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
Ethanol	ND	50000	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	250	"	"	"	"	"	"	
Ethylbenzene	ND	250	"	"	"	"	"	"	
Methyl tert-butyl ether	**36000**	250	"	"	"	"	"	"	
Toluene	ND	250	"	"	"	"	"	"	
Xylenes (total)	ND	250	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**34000**	25000	"	"	"	"	"	"	PV
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*78-129*		"	"	"	"	
MW-8 (MOA0588-06) Water Sampled: 01/20/05 10:48 Received: 01/20/05 16:25									
tert-Amyl methyl ether	ND	25	ug/l	50	5A31018	01/31/05	01/31/05	EPA 8260B	
Benzene	ND	25	"	"	"	"	"	"	
tert-Butyl alcohol	ND	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
Ethanol	ND	5000	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Methyl tert-butyl ether	**1400**	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	2500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99 %*	*78-129*		"	"	"	"	

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1333 Broadway, Suite 800	Project Number:G09JZ-0169	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	02/02/05 17:23

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MOA0588-08) Water Sampled: 01/20/05 09:55 Received: 01/20/05 16:25									
tert-Amyl methyl ether	ND	50	ug/l	100	5A31018	01/31/05	01/31/05	EPA 8260B	
Benzene	ND	50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	2000	"	"	"	"	"	"	
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
Ethanol	ND	10000	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Methyl tert-butyl ether	**6900**	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Xylenes (total)	ND	50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**6500**	5000	"	"	"	"	"	"	PV
Surrogate: 1,2-Dichloroethane-d4		*98 %*	*78-129*		"	"	"	"	

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1333 Broadway, Suite 800	Project Number:G09JZ-0169	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	02/02/05 17:23

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 5A31018 - EPA 5030B P/T / EPA 8260B										
Blank (5A31018-BLK1)				Prepared & Analyzed: 01/31/05						
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	5.0	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							IC
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*5.00*		"	*5.00*		*100*	*78-129*			
Laboratory Control Sample (5A31018-BS1)				Prepared & Analyzed: 01/31/05						
tert-Amyl methyl ether	11.4	0.50	ug/l	10.0		114	56-140			
Benzene	10.3	0.50	"	10.0		103	78-124			
tert-Butyl alcohol	51.2	20	"	50.0		102	0-206			
Di-isopropyl ether	10.8	0.50	"	10.0		108	76-130			
1,2-Dibromoethane (EDB)	11.4	0.50	"	10.0		114	77-132			
1,2-Dichloroethane	11.4	0.50	"	10.0		114	77-136			
Ethanol	118	100	"	200		59	31-186			IC
Ethyl tert-butyl ether	11.1	0.50	"	10.0		111	61-141			
Ethylbenzene	11.0	0.50	"	10.0		110	84-117			
Methyl tert-butyl ether	11.8	0.50	"	10.0		118	63-137			
Toluene	10.0	0.50	"	10.0		100	78-129			
Xylenes (total)	32.1	0.50	"	30.0		107	83-125			
Surrogate: 1,2-Dichloroethane-d4	*4.94*		"	*5.00*		*99*	*78-129*			

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1333 Broadway, Suite 800	Project Number:G09JZ-0169	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	02/02/05 17:23

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 5A31018 - EPA 5030B P/T / EPA 8260B										
Laboratory Control Sample (5A31018-BS2)				Prepared & Analyzed: 01/31/05						
Benzene	5.07	0.50	ug/l	6.08		83	78-124			
Ethylbenzene	8.82	0.50	"	7.84		112	84-117			
Methyl tert-butyl ether	8.92	0.50	"	9.60		93	63-137			
Toluene	32.3	0.50	"	32.9		98	78-129			
Xylenes (total)	42.4	0.50	"	38.5		110	83-125			
Gasoline Range Organics (C4-C12)	407	50	"	440		92	70-124			
Surrogate: 1,2-Dichloroethane-d4	*4.80*		"	*5.00*		*96*	*78-129*			
Laboratory Control Sample Dup (5A31018-BSD1)				Prepared & Analyzed: 01/31/05						
tert-Amyl methyl ether	10.1	0.50	ug/l	10.0		101	56-140	12	12	
Benzene	9.76	0.50	"	10.0		98	78-124	5	12	
tert-Butyl alcohol	50.1	20	"	50.0		100	0-206	2	22	
Di-isopropyl ether	10.1	0.50	"	10.0		101	76-130	7	9	
1,2-Dibromoethane (EDB)	10.5	0.50	"	10.0		105	77-132	8	9	
1,2-Dichloroethane	10.2	0.50	"	10.0		102	77-136	11	13	
Ethanol	188	100	"	200		94	31-186	46	37	RB
Ethyl tert-butyl ether	10.1	0.50	"	10.0		101	61-141	9	9	
Ethylbenzene	10.4	0.50	"	10.0		104	84-117	6	10	
Methyl tert-butyl ether	10.4	0.50	"	10.0		104	63-137	13	13	
Toluene	9.46	0.50	"	10.0		95	78-129	6	10	
Xylenes (total)	30.8	0.50	"	30.0		103	83-125	4	11	
Surrogate: 1,2-Dichloroethane-d4	*4.30*		"	*5.00*		*86*	*78-129*			
Matrix Spike (5A31018-MS1)	**Source: MOA0588-02**			Prepared & Analyzed: 01/31/05						
Benzene	914	50	ug/l	608	450	76	78-124			LN
Ethylbenzene	2060	50	"	784	1300	97	84-117			
Methyl tert-butyl ether	6860	50	"	960	7000	NR	63-137			BB,LN
Toluene	3150	50	"	3290	26	95	78-129			
Xylenes (total)	7200	50	"	3850	3300	101	83-125			
Gasoline Range Organics (C4-C12)	67200	5000	"	44000	30000	85	70-124			
Surrogate: 1,2-Dichloroethane-d4	*4.29*		"	*5.00*		*86*	*78-129*			

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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 5A31018 - EPA 5030B P/T / EPA 8260B										
Matrix Spike Dup (5A31018-MSD1)	**Source: MOA0588-02**			Prepared & Analyzed: 01/31/05						
Benzene	948	50	ug/l	608	450	82	78-124	4	12	
Ethylbenzene	2160	50	"	784	1300	110	84-117	5	10	
Methyl tert-butyl ether	7450	50	"	960	7000	47	63-137	8	13	BB,LN
Toluene	3290	50	"	3290	26	99	78-129	4	10	
Xylenes (total)	7390	50	"	3850	3300	106	83-125	3	11	
Gasoline Range Organics (C4-C12)	69400	5000	"	44000	30000	90	70-124	3	20	
Surrogate: 1,2-Dichloroethane-d4	*4.94*		"	*5.00*		*99*	*78-129*			
Batch 5B01001 - EPA 5030B P/T / EPA 8260B										
Blank (5B01001-BLK1)				Prepared & Analyzed: 02/01/05						
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*4.93*		"	*5.00*		*99*	*78-129*			
Laboratory Control Sample (5B01001-BS1)				Prepared & Analyzed: 02/01/05						
tert-Amyl methyl ether	10.1	0.50	ug/l	10.0		101	56-140			
Benzene	9.59	0.50	"	10.0		96	78-124			
tert-Butyl alcohol	48.0	20	"	50.0		96	0-206			
Di-isopropyl ether	9.81	0.50	"	10.0		98	76-130			
1,2-Dibromoethane (EDB)	11.0	0.50	"	10.0		110	77-132			
1,2-Dichloroethane	10.7	0.50	"	10.0		107	77-136			
Ethanol	188	100	"	200		94	31-186			
Ethyl tert-butyl ether	10.2	0.50	"	10.0		102	61-141			
Ethylbenzene	10.1	0.50	"	10.0		101	84-117			
Methyl tert-butyl ether	10.4	0.50	"	10.0		104	63-137			

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Oakland CA, 94612	Project Manager:Scott Robinson	02/02/05 17:23

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 5B01001 - EPA 5030B P/T / EPA 8260B										
Laboratory Control Sample (5B01001-BS1)				Prepared & Analyzed: 02/01/05						
Toluene	9.63	0.50	ug/l	10.0		96	78-129			
Xylenes (total)	30.0	0.50	"	30.0		100	83-125			
Surrogate: 1,2-Dichloroethane-d4	*4.77*		"	*5.00*		*95*	*78-129*			
Laboratory Control Sample (5B01001-BS2)				Prepared & Analyzed: 02/01/05						
Benzene	5.01	0.50	ug/l	6.08		82	78-124			
Ethylbenzene	8.75	0.50	"	7.84		112	84-117			
Methyl tert-butyl ether	7.96	0.50	"	9.60		83	63-137			
Toluene	33.9	0.50	"	32.9		103	78-129			
Xylenes (total)	42.7	0.50	"	38.5		111	83-125			
Gasoline Range Organics (C4-C12)	402	50	"	440		91	70-124			
Surrogate: 1,2-Dichloroethane-d4	*4.91*		"	*5.00*		*98*	*78-129*			
Laboratory Control Sample Dup (5B01001-BSD1)				Prepared & Analyzed: 02/01/05						
tert-Amyl methyl ether	10.8	0.50	ug/l	10.0		108	56-140	7	12	
Benzene	10.3	0.50	"	10.0		103	78-124	7	12	
tert-Butyl alcohol	50.7	20	"	50.0		101	0-206	5	22	
Di-isopropyl ether	10.0	0.50	"	10.0		100	76-130	2	9	
1,2-Dibromoethane (EDB)	12.2	0.50	"	10.0		122	77-132	10	9	BA
1,2-Dichloroethane	11.5	0.50	"	10.0		115	77-136	7	13	
Ethanol	177	100	"	200		88	31-186	6	37	
Ethyl tert-butyl ether	10.4	0.50	"	10.0		104	61-141	2	9	
Ethylbenzene	10.7	0.50	"	10.0		107	84-117	6	10	
Methyl tert-butyl ether	11.1	0.50	"	10.0		111	63-137	7	13	
Toluene	10.3	0.50	"	10.0		103	78-129	7	10	
Xylenes (total)	31.5	0.50	"	30.0		105	83-125	5	11	
Surrogate: 1,2-Dichloroethane-d4	*4.86*		"	*5.00*		*97*	*78-129*			

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1333 Broadway, Suite 800	Project Number:G09JZ-0169	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	02/02/05 17:23

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 5B01001 - EPA 5030B P/T / EPA 8260B										
Matrix Spike (5B01001-MS1)	**Source: MOA0611-12**			Prepared & Analyzed: 02/01/05						
Benzene	677	50	ug/l	608	160	85	78-124			
Ethylbenzene	2780	50	"	784	1800	125	84-117			LM
Methyl tert-butyl ether	767	50	"	960	ND	80	63-137			
Toluene	8550	50	"	3290	5100	105	78-129			
Xylenes (total)	15100	50	"	3850	11000	106	83-125			
Gasoline Range Organics (C4-C12)	96800	5000	"	44000	56000	93	70-124			
Surrogate: 1,2-Dichloroethane-d4	*4.54*		*"*	*5.00*		*91*	*78-129*			
Matrix Spike Dup (5B01001-MSD1)	**Source: MOA0611-12**			Prepared & Analyzed: 02/01/05						
Benzene	633	50	ug/l	608	160	78	78-124	7	12	
Ethylbenzene	2610	50	"	784	1800	103	84-117	6	10	
Methyl tert-butyl ether	836	50	"	960	ND	87	63-137	9	13	
Toluene	8000	50	"	3290	5100	88	78-129	7	10	
Xylenes (total)	14500	50	"	3850	11000	91	83-125	4	11	
Gasoline Range Organics (C4-C12)	92100	5000	"	44000	56000	82	70-124	5	20	
Surrogate: 1,2-Dichloroethane-d4	*4.85*		*"*	*5.00*		*97*	*78-129*			

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1333 Broadway, Suite 800	Project Number:G09JZ-0169	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	02/02/05 17:23

Notes and Definitions

RB	RPD exceeded method control limit; % recoveries within limits.
PV	Hydrocarbon result partly due to individ. peak(s) in quant. range
LN	MS and/or MSD below acceptance limits. See Blank Spike(LCS).
LM	MS and/or MSD above acceptance limits. See Blank Spike(LCS).
IC	Calib. verif. is within method limits but outside contract limits
BB,LN	Sample > 4x spike concentration.
BA	Relative percent difference out of control
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

ATTACHMENT C

ERROR CHECK REPORTS AND EDF/GEOWELL SUBMITTAL CONFIRMATIONS

Electronic Submittal Information

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SUCCESSFUL GEO_WELL CHECK - NO ERRORS

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USER NAME:	URSCORP-OAKLAND
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USER NAME:	URSCORP-OAKLAND
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GLOBAL ID:	T0600101764
FILE UPLOADED:	ARCO#2111-EDF-MOA0588.zip

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ARCO # 02111
1156 DAVIS ST
SAN
LEANDRO, CA 94577

Regional Board - Case #: 01-1903
SAN FRANCISCO BAY RWQCB (REGION 2) - **(RDB)**
Local Agency (lead agency) - Case #: 744
ALAMEDA COUNTY LOP - **(AG)**

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	7
# FIELD POINTS WITH DETECTIONS	7
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	6
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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Confirmation Number: 4011555314
Date/Time of Submittal: 2/9/2005 12:55:22 PM
Facility Global ID: T0600101764
Facility Name: ARCO # 02111
Submittal Title: 1Q05 GW Monitoring Report
Submittal Type: GW Monitoring Report

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ARCO # 02111
1156 DAVIS ST
SAN LEANDRO, CA 94577

Regional Board - Case #: 01-1903
SAN FRANCISCO BAY RWQCB (REGION 2) - **(RDB)**
Local Agency (lead agency) - Case #: 744
ALAMEDA COUNTY LOP - **(AG)**

CONF #	TITLE	QUARTER
4011555314	1Q05 GW Monitoring Report	Q1 2005

SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	2/9/2005	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	7
# FIELD POINTS WITH DETECTIONS	7
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	6
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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Facility Name:	**ARCO # 02111**
Global ID:	**T0600101764**
Title:	**1Q 2005 QMR Site 2111**
Document Type:	**Monitoring Report - Quarterly**
Submittal Type:	**GEO_REPORT**
Submittal Date/Time:	**3/30/2005 12:43:36 PM**
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UPLOADING A GEO_REPORT FILE

YOUR DOCUMENT UPLOAD WAS SUCCESSFUL!

Facility Name:	**ARCO # 02111**
Global ID:	**T0600101764**
Title:	**1Q 2005 QMR Site 2111**
Document Type:	**Monitoring Report - Quarterly**
Submittal Type:	**GEO_REPORT**
Submittal Date/Time:	**3/30/2005 12:43:36 PM**
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