



Atlantic Richfield Company
(a BP affiliated company)

6 Centerpointe Drive, Room 172
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Phone: (714) 670-5303
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July 11, 2005

Re: Second Quarter Groundwater Monitoring Report
ARCO Service Station #5387
20200 Hesperian Blvd.
Hayward, California
ACEH Case No. R0-174

Alameda County
JUL 15 2005
Environmental Health

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

Submitted by:

Kyle Christie
Environmental Business Manager



July 11, 2005

Ms. Donna Drogas
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

**Re: Second Quarter 2005 Groundwater Monitoring Report
ARCO Service Station #5387
20200 Hesperian Blvd
Hayward, California
ACEH Case No. R0-174**

Alameda County
JUL 15 2005
Environmental Health

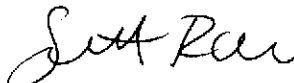
Dear Ms. Drogas:

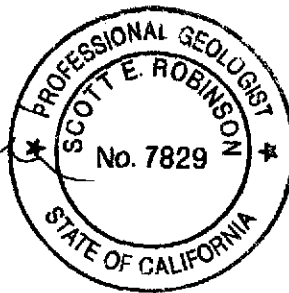
On behalf of the Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *Second Quarter 2005 Groundwater Monitoring Report* for ARCO Service Station #5387, located at 20200 Hesperian Boulevard, Hayward, California.

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

Sincerely,

URS CORPORATION


Scott Robinson, P.G.
Project Manager



Enclosure: Second Quarter 2005 Groundwater Monitoring Report

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

R E P O R T

**SECOND QUARTER 2005
GROUNDWATER MONITORING
REPORT**

**ARCO SERVICE STATION #5387
2020 HESPERIAN BOULEVARD
HAYWARD, CALIFORNIA**

Prepared for
RM

July 11, 2005

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

Date: July 11, 2005
Quarter: 2Q 05

SECOND QUARTER 2005 GROUNDWATER MONITORING REPORT

Former Facility No.: 5387 Address: 20200 Hesperian Boulevard, Hayward, California
RM Environmental Business Manager: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Primary Agency: Alameda County Environmental Health (ACEH)
ACEH Case No.: R0-174

WORK PERFORMED THIS QUARTER (Second – 2005):

1. Prepared and submitted the First Quarter 2005 Groundwater Monitoring Report.
2. Performed the second quarter groundwater monitoring event on June 20, 2005.

WORK PROPOSED FOR NEXT QUARTER (Third – 2005):

1. Prepare and submit this Second Quarter 2005 Groundwater Monitoring Report.
2. Perform the third quarter 2005 groundwater monitoring event.

SITE SUMMARY:

Current Phase of Project:	<u>GW monitoring/sampling</u>
Frequency of Groundwater Sampling:	<u>CURRENT SCHEDULE:</u> <u>Quarterly: Wells MW-1, MW-2, AR-1, AR-2 and A-7</u> <u>Semiannually (1st and 3rd Quarters): Wells A-4, A-5, A-8 and A-9</u> <u>Annually (3rd Quarter): Wells MW-3, A-6 and A-10</u> <u>REVISED SCHEDULE (BEGINNING 3Q05):</u> <u>Semiannually (1st and 3rd Quarters): Wells MW-1 and MW-2</u> <u>Annually (A-7, AR-1 and AR-2)</u>
Frequency of Groundwater Monitoring:	<u>Semiannually: All wells</u>
Is Free Product (FP) Present On-Site:	<u>No</u>
Current Remediation Techniques:	<u>None</u>
Approximate Depth to Groundwater:	<u>8.38 ft (MW-3) to 12.30 ft (A-7)</u>
Groundwater Gradient (direction):	<u>West</u>
Groundwater Gradient (magnitude):	<u>0.006</u>

DISCUSSION:

Methyl-tert-butyl ether was detected at or above the laboratory reporting limit in three of the five wells sampled this quarter at concentrations ranging from 0.97 µg/L (AR-2) to 6.0 µg/L (A-7). Tert-amyl methyl ether was detected at or above the laboratory reporting limit in one well at a concentration of 0.53 µg/L (AR-2). No other fuel components were detected at or above their respective laboratory reporting limits.

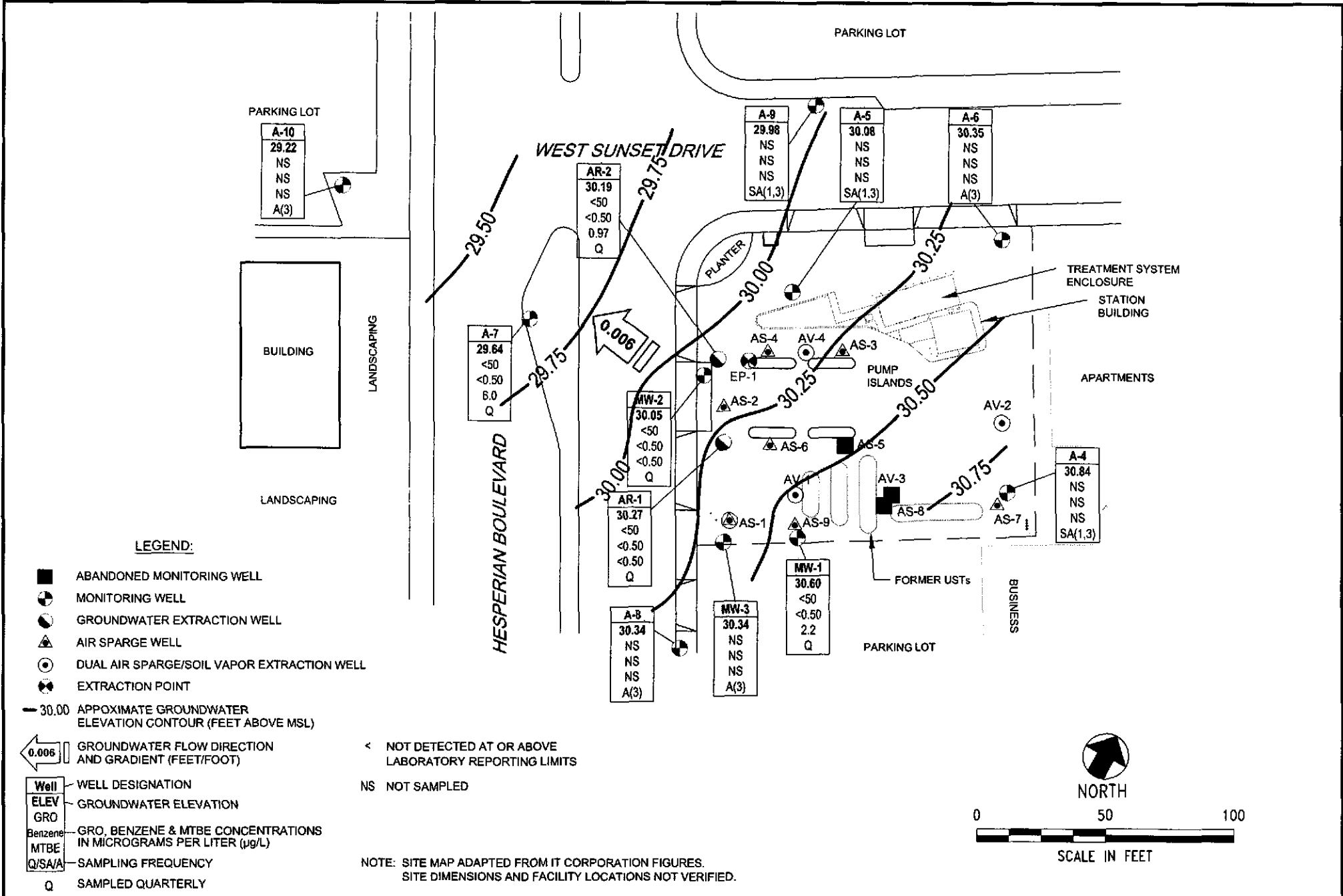
RECOMMENDATIONS:

As URS previously recommended, significant sampling frequency reductions will be implemented during the on-going closure review. The current and revised schedules are listed in the Site Summary section above. The new schedule will be implemented beginning in the third quarter, 2005, unless the regulator indicates that the new schedule is not permitted. As previously noted, URS believes that the pattern of significantly decreasing concentrations and detections of all analytes supports this sampling frequency revision.

On March 2, 2005, URS submitted a Soil Gas Investigation and requested closure for this site. We are waiting for a response from the regulator.

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – June 20, 2005.
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Additives Analytical Data
- Table 3 –Groundwater Gradient Data
- 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



LEGEND:

- ABANDONED MONITORING WELL
- MONITORING WELL
- ⊙ GROUNDWATER EXTRACTION WELL
- ▲ AIR SPARGE WELL
- ⊕ DUAL AIR SPARGE/SOIL VAPOR EXTRACTION WELL
- ⊖ EXTRACTION POINT

— 30.00 APPROXIMATE GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MSL)

← 0.006 GROUNDWATER FLOW DIRECTION AND GRADIENT (FEET/FOOT)

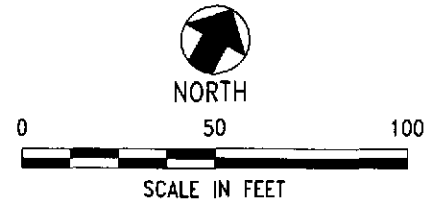
Well	WELL DESIGNATION
ELEV	GROUNDWATER ELEVATION
GRO	GRO, BENZENE & MTBE CONCENTRATIONS IN MICROGRAMS PER LITER (µg/L)
Q/SA/A	SAMPLING FREQUENCY

- Q SAMPLED QUARTERLY
- SA(1,3) SAMPLED SEMI-ANNUALLY 1st & 3rd QUARTER
- A(3) SAMPLED ANNUALLY 3rd QUARTER

< NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS

NS NOT SAMPLED

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



URS	Project No. 38487186	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Second Quarter 2005 (June 20, 2005)	FIGURE 1
	ARCO Service Station #5387 20200 Hesperian Boulevard Hayward, California		

Table 1
Groundwater Elevation and Analytical Data
 ARCO Service Station #5387
 20200 Hesperian Blvd., Hayward, 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
A-4	3/6/1991	--		39.46	10.00	35.00	13.22	26.24	34,000	11,000	870	2,500	2,100	--	--	---
	12/24/1991	--		39.86	10.00	35.00	17.60	22.26	1,900	29	1.9	25	29	--	--	---
	3/10/1992	--		39.86	10.00	35.00	14.76	25.10	7,400	37	<0.60	11	73	--	--	---
	6/9/1992	--		39.86	10.00	35.00	15.63	24.23	4,500	3.2	1.5	37	16	--	--	---
	9/14/1992	--		39.86	10.00	35.00	16.83	23.03	1,300	<2.5	2.5	61	6.8	--	--	---
	11/12/1992	--		39.86	10.00	35.00	16.97	22.89	610	7.2	0.98	34	0.97	--	--	---
	2/11/1993	--		39.86	10.00	35.00	13.43	26.43	740	2.4	<0.5	5	3.5	--	--	---
	4/14/1993	--		39.86	10.00	35.00	13.06	26.80	380	<0.5	<0.5	10	1.6	--	--	---
	8/12/1993	--		39.86	10.00	35.00	14.94	24.92	1,200	0.93	<0.5	0.91	<0.5	--	--	---
	10/26/1993	--		39.86	10.00	35.00	15.52	24.34	160	<0.5	<0.5	1	<0.5	--	--	---
	2/17/1994	--		39.46	10.00	35.00	14.02	25.44	320	0.5	<0.5	28	0.9	--	--	---
	5/3/1994	--		39.46	10.00	35.00	13.85	25.61	130	<0.5	<0.5	1.1	<0.5	--	--	---
	8/17/1994	--		39.53	10.00	35.00	14.95	39.53	62	34.58	<0.5	<0.5	<0.5	--	--	---
	11/18/1994	--		39.53	10.00	35.00	14.46	25.07	98	1.3	0.6	<0.5	<0.5	--	--	---
	12/6/1995	--		39.53	10.00	35.00	13.82	25.71	ND	0.6	ND	ND	ND	--	--	---
	2/14/1996	--		39.53	10.00	35.00	11.24	28.29	ND	ND	2.3	ND	0.71	--	--	---
	10/29/1996	--		39.53	10.00	35.00	13.50	26.03	140	ND	ND	ND	ND	--	--	---
	1/29/1997	--		39.53	10.00	35.00	12.65	26.88	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	4/30/1997	--		39.53	10.00	35.00	13.97	25.56	<20	<0.3	<0.3	<0.3	<0.5	<50	--	---
	7/31/1997	--		39.53	10.00	35.00	12.70	26.83	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	10/22/1997	--		39.53	10.00	35.00	13.95	25.58	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	1/28/1998	--		39.53	10.00	35.00	11.90	27.63	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	4/22/1998	--		39.53	10.00	35.00	13.92	25.61	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	7/8/1998	--		39.53	10.00	35.00	10.80	28.73	<50	<0.3	<0.3	<0.3	<0.5	<5	--	---
	10/22/1998	--		39.53	10.00	35.00	12.60	26.93	<50	<0.3	<0.3	<0.3	<0.5	<5	--	---
	1/13/1999	--		39.53	10.00	35.00	12.60	26.93	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	4/29/1999	--		39.53	10.00	35.00	12.61	26.92	<50	<0.3	<0.3	<0.3	<0.5	<5	--	---
	1/15/2002	--		39.53	10.00	35.00	---	---	<50	<0.5	<0.5	<0.5	<0.5	6.2	--	---
	4/24/2002	--	j	39.53	10.00	35.00	---	---	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	---
	09/23/2002	--	a	39.53	10.00	35.00	---	---	--	--	--	--	--	--	--	---
	12/9/2002	P		39.53	10.00	35.00	13.36	26.17	<50.0	<0.500	<0.500	<0.500	<1.00	<5.00	2.4	6.6
	2/11/2003	P	e	39.53	10.00	35.00	11.82	27.71	<50	<0.50	<0.50	<0.50	<0.50	0.53	1.8	6.6
	6/27/2003	--		39.53	10.00	35.00	12.12	27.41	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	6.7
	09/04/2003	--	a	39.53	10.00	35.00	---	---	--	--	--	--	--	--	--	---

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 ARCO Service Station #5387
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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
A-4	11/17/2003	--	m	39.53	10.00	35.00	15.09	24.44	--	--	--	--	--	--	--	--
	03/01/2004	P	i	42.26	10.00	35.00	10.95	31.31	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.20	6.7
	06/02/2004	--	m	42.26	10.00	35.00	12.34	29.92	--	--	--	--	--	--	--	--
	09/16/2004	P		42.26	10.00	35.00	13.19	29.07	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.70	6.7
	12/07/2004	--	m	42.26	10.00	35.00	13.00	29.26	--	--	--	--	--	--	--	--
	03/02/2005	P		42.26	10.00	35.00	10.66	31.60	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.90	6.7
	06/20/2005	--	m	42.26	10.00	35.00	11.42	30.84	--	--	--	--	--	--	--	--
A-5	12/24/1991	--		38.94	10.00	30.00	16.85	22.09	1,600	21	<0.30	32	52	--	--	--
	3/10/1992	--		38.94	10.00	30.00	13.83	25.11	1,000	1.6	<0.30	43	100	--	--	--
	6/9/1992	--		38.94	10.00	30.00	14.91	24.03	680	34	<1.5	14	16	--	--	--
	9/14/1992	--		38.94	10.00	30.00	16.14	22.80	770	12	<0.30	51	65	--	--	--
	11/12/1992	--		38.94	10.00	30.00	16.35	22.59	520	3	<2.5	29	36	--	--	--
	2/11/1993	--		38.94	10.00	30.00	13.21	25.73	150	1.6	0.96	5.1	1.5	--	--	--
	4/14/1993	--		38.94	10.00	30.00	12.97	25.97	190	5.4	<0.5	1.5	0.97	--	--	--
	8/12/1993	--		38.94	10.00	30.00	14.12	24.82	230	1.7	<0.5	5.3	0.94	--	--	--
	10/26/1993	--		38.94	10.00	30.00	14.72	24.22	190	2.8	<0.5	5.5	2	--	--	--
	2/17/1994	--		38.47	10.00	30.00	13.20	25.27	340	<0.5	<0.5	13	2.9	--	--	--
	5/3/1994	--		38.47	10.00	30.00	13.08	25.39	170	1.4	<0.5	4	1.9	--	--	--
	8/17/1994	--		38.54	10.00	30.00	14.18	24.36	270	0.6	<0.5	7.3	1.1	--	--	--
	11/18/1994	--		38.54	10.00	30.00	13.73	24.81	338	--	<0.5	4.6	<0.5	--	--	--
	9/26/1995	--		38.47	10.00	30.00	12.44	26.03	ND	0.63	1.1	ND	1.2	--	--	--
	12/6/1995	--		38.47	10.00	30.00	12.92	25.55	ND	ND	ND	ND	ND	--	--	--
	2/14/1996	--		38.47	10.00	30.00	10.76	27.71	ND	ND	2	ND	1.1	--	--	--
	10/29/1996	--		38.47	10.00	30.00	12.35	26.12	ND	ND	ND	ND	ND	--	--	--
	1/29/1997	--		38.47	10.00	30.00	10.85	27.62	<50	<0.3	<0.3	<0.3	<0.5	<20	--	--
	4/30/1997	--		38.47	10.00	30.00	13.56	24.91	<20	<0.3	<0.3	<0.3	<0.5	<50	--	--
	7/31/1997	--		38.47	10.00	30.00	11.80	26.67	<50	<0.3	<0.3	<0.3	<0.5	<20	--	--
	10/22/1997	--		38.47	10.00	30.00	12.20	26.27	<50	<0.3	<0.3	<0.3	<0.5	<20	--	--
	1/28/1998	--		38.47	10.00	30.00	10.12	28.35	<50	<0.3	<0.3	<0.3	<0.5	<20	--	--
	4/22/1998	--		38.47	10.00	30.00	13.50	24.97	<50	<0.3	<0.3	<0.3	<0.5	<20	--	--
	7/8/1998	--		38.47	10.00	30.00	10.20	28.27	<50	<0.3	<0.3	<0.3	<0.5	<5	--	--
	10/22/1998	--		38.47	10.00	30.00	11.50	26.97	<50	<0.3	<0.3	<0.3	<0.5	<5	--	--
	1/13/1999	--		38.47	10.00	30.00	10.15	28.32	<50	0.32	0.38	<0.3	<0.5	<20	--	--

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 20200 Hesperian Blvd., Hayward, 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
A-5	4/29/1999	--		38.47	10.00	30.00	11.50	26.97	<50	<0.3	<0.3	<0.3	0.58	<5	--	--
	1/15/2002	--		38.47	10.00	30.00	---	---	<50	<0.5	<0.5	<0.5	<0.5	5	--	--
	4/24/2002	--	j	38.47	10.00	30.00	---	---	<50	<0.50	<0.50	<0.50	<0.50	1.2	--	--
	9/23/2002	P		38.47	10.00	30.00	12.55	35.92	<50	<0.50	<0.50	<0.50	<1.5	1.3	1.0	6.7
	12/9/2002	P		38.47	10.00	30.00	12.60	25.87	<50	<0.50	<0.50	<0.50	<1.0	<5.00	1.9	6.6
	2/11/2003	P	e	38.47	10.00	30.00	11.37	27.10	<50	<0.50	<0.50	<0.50	<0.50	0.97	1.2	6.7
	6/27/2003	--		38.47	10.00	30.00	11.55	26.92	<50	<0.50	<0.50	<0.50	<0.50	0.98	1.5	6.8
	9/4/2003	--		38.47	10.00	30.00	12.21	26.26	<50	<0.50	<0.50	<0.50	<0.50	0.5	3.1	7
	11/17/2003	--	m	38.94	10.00	30.00	12.37	26.57	--	--	--	--	--	--	--	--
	03/01/2004	P	i	41.00	10.00	30.00	10.90	30.10	<50	<0.50	<0.50	<0.50	<0.50	0.77	3.20	6.7
	06/02/2004	--	m	41.00	10.00	30.00	11.70	29.30	--	--	--	--	--	--	--	--
	09/16/2004	P		41.00	10.00	30.00	12.40	28.60	<50	<0.50	<0.50	<0.50	<0.50	0.50	0.20	6.8
	12/07/2004	--	m	41.00	10.00	30.00	12.40	28.60	--	--	--	--	--	--	--	--
	03/02/2005	P		41.00	10.00	30.00	10.54	30.46	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.60	6.6
	06/20/2005	--	m	41.00	10.00	30.00	10.92	30.08	--	--	--	--	--	--	--	--
	A-6	12/24/1991	--		39.07	5.00	30.00	16.88	22.19	<30	<0.3	<0.3	<0.3	<0.3	--	--
3/10/1992		--		39.07	5.00	30.00	13.73	25.34	<30	<0.3	<0.3	<0.3	<0.3	--	--	--
6/9/1992		--		39.07	5.00	30.00	14.95	24.12	<30	<0.3	<0.3	<0.3	<0.3	--	--	--
9/14/1992		--		39.07	5.00	30.00	16.20	22.87	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
11/12/1992		--		39.07	5.00	30.00	16.35	22.72	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
2/11/1993		--		39.07	5.00	30.00	13.04	26.03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
4/14/1993		--		39.07	5.00	30.00	12.23	26.84	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
8/12/1993		--		39.07	5.00	30.00	14.18	24.89	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
10/26/1993		--		39.07	5.00	30.00	14.85	24.22	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
5/3/1994		--		39.07	5.00	30.00	13.66	25.41	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
8/17/1994		--		38.78	5.00	30.00	14.34	24.44	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
11/18/1994		--		38.78	5.00	30.00	13.76	25.02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
9/26/1995		--		38.78	5.00	30.00	12.56	26.22	ND	ND	ND	ND	ND	--	--	--
12/6/1995		--		38.78	5.00	30.00	13.18	25.60	ND	ND	ND	ND	ND	--	--	--
2/14/1996		--		38.78	5.00	30.00	12.46	26.32	ND	ND	ND	ND	ND	--	--	--
10/29/1996		--		38.78	5.00	30.00	12.40	26.38	50	ND	ND	ND	ND	--	--	--
1/29/1997		--		38.78	5.00	30.00	13.85	24.93	<50	<0.3	<0.3	<0.3	<0.5	<20	--	--
4/30/1997	--		38.78	5.00	30.00	12.49	26.29	<20	<0.3	<0.3	<0.3	<0.5	<50	--	--	

Table 1
Groundwater Elevation and Analytical Data
 ARCO Service Station #5387
 20200 Hesperian Blvd., Hayward, 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
A-6	7/31/1997	--		38.78	5.00	30.00	12.10	26.68	<50	<0.3	<0.3	<0.3	<0.5	<20	--	--
	10/22/1997	--		38.78	5.00	30.00	15.20	23.58	<50	<0.3	<0.3	<0.3	<0.5	<20	--	--
	1/28/1998	--		38.78	5.00	30.00	13.80	24.98	<50	<0.3	<0.3	<0.3	<0.5	<20	--	--
	4/22/1998	--		38.78	5.00	30.00	12.45	26.33	<50	<0.3	<0.3	<0.3	<0.5	<20	--	--
	7/8/1998	--		38.78	5.00	30.00	10.30	28.48	<50	<0.3	<0.3	<0.3	<0.5	<5	--	--
	10/22/1998	--		38.78	5.00	30.00	11.10	27.68	<50	<0.3	<0.3	<0.3	<0.5	<5	--	--
	1/13/1999	--		38.78	5.00	30.00	10.40	28.38	<50	<0.3	<0.3	<0.3	<0.5	<20	--	--
	4/29/1999	--		38.78	5.00	30.00	13.80	24.98	<50	<0.3	<0.3	<0.3	<0.5	<5	--	--
	1/15/2002	--		38.78	5.00	30.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	5.7	--	--
	4/24/2002	--	j	38.78	5.00	30.00	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
	9/23/2002	P		38.78	5.00	30.00	12.61	26.17	<50	<0.500	<0.500	<0.500	<1.50	<0.500	1.4	6.8
	12/9/2002	P		38.78	5.00	30.00	12.67	26.11	<50	<0.500	<0.500	<0.500	<1.00	<5.00	2.6	6.7
	2/11/2003	P	e	38.78	5.00	30.00	11.21	27.57	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.0	6.7
	6/27/2003	--		38.78	5.00	30.00	11.60	27.18	<50	<0.50	<0.50	<0.50	<0.50	<0.50	5.0	6.9
	9/4/2003	--		38.78	5.00	30.00	12.29	26.49	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.8	6.9
	11/17/2003	--		38.78	5.00	30.00	12.44	26.34	--	--	--	--	--	--	--	--
	03/01/2004	--	i, n	41.25	5.00	30.00	10.45	30.80	--	--	--	--	--	--	--	--
	06/02/2004	--	n	41.25	5.00	30.00	11.75	29.50	--	--	--	--	--	--	--	--
	09/16/2004	P		41.25	5.00	30.00	12.56	28.69	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.80	6.8
	12/07/2004	--	n	41.25	5.00	30.00	12.35	28.90	--	--	--	--	--	--	--	--
	03/02/2005	--	n	41.25	5.00	30.00	10.34	30.91	--	--	--	--	--	--	--	--
	06/20/2005	--	n	41.25	5.00	30.00	10.90	30.35	--	--	--	--	--	--	--	--
A-7	12/24/1991	--		39.95	10.00	35.00	18.11	21.84	10,000	88	16	170	610	--	--	--
	3/10/1992	--		39.95	10.00	35.00	15.30	24.65	320	9.3	0.54	8.8	34	--	--	--
	6/9/1992	--		39.95	10.00	35.00	16.12	23.83	340	11	1.1	8.9	26	--	--	--
	9/14/1992	--		39.95	10.00	35.00	17.35	22.60	510	12	<2.0	30	51	--	--	--
	11/12/1992	--		39.95	10.00	35.00	17.47	22.48	760	17	0.83	50	73	--	--	--
	2/11/1993	--		39.95	10.00	35.00	13.80	26.15	260	20	1	11	21	--	--	--
	4/14/1993	--		39.95	10.00	35.00	13.60	26.35	1,300	89	2.1	48	87	--	--	--
	8/12/1993	--		39.95	10.00	35.00	15.54	24.41	360	9	<0.50	13	9	--	--	--
	10/26/1993	--		39.95	10.00	35.00	16.28	23.67	99	1.7	<0.50	4	3	--	--	--
	2/17/1994	--		39.38	10.00	35.00	14.44	24.94	1,300	38	<1	35	25	--	--	--
	5/3/1994	--		39.38	10.00	35.00	14.34	25.04	330	8.1	<0.5	7.8	3.7	--	--	--

Table 1
Groundwater Elevation and Analytical Data
 ARCO Service Station #5387
 20200 Hesperian Blvd., Hayward, 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
A-7	8/17/1994	--		39.45	10.00	35.00	15.40	24.05	350	2.2	<0.5	9.6	3.6	--	--	---
	11/18/1994	--		39.45	10.00	35.00	14.95	24.50	412	1.3	<0.5	6.2	2	--	--	---
	9/26/1995	--		39.38	10.00	35.00	13.92	25.46	ND	ND	ND	ND	ND	--	--	---
	12/6/1995	--		39.38	10.00	35.00	14.42	24.96	ND	ND	ND	ND	ND	--	--	---
	2/14/1996	--		39.38	10.00	35.00	12.38	27.00	ND	ND	1.1	ND	0.59	--	--	---
	10/29/1996	--		39.38	10.00	35.00	12.33	27.05	ND	ND	ND	ND	ND	--	--	---
	1/29/1997	--		39.38	10.00	35.00	13.10	26.28	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	4/30/1997	--		39.38	10.00	35.00	11.70	27.68	<20	<0.3	<0.3	<0.3	<0.5	<50	--	---
	7/31/1997	--		39.38	10.00	35.00	13.25	26.13	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	10/22/1997	--		39.38	10.00	35.00	14.42	24.96	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	1/28/1998	--		39.38	10.00	35.00	13.00	26.38	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	4/22/1998	--		39.38	10.00	35.00	11.65	27.73	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	7/8/1998	--		39.38	10.00	35.00	11.20	28.18	<50	<0.3	<0.3	<0.3	<0.5	<5	--	---
	10/22/1998	--		39.38	10.00	35.00	13.75	25.63	51	<0.3	<0.3	<0.3	<0.5	<5	--	---
	1/13/1999	--		39.38	10.00	35.00	14.45	24.93	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	4/29/1999	--		39.38	10.00	35.00	13.74	25.64	<50	<0.3	<0.3	<0.3	<0.5	<5	--	---
	1/15/2002	--		39.38	10.00	35.00	---	---	<50	<0.5	<0.5	<0.5	<0.5	4.8	--	---
	4/24/2002	--	j	39.38	10.00	35.00	---	---	<50	<0.50	<0.50	<0.50	<0.50	7.2	--	---
	9/23/2002	P		39.38	10.00	35.00	13.78	25.60	<50.0	<0.500	<0.500	<0.500	<1.50	3.48	0.8	6.7
	12/9/2002	P		39.38	10.00	35.00	13.97	25.41	<50.0	<0.500	<0.500	<0.500	<1.00	<5.00	2.2	6.8
	2/11/2003	P	e	39.38	10.00	35.00	12.35	27.03	54	<0.50	<0.50	<0.50	<0.50	21	1.7	6.3
	6/27/2003	--		39.38	10.00	35.00	12.95	26.43	<50	<0.50	<0.50	<0.50	<0.50	9.4	1.3	6.8
	9/4/2003	--		39.38	10.00	35.00	13.59	25.79	<50	<0.50	<0.50	<0.50	<0.50	3.4	2.6	6.9
	11/17/2003	P		39.38	10.00	35.00	13.84	25.54	<50	<0.50	<0.50	<0.50	<0.50	1.4	3.50	6.5
	03/01/2004	P	i	41.94	10.00	35.00	12.65	29.29	<50	<0.50	<0.50	<0.50	<0.50	1.1	3.50	6.7
	06/02/2004	P		41.94	10.00	35.00	13.08	28.86	<50	<0.50	<0.50	<0.50	<0.50	0.92	1.30	7.3
	09/16/2004	P		41.94	10.00	35.00	13.89	28.05	<50	<0.50	<0.50	<0.50	<0.50	1.0	0.70	6.7
	12/07/2004	P		41.94	10.00	35.00	13.77	28.17	<50	<0.50	<0.50	<0.50	<0.50	1.8	0.80	7.3
	03/02/2005	P		41.94	10.00	35.00	12.35	29.59	<50	<0.50	<0.50	<0.50	<0.50	1.4	3.10	6.7
	06/20/2005	P		41.94	10.00	35.00	12.30	29.64	<50	<0.50	<0.50	<0.50	<0.50	6.0	0.12	6.8
A-8	9/14/1992	--		37.23	10.00	35.00	14.19	23.04	<50	<0.5	<0.5	<0.5	<0.5	--	--	---
	11/12/1992	--		37.23	10.00	35.00	14.35	22.88	<50	<0.5	<0.5	<0.5	<0.5	--	--	---
	2/11/1993	--		37.23	10.00	35.00	11.25	25.98	<50	<0.5	<0.5	<0.5	<0.5	--	--	---

Table 1
Groundwater Elevation and Analytical Data
 ARCO Service Station #5387
 20200 Hesperian Blvd., Hayward, 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
A-8	4/14/1993	--		37.23	10.00	35.00	12.33	24.90	<50	<0.5	<0.5	<0.5	<0.5	--	--	---
	8/12/1993	--		37.23	10.00	35.00	12.41	24.82	<50	<0.5	<0.5	<0.5	<0.5	--	--	---
	10/26/1993	--		37.23	10.00	35.00	13.02	24.21	<50	<0.5	<0.5	<0.5	<0.5	--	--	---
	2/17/1994	--		36.76	10.00	35.00	11.47	25.29	<50	<0.5	<0.5	<0.5	<0.5	--	--	---
	5/3/1994	--		36.76	10.00	35.00	11.35	25.41	<50	<0.5	<0.5	<0.5	<0.5	--	--	---
	8/17/1994	--		36.84	10.00	35.00	12.34	24.50	<50	<0.5	1.7	<0.5	1.4	--	--	---
	11/18/1994	--		36.84	10.00	35.00	11.90	24.94	<50	1	<0.5	<0.5	<0.5	--	--	---
	9/26/1995	--		36.76	10.00	35.00	10.94	25.82	<50	ND	ND	ND	ND	--	--	---
	12/6/1995	--		36.76	10.00	35.00	11.42	25.34	<50	ND	ND	ND	ND	--	--	---
	2/14/1996	--		36.76	10.00	35.00	8.80	27.96	<50	ND	0.48	ND	ND	--	--	---
	10/29/1996	--		36.76	10.00	35.00	11.30	25.46	<50	ND	ND	ND	ND	--	--	---
	1/29/1997	--		36.76	10.00	35.00	7.60	29.16	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	4/30/1997	--		36.76	10.00	35.00	10.54	26.22	<50	<0.3	<0.3	<0.3	<0.5	<50	--	---
	7/31/1997	--		36.76	10.00	35.00	11.20	25.56	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	10/22/1997	--		36.76	10.00	35.00	12.14	24.62	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	1/28/1998	--		36.76	10.00	35.00	4.43	32.33	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	4/22/1998	--		36.76	10.00	35.00	10.55	26.21	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	7/8/1998	--		36.76	10.00	35.00	9.07	27.69	<50	<0.3	<0.3	<0.3	<0.5	<5	--	---
	10/22/1998	--		36.76	10.00	35.00	12.12	24.64	<50	<0.3	<0.3	<0.3	<0.5	<5	--	---
	1/13/1999	--		36.76	10.00	35.00	9.60	27.16	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	4/29/1999	--		36.76	10.00	35.00	9.08	27.68	<50	<0.3	<0.3	<0.3	1.5	<5	--	---
	1/15/2002	--		36.76	10.00	35.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	5.6	--	---
	4/24/2002	--		36.76	10.00	35.00	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	---
	9/23/2002	P		36.76	10.00	35.00	10.75	26.01	<50	<0.500	<0.500	<0.500	<1.50	<0.500	1.0	6.8
	12/9/2002	P		36.76	10.00	35.00	10.81	25.95	<50	<0.500	<0.500	<0.500	<1.00	<5.00	2.1	6.6
	2/11/2003	P	e	36.76	10.00	35.00	9.90	26.86	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	6.5
	6/27/2003	--		36.76	10.00	35.00	9.73	27.06	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.0	6.8
	9/4/2003	--		36.76	10.00	35.00	10.32	26.44	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.1	6.9
	11/17/2003	--	m	36.76	10.00	35.00	10.55	26.21	--	--	--	--	--	--	--	--
	03/01/2004	P	i	39.29	10.00	35.00	8.51	30.78	<50	<0.50	<0.50	<0.50	<0.50	0.76	3.60	6.8
	06/02/2004	--	m	39.29	10.00	35.00	9.83	29.46	--	--	--	--	--	--	--	--
	09/16/2004	P		39.29	10.00	35.00	10.75	28.54	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.10	6.7
	12/07/2004	--	m	39.29	10.00	35.00	10.55	28.74	--	--	--	--	--	--	--	--
	03/02/2005	P		39.29	10.00	35.00	8.35	30.94	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.60	6.8

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 ARCO Service Station #5387
 20200 Hesperian Blvd., Hayward, 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
A-8	06/20/2005	--	m	39.29	10.00	35.00	8.95	30.34	--	--	--	--	--	--	--	--
A-9	9/14/1992	--		38.71	10.00	35.00	16.12	22.59	<50	<0.5	<0.5	<0.5	<0.5	--	--	---
	11/12/1992	--		38.71	10.00	35.00	16.29	22.42	<50	<0.5	<0.5	<0.5	<0.5	--	--	---
	2/11/1993	--		38.71	10.00	35.00	12.31	26.40	<50	<0.5	<0.5	<0.5	<0.5	--	--	---
	4/14/1993	--		38.71	10.00	35.00	12.01	26.70	<50	<0.5	<0.5	<0.5	<0.5	--	--	---
	8/12/1993	--		38.71	10.00	35.00	13.90	24.81	<50	<0.5	<0.5	<0.5	<0.5	--	--	---
	10/26/1993	--		38.71	10.00	35.00	14.86	23.85	<50	<0.5	<0.5	<0.5	<0.5	--	--	---
	2/17/1994	--		38.19	10.00	35.00	12.99	25.20	<50	<0.5	<0.5	<0.5	<0.5	--	--	---
	8/17/1994	--		38.19	10.00	35.00	14.03	24.16	<50	<0.5	<0.5	<0.5	<0.5	--	--	---
	11/18/1994	--		37.24	10.00	35.00	13.44	23.80	<50	<0.5	<0.5	<0.5	<0.5	--	--	---
	9/26/1995	--		37.24	10.00	35.00	12.43	25.81	<50	<0.5	ND	ND	ND	--	--	---
	12/6/1995	--		38.19	10.00	35.00	13.14	25.05	<50	<0.5	ND	ND	ND	--	--	---
	2/14/1996	--		38.19	10.00	35.00	9.05	29.14	<50	ND	1.8	0.49	0.82	--	--	---
	10/29/1996	--		38.19	10.00	35.00	12.85	25.34	<50	ND	ND	ND	ND	--	--	---
	1/29/1997	--		38.19	10.00	35.00	9.02	29.17	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	4/30/1997	--		38.19	10.00	35.00	12.05	26.14	<50	<0.3	<0.3	<0.3	<0.5	<50	--	---
	7/31/1997	--		38.19	10.00	35.00	12.18	26.01	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	10/22/1997	--		38.19	10.00	35.00	7.45	30.74	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	1/28/1998	--		38.19	10.00	35.00	21.25	16.94	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	4/22/1998	--		38.19	10.00	35.00	12.10	26.09	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	7/8/1998	--		38.19	10.00	35.00	10.40	27.79	<50	<0.3	<0.3	<0.3	<0.5	<5	--	---
	10/22/1998	--		38.19	10.00	35.00	1.55	24.64	<50	<0.3	<0.3	<0.3	<0.5	<5	--	---
	1/13/1999	--		38.19	10.00	35.00	12.05	26.14	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	4/29/1999	--		38.19	10.00	35.00	7.43	30.76	<50	<0.3	<0.3	<0.3	<0.5	<5	--	---
	1/15/2002	--		38.19	10.00	35.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	4.3	--	---
	4/24/2002	--	j	38.19	10.00	35.00	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	---
	9/23/2002	P		38.19	10.00	35.00	12.35	25.84	<50	<0.500	<0.500	<0.500	<1.50	<0.500	1.6	6.8
	12/9/2002	P		38.19	10.00	35.00	12.37	25.82	<50	<0.500	<0.500	<0.500	<1.00	<5.00	3.2	7.1
	2/11/2003	P	e	38.19	10.00	35.00	10.97	27.22	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.0	6.7
	6/27/2003	--		38.19	10.00	35.00	11.41	26.78	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.9	6.7
	9/4/2003	--		38.19	10.00	35.00	12.00	26.19	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.3	6.9
	11/17/2003	--		38.19	10.00	35.00	12.18	26.01	--	--	--	--	--	--	--	--
	03/01/2004	P	i	40.73	10.00	35.00	10.30	30.43	<50	<0.50	<0.50	<0.50	<0.50	0.50	3.10	6.7

Table 1
Groundwater Elevation and Analytical Data
 ARCO Service Station #5387
 20200 Hesperian Blvd., Hayward, 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	
A-9	06/02/2004	--	m	40.73	10.00	35.00	11.50	29.23	--	--	--	--	--	--	--	--	
	09/16/2004	P		40.73	10.00	35.00	12.23	28.50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.20	6.8	
	12/07/2004	--	m	40.73	10.00	35.00	12.20	28.53	--	--	--	--	--	--	--	--	
	03/02/2005	P		40.73	10.00	35.00	10.09	30.64	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.70	6.8	
	06/20/2005	--	m	40.73	10.00	35.00	10.75	29.98	--	--	--	--	--	--	--	--	
A-10	12/7/1992	--		38.94	10.00	35.00	16.81	22.13	660	30	<2.5	<2.5	<2.5	--	--	---	
	2/11/1993	--		38.94	10.00	35.00	13.15	25.79	210	<0.5	0.97	<0.5	<0.5	--	--	---	
	4/14/1993	--		38.94	10.00	35.00	12.19	26.75	770	<0.5	3	0.76	1.9	--	--	---	
	8/12/1993	--		38.94	10.00	35.00	14.87	24.07	390	<0.5	<0.5	<0.5	0.84	--	--	---	
	10/26/1993	--		38.94	10.00	35.00	15.65	23.29	290	<0.5	<0.5	<0.5	<0.5	--	--	---	
	2/17/1994	--		38.66	10.00	35.00	14.16	24.50	52	<0.5	<0.5	<0.5	<0.5	--	--	---	
	5/3/1994	--		38.66	10.00	35.00	14.00	24.66	<50	<0.5	<0.5	<0.5	<0.5	--	--	---	
	8/17/1994	--		38.72	10.00	35.00	15.08	23.64	<50	<0.5	<0.5	<0.5	<0.5	--	--	---	
	11/18/1994	--		38.72	10.00	35.00	14.68	24.04	<50	<0.5	<0.5	<0.5	<0.5	--	--	---	
	9/26/1995	--		38.66	10.00	35.00	13.58	25.08	ND	ND	ND	ND	ND	--	--	---	
	12/6/1995	--		38.66	10.00	35.00	14.24	24.42	ND	ND	ND	ND	ND	--	--	---	
	2/14/1996	--		38.66	10.00	35.00	6.70	31.96	ND	ND	ND	ND	ND	--	--	---	
	10/29/1996	--		38.66	10.00	35.00	14.10	24.56	ND	ND	ND	ND	1.1	--	--	---	
	1/29/1997	--		38.66	10.00	35.00	11.20	24.46	<50	0.41	4.8	0.6	4.4	37	--	---	
	4/30/1997	--		38.66	10.00	35.00	12.66	26.00	<20	0.4	4.2	0.5	3.8	50	--	---	
	7/31/1997	--		38.66	10.00	35.00	13.20	25.46	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---	
	4/22/1998	--		38.66	10.00	35.00	12.60	26.06	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---	
	7/8/1998	--		38.66	10.00	35.00	8.08	30.58	<50	<0.3	<0.3	<0.3	<0.5	<5	--	---	
	10/22/1998	--		38.66	10.00	35.00	11.15	27.51	<50	<0.3	<0.3	<0.3	<0.5	<5	--	---	
	1/13/1999	--		38.66	10.00	35.00	9.60	29.06	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---	
	4/29/1999	--		38.66	10.00	35.00	11.15	27.51	<50	<0.3	<0.3	<0.3	<0.5	<5	--	---	
	1/15/2002	--		38.66	10.00	35.00	---	--	<50	<0.5	<0.5	<0.5	<0.5	17	--	---	
	4/24/2002	--		38.66	10.00	35.00	---	--	--	--	--	--	--	--	--	---	
	9/23/2002	--	o		38.66	10.00	35.00	---	--	--	--	--	--	--	--	---	
	12/19/2002	P	c		38.66	10.00	35.00	12.75	25.91	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	---
	2/11/2003	P	e		38.66	10.00	35.00	12.21	26.45	<50	<0.50	<0.50	<0.50	<0.50	1.9	1.3	6.7
	6/27/2003	--			38.66	10.00	35.00	12.66	26.00	<50	<0.50	<0.50	<0.50	<0.50	0.99	0.8	7.2
9/4/2003	--			38.66	10.00	35.00	13.31	25.35	<50	<0.50	<0.50	<0.50	<0.50	1.1	0.9	6.9	

Table 1
Groundwater Elevation and Analytical Data
 ARCO Service Station #5387
 20200 Hesperian Blvd., Hayward, 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
A-10	11/17/2003	--	n	38.66	10.00	35.00	13.27	25.39	--	--	--	--	--	--	--	--
	03/01/2004	--	j, n	41.22	10.00	35.00	11.55	29.67	--	--	--	--	--	--	--	--
	06/02/2004	--	n	41.22	10.00	35.00	12.61	28.61	--	--	--	--	--	--	--	--
	09/16/2004	P	k	41.22	10.00	35.00	12.51	28.71	<50	<0.50	<0.50	<0.50	<0.50	0.84	0.20	6.8
	12/07/2004	--	n	41.22	10.00	35.00	13.60	27.62	--	--	--	--	--	--	--	--
	03/02/2005	--	n	41.22	10.00	35.00	11.46	29.76	--	--	--	--	--	--	--	--
	06/20/2005	--	n	41.22	10.00	35.00	12.00	29.22	--	--	--	--	--	--	--	--
	AR-1	9/14/1992	--		38.11	15.00	40.00	15.21	22.90	820	67	<1.0	8.8	6.7	--	--
	11/12/1992	--		38.11	15.00	40.00	15.36	22.75	140	66	<0.5	4.3	3.7	--	--	---
	2/11/1993	--		38.11	15.00	40.00	12.81	25.30	360	190	<2.5	8.6	<2.5	--	--	---
	4/14/1993	--		38.11	15.00	40.00	11.77	26.34	420	240	5.2	30	8.7	--	--	---
	8/12/1993	--		38.11	15.00	40.00	13.55	24.56	370	150	<2	11	<2	--	--	---
	10/26/1993	--		38.11	15.00	40.00	13.98	24.13	240	98	<2	11	<2	--	--	---
	2/17/1994	--		37.46	15.00	40.00	12.15	25.31	4,700	1,100	<10	140	26	--	--	---
	5/3/1994	--		37.46	15.00	40.00	12.03	25.43	620	130	1.3	48	4.3	--	--	---
	8/17/1994	--		37.33	15.00	40.00	12.92	24.41	3,600	630	<5	200	12	--	--	---
	11/18/1994	--		37.33	15.00	40.00	12.41	24.92	12,100	720	6.1	337	15	--	--	---
	9/26/1995	--		37.46	15.00	40.00	11.34	26.12	ND	8.3	ND	ND	ND	--	--	---
	12/6/1995	--		37.46	15.00	40.00	11.87	25.59	120	20	ND	20	0.6	--	--	---
	2/14/1996	--		37.46	15.00	40.00	10.48	26.98	ND	ND	ND	ND	0.52	--	--	---
	10/29/1996	--		37.46	15.00	40.00	11.80	25.66	ND	ND	0.99	ND	ND	--	--	---
	1/29/1997	--		37.46	15.00	40.00	11.25	26.21	<50	0.41	<0.3	<0.3	<0.3	<20	--	---
	4/30/1997	--		37.46	15.00	40.00	12.24	25.22	<20	<0.3	<0.3	<0.3	<0.5	<50	--	---
	7/31/1997	--		37.46	15.00	40.00	10.80	26.66	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	10/22/1997	--		37.46	15.00	40.00	11.90	25.56	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	1/28/1998	--		37.46	15.00	40.00	11.20	26.26	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	4/22/1998	--		37.46	15.00	40.00	12.20	25.26	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	7/8/1998	--		37.46	15.00	40.00	9.10	28.36	<50	<0.3	<0.3	<0.3	<0.5	<5	--	---
	10/22/1998	--		37.46	15.00	40.00	9.80	27.66	270	2.1	<0.3	3.6	<0.5	190	--	---
	1/13/1999	--		37.46	15.00	40.00	10.10	27.36	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	4/29/1999	--		37.46	15.00	40.00	11.35	26.11	<50	<0.3	<0.3	<0.3	<0.5	<5	--	---
	1/15/2002	--		37.46	15.00	40.00	---	---	<50	<0.5	<0.5	<0.5	1.1	2.9	--	---
	4/24/2002	--	j	37.46	15.00	40.00	---	---	<50	<0.50	<0.50	<0.50	<0.50	2.6	--	---

Table 1
Groundwater Elevation and Analytical Data
 ARCO Service Station #5387
 20200 Hesperian Blvd., Hayward, 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
AR-1	9/23/2002	P		37.46	15.00	40.00	11.26	26.20	<50.0	<0.500	<0.500	<0.500	<1.50	20.2	1.6	6.9
	12/9/2002	P		37.46	15.00	40.00	11.35	26.11	<50.0	<0.500	<0.500	<0.500	<1.00	26.6	1.8	6.9
	2/11/2003	P	e	37.46	15.00	40.00	9.91	27.55	<50	<0.50	<0.50	<0.50	<0.50	4.7	1.2	6.7
	6/27/2003	NP		37.46	15.00	40.00	10.30	27.16	<50	<0.50	<0.50	<0.50	<0.50	1.6	1.6	7
	09/04/2003	--	f	37.46	15.00	40.00	---	--	--	--	--	--	--	--	--	---
	11/17/2003	P		37.46	15.00	40.00	11.13	26.33	<50	<0.50	<0.50	<0.50	<0.50	1.4	1.80	6.7
	03/01/2004	P	i	39.82	15.00	40.00	9.00	30.82	<50	<0.50	<0.50	<0.50	<0.50	8.6	0.60	7.0
	06/02/2004	NP		39.82	15.00	40.00	10.40	29.42	<50	<0.50	<0.50	<0.50	<0.50	3.6	0.30	7.2
	09/16/2004	NP		39.82	15.00	40.00	11.18	28.64	<50	<0.50	<0.50	<0.50	<0.50	3.2	0.10	6.7
	12/07/2004	NP		39.82	15.00	40.00	11.15	28.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.20	7.3
	03/02/2005	P	p	39.82	15.00	40.00	9.01	30.81	<50	<0.50	<0.50	<0.50	<0.50	1.7	0.90	6.8
	06/20/2005	NP		39.82	15.00	40.00	9.55	30.27	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.07	8.1
	AR-2	3/30/1993	--		38.39	5.00	35.00	11.53	26.86	390	4.1	1.6	<0.5	47	--	--
4/14/1993		--		38.39	5.00	35.00	11.87	26.52	310	18	<0.5	0.67	36	--	--	---
8/12/1993		--		38.39	5.00	35.00	13.59	24.80	130	16	<0.5	1.7	0.57	--	--	---
10/26/1993		--		38.39	5.00	35.00	14.25	24.14	110	15	<0.5	1.8	<0.5	--	--	---
2/17/1994		--		38.39	5.00	35.00	12.76	25.22	130	2.9	<0.5	15	0.8	--	--	---
5/3/1994		--		38.39	5.00	35.00	12.60	25.38	<50	<0.5	<0.5	<0.5	<0.5	--	--	---
8/17/1994		--		38.18	5.00	35.00	13.86	24.32	3,000	140	140	220	91	--	--	---
11/18/1994		--		38.18	5.00	35.00	13.33	24.85	623	10.5	10.5	27.9	8	--	--	---
9/26/1995		--		37.98	5.00	35.00	11.67	26.31	ND	ND	ND	ND	ND	--	--	---
12/6/1995		--		37.98	5.00	35.00	12.32	25.66	320	12	12	23	2.1	--	--	---
2/14/1996		--		37.98	5.00	35.00	10.74	27.24	ND	ND	ND	ND	0.76	--	--	---
10/29/1996		--		37.98	5.00	35.00	11.95	26.03	ND	ND	ND	ND	ND	--	--	---
1/29/1997		--		37.98	5.00	35.00	11.35	26.63	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
4/30/1997		--		37.98	5.00	35.00	12.15	25.83	<20	<0.3	<0.3	<0.3	<0.5	<50	--	---
7/31/1997		--		37.98	5.00	35.00	11.20	26.78	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
10/22/1997		--		37.98	5.00	35.00	12.14	25.84	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
1/28/1998		--		37.98	5.00	35.00	10.05	27.93	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
4/22/1998	--		37.98	5.00	35.00	12.10	25.88	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---	
7/8/1998	--		37.98	5.00	35.00	9.50	28.48	<50	<0.3	<0.3	<0.3	<0.5	<5	--	---	
10/22/1998	--		37.98	5.00	35.00	10.45	27.53	<50	<0.3	<0.3	<0.3	<0.5	<5	--	---	
1/13/1999	--		37.98	5.00	35.00	10.50	27.48	<50	<0.3	0.4	<0.3	0.53	<20	--	---	

Table 1
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 ARCO Service Station #5387
 20200 Hesperian Blvd., Hayward, 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	
AR-2	4/29/1999	--		37.98	5.00	35.00	11.48	26.50	<50	<0.3	<0.3	<0.3	0.82	<5	--	---	
	1/15/2002	--		37.98	5.00	35.00	---	---	<50	<0.5	<0.5	<0.5	<0.5	17	--	---	
	4/24/2002	--	j	37.98	5.00	35.00	---	---	<50	<0.50	<0.50	<0.50	<0.50	39	--	---	
	9/23/2002	P		37.98	5.00	35.00	12.22	25.76	<50.0	<0.500	<0.500	<0.500	<1.50	4.43	1.0	7.1	
	12/9/2002	P		37.98	5.00	35.00	12.30	25.68	<50.0	<0.500	<0.500	<0.500	<1.00	<5.00	1.1	7	
	2/11/2003	P	e	37.98	5.00	35.00	10.80	27.18	<50	<0.50	<0.50	<0.50	<0.50	0.75	1.8	6.9	
	6/27/2003	NP		37.98	5.00	35.00	11.14	26.84	<50	<0.50	<0.50	<0.50	<0.50	6	0.9	6.4	
	09/04/2003	--	f	37.98	5.00	35.00	---	--	--	--	--	--	--	--	--	---	
	11/17/2003	P		38.89	5.00	35.00	12.08	26.81	<50	<0.50	<0.50	<0.50	<0.50	0.86	1.80	6.8	
	03/01/2004	P	i	40.68	5.00	35.00	10.01	30.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.20	6.9	
	06/02/2004	--		40.68	5.00	35.00	11.38	29.30	<50	<0.50	<0.50	<0.50	<0.50	4.3	0.30	6.7	
	09/16/2004	NP		40.68	5.00	35.00	12.12	28.56	<50	<0.50	<0.50	<0.50	<0.50	1.5	0.10	6.9	
	12/07/2004	NP		40.68	5.00	35.00	12.00	28.68	<50	<0.50	<0.50	<0.50	<0.50	1.2	0.30	7.4	
	03/02/2005	NP		40.68	5.00	35.00	9.92	30.76	<50	<0.50	<0.50	<0.50	<0.50	1.5	0.80	7.0	
	06/20/2005	NP		40.68	5.00	35.00	10.49	30.19	<50	<0.50	<0.50	<0.50	<0.50	0.97	0.11	6.6	
	MW-1	8/8/1986	--		38.36	5.00	30.00	11.25	27.11	7,040	132	8.7	439	230	--	--	---
		12/24/1991	--		38.36	5.00	30.00	16.12	22.24	2,200	190	8.5	6.9	2.6	--	--	---
3/10/1992		--		38.36	5.00	30.00	13.34	25.02	2,800	270	29	56	39	--	--	---	
6/9/1992		--		38.36	5.00	30.00	14.12	24.24	2,900	960	27	99	63	--	--	---	
9/14/1992		--		38.36	5.00	30.00	15.34	23.02	2,600	450	<5.0	45	21	--	--	---	
11/12/1992		--		38.36	5.00	30.00	15.46	22.90	1,600	310	7.2	22	8.9	--	--	---	
2/11/1993		--		38.36	5.00	30.00	11.95	26.41	4,000	510	47	200	91	--	--	---	
4/14/1993		--		38.36	5.00	30.00	11.65	26.71	1,700	260	20	100	70	--	--	---	
8/12/1993		--		38.36	5.00	30.00	12.93	25.43	830	60	3.8	39	3.6	--	--	---	
10/26/1993		--		38.36	5.00	30.00	14.13	24.23	8,800	140	<10	41	<10	--	--	---	
2/17/1994		--		37.26	5.00	30.00	11.86	25.40	1,200	130	12	54	58	--	--	---	
5/3/1994		--		37.26	5.00	30.00	11.58	25.68	--	--	--	--	--	--	--	---	
8/17/1994		--		37.33	5.00	30.00	12.78	24.55	3,900	86	5.1	78	9.4	--	--	---	
11/18/1994		--		37.33	5.00	30.00	12.31	25.02	6,350	112	8.4	107	35	--	--	---	
9/26/1995		--		37.26	5.00	30.00	11.26	26.00	ND	ND	ND	ND	ND	--	--	---	
12/6/1995	--		37.26	5.00	30.00	12.16	25.10	4,100	0.86	0.46	0.38	0.92	--	--	---		
2/14/1996	--		37.26	5.00	30.00	8.53	28.73	ND	ND	0.56	ND	0.82	--	--	---		
10/29/1996	--		37.26	5.00	30.00	10.23	27.03	130	ND	ND	ND	ND	--	--	---		

Table 1
Groundwater Elevation and Analytical Data
 ARCO Service Station #5387
 20200 Hesperian Blvd., Hayward, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TDC (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	1/29/1997	--		37.26	5.00	30.00	8.15	29.11	<50	<0.3	<0.3	<0.3	<0.5	<20	--	--
	4/30/1997	--		37.26	5.00	30.00	8.05	29.21	<20	<0.3	<0.3	<0.3	<0.5	<50	--	--
	7/31/1997	--		37.26	5.00	30.00	10.50	26.76	<50	<0.3	<0.3	<0.3	<0.5	<20	--	--
	10/22/1997	--		37.26	5.00	30.00	11.15	26.11	<50	<0.3	<0.3	<0.3	<0.5	<20	--	--
	1/28/1998	--		37.26	5.00	30.00	4.95	32.31	<50	<0.3	<0.3	<0.3	<0.5	<20	--	--
	4/22/1998	--		37.26	5.00	30.00	8.10	29.16	<50	<0.3	<0.3	<0.3	<0.5	<20	--	--
	7/8/1998	--		37.26	5.00	30.00	8.02	29.24	<50	<0.3	<0.3	<0.3	<0.5	40	--	--
	10/22/1998	--		37.26	5.00	30.00	9.70	27.56	230	0.43	1.9	0.99	0.99	33	--	--
	1/13/1999	--		37.26	5.00	30.00	9.60	27.66	<50	0.43	<0.3	<0.3	<0.5	<20	--	--
	4/29/1999	--	i	37.26	5.00	30.00	8.05	29.21	<50	<0.3	<0.3	<0.3	<0.5	31/17	--	--
	1/15/2002	--		37.26	5.00	30.00	---	---	<50	<0.05	<0.5	<0.5	<0.5	21	--	--
	4/24/2002	--	j	37.26	5.00	30.00	---	---	160	1.5	<0.50	<0.50	<0.50	770	--	--
	09/23/2002	--	a	37.26	5.00	30.00	---	---	--	--	--	--	--	--	--	--
	12/9/2002	P	b, d, j	37.26	5.00	30.00	11.22	26.04	998	<0.50	<0.50	<0.50	1.37	855/1310	2.2	7.0
	2/11/2003	P	e	37.26	5.00	30.00	9.70	27.56	120	<0.50	<0.50	<0.50	<0.50	76	1.6	6.7
	6/27/2003	P		37.26	5.00	30.00	10.10	27.16	<500	<5.0	<5.0	<5.0	<5.0	170	0.8	6.8
	09/04/2003	--	f	37.26	5.00	30.00	---	--	--	--	--	--	--	--	--	--
	11/17/2003	P		37.26	5.00	30.00	10.94	26.32	420	<0.50	<0.50	<0.50	<0.50	140	1.70	--
	03/01/2004	P	i	39.80	5.00	30.00	8.85	30.95	<50	<0.50	<0.50	<0.50	<0.50	14	2.10	6.5
	06/02/2004	P		39.80	5.00	30.00	10.30	29.50	340	<2.5	<2.5	<2.5	<2.5	250	0.40	7.0
	09/16/2004	P		39.80	5.00	30.00	11.02	28.78	<250	<2.5	<2.5	<2.5	<2.5	170	0.50	6.7
	12/07/2004	--		39.80	5.00	30.00	10.83	28.97	<250	<2.5	<2.5	<2.5	<2.5	180	1.0	7.4
	03/02/2005	P		39.80	5.00	30.00	8.62	31.18	50	<0.50	<0.50	<0.50	<0.50	24	1.80	6.8
	06/20/2005	P		39.80	5.00	30.00	9.20	30.60	<50	<0.50	<0.50	<0.50	<0.50	2.2	0.08	7.5
MW-2	8/8/1986	--		38.58	5.00	30.00	11.62	26.96	1,910	20.1	2.8	1.8	--	--	--	--
	12/24/1991	--		38.58	5.00	30.00	16.50	22.08	23,000	1,500	1,100	480	1,400	--	--	--
	3/10/1992	--		38.58	5.00	30.00	13.50	25.08	210,000	44,000	3,900	1,700	5,800	--	--	--
	6/9/1992	--		38.58	5.00	30.00	14.52	24.06	33,000	2,300	370	780	2,600	--	--	--
	9/14/1992	--		38.58	5.00	30.00	15.78	22.80	16,000	3,700	10	470	1,000	--	--	--
	11/12/1992	--		38.58	5.00	30.00	15.98	22.60	16,000	3,800	86	470	910	--	--	--
	2/11/1993	--		38.58	5.00	30.00	12.27	26.31	27,000	3,500	720	1,600	380	--	--	--
	4/14/1993	--		38.58	5.00	30.00	12.01	26.57	27,000	3,500	220	2,200	5,100	--	--	--
	8/12/1993	--		38.58	5.00	30.00	13.81	24.77	16,000	1,600	27	1,300	1,200	--	--	--

Table 1
Groundwater Elevation and Analytical Data
ARCO Service Station #5387
20200 Hesperian Blvd., Hayward, 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	10/26/1993	--		38.58	5.00	30.00	14.53	24.05	12,000	1,200	<25	510	330	--	--	--
	2/17/1994	--		38.58	5.00	30.00	12.81	25.77	15,000	1,800	21	850	540	--	--	--
	5/3/1994	--		38.58	5.00	30.00	12.63	25.95	--	--	--	--	--	--	--	--
	8/17/1994	--		37.99	5.00	30.00	13.69	24.30	14,000	850	13	640	270	--	--	--
	11/18/1994	--		38.06	5.00	30.00	13.18	24.88	14,900	640	3.4	532	156	--	--	--
	9/26/1995	--		37.99	5.00	30.00	12.23	25.76	5,100	40	25	2.5	18	--	--	--
	12/6/1995	--		37.99	5.00	30.00	12.82	25.17	810	34	23	11	11	--	--	--
	2/14/1996	--		37.99	5.00	30.00	10.87	27.12	420	0.75	0.54	0.64	0.53	--	--	--
	10/29/1996	--		37.99	5.00	30.00	12.95	25.04	670	1.7	1.3	0.6	0.8	--	--	--
	1/29/1997	--		37.99	5.00	30.00	11.15	26.84	<50	<0.3	<0.3	<0.3	<0.5	<20	--	--
	4/30/1997	--		37.99	5.00	30.00	11.09	26.90	<20	<0.3	<0.3	<0.3	<0.5	<50	--	--
	7/31/1997	--		37.99	5.00	30.00	11.70	26.29	330	<0.3	0.58	0.53	<0.5	<20	--	--
	10/22/1997	--		37.99	5.00	30.00	11.05	26.94	<50	<0.3	<0.3	<0.3	<0.5	<20	--	--
	1/28/1998	--		37.99	5.00	30.00	9.50	28.49	<50	<0.3	<0.3	<0.3	<0.5	<20	--	--
	4/22/1998	--		37.99	5.00	30.00	11.15	26.84	<50	<0.3	<0.3	<0.3	<0.5	<20	--	--
	7/8/1998	--		37.99	5.00	30.00	10.20	27.79	78	<0.3	<0.3	<0.3	<0.5	97	--	--
	10/22/1998	--		37.99	5.00	30.00	11.10	26.89	270	0.37	2	0.91	0.73	26	--	--
	1/13/1999	--		37.99	5.00	30.00	11.10	26.89	650	5.8	1	1.4	1.1	<20	--	--
	4/29/1999	--	i	37.99	5.00	30.00	11.05	26.94	<50	<0.3	<0.3	<0.3	<0.5	23/16	--	--
	1/15/2002	--		37.99	5.00	30.00	--	--	1,200	15	4.5	<0.5	<0.5	190	--	--
	4/24/2002	--	j	37.99	5.00	30.00	--	--	1,300	18	<10	<10	<10	170	--	--
	9/23/2002	P		37.99	5.00	30.00	12.15	25.84	1,440	11.2	0.73	<0.500	<1.50	228	1.6	6.9
	12/9/2002	P	b, d, j	37.99	5.00	30.00	12.20	25.79	1,770	8.08	0.694	2.47	3.79	529/902	6.2	6.7
	2/11/2003	P	e	37.99	5.00	30.00	10.79	27.20	1,100	<0.50	<0.50	<0.50	0.53	71	1.2	6.8
	6/27/2003	P		37.99	5.00	30.00	11.20	26.79	520	<0.50	<0.50	<0.50	<0.50	45	0.8	6.8
	9/4/2003	P		37.99	5.00	30.00	11.84	26.15	500	<0.50	<0.50	<0.50	<0.50	28	1.2	6.9
	11/17/2003	P		37.99	5.00	30.00	11.98	26.01	530	<0.50	<0.50	<0.50	<0.50	50	3.10	6.7
	03/01/2004	P	i	40.51	5.00	30.00	10.05	30.46	890	<0.50	<0.50	<0.50	<0.50	36	3.10	6.6
	06/02/2004	P		40.51	5.00	30.00	11.32	29.19	310	<0.50	<0.50	<0.50	<0.50	9.2	0.30	7.2
	09/16/2004	P		40.51	5.00	30.00	12.01	28.50	400	<0.50	<0.50	<0.50	<0.50	4.0	0.20	6.8
	12/07/2004	P		40.51	5.00	30.00	12.00	28.51	920	<5.0	<5.0	<5.0	<5.0	10	0.90	7.4
	03/02/2005	P		40.51	5.00	30.00	9.92	30.59	180	<0.50	<0.50	<0.50	<0.50	4.4	1.70	6.9
	06/20/2005	P		40.51	5.00	30.00	10.46	30.05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.12	6.7

Table 1
Groundwater Elevation and Analytical Data
 ARCO Service Station #5387
 20200 Hesperian Blvd., Hayward, 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-3	8/8/1986	--		37.77	5.00	30.00	10.61	27.16	7,450	510	549	409	1,380	--	--	---
	12/24/1991	--		37.77	5.00	30.00	15.60	22.17	6,800	450	10	610	45	--	--	---
	3/10/1992	--		37.77	5.00	30.00	12.90	24.87	11,000	2,500	75	400	560	--	--	---
	6/9/1992	--		37.77	5.00	30.00	13.60	24.17	16,000	2,000	69	1,300	2,600	--	--	---
	9/14/1992	--		37.77	5.00	30.00	14.78	22.99	14,000	630	<50	1,500	2,400	--	--	---
	11/12/1992	--		37.77	5.00	30.00	14.92	22.85	7,400	400	<25	860	330	--	--	---
	2/11/1993	--		37.77	5.00	30.00	11.65	26.12	8,600	580	<20	710	300	--	--	---
	4/14/1993	--		37.77	5.00	30.00	11.16	26.61	6,900	300	8.8	580	99	--	--	---
	8/12/1993	--		37.77	5.00	30.00	12.82	24.95	3,400	56	<5	190	<5	--	--	---
	10/26/1993	--		37.77	5.00	30.00	13.60	24.17	2,900	42	<10	76	<10	--	--	---
	2/17/1994	--		36.8	5.00	30.00	11.53	25.27	3,100	160	<10	36	8.6	--	--	---
	5/3/1994	--		36.8	5.00	30.00	11.36	25.44	2,300	44	<2.5	8	<2.5	--	--	---
	8/17/1994	--		36.87	5.00	30.00	12.38	24.49	1,900	7	<9.5	4.4	<5	--	--	---
	11/18/1994	--		36.87	5.00	30.00	11.93	24.94	909	1.1	<0.5	0.9	4	--	--	---
	9/26/1995	--		36.8	5.00	30.00	10.96	25.84	410	1.3	1.9	2.3	3.3	--	--	---
	12/6/1995	--		36.8	5.00	30.00	11.56	25.24	--	0.9	4.6	3	4.3	--	--	---
	2/14/1996	--		36.8	5.00	30.00	7.47	29.33	99	ND	0.49	0.46	ND	--	--	---
	10/29/1996	--		36.8	5.00	30.00	9.80	27.00	250	0.7	0.6	ND	ND	--	--	---
	1/29/1997	--		36.8	5.00	30.00	7.50	29.30	170	<0.3	<0.3	<0.3	<0.5	<20	--	---
	4/30/1997	--		36.8	5.00	30.00	12.10	24.70	<20	<0.3	<0.3	<0.3	<0.5	<50	--	---
	7/31/1997	--		36.8	5.00	30.00	9.90	26.90	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	10/22/1997	--		36.8	5.00	30.00	12.10	24.70	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	1/28/1998	--		36.8	5.00	30.00	7.50	29.30	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	4/22/1998	--		36.8	5.00	30.00	12.30	24.50	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	7/8/1998	--		36.8	5.00	30.00	8.30	28.50	<50	<0.3	<0.3	<0.3	<0.5	<5	--	---
	10/22/1998	--		36.8	5.00	30.00	9.10	27.70	<50	<0.3	<0.3	<0.3	<0.5	<5	--	---
	1/13/1999	--		36.8	5.00	30.00	9.50	27.30	<50	<0.3	<0.3	<0.3	<0.5	<20	--	---
	4/29/1999	--		36.8	5.00	30.00	5.93	30.87	<50	<0.3	0.35	<0.3	<0.5	<5	--	---
	1/15/2002	--		36.8	5.00	30.00	---	---	<50	<0.5	<0.5	<0.5	<0.5	7.9	--	---
	4/24/2002	--		36.8	5.00	30.00	---	---	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	---
	9/23/2002	P		36.8	5.00	30.00	10.30	26.50	<50.0	<0.500	<0.500	<0.500	<1.50	<0.500	1.0	6.9
	12/9/2002	P		36.8	5.00	30.00	10.38	26.42	<50.0	<0.500	<0.500	<0.500	<1.00	<5.00	1.7	6.7
	2/11/2003	P	e	36.8	5.00	30.00	8.85	27.95	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	6.7
	6/27/2003	--		36.8	5.00	30.00	9.12	27.68	<50	<0.50	<0.50	<0.50	<0.50	0.61	0.9	6.8

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #5387
20200 Hesperian Blvd., Hayward, 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-3	9/4/2003	--		36.8	5.00	30.00	9.85	27.05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	6.9
	11/17/2003	--	n	36.63	5.00	30.00	9.93	26.70	--	--	--	--	--	--	--	--
	03/01/2004	--	i, n	38.72	5.00	30.00	7.95	30.77	--	--	--	--	--	--	--	--
	06/02/2004	--	n	38.72	5.00	30.00	9.25	29.47	--	--	--	--	--	--	--	--
	09/16/2004	P		38.72	5.00	30.00	9.95	28.77	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.40	6.8
	12/07/2004	--	n	38.72	5.00	30.00	9.90	28.82	--	--	--	--	--	--	--	--
	03/02/2005	--	n	38.72	5.00	30.00	7.86	30.86	--	--	--	--	--	--	--	--
	06/20/2005	--	n	38.72	5.00	30.00	8.38	30.34	--	--	--	--	--	--	--	--

Table 1
Groundwater Elevation and Analytical Data
ARCO Service Station #5387
20200 Hesperian Blvd., Hayward, CA

SYMBOLS AND 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
GRO = Gasoline Range Organics, range C4-C12
GWE = Groundwater measured in feet above mean sea level
mg/L = Milligrams per liter
MTBE = Methyl tert butyl ether analyzed by EPA Method 8021B unless otherwise noted (prior to 2/11/03).
NP = Well not purged prior to sampling.
P = Well purged prior to sampling.
TOC = Top of casing measured in feet above mean sea level
TPH-g = Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015B Modified (prior to 2/11/03).
ug/L = Micrograms per liter

FOOTNOTES:

a = Well inaccessible
b = The analyte concentration may be artificially elevated due to coeluting compounds or components.
c = The closing calibration was outside acceptance limits by 2%. This should be considered in evaluating the results. The average % difference for all analytes met the 15% requirement and the QC suggests that the calibration linearity is not a factor.
d = Estimated value. The reported value exceeds the calibration range of the analysis.
e = TPH-g, BTEX, and MTBE analyzed by EPA method 8260 B beginning first quarter monitoring event (2/11/03)
f = Unable to gauge because the bolt was warped on the well head
h = Well MW-3 top of casing was lowered by 0.17 feet during repairs on 11/14/03.
i = Well Surveyed to NAVD'88 datum on 2/23/04.
j = Analyzed by EPA Method 8260B.
k = Obstruction in well removed.
l = Analytical results as measured by EPA Methods 8020 / 8260.
m = Well sampled semi-annually (1st and 3rd quarters).
n = Well sampled annually (3rd quarter).
o = Well dry.
p = No Purge Protocol well. Well was purged and sampled in error.

NOTES:

The data in this table prior to September 2002 was provided to URS by RM and its previous consultants. URS has not verified the accuracy of this data

Data for DO and pH were obtained through field measurements.

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPHg was changed to 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.

Top and bottom of screen depths for the following wells were derived from cross-sections since the well logs were not available: A-4, A-5, A-7, A-8, A-9, and AR-1.

Table 2

Fuel Additives Analytical Data

ARCO Service Station #5387

20200 Hesperian Blvd., Hayward, 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
A-4	2/11/2003	<100	<20	0.53	<0.50	<0.50	<0.50	--	--	
	6/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/4/2003	--	--	<0.50	--	--	--	--	--	
	03/01/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
	09/16/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/02/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
A-5	2/11/2003	<100	<20	0.97	<0.50	<0.50	<0.50	--	--	
	6/27/2003	<100	<20	0.98	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/4/2003	<100	<20	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/01/2004	<100	<20	0.77	<0.50	<0.50	<0.50	<0.50	<0.50	a
	09/16/2004	<100	<20	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/02/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
A-6	2/11/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	6/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/4/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/16/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
A-7	2/11/2003	<100	<20	21	<0.50	6.5	<0.50	--	--	
	6/27/2003	<100	<20	9.4	<0.50	<0.50	2.1	<0.50	<0.50	
	9/4/2003	<100	<20	3.4	<0.50	<0.50	0.86	<0.50	<0.50	
	11/17/2003	<100	<20	1.4	<0.50	<0.50	<0.50	--	--	b
	03/01/2004	<100	<20	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	a
	06/02/2004	<100	<20	0.92	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/16/2004	<100	<20	1.0	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/07/2004	<100	<20	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/02/2005	<100	<20	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/20/2005	<100	<20	6.0	<0.50	<0.50	<0.50	<0.50	<0.50	
A-8	2/11/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	6/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/4/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/01/2004	<100	<20	0.76	<0.50	<0.50	<0.50	<0.50	<0.50	a
	09/16/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/02/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2

Fuel Additives Analytical Data
ARCO Service Station #5387
20200 Hesperian Blvd., Hayward, 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
A-9	2/11/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	6/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/4/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/01/2004	<100	<20	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
	09/16/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/02/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
A-10	2/11/2003	<100	<20	1.9	<0.50	<0.50	<0.50	--	--	
	6/27/2003	<100	<20	0.99	<0.50	<0.50	<0.50	<0.50	<0.50	a
	9/4/2003	<100	<20	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/16/2004	<100	<20	0.84	<0.50	<0.50	<0.50	<0.50	<0.50	
AR-1	2/11/2003	<100	<20	4.7	<0.50	<0.50	<0.50	--	--	
	6/27/2003	<100	<20	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	a
	9/4/2003	--	--	--	--	--	--	--	--	
	11/17/2003	<100	<20	1.4	<0.50	<0.50	<0.50	--	--	b
	03/01/2004	<100	<20	8.6	<0.50	<0.50	<0.50	<0.50	<0.50	a
	06/02/2004	<100	<20	3.6	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/16/2004	<100	<20	3.2	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/07/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/02/2005	<100	<20	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/20/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
AR-2	2/11/2003	<100	<20	0.75	<0.50	<0.50	<0.50	--	--	
	6/27/2003	<100	<20	6	<0.50	<0.50	2.6	<0.50	<0.50	a
	9/4/2003	--	--	--	--	--	--	--	--	
	11/17/2003	<100	<20	0.86	<0.50	<0.50	<0.50	--	--	b
	03/01/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
	06/02/2004	<100	<20	4.3	<0.50	<0.50	2.2	<0.50	<0.50	
	09/16/2004	<100	<20	1.5	<0.50	<0.50	0.79	<0.50	<0.50	
	12/07/2004	<100	<20	1.2	<0.50	<0.50	0.57	<0.50	<0.50	
	03/02/2005	<100	<20	1.5	<0.50	<0.50	0.66	<0.50	<0.50	
	06/20/2005	<100	<20	0.97	<0.50	<0.50	0.53	<0.50	<0.50	
MW-1	2/11/2003	<100	<20	76	<0.50	<0.50	<0.50	--	--	
	6/27/2003	<1,000	<200	170	<0.50	<5.0	<5.0	<5.0	<5.0	

Table 2

Fuel Additives Analytical Data
 ARCO Service Station #5387
 20200 Hesperian Blvd., Hayward, 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	9/4/2003	--	--	--	--	--	--	--	--	
	11/17/2003	<100	<20	140	<0.50	<0.50	1.7	--	--	b
	03/01/2004	<100	<20	14	<0.50	<0.50	<0.50	<0.50	<0.50	a
	06/02/2004	<500	<100	250	<2.5	<2.5	<2.5	<2.5	<2.5	
	09/16/2004	<500	<100	170	<2.5	<2.5	<2.5	<2.5	<2.5	
	12/07/2004	<500	<100	180	<2.5	<2.5	<2.5	<2.5	<2.5	
	03/02/2005	<100	66	24	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/20/2005	<100	<20	2.2	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-2	2/11/2003	<100	<20	71	<0.50	<0.50	13	--	--	
	6/27/2003	<100	<20	45	<0.50	<0.50	5.4	<0.50	<0.50	
	9/4/2003	<100	<20	28	<0.50	<0.50	3.8	<0.50	<0.50	
	11/17/2003	<100	30	50	<0.50	<0.50	6.2	--	--	b
	03/01/2004	<100	49	36	<0.50	<0.50	6.2	<0.50	<0.50	a
	06/02/2004	<100	<20	9.2	<0.50	<0.50	1.7	<0.50	<0.50	
	09/16/2004	<100	<20	4.0	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/07/2004	<1,000	<200	10	<5.0	<5.0	<5.0	<5.0	<5.0	
	03/02/2005	<100	75	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/20/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-3	2/11/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	6/27/2003	<100	<20	0.61	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/4/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/16/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2

Fuel Additives Analytical Data ARCO Service Station #5387 20200 Hesperian Blvd., Hayward, CA

SYMBOLS AND ABBREVIATIONS:

--- = Data not available, analyzed, applicable, or sampled
< = 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 was outside of client contractual acceptance limits by 11.7% low. However, it was within method acceptance limits. The data should be useful for its intended purpose.
b = The result was reported with a possible low bias due to continuing calibration verification falling outside the acceptance criteria.

NOTES:

All fuel oxygenate compounds analyzed using EPA Method 8260B

Table 3

Groundwater Gradient Data
ARCO Service Station #5387
20200 Hesperian Blvd., Hayward, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
04/24/2002	-	-
09/23/2002	West	0.004
12/09/2002	West	0.003
02/11/2003	West	0.007
06/27/2003	West	0.005
09/04/2003	West	0.005
11/17/2003	West	0.003
03/01/2004	West	0.008
06/02/2004	West	0.005
09/16/2004	Southwest to West	0.004
12/07/2004	West	0.006
03/02/2005	West	0.01
06/20/2005	West	0.006

ATTACHMENT A
FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

Sampling Procedures

The sampling procedure for each well consists Second 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 # 050620-PM1 Date 6-20-05 Client ARCO 5387

Site 20200 Hesperian Blvd.

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
S MW-1	2					9.20	28.55	TOC
S MW-2	2					10.46	27.85	
MW-3	2					8.38	27.55	
A-4	3					11.42	34.63	
A-5	3					10.92	29.50	
A-6	3					10.90	34.34	
S A-7	3					12.30	34.95	
A-8	2					8.95	33.43	
A-9	2					10.75	33.25	
A-10	2					12.00	33.10	
S AR-1	6					9.55	33.69	
S AR-2	6					10.49	35.15	↓

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050020-PM1</u>	Station # <u>ARCO 5387</u>
Sampler: <u>PM</u>	Date: <u>0-20-05</u>
Well I.D.: <u>mw-1</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>28.55</u>	Depth to Water: <u>9.20</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	<u>0.16</u>	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> 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>3.1</u>	x	<u>3</u>	=	<u>9.3</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>1103</u>	<u>70.9</u>	<u>7.7</u>	<u>1004</u>	<u>3.1</u>	<u>brown</u>
<u>1113</u>	<u>71.3</u>	<u>7.6</u>	<u>1003</u>	<u>6.2</u>	<u>"</u>
<u>1123</u>	<u>71.5</u>	<u>7.5</u>	<u>997</u>	<u>9.3</u>	<u>"</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>9.3</u>
Sampling Time: <u>1130</u>	Sampling Date: <u>0-20-05</u>
Sample I.D.: <u>MW-1</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>GRO BTEX MTBE</u> DRO Other: <u>see sample</u>	
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: <u>.08</u> mg/L
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>0506020-PM1</u>	Station # <u>Arco 5387</u>
Sampler: <u>PM</u>	Date: <u>6-20-05</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>27.85</u>	Depth to Water: <u>10.46</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> 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>2.8</u>	x	<u>3</u>	=	<u>8.4</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>(µS)</u>)	Gals. Removed	Observations
<u>1218</u>	<u>70.1</u>	<u>6.7</u>	<u>983</u>	<u>2.8</u>	<u>brown</u>
<u>1221</u>	<u>69.8</u>	<u>6.8</u>	<u>908</u>	<u>5.6</u>	"
<u>1224</u>	<u>68.3</u>	<u>6.7</u>	<u>925</u>	<u>8.4</u>	"

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>8.4</u>
Sampling Time: <u>1230</u>	Sampling Date: <u>6-20-05</u>
Sample I.D.: <u>MW-2</u>	Laboratory: Pace <u>(Sequoia)</u> Other _____
Analyzed for: <u>(GRO) (BTEX) (MTBE)</u> DRO Other: <u>see slope</u>	
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: <u>0.12</u> mg/L
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050620-PM1</u>	Station # <u>ARCO 5387</u>
Sampler: <u>PM</u>	Date: <u>6-20-05</u>
Well I.D.: <u>A-7</u>	Well Diameter: 2 <u>(3)</u> 4 6 8
Total Well Depth: <u>34.95</u>	Depth to Water: <u>12.30</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: <u>Bailer</u> <u>Disposable Bailer</u> <u>Positive Air Displacement</u> <u>Electric Submersible</u> <u>Extraction Pump</u> Other: _____	Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> <u>Extraction Port</u> 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>8.4</u>	x	<u>3</u>	=	<u>25.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1328	70.5	7.5	1017	8.4	cloudy
1336	70.1	6.9	1020	16.8	clear
1344	70.1	6.8	1030	25.2	"

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>25.2</u>
Sampling Time: <u>1350</u>	Sampling Date: <u>6-20-05</u>
Sample I.D.: <u>A-7</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>GRO</u> BTEX MTBE DRO	Other: <u>see scope</u>
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: <u>0.17</u> mg/L
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050620-PM1	Station # ARCO 5387
Sampler: PM	Date: 6-20-05
Well I.D.: AR-1	Well Diameter: 2 3 4 (6) 8
Total Well Depth: 33.69	Depth to Water: 9.55
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: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> 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>35.5</u>	x	<u>3</u>	=	_____ Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1500	69.3	8.1	926		seen

Did well dewater? Yes <input type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: _____
Sampling Time: 1500	Sampling Date: 6-20-05
Sample I.D.: AR-1	Laboratory: Pace (Sequoia) Other _____
Analyzed for: (GRO) BTEX MTBE DRO	Other: see slope
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: 0.07 mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050620-PM1</u>	Station # <u>ARCO 5387</u>
Sampler: <u>PM</u>	Date: <u>6-20-05</u>
Well I.D.: <u>AR-2</u>	Well Diameter: 2 3 4 <u>(6)</u> 8
Total Well Depth: <u>35.15</u>	Depth to Water: <u>10.49</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> 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.

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

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1520	70.0	6.6	819		clear

Did well dewater? Yes <input type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: _____
Sampling Time: <u>1530</u>	Sampling Date: <u>6-20-05</u>
Sample I.D.: <u>AR-2</u>	Laboratory: Pace <u>(Sequoia)</u> Other _____
Analyzed for: <u>(GRO BTEX MTBE DRO)</u> Other: <u>see scope</u>	
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: <u>0.11</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 BLAINE TECH SERVICES, INC. (BTS), 1680 Rogers Avenue, San Jose, CA 95112 (phone [408] 573-0555). Blaine Tech Services, Inc. is authorized by BP GEM OIL COMPANY to recover, collect, apportion into loads the Non-Hazardous Well Purgewater that is drawn from wells at the BP GEM Oil Company facility indicated below and deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one BP GEM facility to the designated destination point; from one BP GEM facility to the designated destination point via another BP GEM facility; from a BP GEM facility to the designated destination point via the contractor's facility, or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of BP GEM Oil Company.

This Source Record BILL OF LADING was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the BP GEM Oil Company facility described below:

ARCO 5387

Station #

20200 Hesperian

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

43

added equip. 5
rinse water

any other adjustments

TOTAL GALS. RECOVERED 48

loaded onto BTS vehicle # 22

BTS event # 050620-PM1 time 1545 date 6/20/05

signature Paul Manne

REC'D AT time date

unloaded by 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.



1 July, 2005

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

RE: ARCO #5387, Hayward, CA
Work Order: MOF0767

Enclosed are the results of analyses for samples received by the laboratory on 06/21/05 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

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

Project:ARCO #5387, Hayward, CA
Project Number:G09JZ-0197
Project Manager:Scott Robinson

MOF0767
Reported:
07/01/05 14:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MOF0767-01	Water	06/20/05 11:30	06/21/05 16:25
MW-2	MOF0767-02	Water	06/20/05 12:30	06/21/05 16:25
A-7	MOF0767-03	Water	06/20/05 13:50	06/21/05 16:25
AR-1	MOF0767-04	Water	06/20/05 15:00	06/21/05 16:25
AR-2	MOF0767-05	Water	06/20/05 15:30	06/21/05 16:25
TB53876202005	MOF0767-06	Water	06/20/05 00:00	06/21/05 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.

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

 Project: ARCO #5387, Hayward, CA
 Project Number: G09JZ-0197
 Project Manager: Scott Robinson

 MOF0767
 Reported:
 07/01/05 14:22

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MOF0767-01) Water Sampled: 06/20/05 11:30 Received: 06/21/05 16:25									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5F28006	06/28/05	06/29/05	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	2.2	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>		77 %		60-135	"	"	"	"	
MW-2 (MOF0767-02) Water Sampled: 06/20/05 12:30 Received: 06/21/05 16:25									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5F28006	06/28/05	06/29/05	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	ND	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>		111 %		60-135	"	"	"	"	

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

 Project: ARCO #5387, Hayward, CA
 Project Number: G09JZ-0197
 Project Manager: Scott Robinson

 MOF0767
 Reported:
 07/01/05 14:22

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A-7 (MOF0767-03) Water Sampled: 06/20/05 13:50 Received: 06/21/05 16:25									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5F28006	06/28/05	06/29/05	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	6.0	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>		106 %	60-135	"	"	"	"	"	
AR-1 (MOF0767-04) Water Sampled: 06/20/05 15:00 Received: 06/21/05 16:25									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5F28006	06/28/05	06/29/05	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	ND	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>		106 %	60-135	"	"	"	"	"	

URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #5387, Hayward, CA Project Number: G09JZ-0197 Project Manager: Scott Robinson	MOF0767 Reported: 07/01/05 14:22
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**Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AR-2 (MOF0767-05) Water Sampled: 06/20/05 15:30 Received: 06/21/05 16:25									
tert-Amyl methyl ether	0.53	0.50	ug/l	1	5F28006	06/28/05	06/29/05	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	0.97	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>		92 %		60-135	"	"	"	"	



URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #5387, Hayward, CA Project Number: G09JZ-0197 Project Manager: Scott Robinson	MOF0767 Reported: 07/01/05 14:22
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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 5F28006 - EPA 5030B P/T / EPA 8260B

Blank (5F28006-BLK1)

Prepared & Analyzed: 06/28/05

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.65		"	5.00		113	60-135			

Blank (5F28006-BLK2)

Prepared & Analyzed: 06/28/05

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)	0.930	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.08		"	5.00		102	60-135			

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

 Project: ARCO #5387, Hayward, CA
 Project Number: G09JZ-0197
 Project Manager: Scott Robinson

 MOF0767
 Reported:
 07/01/05 14:22

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 5F28006 - EPA 5030B P/T / EPA 8260B
Laboratory Control Sample (5F28006-BS1)

Prepared & Analyzed: 06/28/05

tert-Amyl methyl ether	10.9	0.50	ug/l	10.0	109	80-115				
Benzene	9.47	0.50	"	10.0	95	65-115				
tert-Butyl alcohol	51.5	20	"	50.0	103	75-150				
Di-isopropyl ether	10.4	0.50	"	10.0	104	75-125				
1,2-Dibromoethane (EDB)	9.78	0.50	"	10.0	98	85-120				
1,2-Dichloroethane	10.1	0.50	"	10.0	101	85-130				
Ethanol	208	100	"	200	104	70-135				
Ethyl tert-butyl ether	9.07	0.50	"	10.0	91	75-130				
Ethylbenzene	8.78	0.50	"	10.0	88	75-135				
Methyl tert-butyl ether	9.26	0.50	"	10.0	93	65-125				
Toluene	9.46	0.50	"	10.0	95	85-120				
Xylenes (total)	27.0	0.50	"	30.0	90	85-125				

Surrogate: 1,2-Dichloroethane-d4

5.30

"

5.00

106

60-135

Laboratory Control Sample (5F28006-BS2)

Prepared & Analyzed: 06/28/05

Benzene	5.62	0.50	ug/l	6.08	92	65-115				
Ethylbenzene	7.33	0.50	"	7.84	93	75-135				
Methyl tert-butyl ether	8.59	0.50	"	9.60	89	65-125				
Toluene	35.9	0.50	"	32.9	109	85-120				
Xylenes (total)	38.7	0.50	"	38.5	101	85-125				
Gasoline Range Organics (C4-C12)	386	50	"	440	88	70-124				

Surrogate: 1,2-Dichloroethane-d4

5.15

"

5.00

103

60-135

Laboratory Control Sample Dup (5F28006-BSD1)

Prepared & Analyzed: 06/28/05

tert-Amyl methyl ether	11.8	0.50	ug/l	10.0	118	80-115	8	15		HL
Benzene	10.2	0.50	"	10.0	102	65-115	7	20		
tert-Butyl alcohol	52.7	20	"	50.0	105	75-150	2	25		
Di-isopropyl ether	11.4	0.50	"	10.0	114	75-125	9	15		
1,2-Dibromoethane (EDB)	10.2	0.50	"	10.0	102	85-120	4	15		
1,2-Dichloroethane	11.0	0.50	"	10.0	110	85-130	9	20		
Ethanol	223	100	"	200	112	70-135	7	35		
Ethyl tert-butyl ether	10.1	0.50	"	10.0	101	75-130	11	25		
Ethylbenzene	9.22	0.50	"	10.0	92	75-135	5	15		
Methyl tert-butyl ether	9.96	0.50	"	10.0	100	65-125	7	20		
Toluene	10.0	0.50	"	10.0	100	85-120	6	20		
Xylenes (total)	28.0	0.50	"	30.0	93	85-125	4	20		

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

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

 Project: ARCO #5387, Hayward, CA
 Project Number: G09JZ-0197
 Project Manager: Scott Robinson

 MOF0767
 Reported:
 07/01/05 14:22

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 5F28006 - EPA 5030B P/T / EPA 8260B
Laboratory Control Sample Dup (5F28006-BSD1)

Prepared & Analyzed: 06/28/05

<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.58		ug/l	5.00		112	60-135			
Matrix Spike (5F28006-MS1)	Source: MOF0674-13			Prepared & Analyzed: 06/28/05						
Benzene	164	10	ug/l	122	57	88	65-115			
Ethylbenzene	342	10	"	157	220	78	75-135			
Methyl tert-butyl ether	176	10	"	192	4.2	89	65-125			
Toluene	756	10	"	658	40	109	85-120			
Xylenes (total)	4630	10	"	770	4200	56	85-125			BB, LN
Gasoline Range Organics (C4-C12)	26700	1000	"	8800	18000	99	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.20		"	5.00		104	60-135			

Matrix Spike Dup (5F28006-MSD1)

Source: MOF0674-13

Prepared & Analyzed: 06/28/05

Benzene	173	10	ug/l	122	57	95	65-115	5	20	
Ethylbenzene	375	10	"	157	220	99	75-135	9	15	
Methyl tert-butyl ether	165	10	"	192	4.2	84	65-125	6	20	
Toluene	802	10	"	658	40	116	85-120	6	20	
Xylenes (total)	5080	10	"	770	4200	114	85-125	9	20	
Gasoline Range Organics (C4-C12)	28300	1000	"	8800	18000	117	70-124	6	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.69		"	5.00		94	60-135			



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

Project:ARCO #5387, Hayward, CA
Project Number:G09JZ-0197
Project Manager:Scott Robinson

MOF0767
Reported:
07/01/05 14:22

Notes and Definitions

HL Analyte recovery above established limit
BB, LN Sample > 4x spike concentration.
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: ARCO 5387 Analytical for QMR sampling
 BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 5387 > Historical/BL
 State or Lead Regulatory Agency: Alameda County Environmental Health Agency
 Requested Due Date (mm/dd/yy): _____

On-site Time: <u>0800</u>	Temp: <u>67°</u>
Off-site Time: <u>1530</u>	Temp: <u>80°</u>
Sky Conditions: <u>clear</u>	
Meteorological Events:	
Wind Speed: <u>10</u>	Direction: <u>SW</u>

Lab Name: <u>Sequoia</u>	BP/AR Facility No.: <u>5387</u>	Consultant/Contractor: <u>URS</u>
Address: <u>885 Jarvis Drive</u> <u>Morgan Hill, CA 95037</u>	BP/AR Facility Address: <u>20200 Hesperian Blvd., Hayward, CA 9454</u>	Address: <u>1333 Broadway, Suite 800</u> <u>Oakland, CA 94612</u>
Lab PM: <u>Lisa Race</u>	Site Lat/Long: <u>37.666474 / -122.117</u>	Consultant/Contractor Project No.: <u>38486576</u>
Tele/Fax: <u>408.782.8156 / 408.782.6308</u>	California Global ID No.: <u>T0600101368</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Enfos Project No.: <u>G09JZ-0197</u>	Tele/Fax: <u>510.874.3280 / 510.874.3268</u>
Address: <u>P.O. Box 6549</u> <u>Moraga, CA 94570</u>	Provision or RCOP: <u>Provision</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
Tele/Fax: <u>925.299.8891 / 925.299.8872</u>	Phase/WBS: <u>04 - Mon/Remed by Natural Attenuation</u>	E-mail BDD To: <u>Donna.Cosper@urscorp.com</u>
	Sub Phase/Task: <u>03 - Analytical</u>	Invoice to: <u>Atlantic Richfield Company</u>
	Cost Element: <u>05 - Subcontracted Costs</u>	

Lab Bottle Order No:				Matrix			Laboratory No.	Preservative					Requested Analysis					Sample Point Lat/Long and Comments			
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air		Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO/BTEX (8260)	MTBE, TAME, ETBE, DPE, TBA (8260)	EDB, 1,2-DCA (8260)	Ethanol (8260)					
1	MW-1	1130	6/20/05		W		01	3			X	X	X	X							
2	MW-2	1230	6/20/05				02	3													
3	A-7	1750	6/20/05				03	3													
4	AR-1	1500	6/20/05				04	3													
5	AR-2	1530	6/20/05				05	3													
6	TBS 5387 6/20/2005				W		06	2													ON HOLD
7																					
8																					
9																					
10																					

Sampler's Name: <u>PAUL MORRIS</u>	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>BTS</u>	<u>Paul Morris</u>	<u>6/20/05</u>	<u>3:25</u>	<u>Donna Cosper</u>	<u>6/20/05</u>	<u>3:25</u>
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions: _____

Custody Seals In Place Yes No Temp Blank Yes No Cooler Temperature on Receipt 6.0°F/10 Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Amer #5387
 REC. BY (PRINT) JAY
 WORKORDER: MO70747

DATE REC'D AT LAB: 6/21/05
 TIME REC'D AT LAB: 1625
 DATE LOGGED IN: 6-22-05

For Regulatory Purposes?
 DRINKING WATER YES / NO YES / NO
 WASTE WATER YES / NO YES / 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 / <input checked="" type="checkbox"/> Absent Intact / Broken*									<div style="font-size: 2em; font-weight: bold; transform: rotate(-45deg); display: inline-block;"> see COC JLA 6/21/05 </div>
2. Chain-of-Custody <input checked="" type="checkbox"/> Present / Absent*									
3. Traffic Reports or Packing List: Present / <input checked="" type="checkbox"/> Absent									
4. Airbill: Airbill / Sticker Present / <input checked="" type="checkbox"/> Absent									
5. Airbill #:									
6. Sample Labels: Present / Absent									
7. Sample IDs: <input checked="" type="checkbox"/> Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: <input checked="" type="checkbox"/> Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="checkbox"/> Yes / No*									
10. Sample received within hold time? <input checked="" type="checkbox"/> Yes / No*									
11. Adequate sample volume received? <input checked="" type="checkbox"/> Yes / No*									
12. Proper Preservatives used? <input checked="" type="checkbox"/> Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) <input checked="" type="checkbox"/> Yes / No*									
14. Temp Rec. at Lab: <u>6/21/05</u> Is temp 4 +/-2°C? Yes / No**									

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

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

PROBLEM CHAIN-OF-CUSTODY

DATE/TIME 6/22/05 0807
CLIENT URS
CLIENT SERVICES REP LR

DATE RECEIVED 6/21/05
TURN AROUND TIME ?
ANALYST PL

PROBLEM

TAT ?

MOFO 747

RESOLUTION

Client Instruction* 10 day TAT
see attached e-mail

Telephone Number of Client: e-mail

Client Contact for Instruction: P. Casper

Date and Time of Instruction: _____

Date & Time Form Given to Sample Control: 6/22/05 @ 11:40 AM

CLIENT SERVICES REP. SIGNATURE: [Signature]
DATE/TIME: 6/22/05

*If client does not return call within 24 hours, please route this form to the Laboratory Director.

ATTACHMENT C

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

Electronic Submittal Information

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SUCCESSFUL GEO_WELL CHECK - NO ERRORS

<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	7/5/2005 5:16:25 PM

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UPLOADING A GEO_WELL FILE

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

Submittal Title: 2Q05 BP/ARCO 5387 GeoWell

Submittal Date/Time: 7/5/2005 5:17:22 PM

Confirmation Number: 5834304630

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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>	7/11/2005 12:44:48 PM
<u>GLOBAL ID:</u>	T0600101368
<u>FILE UPLOADED:</u>	ARCO#5387-EDF- MOF0767.zip

No errors were found in your EDF upload file.

If you want to submit this file to the SWRCB, choose the "Upload EDD" option in the above menu and follow the instructions.

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 20200 HESPERIAN BLVD HAYWARD, CA 94541	<u>Regional Board - Case #: 01-1481</u> SAN FRANCISCO BAY RWQCB (REGION 2) - (RDB) <u>Local Agency (lead agency) -</u> <u>Case #: 817</u> ALAMEDA COUNTY LOP - (AG)
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SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	5
# FIELD POINTS WITH DETECTIONS	3
# 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 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 1
 LAB BLANK DETECTIONS 1
 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

<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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Confirmation Number: 9786164641
Date/Time of Submittal: 7/11/2005 12:46:09 PM
Facility Global ID: T0600101368
Facility Name: ARCO
Submittal Title: 2Q05 QMR EDF BP/ARCO 5387
Submittal Type: GW Monitoring Report

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

ARCO 20200 HESPERIAN BLVD HAYWARD, CA 94541	Regional Board - Case #: 01-1481 SAN FRANCISCO BAY RWQCB (REGION 2) - (RDB) Local Agency (lead agency) - Case #: 817 ALAMEDA COUNTY LOP - (AG)
--	---

CONF #	TITLE	QUARTER
9786164641	2Q05 QMR EDF BP/ARCO 5387	Q2 2005
SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	7/11/2005	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	5
# FIELD POINTS WITH DETECTIONS	3
# 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	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	1
LAB BLANK DETECTIONS	1

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

<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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