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Atlantic Richfield Company
(a BP affiliated company)

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

December 1, 2004

RE: Fourth Quarter 2004 Groundwater Monitoring Report
ARCO Service Station #2162
15135 Hesperian Blvd.
San Leandro, CA
URS Project #38486718

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



December 1, 2004

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

**Re: Fourth Quarter 2004 Groundwater Monitoring Report
ARCO Service Station #2162
15135 Hesperian Boulevard
San Leandro, California
URS Project #38486718**

Dear Mr. Schultz:

On behalf of Atlantic Richfield Company (RM), a BP affiliated company, URS Corporation (URS) is submitting the *Fourth Quarter 2004 Groundwater Monitoring Report* for the ARCO Service Station #2162, located at 15135 Hesperian Boulevard, San Leandro, California.

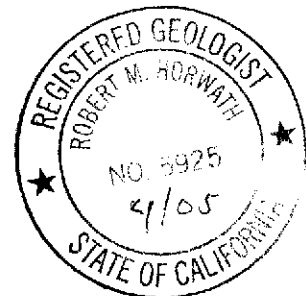
If you have any questions regarding this submission, please call me at (510) 874-3280.

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager

Robert Horwath, R.G.
Portfolio Manager



Enclosure: Third Quarter 2004 Groundwater Monitoring Report

cc: Mr. Paul Supple, Atlantic Richfield Company (RM), copy uploaded to ENFOS
Mr. Mike Bakaldin, City of San Leandro Environmental Services Division, 835 East 14th St., San Leandro, CA 94577
Mr. John Jang, RWQCB, S.F. Bay Region, 1515 Clay St., Ste. 1400, Oakland, CA 94612

R E P O R T

**FOURTH QUARTER 2004
GROUNDWATER MONITORING
REPORT**

**ARCO SERVICE STATION #2162
15135 HESPERIAN BOULEVARD
SAN LEANDRO, CALIFORNIA**

Prepared for
RM

December 1, 2004

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, CA 94612

38486718

Date: December 1, 2004
Quarter: 4Q 04

RM QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 2162 Address: 15135 Hesperian Boulevard, San Leandro, CA
RM Environmental Business Manager: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Consultant Project No.: 38486718
Primary Agency: Alameda County Environmental Health (ACEH)

WORK PERFORMED THIS QUARTER (Fourth – 2004):

1. Performed fourth quarter groundwater monitoring event on October 19, 2004.
2. Prepared and submitted Third Quarter 2004 Groundwater Monitoring Report.
3. Prepared and submitted this Fourth quarter 2004 Groundwater Monitoring Report.

WORK PROPOSED FOR NEXT QUARTER (First – 2005):

1. Perform first quarter 2005 groundwater monitoring event.
2. Prepare and submit First Quarter 2005 Groundwater Monitoring Report.

SITE SUMMARY:

Current Phase of Project: Groundwater monitoring/sampling
Frequency of Groundwater Sampling: Quarterly: MW-3, MW-4
Annually (3rd Quarter): MW-1, MW-2
Frequency of Groundwater Monitoring: Quarterly
Is Free Product (FP) Present On-Site: No
Current Remediation Techniques: Natural Attenuation
Approximate Depth to Groundwater: 8.29 ft (MW-2) to 9.91 ft (MW-4) feet
Groundwater Gradient (direction): Southwest
Groundwater Gradient (magnitude): 0.004 feet per foot

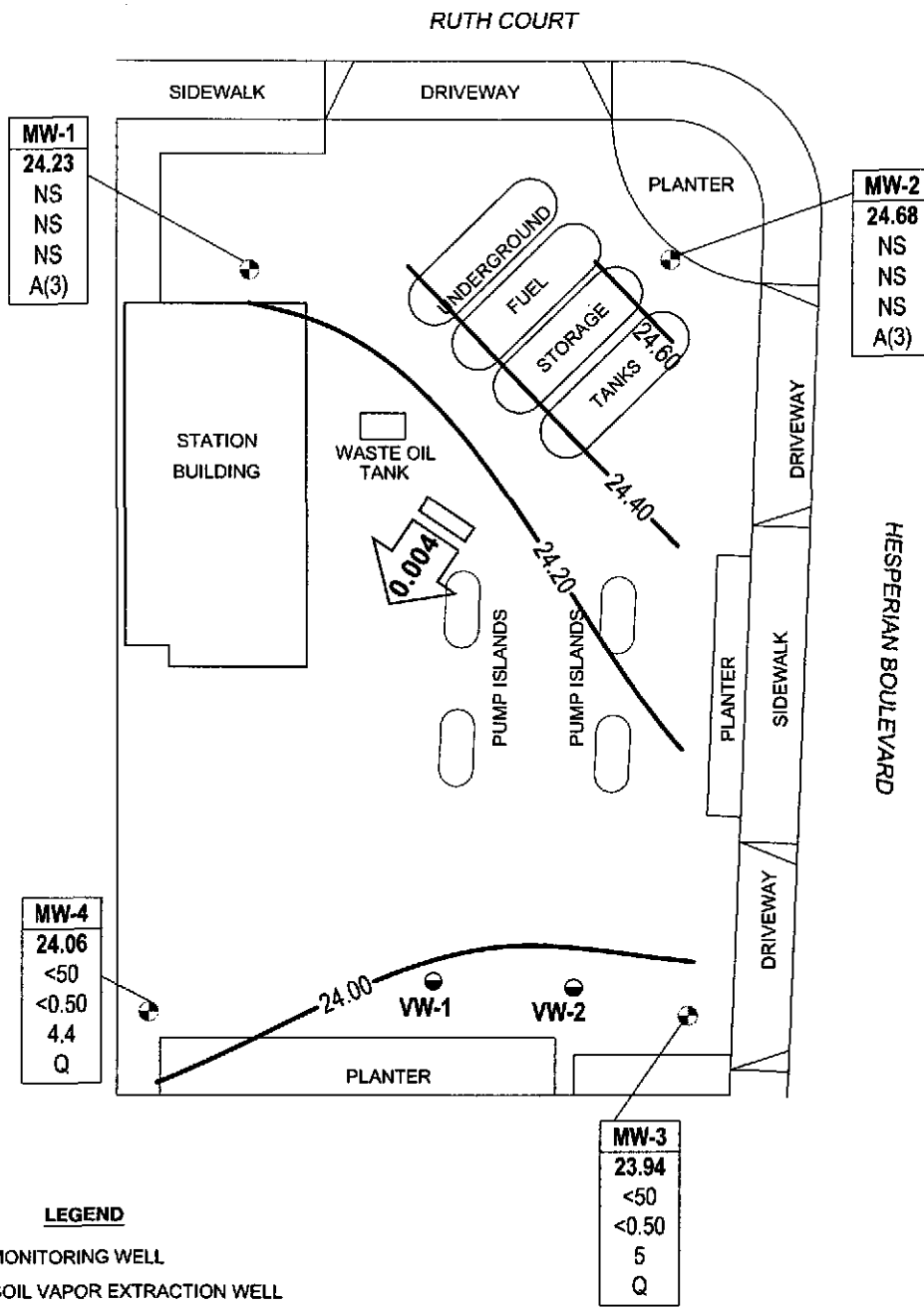
DISCUSSION:

Methyl tert-butyl ether (MTBE) was the only constituent of concern detected at or above the laboratory reporting limits in the two wells sampled this quarter. MTBE was detected at concentrations of 4.4 µg/L (MW-4) and 5.0µg/L (MW-3). No other analytes were detected at or above the laboratory's reporting limits.

A Site Closure Request letter was submitted to ACEH on June 6, 2004.

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – October 19, 2004
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Additive Analytical Data
- Table 3 – Groundwater Flow Direction and Gradient
- Attachment A – Field Procedures and Field Data Sheets
- Attachment B – Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records
- Attachment C – Historical Groundwater Data
- Attachment D – Error Check Reports and EDF/Geowell Submittal Confirmations



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



Project No. 38486718
 ARCO Service Station #2162
 15135 Hesperian Boulevard
 San Leandro, California

**GROUNDWATER ELEVATION CONTOUR
 AND ANALYTICAL SUMMARY MAP**
 Fourth Quarter 2004 (October 19, 2004)

FIGURE
1

Table 1
Groundwater Elevation and Analytical Data
 ARCO Service Station #2162
 15135 Hesperian Blvd., San Leandro, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen	Bottom of Screen	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	6/20/2000	--		31.19	8.00	16.00	8.33	22.86	<50	<0.5	0.8	<0.5	<1.0	<10	--	--
	9/29/2000	--		31.19	8.00	16.00	9.07	22.12	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	12/17/2000	--		31.19	8.00	16.00	8.69	22.50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	3/23/2001	--		31.19	8.00	16.00	8.19	23.00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	6/20/2001	--		31.19	8.00	16.00	8.97	22.22	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	9/22/2001	--		31.19	8.00	16.00	9.56	21.63	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	12/28/2001	--		31.19	8.00	16.00	8.40	22.79	<50	<0.5	<0.5	<0.5	0.63	<2.5	--	--
	3/14/2002	--		31.19	8.00	16.00	8.05	23.14	<50	<0.5	<0.5	<0.5	<0.5	170	--	--
	4/18/2002	--		31.19	8.00	16.00	8.27	22.92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	7/19/2002	NP		31.19	8.00	16.00	8.88	22.31	<50	<0.5	<0.5	<0.5	<0.5	11	1.0	8.2
	10/09/02	NP	a	31.19	8.00	16.00	--	--	--	--	--	--	--	--	--	--
	03/28/03	NP	a, c	31.19	8.00	16.00	--	--	--	--	--	--	--	--	--	--
	4/7/2003	NP		31.19	8.00	16.00	8.28	22.91	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	6.9
	7/9/2003	NP		31.19	8.00	16.00	8.62	22.57	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	7.2
	10/08/2003	--	d, e	31.13	8.00	16.00	9.19	21.94	--	--	--	--	--	--	--	--
	01/13/2004	--		31.13	8.00	16.00	8.35	22.78	--	--	--	--	--	--	--	--
	04/05/2004	--		33.70	8.00	16.00	7.29	26.41	--	--	--	--	--	--	--	--
	07/12/2004	NP		33.70	8.00	16.00	9.00	24.70	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.8	7.0
	10/19/2004	--		33.70	8.00	16.00	9.47	24.23	--	--	--	--	--	--	--	--
MW-2	6/20/2000	--		30.38	8.00	16.00	7.38	23.00	--	--	--	--	--	--	--	--
	9/29/2000	--		30.38	8.00	16.00	8.08	22.30	266	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	12/17/2000	--		30.38	8.00	16.00	7.80	22.58	175	<0.5	<0.5	0.659	<0.5	<2.5	--	--
	3/23/2001	--		30.38	8.00	16.00	7.23	23.15	351	<0.5	<0.5	0.912	<0.5	<2.5	--	--
	6/20/2001	--		30.38	8.00	16.00	7.98	22.40	360	<0.5	<0.5	0.74	<0.5	<2.5	--	--
	9/22/2001	--		30.38	8.00	16.00	8.55	21.83	190	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	12/28/2001	--		30.38	8.00	16.00	7.53	22.85	130	<0.5	0.93	<0.5	0.51	<2.5	--	--
	3/14/2002	--		30.38	8.00	16.00	7.17	23.21	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	4/18/2002	--		30.38	8.00	16.00	7.31	23.07	74	<0.5	<0.5	<0.5	<0.5	--	--	--
	7/19/2002	P		30.38	8.00	16.00	7.93	22.45	<50	<0.5	<0.5	<0.5	<0.5	<2.5	1.1	7.6
	10/9/2002	P		30.38	8.00	16.00	8.55	21.83	<50	<0.5	<0.5	<0.5	<0.5	<2.5	0.7	7.3
	03/28/03	P	c	30.38	8.00	16.00	7.30	23.08	<50	<0.50	0.83	<0.50	<0.50	<0.50	1.48	7.7
	4/7/2003	P		30.38	8.00	16.00	7.36	23.02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	7.0
	7/9/2003	P		30.38	8.00	16.00	7.71	22.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.5	7.6

Table 1
Groundwater Elevation and Analytical Data
 ARCO Service Station #2162
 15135 Hesperian Blvd., San Leandro, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen	Bottom of Screen	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	10/08/2003	--		30.38	8.00	16.00	8.25	22.13	--	--	--	--	--	--	--	--
	01/13/2004	--		30.38	8.00	16.00	7.55	22.83	--	--	--	--	--	--	--	--
	04/05/2004	--		32.97	8.00	16.00	7.29	25.68	--	--	--	--	--	--	--	--
	07/12/2004	NP		32.97	8.00	16.00	8.09	24.88	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	7.2
	10/19/2004	--		32.97	8.00	16.00	8.29	24.68	--	--	--	--	--	--	--	--
MW-3	6/20/2000	--		30.3	8.00	15.00	7.75	22.55	--	--	--	--	--	--	--	--
	9/29/2000	--		30.3	8.00	15.00	8.46	21.84	<50	<0.5	<0.5	<0.5	<0.5	128	--	--
	12/17/2000	--		30.3	8.00	15.00	8.01	22.29	<50	<0.5	<0.5	<0.5	<0.5	46.7	--	--
	3/23/2001	--		30.3	8.00	15.00	7.70	22.60	<50	<0.5	<0.5	<0.5	<0.5	26.8	--	--
	6/20/2001	--		30.3	8.00	15.00	8.23	22.07	<50	<0.5	<0.5	<0.5	<0.5	30	--	--
	9/22/2001	--		30.3	8.00	15.00	8.89	21.41	<50	<0.5	<0.5	<0.5	<0.5	12	--	--
	12/28/2001	--		30.3	8.00	15.00	7.83	22.47	<50	<0.5	<0.5	<0.5	<0.5	6.2	--	--
	3/14/2002	--		30.3	8.00	15.00	7.48	22.82	<50	<0.5	<0.5	<0.5	<0.5	47	--	--
	4/18/2002	--		30.3	8.00	15.00	7.62	22.68	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	7/19/2002	P	b (TPH-g)	30.3	8.00	15.00	8.23	22.07	100	<1.0	<1.0	<1.0	<1.0	330	0.9	7.6
	10/9/2002	P		30.3	8.00	15.00	8.83	21.47	<50	<0.5	<0.5	<0.5	<0.5	61	0.5	7.4
	03/28/03	P	c	30.3	8.00	15.00	7.85	22.45	52	<0.50	1.2	<0.50	<0.50	45	1.42	7.6
	4/7/2003	P		30.3	8.00	15.00	7.71	22.59	56	<0.50	<0.50	<0.50	<0.50	56	1.1	6.8
	7/9/2003	P		30.3	8.00	15.00	8.00	22.30	<500	<5.0	<5.0	<5.0	<5.0	87	1.6	7.4
	10/08/2003	P		30.30	8.00	15.00	8.59	21.71	<50	<0.50	<0.50	<0.50	<0.50	25	0.9	--
	01/15/2004	P		30.30	8.00	15.00	7.90	22.40	<50	<0.50	<0.50	<0.50	<0.50	9.8	2.9	7.3
	04/05/2004	P		32.89	8.00	15.00	7.61	25.28	<50	<0.50	<0.50	<0.50	<0.50	15	1.5	7.0
07/12/2004	P		32.89	8.00	15.00	8.45	24.44	<50	<0.50	<0.50	<0.50	<0.50	7.3	1.6	6.9	
10/19/2004	P		32.89	8.00	15.00	8.95	23.94	<50	<0.50	<0.50	<0.50	<0.50	5.0	0.96	7.1	
MW-4	6/20/2000	--		30.39	10.00	18.00	8.87	21.52	--	--	--	--	--	--	--	--
	9/29/2000	--		30.39	10.00	18.00	9.61	20.78	<50	1.02	<0.5	<0.5	<0.5	12.2	--	--
	12/17/2000	--		30.39	10.00	18.00	9.17	21.22	<50	<0.5	<0.5	<0.5	<0.5	5.81	--	--
	3/23/2001	--		30.39	10.00	18.00	8.70	21.69	<50	<0.5	<0.5	<0.5	<0.5	3.04	--	--
	6/20/2001	--		30.39	10.00	18.00	9.51	20.88	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	9/22/2001	--		30.39	10.00	18.00	10.06	20.33	<50	<0.5	<0.5	<0.5	<0.5	5.2	--	--
	12/28/2001	--		30.39	10.00	18.00	8.86	21.53	<50	<0.5	<0.5	<0.5	<0.5	4.3	--	--
	3/14/2002	--		30.39	10.00	18.00	8.52	21.87	<50	<0.5	<0.5	<0.5	<0.5	5.1	--	--
	4/18/2002	--		30.39	10.00	18.00	8.76	21.63	<50	<0.5	<0.5	<0.5	<0.5	--	--	--

Table 1
Groundwater Elevation and Analytical Data
 ARCO Service Station #2162
 15135 Hesperian Blvd., San Leandro, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen	Bottom of Screen	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	7/19/2002	NP		30.39	10.00	18.00	9.39	21.00	<50	<0.5	<0.5	<0.5	<0.5	30	1.8	7.8
	10/9/2002	NP		30.39	10.00	18.00	10.08	20.31	<50	<0.5	<0.5	<0.5	<0.5	28	1.0	8.0
	03/28/03	NP	c	30.39	10.00	18.00	8.88	21.51	<50	<0.50	1.3	<0.50	<0.50	4.4	0.98	7.2
	4/7/2003	NP		30.39	10.00	18.00	8.78	21.61	<50	<0.50	<0.50	<0.50	<0.50	14	1.1	7.0
	7/9/2003	NP		30.39	10.00	18.00	9.14	21.25	<50	<0.50	<0.50	<0.50	<0.50	1.8	1.6	7.4
	10/08/2003	NP		30.39	10.00	18.00	9.77	20.62	<50	<0.50	<0.50	<0.50	<0.50	3.1	2.6	6.4
	01/15/2004	P		30.39	10.00	18.00	8.68	21.71	<50	1.4	0.84	<0.50	1.5	6.6	2.9	7.1
	04/05/2004	NP		33.97	10.00	18.00	8.77	25.20	<50	<0.50	<0.50	<0.50	<0.50	1.3	1.2	7.0
	07/12/2004	NP		33.97	10.00	18.00	9.46	24.51	<50	<0.50	<0.50	<0.50	<0.50	1.0	2.5	6.6
	10/19/2004	NP		33.97	10.00	18.00	9.91	24.06	<50	<0.50	<0.50	<0.50	<0.50	4.4	1.21	7.9

Table 1

Groundwater Elevation and Analytical Data
ARCO Service Station #2162
15135 Hesperian Blvd., 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 = Well not accessible - car parked over.
b = Hydrocarbon pattern is present in the requested fuel quantitation range but does not represent the pattern of the requested fuel
c =TPH-g, BTEX and MTBE analyzed by EPA method 8260 beginning on 1st Quarter 2003 sampling event (3/28/03)
d = Guaged with stinger in well
e = Well casing lowered 0.06 feet during well repairs on 9/17/2003

NOTES:

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.

Well were surveyed to NAVD'88 datum by URS Corporation on February 23, 2004.

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 #2162

15135 Hesperian Blvd., 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	3/28/2003	---	---	---	---	---	---	---	---	
	4/7/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	7/9/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	07/12/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-2	3/28/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	4/7/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	7/9/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	07/12/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-3	3/28/2003	<100	<20	45	<0.50	<0.50	0.73	<0.50	<0.50	
	4/7/2003	<100	<20	56	<0.50	<0.50	0.72	<0.50	<0.50	
	7/9/2003	<1,000	<200	87	<5.0	<5.0	<5.0	<5.0	<5.0	
	10/08/2003	<100	<20	25	<0.50	<0.50	<0.50	<0.50	<0.50	
	01/15/2004	<100	<20	9.8	<0.50	<0.50	<0.50	<0.50	<0.50	a (TBA and EDB)
	04/05/2004	<100	<20	15	<0.50	<0.50	<0.50	<0.50	<0.50	
	07/12/2004	<100	<20	7.3	<0.50	<0.50	<0.50	<0.50	<0.50	
	10/19/2004	<100	<20	5.0	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-4	3/28/2003	<100	<20	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	
	4/7/2003	<100	<20	14	<0.50	<0.50	<0.50	<0.50	<0.50	
	7/9/2003	<100	<20	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	
	10/08/2003	<100	<20	3.1	<0.50	<0.50	<0.50	<0.50	<0.50	
	01/15/2004	<100	<20	6.6	<0.50	<0.50	<0.50	<0.50	<0.50	a (TBA and EDB)
	04/05/2004	<100	<20	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	
	07/12/2004	<100	<20	1.0	<0.50	<0.50	<0.50	<0.50	<0.50	
	10/19/2004	<100	<20	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2

Fuel Additives Analytical Data ARCO Service Station #2162 15135 Hesperian Blvd., San Leandro, CA

ABBREVIATIONS:

< = Not detected at or above specified laboratory reporting limit

--- = Not analyzed/applicable/measured/available

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 result was reported with a possible high bias due to the continuing calibration verification falling outside acceptance criteria.

NOTES:

All fuel oxygenate compounds analyzed using EPA Method 8260B

Table 3

Groundwater Gradient Data
ARCO Service Station #2162
15135 Hesperian Blvd., San Leandro, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
3/23/2001	Southwest	0.011
6/20/2001	Southwest	0.013
9/22/2001	Southwest	0.012
12/28/2001	Southwest	0.010
3/14/2002	Southwest	0.011
4/18/2002	Southwest	0.012
7/19/2002	Southwest	0.012
10/9/2002	Southwest	0.013
3/28/2003	Southwest	0.013
4/7/2003	Southwest	0.011
7/9/2003	Southwest	0.010
10/8/2003	Southwest	0.010
1/15/2004	Southwest	0.008
4/5/2004	South-Southwest	0.004
7/12/2004	South and Southwest	0.003 and 0.005
10/19/2004	Southwest	0.004

Source: 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.

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 # 041019-MT3 Date 12-19-04 Client 2162

Site 1535 Hesperian, 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-1	4					9.47	15.90	↓
MW-2	4					8.29	16.00	
MW-3	4					8.95	15.00	
MW-4	4					9.91	17.75	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>04/1019 - MT</u>	Station # <u>2162</u>
Sampler: <u>MT</u>	Date: <u>10/19/04</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>15.00</u>	Depth to Water: <u>8.95</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>VSI</u> 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: <u>Bailer</u> Disposable Bailer Positive Air Displacement Electric <u>Submersible</u> Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> 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.

<u>4</u>	x	<u>3</u> 16	=	<u>12</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1623	63.2	7.1	1100	4	
	<u>Dewatered @</u>			5	

Did well dewater? <u>Yes</u> No	Gallons actually evacuated: <u>12</u> 5	
Sampling Time: <u>1625</u>	Sampling Date: <u>10/19/04</u>	
Sample I.D.: <u>MW-3</u>	Laboratory: Pace <u>Sequoia</u> Other _____	
Analyzed for: <u>GRO</u> <u>BTEX</u> MTBE DRO	Other: <u>Oxy, Ethanol, 1,2 DCA, EFB</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: <u>0.96</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>041019-MT</u>	Station # <u>2162</u>
Sampler: <u>MT</u>	Date: <u>10/19/04</u>
Well I.D.: <u>MW-4</u>	Well Diameter: 2 3 <input checked="" type="radio"/> 6 8 _____
Total Well Depth: <u>17.75</u>	Depth to Water: <u>9.91</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC _____ Grade	D.O. Meter (if req'd): <input checked="" type="radio"/> 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 Sampling Method: Bailer

Disposable Bailer Disposable Bailer

Positive Air Displacement Extraction Port

Electric Submersible Other: _____

Extraction Pump

Other: _____

Top of Screen: 7' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

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

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
<u>1615</u>	<u>65.6</u>	<u>7.7</u>	<u>1200</u>	<u>—</u>	

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Time: 1615 Sampling Date: 10/19/04

Sample I.D.: MW-4 Laboratory: Pace Sequoia Other _____

Analyzed for: GRO BTEX MTBE DRO Other: Dxy, Ethanol, 1,2 DCA, EDB

D.O. (if req'd):	Pre-purge:	_____ mg/L	Post-purge:	<u>1.21</u> 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 PLAINE 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:

2162

Station #
 15135 Hesperian, San Leandro

Station Address
 Total Gallons Collected From Groundwater Monitoring Wells:
 5

added equip. any other
 rinse water 1 adjustments _____

TOTAL GALS. RECOVERED 6 loaded onto
 BTS vehicle # 62

BTS event # time date
041019-INT3 1630 10/19/04

signature [Signature]

 REC'D AT time date

BTS 10/19/04

unloaded by
 signature [Signature]

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.



3 November, 2004

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

RE: ARCO #2162, San Leandro, CA
Work Order: MNJ0605

Enclosed are the results of analyses for samples received by the laboratory on 10/20/04 17:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #2162, San Leandro, CA Project Number: INTRIM-50319 Project Manager: Scott Robinson	MNJ0605 Reported: 11/03/04 10:47
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-3	MNJ0605-01	Water	10/19/04 16:25	10/20/04 17:35
MW-4	MNJ0605-02	Water	10/19/04 16:15	10/20/04 17:35
TB101904-2162	MNJ0605-03	Water	10/19/04 00:00	10/20/04 17:35

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.

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

Project: ARCO #2162, San Leandro, CA
Project Number: INTRIM-50319
Project Manager: Scott Robinson

MNJ0605
Reported:
11/03/04 10:47

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MNJ0605-01) Water Sampled: 10/19/04 16:25 Received: 10/20/04 17:35									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4J27003	10/27/04	10/27/04	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	5.0	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		118 %	78-129	"	"	"	"	"	
MW-4 (MNJ0605-02) Water Sampled: 10/19/04 16:15 Received: 10/20/04 17:35									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4J27003	10/27/04	10/28/04	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	4.4	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		117 %	78-129	"	"	"	"	"	

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

 Project: ARCO #2162, San Leandro, CA
 Project Number: INTRIM-50319
 Project Manager: Scott Robinson

 MNJ0605
 Reported:
 11/03/04 10:47

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
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Batch 4J27003 - EPA 5030B P/T / EPA 8260B
Blank (4J27003-BLK1)

Prepared & Analyzed: 10/27/04

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

5.79

"

5.00

116

78-129

Laboratory Control Sample (4J27003-BS1)

Prepared & Analyzed: 10/27/04

tert-Amyl methyl ether	9.54	0.50	ug/l	10.0		95	82-140			
Benzene	9.91	0.50	"	10.0		99	69-124			
tert-Butyl alcohol	52.8	20	"	50.0		106	56-131			
Di-isopropyl ether	9.12	0.50	"	10.0		91	76-130			
1,2-Dibromoethane (EDB)	11.0	0.50	"	10.0		110	77-132			
1,2-Dichloroethane	10.2	0.50	"	10.0		102	77-136			
Ethanol	182	100	"	200		91	31-143			
Ethyl tert-butyl ether	9.74	0.50	"	10.0		97	81-121			
Ethylbenzene	10.6	0.50	"	10.0		106	84-132			
Methyl tert-butyl ether	9.26	0.50	"	10.0		93	63-137			
Toluene	9.76	0.50	"	10.0		98	78-129			
Xylenes (total)	31.2	0.50	"	30.0		104	83-137			

Surrogate: 1,2-Dichloroethane-d4

5.71

"

5.00

114

78-129

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

 Project: ARCO #2162, San Leandro, CA
 Project Number: INTRIM-50319
 Project Manager: Scott Robinson

 MNJ0605
 Reported:
 11/03/04 10:47

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4J27003 - EPA 5030B P/T / EPA 8260B									
Laboratory Control Sample (4J27003-BS2)					Prepared & Analyzed: 10/27/04				
Benzene	5.24	0.50	ug/l	6.40		82	69-124		
Ethylbenzene	8.58	0.50	"	7.52		114	84-132		
Methyl tert-butyl ether	7.96	0.50	"	9.92		80	63-137		
Toluene	38.9	0.50	"	31.9		122	78-129		
Xylenes (total)	44.6	0.50	"	36.6		122	83-137		
Gasoline Range Organics (C4-C12)	492	50	"	440		112	70-124		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.88		"	5.00		118	78-129		
Laboratory Control Sample Dup (4J27003-BS1)					Prepared & Analyzed: 10/27/04				
tert-Amyl methyl ether	9.58	0.50	ug/l	10.0		96	82-140	0.4	20
Benzene	9.33	0.50	"	10.0		93	69-124	6	20
tert-Butyl alcohol	51.7	20	"	50.0		103	56-131	2	20
Di-isopropyl ether	9.01	0.50	"	10.0		90	76-130	1	20
1,2-Dibromoethane (EDB)	10.5	0.50	"	10.0		105	77-132	5	20
1,2-Dichloroethane	9.91	0.50	"	10.0		99	77-136	3	20
Ethanol	178	100	"	200		89	31-143	2	20
Ethyl tert-butyl ether	9.61	0.50	"	10.0		96	81-121	1	20
Ethylbenzene	9.76	0.50	"	10.0		98	84-132	8	20
Methyl tert-butyl ether	9.30	0.50	"	10.0		93	63-137	0.4	20
Toluene	9.41	0.50	"	10.0		94	78-129	4	20
Xylenes (total)	28.9	0.50	"	30.0		96	83-137	8	20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.75		"	5.00		115	78-129		
Matrix Spike (4J27003-MS1)					Prepared & Analyzed: 10/27/04				
Benzene	25.8	2.5	ug/l	32.0	ND	81	69-124		
Ethylbenzene	38.8	2.5	"	37.6	ND	103	84-132		
Methyl tert-butyl ether	132	2.5	"	49.6	92	81	63-137		
Toluene	160	2.5	"	160	0.50	100	78-129		
Xylenes (total)	188	2.5	"	183	ND	103	83-137		
Gasoline Range Organics (C4-C12)	1990	250	"	2200	160	83	70-124		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.74		"	5.00		115	78-129		

URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #2162, San Leandro, CA Project Number: INTRIM-50319 Project Manager: Scott Robinson	MNJ0605 Reported: 11/03/04 10:47
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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
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Batch 4J27003 - EPA 5030B P/T / EPA 8260B

Matrix Spike Dup (4J27003-MSD1)	Source: MNJ0392-16			Prepared & Analyzed: 10/27/04						
Benzene	26.2	2.5	ug/l	32.0	ND	82	69-124	2	20	
Ethylbenzene	40.5	2.5	"	37.6	ND	108	84-132	4	20	
Methyl tert-butyl ether	131	2.5	"	49.6	92	79	63-137	0.8	20	
Toluene	160	2.5	"	160	0.50	100	78-129	0	20	
Xylenes (total)	199	2.5	"	183	ND	109	83-137	6	20	
Gasoline Range Organics (C4-C12)	2040	250	"	2200	160	85	70-124	2	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.64</i>		<i>"</i>	<i>5.00</i>		<i>113</i>	<i>78-129</i>			

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

Project: ARCO #2162, San Leandro, CA
Project Number: INTRIM-50319
Project Manager: Scott Robinson

MNJ0605
Reported:
11/03/04 10:47

Notes and Definitions

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



Chain of Custody Record

Project Name GWM
 BP BU/GEM CO Portfolio Retail 2162 MANJDL05
 BP Laboratory Contract Number: Atlantic Richfield Company
 Requested Due Date (mm/dd/yy) 14 day TAT

Date: 10/19/04

On-site Time: 1545 Temp: 60°
 Off-site Time: 1630 Temp: 60°
 Sky Conditions: Rain
 Meteorological Events:
 Wind Speed: 0 Direction: 0

Send To:	BP/GEM Facility No.: <u>ARCO 2162</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>15135 HESPERIAN BLVD, San Leandro, CA</u>	Address: <u>1333 Broadway, Suite 600</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>ARCO 2162</u>	<u>Oakland, CA 94612</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail EDD: <u>donna.casper@URSCorp.com</u>
Lab PM <u>Lisa Race</u>	California Global ID #: <u>T0600100084</u>	Consultant/Contractor Project No.: <u>JS-00002162.01.00427</u>
Tel/Fax: <u>408-776-9600 / 408-782-6308</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3268</u>
Report Type & QC Level: <u>1 Send EDP Reports</u>	Address: <u>P.O. Box 6549</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
BP/GEM Account No.:	<u>Moraga, CA 94570</u>	Invoice to: <u>Consultant/Contractor of BP/GEM (Circle one)</u>
	Tele/Fax: <u>925-299-8891/925-299-8872</u>	BP/GEM Work Release No: <u>INTRIM-50319</u>

Lab Bottle Order No.	Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis							Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	GRO/BTEX (8015/8021, 8260)	DRO w/SGC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE (8260)	DIPE, TBA (8260)	1,3-DCA & EDB (8260)	
	1	<u>MW-3</u>	<u>1625</u>		X			<u>01</u>	<u>3</u>					X			X	X			
	2	<u>MW-4</u>	<u>1615</u>		X			<u>02</u>	<u>3</u>					X			X	X			
	3	<u>BBID1709-2162</u>			X			<u>03</u>	<u>2</u>					X			X	X			<u>JM HOLD</u>
	4																				
	5																				
	6																				
	7																				
	8																				
	9																				
	10																				

Sampler's Name: <u>Mikopi</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>10/20/04</u>	Time: <u>10:07</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>10/20/04</u>	Time: <u>10:07</u>
Sampler's Company: <u>BIS</u>						
Shipment Date: <u>10/20/04</u>						
Shipment Method:						
Shipment Tracking No:						

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

Custody Seals In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt P/C Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: ARCA 2162
 REC. BY (PRINT): JJ
 WORKORDER: MPJ0605

DATE REC'D AT LAB: 10/20/04
 TIME REC'D AT LAB: 1735
 DATE LOGGED IN: 10-20-04

For Regulatory Purposes?
 DRINKING WATER YES/NO NO
 WASTE WATER YES/NO NO

(For clients requiring preservation checks at receipt, document here ↓)

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	PH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / Absent Intact / Broken*	01	AC	MW-3	VOA (3)	HCl	-	W	10/19/04	
2. Chain-of-Custody Present / Absent*	02	L	E-4	↓ (3)	↓	L	↓	↓	
3. Traffic Reports or Packing List Present / Absent									
4. Airbill: Airbill / Sticker Present / Absent									
5. Airbill #									
6. Sample Labels: Present / Absent									
7. Sample IDs: Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes / No*									
10. Sample received within hold time? Yes / No*									
11. Adequate sample volume received? Yes / No*									
12. Proper Preservatives used? Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No*									
14. Temp Rec. at Lab: Is temp 4 ±2°C? Yes / No**									

(Acceptance range for samples requiring thermal pres.)
 **Exception (if any): METALS / OFF ON ICE or Problem COC

IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION

ATTACHMENT C

HISTORICAL GROUNDWATER DATA

Table 1
Groundwater Elevation and Analytical Data
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MTBE)

ARCO Service Station 2162
15135 Hesperian Boulevard, San Leandro, California

Well Number	Date Gauged/ Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Xylenes (ppb)	MTBE 8021B* (ppb)	MTBE 8260 (ppb)	Dissolved Oxygen (ppm)	Purged/ Not Purged (P/NP)
MW-1	02/26/96	31.19	7.14	24.05	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
MW-1	05/23/96	31.19	7.70	23.49	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
MW-1	08/21/96	31.19	8.75	22.44	210	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	
MW-1	11/20/96	31.19	8.62	22.57	91	<0.5	<0.5	<0.5	<0.5	2.6	NA	NA	
MW-1	04/01/97	31.19	8.70	22.49	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	
MW-1	06/10/97	31.19	8.45	22.74	94	<0.5	<0.5	0.68	0.56	6.4	NA	NA	NP
MW-1	09/17/97	31.19	9.20	21.99	<50	<0.5	<0.5	<0.5	<0.5	10	NA	NA	NP
MW-1	12/12/97	31.19	8.00	23.19	<200	<0.5	<0.5	<0.5	<0.5	180	NA	1.0	NP
MW-1	03/25/98	31.19	7.00	24.19	<200	<0.5	<0.5	<0.5	<0.5	180	NA	2.0	NP
MW-1	05/14/98	31.19	7.46	23.73	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	2.0	
MW-1	07/31/98	31.19	8.10	23.09	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	1.17	P
MW-1	10/12/98	31.19	8.60	22.59	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	2.0	NP
MW-1	02/11/99	31.19	7.32	23.87	<50	<0.5	<0.5	<0.5	<0.5	9	NA	2.5	NP
MW-1	06/23/99	31.19	8.40	22.79	<50	<0.5	<0.5	<0.5	<0.5	25	NA	1.0	P
MW-1	08/23/99	31.19	8.85	22.34	<50	<0.5	0.6	<0.5	<0.5	<3	NA	1.36	NP
MW-1	10/27/99	31.19	8.50	22.69	<50	<0.5	<0.5	<0.5	<0.5	5	NA	1.42	NP
MW-1	02/09/00	31.19	8.11	23.08	<50	<0.5	<0.5	<0.5	<1	90	NA	0.83	NP
									<1	9	NA	0.77	NP
MW-2	02/26/96	30.38	6.41	23.97	770	<0.5	<0.5	45	28	NA	NA	NA	
MW-2	05/23/96	30.38	6.80	23.58	590	0.50	<0.5	35	18	NA	NA	NA	
MW-2	08/21/96	30.38	7.80	22.58	170	<0.5	<0.5	21	6.3	<2.5	NA	NA	
MW-2	11/20/96	30.38	7.73	22.65	88	<0.5	<0.5	7.9	1.1	<2.5	NA	NA	
MW-2	04/01/97	30.38	7.83	22.55	66	<0.5	<0.5	3.6	0.56	33	NA	NA	
MW-2	06/10/97	30.38	7.52	22.86	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	
MW-2	09/17/97	30.38	8.24	22.14	<50	<0.5	<0.5	<0.5	<0.5	<3.0	NA	0.6	NP
MW-2	12/12/97	30.38	7.10	23.28	<50	<0.5	<0.5	<0.5	<0.5	<3.0	NA	1.2	NP
MW-2	03/25/98	30.38	6.27	24.11	<50	<0.5	<0.5	<0.5	<0.5	<3.0	NA	1.0	
MW-2	05/14/98	30.38	6.54	23.84	210	<0.5	<0.5	0.7	0.5	55	NA	1.0	
MW-2	07/31/98	30.38	7.14	23.24	230	<0.5	<0.5	3.3	<0.5	42	NA	1.47	P
								3.9	<0.5	6	NA	1.0	P

OAKC:\ARCO\2162\QTRLY\2162 Historical.XLS tab.1

IT CORPORATION

Table 1
Groundwater Elevation and Analytical Data
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MTBE)

ARCO Service Station 2162
15195 Hesperian Boulevard, San Leandro, California

Well Number	Date Gauged/ Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Xylenes (ppb)	MTBE 8021B* (ppb)	MTBE 8260 (ppb)	Dissolved Oxygen (ppm)	Purged/ Not Purged (P/NP)
MW-2	10/12/98	30.38	7.65	22.73	110	<0.5	<0.5	1.5	<0.5	<3	NA	1.0	P
MW-2	02/11/99	30.38	6.55	23.83	560	<0.5	<0.5	6.7	0.7	3	NA	1.0	P
MW-2	06/23/99	30.38	7.48	22.90	270	<0.5	<0.5	2.2	0.8	<3	NA	NM	P
MW-2	08/23/99	30.38	7.89	22.49	200	<0.5	0.9	1.8	<0.5	<3	NA	1.17	P
MW-2	10/27/99	30.38	8.30	22.08	2,100	1.0	2.5	14	3	3	NA	0.75	NP
MW-2	02/09/00	30.38	8.02	22.36	<50	<0.5	<0.5	<0.5	<1	5	NA	0.69	NP
MW-3	02/26/96	30.30	6.72	23.58	120	5.0	<0.5	<0.5	<0.5	NA	NA	NA	
MW-3	05/23/96	30.30	7.18	23.12	140	12	<0.5	<0.5	<0.5	NA	NA	NA	
MW-3	08/21/96	30.30	8.17	22.13	<50	1.1	<0.5	<0.5	<0.5	NA	NA	NA	
MW-3	11/20/96	30.30	8.03	22.27	55	<0.5	<0.5	<0.5	<0.5	130	NA	NA	
MW-3	04/01/97	30.30	8.09	22.21	<50	<0.5	<0.5	<0.5	<0.5	59	NA	NA	
MW-3	06/10/97	30.30	7.97	22.33	<50	<0.5	<0.5	<0.5	<0.5	180	NA	NA	NP
MW-3	09/17/97	30.30	8.54	21.76	<5,000	<50	<50	<50	<50	1,900	NA	NA	NP
MW-3	12/12/97	30.30	7.50	22.80	560	<5.0	<5.0	<5.0	5.0	1,100	860	2.2	NP
MW-3	03/25/98	30.30	6.60	23.70	<500	<5	<5	<5	<5	370	NA	1.4	NP
MW-3	05/14/98	30.30	7.13	23.17	750	<5	<5	<5	<5	470	NA	1.0	
MW-3	07/31/98	30.30	7.58	22.72	<500	<5	<5	<5	<5	630	NA	1.97	P
MW-3	10/12/98	30.30	8.00	22.30	<500	<5	<5	<5	<5	590	NA	1.0	P
MW-3	02/11/99	30.30	6.90	23.40	<500	<5	<5	<5	<5	600	NA	2.0	P
MW-3	06/23/99	30.30	7.82	22.48	220	<0.5	3.2	<0.5	<0.5	280	NA	1.0	P
MW-3	08/23/99	30.30	8.28	22.02	<50	<0.5	1.1	<0.5	<0.5	740	NA	1.98	P
MW-3	10/27/99	30.30	9.27	21.03	<50	<0.5	<0.5	<0.5	<0.5	230	NA	1.20	P
MW-3	02/09/00	30.30	7.45	22.85	<50	<0.5	<0.5	<0.5	<1	<3	NA	0.81	NP
MW-4	02/26/96	30.39	7.59	22.80	110	9.9	<0.5	<0.5	<0.5	80	NA	0.81	P
MW-4	05/23/96	30.39	8.22	22.17	69	8.0	<0.5	<0.5	<0.5	NA	NA	NA	
MW-4	08/21/96	30.39	9.28	21.11	<50	6.8	<0.5	<0.5	<0.5	NA	NA	NA	
MW-4	11/20/96	30.39	9.12	21.27	95	10	0.59	<0.5	0.52	<2.5	NA	NA	

Table 1.
Groundwater Elevation and Analytical Data
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MTBE)

ARCO Service Station 2162
15135 Hesperian Boulevard, San Leandro, California

Well Number	Date Gauged/ Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Xylenes (ppb)	MTBE 8021B* (ppb)	MTBE 8260 (ppb)	Dissolved Oxygen (ppm)	Purged/ Not Purged (P/NP)
MW-4	04/01/97	30.39	8.45	21.94	73	5.7	<0.5	<0.5	<0.5	<2.5	NA	NA	
MW-4	06/10/97	30.39	9.00	21.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NP
MW-4	09/17/97	30.39	9.76	20.63	<50	3.2	<0.5	<0.5	<0.5	8.0	NA	0.2	NP
MW-4	12/12/97	30.39	8.45	21.94	<50	2.9	<0.5	<0.5	<0.5	14	NA	1.0	NP
MW-4	03/25/98	30.39	7.52	22.87	58	2.8	<0.5	<0.5	<0.5	3	NA	3.0	
MW-4	05/14/98	30.39	8.03	22.36	<50	<0.5	<0.5	<0.5	<0.5	3	NA	3.24	NP
MW-4	07/31/98	30.39	8.67	21.72	<50	<0.5	<0.5	<0.5	<0.5	3	NA	2.0	NP
MW-4	10/12/98	30.39	9.15	21.24	<50	<0.5	<0.5	<0.5	<0.5	4	NA	1.5	NP
MW-4	02/11/99	30.39	7.80	22.59	61	2.5	<0.5	<0.5	<0.5	6	NA	1.0	P
MW-4	06/23/99	30.39	9.00	21.39	<50	<0.5	<0.5	<0.5	<0.5	3	NA	1.42	NP
MW-4	08/23/99	30.39	9.31	21.08	<50	<0.5	<0.5	<0.5	<0.5	6	NA	1.53	NP
MW-4	10/27/99	30.39	9.80	20.59	<50	<0.5	<0.5	<0.5	<0.5	6	NA	0.98	NP
MW-4	02/09/00	30.39	8.63	21.76	<50	<0.5	<0.5	<0.5	<1	7	NA	0.74	NP

TPPH = Total purgeable petroleum hydrocarbons by modified EPA method 8015
 BTEX = Benzene, toluene, ethylbenzene, total xylenes by EPA method 8021B. (EPA method 8020 prior to 10/27/99).
 MTHB = Methyl tert-Butyl Ether
 * = EPA method 8020 prior to 10/27/99
 MSL = Mean sea level
 TOC = Top of casing
 ppb = Parts per billion
 ppm = Parts per million
 NA = Not analyzed
 NM = Not measured
 < = Denotes concentration not present above laboratory detection limit stated to the right.

ATTACHMENT D

**ERROR CHECK REPORTS AND EDF/GEOWELL SUBMITTAL
CONFIRMATIONS**

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UPLOADING A GEO_WELL FILE

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Submittal Title: 4Q04 GEOWELL SUBMITTAL SITE
2162

Submittal Date/Time: 11/11/2004 2:33:59 PM

**Confirmation
Number:** 1178710758

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<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	11/11/2004 2:32:41 PM

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<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	11/4/2004 12:27:37 PM
<u>GLOBAL ID:</u>	T0600100084
<u>FILE UPLOADED:</u>	ARCO#2162-EDF-MNJ0605.zip

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ARCO # 02162	<u>Regional Board - Case #: 01-0091</u>
15135 HESPERIAN BLVD	SAN FRANCISCO BAY RWQCB (REGION
SAN	2) - (RDB)
LEANDRO, CA 94578	<u>Local Agency (lead agency) - Case #: 1259</u>
	ALAMEDA COUNTY LOP - (RWS)

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	2
# FIELD POINTS WITH DETECTIONS	2
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
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	N

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%		N
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		
<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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SUCCESSFUL EDF CHECK - NO ERRORS

<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	11/4/2004 12:27:37 PM
<u>GLOBAL ID:</u>	T0600100084
<u>FILE UPLOADED:</u>	ARCO#2162-EDF-MNJ0605.zip

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When you complete the submittal process, you will be given a confirmation number for your submittal.

Click [here](#) to view the detections report for this upload.

ARCO # 02162 15135 HESPERIAN BLVD SAN LEANDRO, CA 94578	<u>Regional Board - Case #: 01-0091</u> SAN FRANCISCO BAY RWQCB (REGION 2) - (RDB) <u>Local Agency (lead agency) - Case #: 1259</u> ALAMEDA COUNTY LOP - (RWS)
---	---

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	2
# FIELD POINTS WITH DETECTIONS	2
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
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	N

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	
<u>WATER SAMPLES FOR 8021/8260 SERIES</u>		
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%	N	
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y	
<u>SOIL SAMPLES FOR 8021/8260 SERIES</u>		
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	
<u>FIELD QC SAMPLES</u>		
<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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CONTACT SITE ADMINISTRATOR.

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Confirmation Number: 4231293678
Date/Time of Submittal: 11/4/2004 12:27:54 PM
Facility Global ID: T0600100084
Facility Name: ARCO # 02162
Submittal Title: Fourth Quarter 2004. Site #2162
Submittal Type: GW Monitoring Report

[Click here to view the detections report for this upload.](#)

ARCO # 02162 15135 HESPERIAN BLVD SAN LEANDRO, CA 94578	Regional Board - Case #: 01-0091 SAN FRANCISCO BAY RWQCB (REGION 2) - (RDB) Local Agency (lead agency) - Case #: 1259 ALAMEDA COUNTY LOP - (RWS)
--	---

CONF #	TITLE	QUARTER
4231293678	Fourth Quarter 2004. Site #2162	Q4 2004
SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	11/4/2004	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	2
# FIELD POINTS WITH DETECTIONS	2
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
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	N

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

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.