



Atlantic Richfield Company
(a BP affiliated company)

P.O. Box 1257
San Ramon, CA 94583
Phone: (925) 275-3801
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24 April 2007

Re: First Quarter 2007 Ground-Water Monitoring Report
Atlantic Richfield Company Station #4494
566 Hegenberger Road
Oakland, California
ACEH Case #RO0000204

RECEIVED

1:35 pm, May 01, 2007

Alameda County
Environmental Health



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

Submitted by:

Paul Supple
Environmental Business Manger

First Quarter 2007 Ground-Water Monitoring Report
Atlantic Richfield Company Station #4494
566 Hegenberger Road
Oakland, California

Prepared for

Mr. Paul Supple
Environmental Business Manager
Atlantic Richfield Company
P.O. Box 1257
San Ramon, California 94583

Prepared by



1324 Mangrove Avenue, Suite 212
Chico, California 95926
(530) 566-1400
www.broadbentinc.com

24 April 2007

Project No. 06-08-623

24 April 2007

Project No. 06-08-623

Atlantic Richfield Company
P.O. Box 1257
San Ramon, CA 94583
Submitted via ENFOS

Attn.: Mr. Paul Supple

Re: First Quarter 2007 Ground-Water Monitoring Report, Atlantic Richfield Company (a BP affiliated company) Station #4494, 566 Hegenberger Road, Oakland, California;
ACEH Case #RO0000204

Dear Mr. Supple:

Attached is the *First Quarter 2007 Ground-Water Monitoring Report* for Atlantic Richfield Company Station #4494 (herein referred to as Station #4494) located at 566 Hegenberger Road, Oakland, California (Property). This report presents results of ground-water monitoring conducted at Station #4494 during the First Quarter 2007.

Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

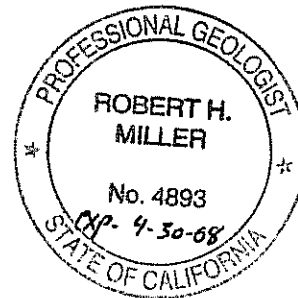
BROADBENT & ASSOCIATES, INC.



Thomas A. Venus, P.E.
Senior Engineer



Robert H. Miller, P.G., C.HG.
Principal Hydrogeologist



Enclosures

cc: Mr. Steven Plunkett, Alameda County Environmental Health (Submitted via ACEH ftp site)
Electronic copy uploaded to GeoTracker

STATION #4494 GROUND-WATER MONITORING REPORT

Facility: #4494	Address:	566 Hegenberger Road, Oakland, California
Environmental Business Manager:		Mr. Paul Supple
Consulting Co./Contact Persons:		Broadbent & Associates, Inc.(BAI)/Rob Miller & Tom Venus (530) 566-1400
Consultant Project No.:		06-08-623
Primary Agency/Regulatory ID No.:		Alameda County Environmental Health (ACEH) ACEH Case #RO0000204
Facility Permits/Permitting Agency:		NA

WORK PERFORMED THIS QUARTER (First Quarter 2007):

1. Prepared and submitted Fourth Quarter 2006 status report. Work performed by Broadbent & Associates, Inc (BAI).
2. Conducted ground-water monitoring/sampling for First Quarter 2007. Work performed on 6 March 2007 by Stratus Environmental, Inc (Stratus).
3. In accordance with 6 February 2007 letter request to accommodate case closure consideration, BP notified ACEH that BP is the sole land owner of the Property.

WORK PROPOSED FOR NEXT QUARTER (Second Quarter 2007):

1. Prepared and submitted this First Quarter 2007 Ground-Water Monitoring Report (contained herein).
2. No environmental field work is currently anticipated during the Second Quarter 2007.

SUMMARY:

Current phase of project:	Ground-water monitoring/sampling
Frequency of ground-water monitoring:	Semi-Annually (1Q, 3Q) = MW-1, MW-3 through MW-7, and RW-1
Frequency of ground-water sampling:	Semi-Annually (1Q, 3Q) = MW-1 and MW-6 Annually (3Q) = MW-3 through MW-5, MW-7, and RW-1
Is free product (FP) present on-site:	No
Bulk soil removed to date:	1,550 cubic yards
Current remediation techniques:	None
Depth to ground water (below TOC):	5.35 ft (MW-6) to 8.95 ft (MW-3)
General ground-water flow direction:	Northwest
Approximate hydraulic gradient:	0.02 ft/ft

DISCUSSION:

Case closure for Station #4494 has been requested and is currently awaiting review from the Alameda County Environmental Health Department before submission to the Regional Water Quality Control Board. First quarter 2007 ground-water monitoring and sampling was conducted at Station #4494 on 6 March 2007 by Stratus. Water levels were gauged in the seven wells at the Site. No irregularities were noted during water level gauging. Depth to water measurements ranged from 5.35 ft at MW-6 to 8.95 ft at MW-3. Resulting ground-water surface elevations ranged from 5.23 ft above mean sea level in well MW-4 to 1.76 ft at well MW-7. Water level elevations were between historic minimum and maximum ranges for each well since 22 September 2003 (since the well elevations were resurveyed), as summarized in Table 1. Co-monitored water level elevations from the nearby Shell-branded Service

Station at 540 Hegenberger Road were not used to create elevation contours because the data could not be obtained. Water level elevations from Station #4494 yielded a potentiometric ground-water flow direction and gradient to the northwest at approximately 0.02 ft/ft, within the range of historical data (see Table 3). Ground-water monitoring field data sheets are provided within Appendix A. Measured depths to ground-water and respective ground-water elevations are summarized in Table 1. Potentiometric ground-water elevation contours are presented in Drawing 1.

Consistent with the current ground-water sampling schedule, water samples were collected from wells MW-1 and MW-6. Well MW-1 purged dry before three casing volumes were removed. No other irregularities were reported during sampling. Samples were submitted under chain-of-custody protocol to Test America Analytical Testing Corporation (Morgan Hill, California), for analysis of Gasoline Range Organics (GRO, C4-12) by the LUFT GCMS Method; for Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by EPA Method 8260B; and tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Di-isopropyl ether (DIPE), 1,2-Dibromomethane (EDB), 1,2-Dichloroethane (1,2-DCA), Ethanol, Ethyl tert-butyl ether (ETBE), and Methyl tert-butyl ether (MTBE) by EPA Method 8260B. No significant irregularities were encountered during laboratory analysis of the samples. MTBE was detected above the laboratory reporting limit in each of the two wells sampled at concentrations up to 1.8 micrograms per liter ($\mu\text{g/L}$) in well MW-1. The remaining analytes were not detected above their laboratory reporting limits in the two wells sampled this quarter. Detected analyte concentrations were within the historic minimum and maximum ranges recorded for each well. Historic laboratory analytical results are summarized in Table 1, Table 2, and Appendix B. A copy of the Laboratory Analytical Report, including chain of custody documentation is provided in Appendix A. The co-monitored elevation and analytical data for the nearby Shell-branded service station at 540 Hegenberger Road could not be obtained for First Quarter 2007.

First Quarter 2007 groundwater monitoring data (GEO_WELL) and laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 Database. Upload confirmation pages have been provided in Appendix C.

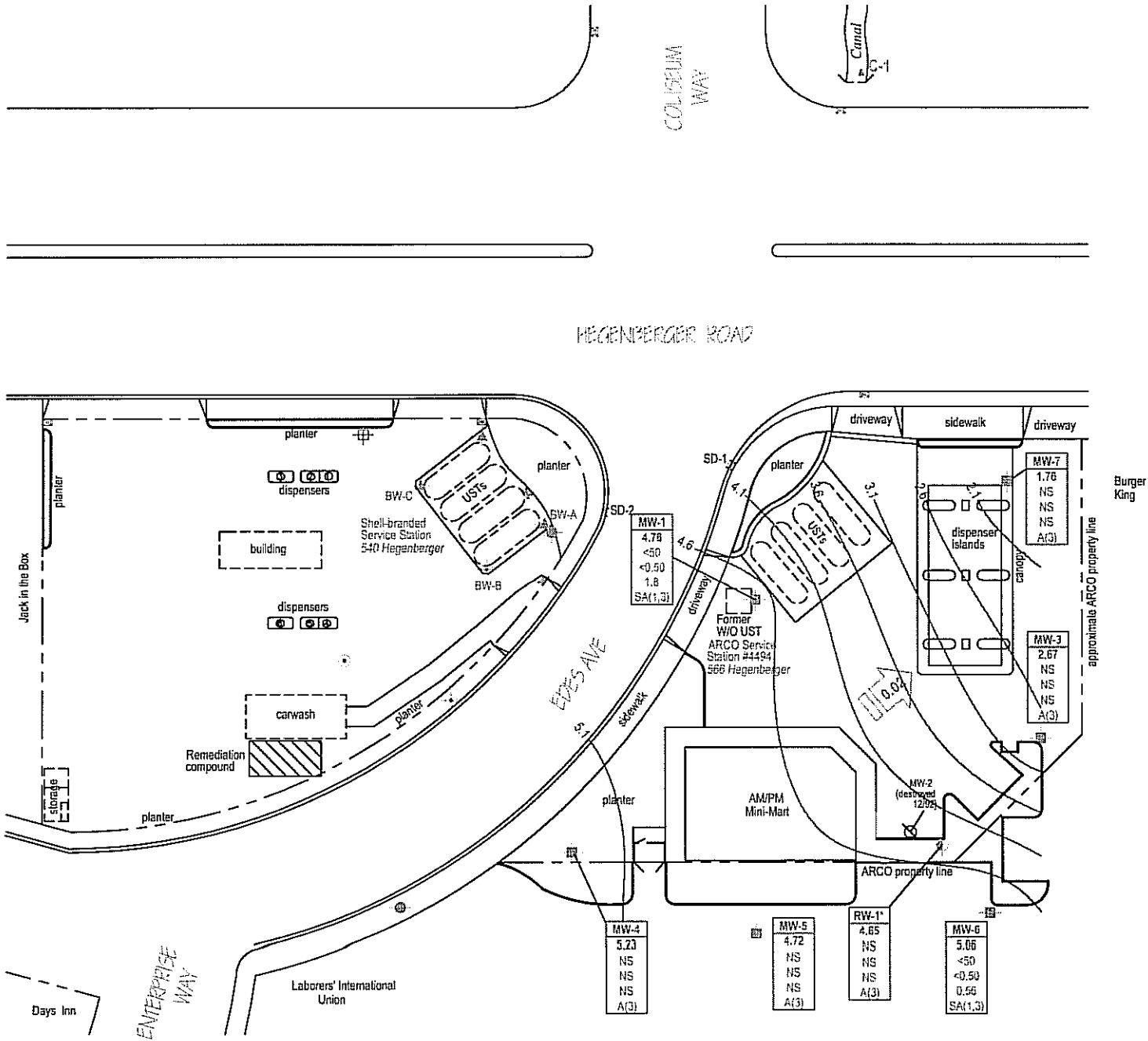
CLOSURE:

The findings presented in this report are based upon: observations of Stratus field personnel (see Appendix A), the points investigated, and results of laboratory tests performed by Test America (Morgan Hill, California). Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No other warranty, expressed or implied was made. This report has been prepared for the exclusive use of Atlantic Richfield Company. It is possible that variations in soil or ground-water conditions could exist beyond points explored in this investigation. Also, changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

ATTACHMENTS:

- Drawing 1. Ground-Water Elevation Contour and Analytical Summary Map, 6 March 2007, Station #4494, 566 Hegenberger Road, Oakland, California
- Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #4494, 566 Hegenberger Rd, Oakland, CA

- Table 2. Summary of Fuel Additives Analytical Data, Station #4494, 566 Hegenberger Rd, Oakland, CA
- Table 3. Historical Ground-Water Flow Direction and Gradient, Station #4494, 566 Hegenberger Rd, Oakland, CA
- Appendix A. Stratus Ground-Water Sampling Data Package (Includes Field Data Sheets and Laboratory Analytical Report with Chain of Custody Documentation)
- Appendix B. Historical Ground-Water Data
- Appendix C. GeoTracker Upload Confirmations



LEGEND

- ⊙ Shell monitoring well
- ▲ Tank backfill well
- ⊕ Well used for ground-water extraction
- ⊞ ARCO monitoring well
- ⊠ ARCO recovery well
- ▲ Canal sampling location

Well designation

Well	ELEV	GRD	Benzene	MTBE	Q or A	Sampling frequency
SA(1,3)						Sampled semi-annually, 1st & 3rd quarters
.						Well not used to generate contours
<						Not detected at or above specified laboratory reporting limits
NS						Not sampled
A(3)						Sampled annually during 3rd quarter

0.02 Approximate ground-water flow direction and gradient (ft/ft)

— 3.1 Ground-water elevation contour (ft MSL) (dashed where estimated)

NOTES: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



BROADBENT & ASSOCIATES, INC.
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
 1324 Mangrove Ave. Suite 212. Chico, California 95926
 Project No.: 06-02-623 Date: 4/20/07

Station #4494
 566 Hegenberger Road
 Oakland, California

Ground-Water Elevation Contour
 and Analytical Summary Map
 6 March 2007

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

Station #4494, 566 Hegenberger Rd., Oakland, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)					DO (mg/L)	pH	
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes			MTBE
MW-1															
6/20/2000	--	a	106.10	13.0	--	7.02	99.08	<1,000	<10	<10	<10	<20	4000/ 15000	--	--
9/28/2000	--	a	106.10	13.0	--	7.07	99.03	<500	<5.0	<5.0	<5.0	<5.0	3000/ 18800	--	--
12/17/2000	--		106.10	13.0	--	6.95	99.15	<50	<0.5	<0.5	<0.5	<0.5	10,600	--	--
3/28/2001	--		106.10	13.0	--	6.88	99.22	<500	<5.0	<5.0	<5.0	<5.0	16,900	--	--
6/21/2001	--		106.10	13.0	--	7.18	98.92	<1,000	<10	<10	<10	<10	3,400	--	--
9/23/2001	--	a	106.10	13.0	--	7.11	98.99	<1,000	<10	<10	<10	<10	2200/1800	--	--
12/31/2001	--		106.10	13.0	--	6.91	99.19	<5,000	<50	<50	<50	<50	14,000	--	--
3/14/2002	--		106.10	13.0	--	6.85	99.25	<5,000	<50	<50	<50	<50	6,200	--	--
4/17/2002	--		106.10	13.0	--	5.89	100.21	<5,000	<50	<50	<50	<50	4,500	--	--
8/8/2002	--	a, b	106.10	13.0	--	7.19	98.91	230	<2.0	<2.0	<2.0	<2.0	660/440	4.5	7.8
12/12/2002	--	a, d	106.10	13.0	--	7.28	98.82	630	<5.0	<5.0	<5.0	<5.0	1300/830	1.9	7.6
3/20/2003	--	c	106.10	13.0	--	6.91	99.19	1,100	<5.0	<5.0	<5.0	<5.0	780	2.2	8.5
6/23/2003	--		106.10	13.0	--	7.61	98.49	530	<5.0	<5.0	<5.0	<5.0	260	1.2	7.6
9/22/2003	--		11.36	13.0	--	7.78	3.58	<50	<0.50	<0.50	<0.50	<0.50	17	3.5	7.7
12/03/2003	P		11.36	13.0	--	7.90	3.46	410	2.6	9.8	<2.5	11	260	2.1	6.9
03/18/2004	P		11.36	13.0	--	6.68	4.68	<250	<2.5	<2.5	<2.5	<2.5	130	2.4	7.0
05/25/2004	P		11.36	13.0	--	7.55	3.81	<250	<2.5	<2.5	<2.5	<2.5	120	1.3	7.0
09/22/2004	P		11.36	13.0	--	6.78	4.58	150	1.5	<1.0	<1.0	<1.0	140	3.8	7.12
12/22/2004	P		11.36	13.0	--	6.44	4.92	<500	<5.0	<5.0	<5.0	<5.0	74	1.7	6.8
02/23/2005	P		11.36	13.0	--	7.03	4.33	<50	<0.50	<0.50	<0.50	<0.50	6.0	2.1	7.2
06/27/2005	P		11.36	13.0	--	6.66	4.70	<250	<2.5	<2.5	<2.5	<2.5	150	3.6	7.4
08/31/2005	P		11.36	13.0	--	6.67	4.69	<50	<0.50	<0.50	<0.50	<0.50	0.82	3.8	7.2
03/08/2006	P	i	11.36	13.0	--	6.27	5.09	<50	<0.50	<0.50	<0.50	<0.50	6.8	3.9	7.5
9/27/2006	P		11.36	13.0	--	7.12	4.24	<50	<0.50	<0.50	<0.50	<0.50	2.8	3.1	7.1
3/6/2007	NP		11.36	13.0	--	6.58	4.78	<50	<0.50	<0.50	<0.50	<0.50	1.8	2.89	6.95
MW-3															
6/20/2000	--	a	106.29	7.00	--	9.18	97.11	<50	<0.5	<0.5	<0.5	<1.0	27/27	--	--
9/28/2000	--	a	106.29	7.00	--	9.33	96.96	<50	<0.5	<0.5	<0.5	<1.0	4.3/<2.0	--	--
12/17/2000	--		106.29	7.00	--	9.31	96.98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
3/28/2001	--		106.29	7.00	--	9.23	97.06	<50	<0.5	<0.5	<0.5	<0.5	7.42	--	--

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

Station #4494, 566 Hegenberger Rd., Oakland, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-3 Cont.															
6/21/2001	--		106.29	7.00	--	9.58	96.71	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
9/23/2001	--		106.29	7.00	--	9.76	96.53	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
12/31/2001	--		106.29	7.00	--	8.78	97.51	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
3/14/2002	--		106.29	7.00	--	9.25	97.04	<50	<0.5	<0.5	<0.5	<0.5	4.0	--	--
4/17/2002	--		106.29	7.00	--	8.44	97.85	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
8/8/2002	--		106.29	7.00	--	9.63	96.66	<50	<0.5	<0.5	<0.5	<0.5	<2.5	2.6	7.9
12/12/2002	--	d	106.29	7.00	--	9.51	96.78	<50	<0.5	<0.5	<0.5	<0.5	<2.5	3.0	6.8
3/20/2003	--	e	106.29	7.00	--	9.40	96.89	<50	<0.50	<0.50	<0.50	<0.50	6.1	1.2	7.0
6/23/2003	--		106.29	7.00	--	9.36	96.93	<50	<0.50	<0.50	<0.50	<0.50	5.2	0.9	8.2
9/22/2003	--		11.62	7.00	--	9.48	2.14	<50	<0.50	<0.50	<0.50	<0.50	3.9	1.4	7.9
12/03/2003	--	g	11.62	7.00	--	9.44	2.18	--	--	--	--	--	--	--	--
03/18/2004	NP		11.62	7.00	--	8.76	2.86	<50	<0.50	<0.50	<0.50	<0.50	4.6	0.8	7.3
05/25/2004	--	g	11.62	7.00	--	9.55	2.07	--	--	--	--	--	--	--	--
09/22/2004	NP		11.62	7.00	--	9.44	2.18	<50	<0.50	<0.50	<0.50	<0.50	4.7	--	--
12/22/2004	--		11.62	7.00	--	9.06	2.56	--	--	--	--	--	--	--	--
02/23/2005	NP		11.62	7.00	--	8.75	2.87	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	8.2
06/27/2005	--		11.62	7.00	--	9.35	2.27	--	--	--	--	--	--	--	--
08/31/2005	NP		11.62	7.00	--	9.31	2.31	<50	<0.50	<0.50	<0.50	<0.50	1.3	0.5	7.7
03/08/2006	--		11.62	7.00	--	9.03	2.59	--	--	--	--	--	--	--	--
9/27/2006	NP		11.62	7.00	--	9.40	2.22	<50	<0.50	<0.50	<0.50	<0.50	2.8	1.5	7.4
3/6/2007	--		11.62	7.00	--	8.95	2.67	--	--	--	--	--	--	--	--
MW-4															
6/20/2000	--		107.40	7.0	--	8.49	98.91	<50	<0.5	<0.5	<0.5	<1.0	<10	--	--
9/28/2000	--		107.40	7.0	--	8.70	98.70	<50	<0.5	<0.5	<0.5	<1.0	<2.5	--	--
12/17/2000	--		107.40	7.0	--	8.53	98.87	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
3/28/2001	--		107.40	7.0	--	8.59	98.81	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
6/21/2001	--		107.40	7.0	--	8.79	98.61	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
9/23/2001	--		107.40	7.0	--	8.67	98.73	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
12/31/2001	--		107.40	7.0	--	8.03	99.37	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
3/14/2002	--		107.40	7.0	--	8.48	98.92	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

Station #4494, 566 Hegenberger Rd., Oakland, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)					DO (mg/L)	pH	
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes			MTBE
MW-4 Cont.															
4/17/2002	--		107.40	7.0	--	7.79	99.61	<50	<0.5	<0.5	<0.5	<0.5	5.6	--	--
8/8/2002	--		107.40	7.0	--	8.90	98.50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	4.5	8.0
12/12/2002	--	d	107.40	7.0	--	9.07	98.33	<50	<0.5	<0.5	<0.5	<0.5	<2.5	5.6	6.2
3/20/2003	--	e	107.40	7.0	--	8.85	98.55	<50	<0.50	<0.50	<0.50	0.50	<0.50	4.8	7.8
6/23/2003	--		107.40	7.0	--	9.26	98.14	<50	<0.50	<0.50	<0.50	<0.50	<0.50	6.3	7.5
9/22/2003	--		13.18	7.0	--	9.22	3.96	<50	<0.50	<0.50	<0.50	<0.50	<0.50	7.4	8.0
12/03/2003	--	g	13.18	7.0	--	9.48	3.70	--	--	--	--	--	--	--	--
03/18/2004	NP		13.18	7.0	--	8.32	4.86	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.5	8.4
05/25/2004	--	g	13.18	7.0	--	9.03	4.15	--	--	--	--	--	--	--	--
09/22/2004	NP		13.18	7.0	--	8.62	4.56	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.7	--
12/22/2004	--		13.18	7.0	--	7.80	5.38	--	--	--	--	--	--	--	--
02/23/2005	NP		13.18	7.0	--	7.74	5.44	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	7.3
06/27/2005	--		13.18	7.0	--	8.38	4.80	--	--	--	--	--	--	--	--
08/31/2005	NP		13.18	7.0	--	8.15	5.03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	6.9
03/08/2006	--		13.18	7.0	--	7.84	5.34	--	--	--	--	--	--	--	--
9/27/2006	NP		13.18	7.0	--	8.59	4.59	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.1	6.6
3/6/2007	--		13.18	7.0	--	7.95	5.23	--	--	--	--	--	--	--	--
MW-5															
6/20/2000	--		105.19	8.0	--	7.65	97.54	<50	<0.5	<0.5	<0.5	<1.0	<10	--	--
9/28/2000	--		105.19	8.0	--	6.82	98.37	<50	<0.5	<0.5	<0.5	<1.0	<2.5	--	--
12/17/2000	--		105.19	8.0	--	6.50	98.69	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
3/28/2001	--		105.19	8.0	--	6.34	98.85	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
6/21/2001	--		105.19	8.0	--	7.88	97.31	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
9/23/2001	--		105.19	8.0	--	6.98	98.21	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
12/31/2001	--		105.19	8.0	--	5.01	100.18	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
3/14/2002	--		105.19	8.0	--	5.93	99.26	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
4/17/2002	--		105.19	8.0	--	5.37	99.82	<50	<0.5	<0.5	<0.5	<0.5	8.5	--	--
8/8/2002	--	b	105.19	8.0	--	6.85	98.34	<50	<0.5	<0.5	<0.5	<0.5	<2.5	0.7	7.3
12/12/2002	--	d	105.19	8.0	--	6.53	98.66	<50	2.2	4.7	1.3	6.8	<2.5	1.3	7.0
3/20/2003	--	e	105.19	8.0	--	6.40	98.79	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.7	7.1

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

Station #4494, 566 Hegenberger Rd., Oakland, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)					DO (mg/L)	pH		
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes			MTBE	
MW-5 Cont.																
6/23/2003	--		105.19	8.0	--	6.72	98.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	7.2	
9/22/2003	--	f	10.63	8.0	--	6.76	3.87	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	7.2	
12/03/2003	--	g	10.63	8.0	--	6.56	4.07	--	--	--	--	--	--	--	--	
03/18/2004	P		10.63	8.0	--	5.98	4.65	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.7	7.3	
05/25/2004	--	g	10.63	8.0	--	6.77	3.86	--	--	--	--	--	--	--	--	
09/22/2004	P		10.63	8.0	--	6.90	3.73	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	7.17	
12/22/2004	--		10.63	8.0	--	6.18	4.45	--	--	--	--	--	--	--	--	
02/23/2005	P		10.63	8.0	--	5.36	5.27	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	7.2	
06/27/2005	--		10.63	8.0	--	6.26	4.37	--	--	--	--	--	--	--	--	
08/31/2005	P		10.63	8.0	--	6.70	3.93	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	0.8	7.2
03/08/2006	--		10.63	8.0	--	5.12	5.51	--	--	--	--	--	--	--	--	
9/27/2006	P		10.63	8.0	--	6.69	3.94	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	7.2	
3/6/2007	--		10.63	8.0	--	5.91	4.72	--	--	--	--	--	--	--	--	
MW-6																
6/20/2000	--		105.07	8.0	--	6.24	98.83	<50	<0.5	<0.5	<0.5	<1.0	<1.0	--	--	
9/28/2000	--		105.07	8.0	--	6.45	98.62	<50	<0.5	<0.5	<0.5	<1.0	<2.5	--	--	
12/17/2000	--		105.07	8.0	--	6.26	98.81	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	
3/28/2001	--		105.07	8.0	--	6.10	98.97	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	
6/21/2001	--		105.07	8.0	--	7.68	97.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	
9/23/2001	--		105.07	8.0	--	6.72	98.35	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	
12/23/2001	--		105.07	8.0	--	4.68	100.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	
3/14/2002	--		105.07	8.0	--	5.55	99.52	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	
4/17/2002	--		105.07	8.0	--	4.96	100.11	<50	<0.5	<0.5	<0.5	<0.5	7.0	--	--	
8/8/2002	--		105.07	8.0	--	6.46	98.61	<50	<0.5	<0.5	<0.5	<0.5	<2.5	0.7	7.3	
12/12/2002	--	d	105.07	8.0	--	6.18	98.89	65	3.3	8.4	2.7	14	<2.5	1.1	6.9	
3/20/2003	--	e	105.07	8.0	--	6.18	98.89	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.2	7.0	
6/23/2003	--		105.07	8.0	--	6.15	98.92	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.0	7.1	
9/22/2003	--	f	10.41	8.0	--	6.43	3.98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.5	7.0	
12/03/2003	--	g	10.41	8.0	--	6.12	4.29	--	--	--	--	--	--	--	--	
03/18/2004	P		10.41	8.0	--	5.40	5.01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.9	7.2	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

Station #4494, 566 Hegenberger Rd., Oakland, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-6 Cont.															
05/25/2004	--	g	10.41	8.0	--	6.30	4.11	--	--	--	--	--	--	--	--
09/22/2004	P		10.41	8.0	--	6.43	3.98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	7.01
12/22/2004	--		10.41	8.0	--	5.73	4.68	--	--	--	--	--	--	--	--
02/23/2005	P		10.41	8.0	--	4.61	5.80	<50	<0.50	<0.50	<0.50	<0.50	5.0	2.6	7.1
06/27/2005	--		10.41	8.0	--	5.78	4.63	--	--	--	--	--	--	--	--
08/31/2005	P		10.41	8.0	--	6.19	4.22	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.9	7.0
03/08/2006	P	J	10.41	8.0	--	4.59	5.82	200	<0.50	<0.50	<0.50	<0.50	<0.50	2.8	7.3
9/27/2006	P		10.41	8.0	--	6.13	4.28	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	7.1
3/6/2007	P		10.41	8.0	--	5.35	5.06	<50	<0.50	<0.50	<0.50	<0.50	0.56	1.77	7.49
MW-7															
6/20/2000	--	a	105.52	9.0	--	8.65	96.87	<50	<0.5	<0.5	<0.5	<1.0	13/13	--	--
9/28/2000	--	a	105.52	9.0	--	8.75	96.77	<50	<0.5	<0.5	<0.5	<1.0	136/261	--	--
12/17/2000	--		105.52	9.0	--	8.62	96.90	<50	<0.5	<0.5	<0.5	<0.5	27.1	--	--
3/28/2001	--		105.52	9.0	--	8.66	96.86	<50	<0.5	<0.5	<0.5	<0.5	51.5	--	--
6/21/2001	--		105.52	9.0	--	8.84	96.68	<50	<0.5	<0.5	<0.5	<0.5	53	--	--
9/23/2001	--	a	105.52	9.0	--	8.75	96.77	<50	<0.5	<0.5	<0.5	<0.5	35/21	--	--
12/23/2001	--		105.52	9.0	--	7.79	97.73	<50	<0.5	<0.5	<0.5	<0.5	440	--	--
3/14/2002	--		105.52	9.0	--	8.30	97.22	<50	<0.5	<0.5	<0.5	<0.5	18	--	--
4/17/2002	--		105.52	9.0	--	7.43	98.09	<50	<0.5	<0.5	<0.5	<0.5	67	--	--
8/8/2002	--	a, b	105.52	9.0	--	8.61	96.91	55	<0.5	<0.5	<0.5	<0.5	130/100	1.1	7.1
12/12/2002	--	a, d, h	105.52	9.0	--	8.55	96.97	75	<0.5	<0.5	<0.5	<0.5	160/130	1.2	7.0
3/20/2003	--	c	105.52	9.0	--	8.38	97.14	<50	<0.50	<0.50	<0.50	<0.50	32	2.2	7.2
6/23/2003	--		105.52	9.0	--	8.37	97.15	<50	<0.50	<0.50	<0.50	<0.50	14	0.8	7.1
9/22/2003	--	f	10.51	9.0	--	8.95	1.56	<50	<0.50	<0.50	<0.50	<0.50	5.3	2.2	7.2
12/03/2003	P		10.51	9.0	--	8.86	1.65	<50	<0.50	<0.50	<0.50	<0.50	4.2	0.1	7.2
03/18/2004	P		10.51	9.0	--	8.03	2.48	<50	<0.50	<0.50	<0.50	<0.50	3.0	1.0	7.2
05/25/2004	P		10.51	9.0	--	8.37	2.14	<50	<0.50	<0.50	<0.50	<0.50	4.1	0.7	7.1
09/22/2004	P		10.51	9.0	--	8.90	1.61	<50	<0.50	<0.50	<0.50	<0.50	2.3	0.9	7.27
12/22/2004	P		10.51	9.0	--	7.90	2.61	<50	<0.50	<0.50	<0.50	<0.50	2.7	2.8	7.2
02/23/2005	P		10.51	9.0	--	8.23	2.28	180	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	7.1

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

Station #4494, 566 Hegenberger Rd., Oakland, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-7 Cont.															
06/27/2005	P		10.51	9.0	--	8.24	2.27	<50	<0.50	<0.50	<0.50	<0.50	4.2	0.1	6.7
08/31/2005	P		10.51	9.0	--	8.27	2.24	<50	<0.50	<0.50	<0.50	<0.50	2.5	1.6	7.2
03/08/2006	--		10.51	9.0	--	7.73	2.78	--	--	--	--	--	--	--	--
9/27/2006	P		10.51	9.0	--	8.31	2.20	<50	<0.50	<0.50	<0.50	<0.50	3.7	1.1	7.3
3/6/2007	--		10.51	9.0	--	8.75	1.76	--	--	--	--	--	--	--	--
RW-1															
6/20/2000	--		--	--	--	8.21	--	<50	<0.5	1.1	<0.5	<1.0	<10	--	--
9/28/2000	--		--	--	--	8.28	--	<50	<0.5	<0.5	<0.5	<1.0	<2.5	--	--
12/17/2000	--		--	--	--	8.29	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
3/28/2001	--		--	--	--	8.16	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
6/21/2001	--		--	--	--	9.37	--	160	5.1	<0.5	1.1	3.2	<2.5	--	--
9/23/2001	--		--	--	--	8.75	--	57	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
12/31/2001	--		--	--	--	6.80	--	520	3.1	<0.5	6.4	4.7	<2.5	--	--
3/14/2002	--		--	--	--	7.86	--	240	3.7	<0.5	0.7	2.8	<2.5	--	--
4/17/2002	--		--	--	--	7.13	--	<50	<0.5	1.6	<0.5	0.72	<2.5	--	--
8/8/2002	--	a, c	--	--	--	8.48	--	<50	<0.5	<0.5	<0.5	<0.5	3.7/<0.5	1.1	7.0
12/12/2002	--		--	--	--	8.63	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	1.9	6.9
3/20/2003	--	e	--	--	--	8.08	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	7.3
6/23/2003	--		--	--	--	8.28	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	7.3
9/22/2003	--	f	11.97	--	--	8.42	3.55	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	7.1
12/03/2003	--	g	11.97	--	--	8.05	3.92	--	--	--	--	--	--	--	--
03/18/2004	P		11.97	--	--	7.18	4.79	50	0.54	<0.50	<0.50	<0.50	<0.50	0.9	7.1
05/25/2004	--	g	11.97	--	--	8.32	3.65	--	--	--	--	--	--	--	--
09/22/2004	P		11.97	--	--	8.42	3.55	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	6.7
12/22/2004	--		11.97	--	--	7.23	4.74	--	--	--	--	--	--	--	--
02/23/2005	P		11.97	--	--	6.89	5.08	190	<0.50	<0.50	<0.50	<0.50	<0.50	0.71	7.2
06/27/2005	--		11.97	--	--	7.86	4.11	--	--	--	--	--	--	--	--
08/31/2005	P		11.97	--	--	8.20	3.77	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.7	7.2
03/08/2006	--		11.97	--	--	6.49	5.48	--	--	--	--	--	--	--	--
9/27/2006	P		11.97	--	--	8.04	3.93	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	6.9

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

Station #4494, 566 Hegenberger Rd., Oakland, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE		
RW-1 Cont.															
3/6/2007	-		11.97	-	-	7.32	4.65	-	-	-	-	-	-	-	-

SYMBOLS AND ABBREVIATIONS:

--/-- = Not calculated, surveyed, available, applicable, analyzed

< = Not detected at or above specified laboratory reporting limit

DO = Dissolved oxygen

DTW = Depth to water in ft bgs

ft bgs = Feet below ground surface

ft MSL = Feet above mean sea level

GRO = Gasoline range organics

GWE = Groundwater elevation in ft MSL

mg/L = Milligrams per liter

MTBE = Methyl tert-butyl ether analyzed by EPA Method 8021B prior to 3/20/03 unless otherwise noted

NP = Well not purged prior to sampling

P = Well purged prior to sampling

TPH-g = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8015M prior to 3/20/03 and by 8260b henceforth

TOC = Top of casing in ft MSL

µg/L = Micrograms per liter

FOOTNOTES:

a = MTBE confirmation analyzed by EPA Method 8260.

b = Hydrocarbon pattern is present in the requested fuel quantitation range for TPH-g/GRO but does not resemble the pattern of the requested fuel.

c = This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.

d = Analyzed by EPA Method 8215B/8021B for TPHg/GRO.

e = TPH-g, BTEX, and MTBE analyzed by EPA method 8260B beginning on 2003 sampling event (03/20/03).

f = TOC elevations were re-surveyed on July 18, 2003 by URS Corporation of Pleasant Hill, CA.

g = Wells MW-3, MW-4, MW-5, MW-6 and RW-1 are sampled semi-annually in the 1st and 3rd quarters.

h = TOC was found shattered on December 12, 2002. TOC unknown.

i = Initial analysis for GRO and MTBE within holding time but failed QA/QC criteria.

j = Hydrocarbon result for GRO partly due to individual peak(s) in quantitative range.

NOTES:

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g was changed to GRO. The resulting data may be impacted by the potential of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported.

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

The values for pH and DO were obtained through field measurements.

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

Table 2. Summary of Fuel Additives Analytical Data
Station #4494, 566 Hegenberger Rd., Oakland, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-1									
3/20/2003	<1,000	640	780	<5.0	<5.0	<5.0	--	--	
6/23/2003	<1,000	<200	260	<5.0	<5.0	<5.0	<5.0	<5.0	
9/22/2003	<100	250	17	<0.50	<0.50	<0.50	--	--	
12/03/2003	<500	<100	260	<2.5	<2.5	<2.5	--	--	
03/18/2004	<500	<100	130	<2.5	<2.5	<2.5	<2.5	<2.5	
05/25/2004	<500	<100	120	<2.5	<2.5	<2.5	<2.5	<2.5	
09/22/2004	<200	<40	140	<1.0	<1.0	<1.0	<1.0	<1.0	
12/22/2004	<1,000	<200	74	<5.0	<5.0	<5.0	<5.0	<5.0	
02/23/2005	<100	<20	6.0	<0.50	<0.50	2.4	<0.50	<0.50	
06/27/2005	<500	<100	150	<2.5	<2.5	<2.5	<2.5	<2.5	
08/31/2005	<100	<20	0.82	<0.50	<0.50	<0.50	<0.50	<0.50	a
03/08/2006	<300	<20	6.8	<0.50	<0.50	<0.50	<0.50	<0.50	b
9/27/2006	<300	<20	2.8	<0.50	<0.50	<0.50	<0.50	<0.50	
3/6/2007	<300	<20	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-3									
3/20/2003	<100	<20	601	<0.50	<0.50	1.1	--	--	
6/23/2003	<100	<20	5.2	<0.50	<0.50	0.75	<0.50	<0.50	
9/22/2003	<100	<20	3.9	<0.50	<0.50	<0.50	--	--	
03/18/2004	<100	<20	4.6	<0.50	<0.50	<0.50	<0.50	<0.50	
09/22/2004	<100	<20	4.7	<0.50	<0.50	<0.50	<0.50	<0.50	
02/23/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
08/31/2005	<100	<20	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	
9/27/2006	<300	<20	2.8	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-4									
3/20/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
6/23/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/22/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
03/18/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
02/23/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

**Table 2. Summary of Fuel Additives Analytical Data
Station #4494, 566 Hegenberger Rd., Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-4 Cont.									
08/31/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/27/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-5									
3/20/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	-	-	
6/23/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/22/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	-	-	
03/18/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
02/23/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
08/31/2005	<100	<20	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	
9/27/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-6									
3/20/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	-	-	
6/23/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/22/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	-	-	
03/18/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
02/23/2005	<100	140	5.0	<0.50	<0.50	<0.50	<0.50	<0.50	
08/31/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
03/08/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
9/27/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/6/2007	<300	<20	0.56	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-7									
3/20/2003	<100	<20	21	<0.50	<0.50	0.62	-	-	
6/23/2003	<100	170	14	<0.50	<0.50	<0.50	<0.50	<0.50	
9/22/2003	<100	170	5.3	<0.50	<0.50	<0.50	-	-	
12/03/2003	<100	85	4.2	<0.50	<0.50	<0.50	-	-	
03/18/2004	<100	<20	3.0	<0.50	<0.50	<0.50	<0.50	<0.50	a
05/25/2004	<100	43	4.1	<0.50	<0.50	<0.50	<0.50	<0.50	
09/22/2004	<100	<20	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data
Station #4494, 566 Hegenberger Rd., Oakland, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-7 Cont.									
12/22/2004	<100	34	2.7	<0.50	<0.50	<0.50	<0.50	<0.50	
02/23/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
06/27/2005	<100	86	4.2	<0.50	<0.50	<0.50	<0.50	<0.50	
08/31/2005	<100	41	2.5	<0.50	<0.50	<0.50	<0.50	<0.50	
9/27/2006	<300	120	3.7	<0.50	<0.50	<0.50	<0.50	<0.50	
RW-1									
3/20/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	—	—	
6/23/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/22/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	—	—	
03/18/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
02/23/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
08/31/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/27/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

SYMBOLS AND ABBREVIATIONS:

< = Not detected at or above specified laboratory reporting limit

--/-- = Not analyzed, sampled, available

1,2-DCA = 1,2-Dichloroethane

DIPE = Di-isopropyl ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

µg/L = Micrograms per liter

FOOTNOTES:

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

b = Possible high bias due to CCV falling outside acceptance criteria for TAME, MTBE, 1,2-DCA, and/or ETBE.

NOTES:

All fuel oxygenate compounds were analyzed using EPA Method 8260B.

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

Table 3. Historical Ground-Water Flow Direction and Gradient
Station #4494, 566 Hegenberger Rd., Oakland, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
6/20/2000	North-Northeast	0.02
9/28/2000	North	0.02
12/17/2000	North-Northwest	0.01
3/28/2001	Northwest	0.01
6/21/2001	North	0.02
9/23/2001	North	0.02
12/31/2001	North-Northwest	0.02
3/14/2002	North-Northwest	0.02
4/14/2002	Northwest	0.01
8/8/2002	North-Northwest	0.02
12/12/2002	North-Northwest	0.02
3/20/2003	North-Northwest	0.02
6/23/2003	Northwest	0.01
9/22/2003	Northwest	0.02
12/3/2003	Northwest	0.01
3/18/2004	North-Northwest	0.01
5/25/2004	North-Northwest	0.01
9/22/2004	North-Northwest	0.02
12/22/2004	Northwest	0.02
2/23/2005	Northwest	0.02 (on-Site)
6/27/2005	Northwest	0.02 (on-Site)
8/31/2005	Northwest	0.02 (on-Site)
3/8/2006	Northwest	0.03 (on-Site)
9/27/2006	North-Northwest	0.02
3/6/2007	Northwest	0.02

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

APPENDIX A

**STRATUS GROUND-WATER SAMPLING DATA PACKAGE
(INCLUDES FIELD DATA SHEETS AND LABORATORY ANALYTICAL REPORT
WITH CHAIN-OF-CUSTODY DOCUMENTATION)**



RECEIVED
MAR 30 2007
BY:

3330 Cameron Park Drive, Ste 550
Cameron Park, California 95682
(530) 676-6004 ~ Fax: (530) 676-6005

March 27, 2007

Mr. Rob Miller
Broadbent & Associates, Inc.
2000 Kirman Avenue
Reno, NV 89502

RECEIVED
APR 02 2007
BY: JB

Re: Groundwater Sampling Data Package, BP Service Station No. 4494, located at 466 Hegenberger Road, Oakland, California (Quarterly Monitoring performed on March 6, 2007)

General Information

Data Submittal Prepared / Reviewed by: Sandy Hayes / Jay Johnson

Phone Number: (530) 676-6000

On-Site Supplier Representative: Jerry Gonzales

Date: March 6, 2007

Arrival: 11:30 *Departure:* 13:30

Weather Conditions: Partly Cloudy

Unusual Field Conditions: None

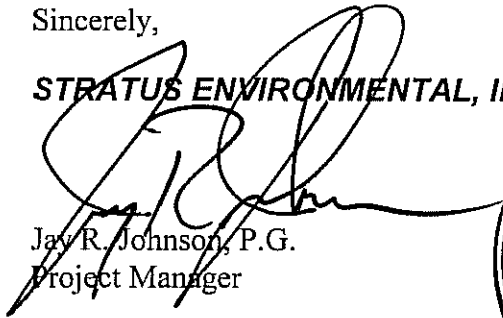
Scope of Work Performed: Quarterly monitoring and sampling

Variations from Work Scope: Well MW-1 purged dry before three casing volumes were removed.

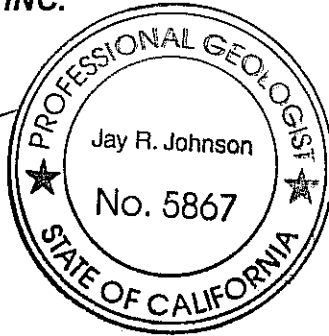
This submittal presents the tabulation of data collected in association with routine groundwater monitoring. The attachments include bill of lading, field data sheets, chain of custody documentation, and certified analytical results. The information is being provided to BP-ARCO's Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does not include data interpretation or conclusions or recommendations. Any questions concerning this submittal should be addressed to the Preparer/Reviewer identified above.

Sincerely,

STRATUS ENVIRONMENTAL, INC.



Jay R. Johnson, P.G.
Project Manager



Attachments:

- Bill of Lading
- Field Data Sheets
- Chain of Custody Documentation
- Certified Analytical Results

CC: Mr. Paul Supple, BP/ARCO

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 PURGEWATER WHICH HAS BEEN RECOVERED FROM GROUNDWATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY BELSHIRE ENVIRONMENTAL TO SEAPORT ENVIRONMENTAL IN REDWOOD CITY, CALIFORNIA.

The contractors performing this work are Stratus Environmental, Inc. [Stratus, 3330 Cameron Park Drive, Suite 550, Cameron Park, CA 95682, (530) 676-6004], and Doulos Environmental, Inc. [Doulos, PO Box 2559, Orangevale, CA 95662, (916) 990-0333]. Stratus is authorized by BP GEM OIL COMPANY to recover, collect, and apportion into loads the non-hazardous well purgewater that is drawn from wells at BP GEM Oil Company facilities and deliver that purgewater to BP GEM Oil Company facility 5786 located in West Sacramento, California. Doulos also performs these services under subcontract to Stratus. 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:

4494

Station #

566
Oakland - ~~466~~ Hegenberger Road

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

40

Added Equipment
Rinse Water 5

Any Other
Adjustments 0

TOTAL GALS.
RECOVERED 45

loaded onto
Doulos vehicle # _____

Stratus Project # _____

time date

1330 3/6/07

Signature Jerry G.

RECEIVED AT

time date

BP 5786

1830 3/14/07

Unloaded by
Signature [Signature]

BP VALLEY PORTFOLIO

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 4494 PURGED BY: Jo WELL I.D.: MW-1
 CLIENT NAME: _____ SAMPLED BY: Jo SAMPLE I.D.: MW-1
 LOCATION: Oakland - 566 Hegenberger Road QA SAMPLES: _____

DATE PURGED 3-6-07 START (2400hr) 12:31 END (2400hr) 12:35
 DATE SAMPLED 3-6-07 SAMPLE TIME (2400hr) 13:15
 SAMPLE TYPE: Groundwater x Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" _____ 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

DEPTH TO BOTTOM (feet) = 2288 CASING VOLUME (gal) = 10.9
 DEPTH TO WATER (feet) = 6.58 CALCULATED PURGE (gal) = 32.7
 WATER COLUMN HEIGHT (feet) = 16.3 ACTUAL PURGE (gal) = 33.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>3-6-07</u>	<u>12:38</u>	<u>11</u>	<u>21.3</u>	<u>609</u>	<u>7.23</u>	<u>clear</u>	
<u>1</u>	<u>12:35</u>	<u>22</u>	<u>21.5</u>	<u>28.27</u>	<u>6.95</u>	<u>1</u>	<u>part Dry</u>

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 9.41 SAMPLE TURBIDITY: clear
 80% RECHARGE: X YES ___ NO ANALYSES: see work order
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: _____

PURGING EQUIPMENT

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____
 Pump Depth: 2280

SAMPLING EQUIPMENT

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____

WELL INTEGRITY: good LOCK#: NPST or
 REMARKS: DO 2.89

SIGNATURE: [Signature] Page ___ of ___

BP VALLEY PORTFOLIO

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 4494 PURGED BY: Jo WELL I.D.: mu 6
 CLIENT NAME: _____ SAMPLED BY: Jo SAMPLE I.D.: mu 6
 LOCATION: Oakland - 566 Hegenberger Road QA SAMPLES: _____

DATE PURGED 3-6-07 START (2400hr) 12:49 END (2400hr) 12:52
 DATE SAMPLED 3-6-07 SAMPLE TIME (2400hr) 12:57
 SAMPLE TYPE: Groundwater x Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" X 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

DEPTH TO BOTTOM (feet) = 17.98 CASING VOLUME (gal) = 21
 DEPTH TO WATER (feet) = 5.35 CALCULATED PURGE (gal) = 6.9
 WATER COLUMN HEIGHT (feet) = 12.6 ACTUAL PURGE (gal) = 7.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>3-6-07</u>	<u>12:50</u>	<u>2.1</u>	<u>25.5</u>	<u>15.46</u>	<u>7.29</u>	<u>cloudy</u>	_____
<u>/</u>	<u>12:51</u>	<u>4.5</u>	<u>24.9</u>	<u>7.62</u>	<u>7.59</u>	<u>cloudy</u>	_____
<u>/</u>	<u>12:57</u>	<u>7.0</u>	<u>23.5</u>	<u>6.20</u>	<u>7.49</u>	<u>clear</u>	_____

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 5.40 SAMPLE TURBIDITY: Clear

80% RECHARGE: YES NO ANALYSES: See work order
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 6 UOa-HCC

PURGING EQUIPMENT

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____

Other: _____
 Pump Depth: 150

SAMPLING EQUIPMENT

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____

Other: _____

WELL INTEGRITY: good LOCK#: Mastic

REMARKS: DO. 1.77

SIGNATURE: [Signature]



Chain of Custody Record

Project Name: BP 4494
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > CA > Alameda > 4494
 State or Lead Regulatory Agency: _____
 Requested Due Date (mm/dd/yy): _____

On-site Time: <u>11:30</u>	Temp: <u>60</u>
Off-site Time: <u>13:30</u>	Temp: <u>65</u>
Sky Conditions: <u>PT Clouds</u>	
Meteorological Events: _____	
Wind Speed: <u>5 mph</u>	Direction: <u>N</u>

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>4494</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>566 Hegenberger Road, Oakland</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long: _____	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID #: <u>T0600100104</u>	Consultant/Contractor Project No.: <u>E4494-04</u>
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>G0C2G-0014</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or RCOP (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>04-Monitoring</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail BDD To: <u>shaves@stratusinc.net</u>
Tele/Fax: <u>925-275-3506</u>	Cost Element: <u>01-Contractor labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis						Sample Point Lat/Long and Comments *Oxy = MTBD, TAME, ETBE, DIPE, TBA			
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO/BTEX/Oxy*	1,2 DCA	Ethanol	EDB	DRO					
1	MW-1	1315	3-6-07	X			3			X				X	X	X	X						
2	MW-6	12:59	3-6-07	X			6			X				X	X	X	X						
3	TB 4494	7:00	3-6-07	X			2			X				X	X	X	X						HOLD
4																							
5																							
6																							
7																							
8																							
9																							
10																							

5.8⁰⁰

Sampler's Name: <u>Jerry Gonzalez</u>	Relinquished By / Affiliation: _____	Date: _____	Time: _____	Accepted By / Affiliation: _____	Date: <u>3/8/07</u>	Time: <u>0815</u>
Sampler's Company: <u>Deulo's ENV</u>						
Shipment Date: _____						
Shipment Method: _____						
Shipment Tracking No: _____						

Special Instructions: Please cc results to: miller@broadbentinc.com

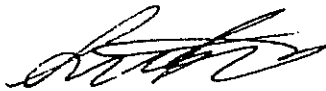
23 March, 2007

Jay Johnson
Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park, CA 95682

RE: ARCO #4494, Oakland, CA
Work Order: MQC0346

Enclosed are the results of analyses for samples received by the laboratory on 03/09/07 07:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa Race
Senior Project Manager

CA ELAP Certificate # 1210

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #4494, Oakland, CA
Project Number: G0C2G-0014
Project Manager: Jay Johnson

MQC0346
Reported:
03/23/07 12:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MQC0346-01	Water	03/06/07 13:15	03/09/07 07:45
MW-6	MQC0346-02	Water	03/06/07 12:57	03/09/07 07:45
TB 4494	MQC0346-03	Water	03/06/07 07:00	03/09/07 07:45

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.

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #4494, Oakland, CA
Project Number: G0C2G-0014
Project Manager: Jay Johnson

MQC0346
Reported:
03/23/07 12:25

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MQC0346-01) Water Sampled: 03/06/07 13:15 Received: 03/09/07 07:45									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7C14018	03/14/07	03/15/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		106 %	60-145		"	"	"	"	
MW-6 (MQC0346-02) Water Sampled: 03/06/07 12:57 Received: 03/09/07 07:45									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7C14018	03/14/07	03/15/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		106 %	60-145		"	"	"	"	

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #4494, Oakland, CA
Project Number: G0C2G-0014
Project Manager: Jay Johnson

MQC0346
Reported:
03/23/07 12:25

Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

MW-1 (MQC0346-01) Water Sampled: 03/06/07 13:15 Received: 03/09/07 07:45

tert-Amyl methyl ether	ND	0.50	ug/l	1	7C14018	03/14/07	03/15/07	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	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	1.8	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		99 %		75-130	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %		60-145	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94 %		70-130	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		88 %		60-120	"	"	"	"	

MW-6 (MQC0346-02) Water Sampled: 03/06/07 12:57 Received: 03/09/07 07:45

tert-Amyl methyl ether	ND	0.50	ug/l	1	7C14018	03/14/07	03/15/07	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	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	0.56	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		98 %		75-130	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %		60-145	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94 %		70-130	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		89 %		60-120	"	"	"	"	

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #4494, Oakland, CA
Project Number: G0C2G-0014
Project Manager: Jay Johnson

MQC0346
Reported:
03/23/07 12:25

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7C14018 - EPA 5030B P/T / LUFT GCMS

Blank (7C14018-BLK1)

Prepared & Analyzed: 03/14/07

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.56		"	2.50		102	60-145			

Laboratory Control Sample (7C14018-BS2)

Prepared & Analyzed: 03/14/07

Gasoline Range Organics (C4-C12)	509	50	ug/l	500		102	75-140			
Surrogate: 1,2-Dichloroethane-d4	2.58		"	2.50		103	60-145			

Laboratory Control Sample Dup (7C14018-BSD2)

Prepared & Analyzed: 03/14/07

Gasoline Range Organics (C4-C12)	499	50	ug/l	500		100	75-140	2	20	
Surrogate: 1,2-Dichloroethane-d4	2.60		"	2.50		104	60-145			

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Project Manager: Jay Johnson

MQC0346
Reported:
03/23/07 12:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7C14018 - EPA 5030B P/T / EPA 8260B

Blank (7C14018-BLK1)

Prepared & Analyzed: 03/14/07

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	300	"							
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	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>2.40</i>		<i>"</i>	<i>2.50</i>		<i>96</i>	<i>75-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.56</i>		<i>"</i>	<i>2.50</i>		<i>102</i>	<i>60-145</i>			
<i>Surrogate: Toluene-d8</i>	<i>2.41</i>		<i>"</i>	<i>2.50</i>		<i>96</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>2.30</i>		<i>"</i>	<i>2.50</i>		<i>92</i>	<i>60-120</i>			

Laboratory Control Sample (7C14018-BS1)

Prepared & Analyzed: 03/14/07

tert-Amyl methyl ether	12.1	0.50	ug/l	10.0		121	65-135			
Benzene	11.0	0.50	"	10.0		110	70-125			
tert-Butyl alcohol	206	20	"	200		103	60-135			
Di-isopropyl ether	11.8	0.50	"	10.0		118	70-130			
1,2-Dibromoethane (EDB)	11.8	0.50	"	10.0		118	75-140			
1,2-Dichloroethane	11.1	0.50	"	10.0		111	75-125			
Ethanol	210	300	"	200		105	15-150			
Ethyl tert-butyl ether	11.5	0.50	"	10.0		115	65-130			
Ethylbenzene	11.1	0.50	"	10.0		111	70-130			
Methyl tert-butyl ether	11.3	0.50	"	10.0		113	50-140			
Toluene	10.3	0.50	"	10.0		103	70-120			
Xylenes (total)	32.2	0.50	"	30.0		107	80-125			
<i>Surrogate: Dibromofluoromethane</i>	<i>2.62</i>		<i>"</i>	<i>2.50</i>		<i>105</i>	<i>75-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.57</i>		<i>"</i>	<i>2.50</i>		<i>103</i>	<i>60-145</i>			
<i>Surrogate: Toluene-d8</i>	<i>2.50</i>		<i>"</i>	<i>2.50</i>		<i>100</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>2.58</i>		<i>"</i>	<i>2.50</i>		<i>103</i>	<i>60-120</i>			

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #4494, Oakland, CA
Project Number: G0C2G-0014
Project Manager: Jay Johnson

MQC0346
Reported:
03/23/07 12:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7C14018 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7C14018-MS1)		Source: MQC0372-04		Prepared & Analyzed: 03/14/07						
tert-Amyl methyl ether	13.3	0.50	ug/l	10.0	ND	133	65-135			
Benzene	12.3	0.50	"	10.0	ND	123	70-125			
tert-Butyl alcohol	229	20	"	200	ND	114	60-135			
Di-isopropyl ether	13.4	0.50	"	10.0	ND	134	70-130			LM
1,2-Dibromoethane (EDB)	13.1	0.50	"	10.0	ND	131	75-140			
1,2-Dichloroethane	12.6	0.50	"	10.0	ND	126	75-125			LM
Ethanol	220	300	"	200	ND	110	15-150			
Ethyl tert-butyl ether	13.0	0.50	"	10.0	ND	130	65-130			
Ethylbenzene	12.3	0.50	"	10.0	ND	123	70-130			
Methyl tert-butyl ether	12.7	0.50	"	10.0	ND	127	50-140			
Toluene	11.6	0.50	"	10.0	ND	116	70-120			
Xylenes (total)	35.5	0.50	"	30.0	ND	118	80-125			
<i>Surrogate: Dibromofluoromethane</i>	<i>2.61</i>		<i>"</i>	<i>2.50</i>		<i>104</i>	<i>75-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.61</i>		<i>"</i>	<i>2.50</i>		<i>104</i>	<i>60-145</i>			
<i>Surrogate: Toluene-d8</i>	<i>2.45</i>		<i>"</i>	<i>2.50</i>		<i>98</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>2.58</i>		<i>"</i>	<i>2.50</i>		<i>103</i>	<i>60-120</i>			

Matrix Spike Dup (7C14018-MSD1)		Source: MQC0372-04		Prepared & Analyzed: 03/14/07						
tert-Amyl methyl ether	12.7	0.50	ug/l	10.0	ND	127	65-135	5	25	
Benzene	11.6	0.50	"	10.0	ND	116	70-125	6	15	
tert-Butyl alcohol	215	20	"	200	ND	108	60-135	6	35	
Di-isopropyl ether	12.7	0.50	"	10.0	ND	127	70-130	5	35	
1,2-Dibromoethane (EDB)	12.4	0.50	"	10.0	ND	124	75-140	5	15	
1,2-Dichloroethane	11.9	0.50	"	10.0	ND	119	75-125	6	20	
Ethanol	231	300	"	200	ND	116	15-150	5	35	
Ethyl tert-butyl ether	12.3	0.50	"	10.0	ND	123	65-130	6	35	
Ethylbenzene	11.5	0.50	"	10.0	ND	115	70-130	7	15	
Methyl tert-butyl ether	12.1	0.50	"	10.0	ND	121	50-140	5	25	
Toluene	10.8	0.50	"	10.0	ND	108	70-120	7	15	
Xylenes (total)	33.0	0.50	"	30.0	ND	110	80-125	7	15	
<i>Surrogate: Dibromofluoromethane</i>	<i>2.63</i>		<i>"</i>	<i>2.50</i>		<i>105</i>	<i>75-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.57</i>		<i>"</i>	<i>2.50</i>		<i>103</i>	<i>60-145</i>			
<i>Surrogate: Toluene-d8</i>	<i>2.48</i>		<i>"</i>	<i>2.50</i>		<i>99</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>2.56</i>		<i>"</i>	<i>2.50</i>		<i>102</i>	<i>60-120</i>			

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #4494, Oakland, CA
Project Number: G0C2G-0014
Project Manager: Jay Johnson

MQC0346
Reported:
03/23/07 12:25

Notes and Definitions

LM MS and/or MSD above acceptance limits. See Blank Spike(LCS).
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



bp
A BP affiliated company

Chain of Custody Record

Project Name: BP 4494
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > CA > Alameda > 4494
 State or Lead Regulatory Agency: _____
 Requested Due Date (mm/dd/yy): _____

On-site Time: <u>11:30</u>	Temp: <u>60</u>
Off-site Time: <u>13:30</u>	Temp: <u>65</u>
Sky Conditions: <u>PT Clouds</u>	
Meteorological Events:	
Wind Speed: <u>5 mph</u>	Direction: <u>N</u>

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>4494</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>566 Hegenberger Road, Oakland</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID #: <u>T0600100104</u>	Consultant/Contractor Project No.: <u>E4494-04</u>
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>G0C2G-0014</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or RCOP (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>04-Monitoring</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shaves@stratusinc.net</u>
Tele/Fax: <u>925-275-3506</u>	Cost Element: <u>01-Contractor labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Point Lat/Long and Comments *Oxy = MTBD, TAME, ETBE, DIPE, TBA			
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO/BTEX/Oxy*	1,2 DCA	Ethanol	EDB	DRO				
1	MW-1	1315	3-6-07	X			01	3					X	X	X	X						
2	MW-6	12:59	3-6-07	X			02	6					X	X	X	X						
3	TB 4494	7:20	3-6-07	X			03	2					X	X	X	X						HOLD
4																						
5																						
6																						
7																						
8																						
9																						5.8%
10																						

Sampler's Name: <u>Jerry Gonzalez</u>	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>Doc's ENV</u>	<u>[Signature]</u>	<u>3/8/07</u>	<u>1600</u>	<u>[Signature]</u>	<u>3/8/07</u>	<u>17513</u>
Shipment Date:					<u>3/4/07</u>	<u>745</u>
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Please cc results to: rmiller@broadbentinc.com

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 44°F | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: Arco
 REG. BY (PRINT) A.M.
 WORKORDER: MQC0346

DATE REC'D AT LAB: 3-9-07
 TIME REC'D AT LAB: 745
 DATE LOGGED IN: 3/13/07

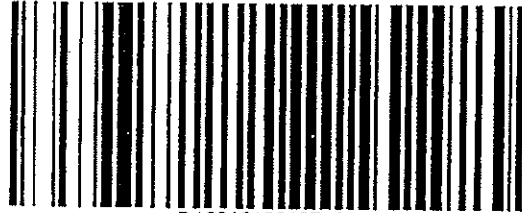
For Regulatory Purposes?
 DRINKING WATER YES NO
 WASTE WATER YES NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	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*								3-9-07 A.M. See COC
2. Chain-of-Custody <input checked="" type="checkbox"/> Present / Absent*								
3. Traffic Reports or Packing List: <input checked="" type="checkbox"/> Present / Absent								
4. Airbill: <input checked="" type="checkbox"/> Airbill / Sticker <input checked="" type="checkbox"/> Present / Absent								
5. Airbill #: <u>See Attached</u>								
6. Sample Labels: <input checked="" type="checkbox"/> 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. Read Temp: <u>4.4°C</u> Corrected Temp: <u>4.4°C</u> Is corrected temp 4 +/-2°C? <input checked="" type="checkbox"/> 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.

California Overnight Shipping Label



D10010123485123

Date Printed 3/8/2007

Tracking#D10010123485123

Shipped From:
TEST AMERICA - SACRAMENTO
819 STRIKER AVENUE 8
SACRAMENTO, CA 95834

Sent By: TIM ALBRIGHT
Phone#: (916)921-9600
wgt(lbs): 14
Reference:
Decl. Value: \$0.00

Ship To Company:
TESTAMERICA - MORGAN HILL
885 JARVIS DR
MORGAN HILL, CA 95037
SAMPLE CONTROL (408)776-9600

Service: **S**
Sort Code: **SJC**
Special Services:

APPENDIX B

HISTORICAL GROUND-WATER DATA

Table 2
Liquid Surface Elevation Data

ARCO Service Station 4494
888 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TDC)	Depth to Liquid (feet, TDC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MVV-1	08/08/80	105.31	8.85	8.25	0.00	95.68
	08/18/80		7.00	7.00	0.00	98.31
	08/21/80		7.05	7.05	0.00	98.29
	09/07/80		7.24	7.24	0.00	98.07
	11/20/80		7.48	7.48	0.00	97.85
	11/28/80		7.40	7.40	0.00	97.91
	12/18/80		8.98	8.98	0.00	98.32
	01/20/81		7.23	7.23	0.00	98.08
	02/27/81		7.45	7.45	0.00	97.86
	03/07/81		8.08	8.08	0.00	98.35
	03/29/81		8.02	8.02	0.00	98.29
	05/02/81		7.84	7.84	0.00	98.27
	06/27/81		8.71	8.71	0.00	98.60
	07/24/81		8.91	8.91	0.00	98.40
	08/22/81		8.65	8.65	0.00	98.45
	08/30/81		7.84	7.84	0.00	98.27
	10/17/81		7.22	7.22	0.00	98.09
	11/21/81		7.17	7.17	0.00	98.14
	12/18/81		7.48	7.48	0.00	97.85
	01/18/82		7.44	7.44	0.00	97.87
	02/20/82		8.25	8.25	0.00	98.06
	03/20/82		8.40	8.40	0.00	98.91
	04/20/82		8.89	8.89	0.00	98.43
	05/18/82		7.10	7.10	0.00	99.21
	06/08/82		7.22	7.22	0.00	98.09
	07/15/82		7.82	7.82	0.00	97.85
	08/08/82		7.29	7.29	0.00	98.81
	10/28/82		7.54	7.54	0.00	98.76
	11/23/82		8.16	8.16	0.00	97.85
	08/16/83		7.28	7.28	0.00	98.87
	11/17/83		7.51	7.51	0.00	98.59
	02/21/84		8.58	8.58	0.00	99.54
	05/11/84		8.57	8.57	0.00	98.53
08/12/84	7.12	7.12	0.00	98.58		
11/17/84	8.88	8.88	0.00	98.28		
02/22/85	7.85	7.85	0.00	98.75		
05/24/85	7.87	7.87	0.00	98.09		
08/23/85	7.10	7.10	0.00	98.69		
11/17/85	7.72	7.72	0.00	98.83		
MVV-2	08/08/80	105.78	8.82	9.00	0.92	95.88
	08/18/80		18.1	NM	0.17	NM
	08/21/80		NM	NM	0.17	NM
	09/07/80		8.84	8.17	0.17	98.44
	11/20/80		8.20	8.2	Sheen	98.58
	11/28/80		8.82	8.82	Sheen	95.89
	12/18/80		8.83	8.86	0.00	98.83
	01/29/81		8.01	8.01	Sheen	98.77
	02/27/81		8.14	8.14	Sheen	98.64
	03/07/81		8.94	8.94	Sheen	98.84
	03/29/81		8.11	8.11	Sheen	97.87
	05/02/81		8.72	8.72	0	97.08

3300-412BW005TBL8.XLS\Table2

Recreated from hard copies of tables developed by Pacific Environmental Group, Inc.

February 15, 1996

Table 2 (continued)
Liquid Surface Elevation Data

ARCO Service Station 4494
666 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TDC)	Depth to Liquid (feet, TDC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-2 (cont.)	08/27/91	108.57	9.20	9.2	Shoen	98.38
	07/24/91		9.26	9.25	0.00	98.53
	09/22/91		9.20	9.20	0.00	98.58
	09/30/91		9.31	9.31	Shoen	98.47
	10/17/91		9.39	9.39	Shoen	98.39
	11/21/91		9.20	9.2	0	98.59
	12/16/91		9.28	9.28	Shoen	98.59
	01/10/92		9.97*	9.98	Skinmer	98.82
	02/20/92		9.13**	9.19	Skinmer	98.95
	03/20/92		9.31**	9.31	Skinmer	98.47
	04/20/92		9.69	9.69	Skinmer	99.09
	05/19/92		9.62	9.62	Skinmer	98.88
	06/08/92		9.84	9.84	Skinmer	98.54
	07/15/92		10.18	10.18	Skinmer	98.59
	08/08/92		10.05	10.05	Skinmer	98.82
	10/29/92		10.00	10.00	Skinmer	98.57
	11/29/92		9.88	9.87	0.01	98.69
Well Destroyed						
MW-3	08/18/90	105.61	8.87	8.87	0.00	98.64
	09/21/90		8.85	8.85	0.00	98.66
	09/07/90		8.98	8.98	0.00	98.63
	11/20/90		8.10	8.10	0.00	98.41
	11/28/90		9.05	9.05	0.00	98.48
	12/18/90		8.67	8.67	0.00	98.94
	01/29/91		8.98	8.98	0.00	98.65
	02/27/91		8.71	8.71	0.00	98.80
	03/07/91		8.49	8.49	0.00	97.02
	03/29/91		7.85	7.85	0.00	97.68
	05/02/91		8.82	8.82	0.00	98.88
	06/27/91		8.94	8.94	0.00	98.67
	07/24/91		8.99	8.99	0.00	98.55
	08/22/91		8.92	8.92	0.00	98.59
	09/30/91		9.04	9.04	0.00	98.47
	10/17/91		9.12	9.12	0.00	98.39
	11/21/91		8.82	8.82	0.00	98.59
	12/18/91		8.97	8.97	0.00	98.54
	01/18/92		8.89	8.89	0.00	98.82
	02/20/92		7.78	7.78	0.00	97.73
	03/20/92		8.18	8.18	0.00	97.96
	04/20/92		8.57	8.57	0.00	98.84
	05/19/92		8.79	8.79	0.00	98.75
	06/08/92		8.74	8.74	0.00	98.77
	07/15/92		9.12	9.12	0.00	98.99
	08/08/92		8.95	8.95	0.00	97.34
	10/29/92		8.78	8.78	0.00	97.51
11/23/92	8.91	8.91	0.00	98.38		
03/18/93	8.62	8.62	0.00	97.87		
11/17/93	8.72	8.72	0.00	97.57		
02/21/94	7.91	7.91	0.00	98.39		
05/11/94	8.09	8.09	0.00	98.20		

Table 2 (continued)
Liquid Surface Elevation Data

ARGO Service Station 4494
655 Hegenberger Road at Eden Avenue
Oakland, California

Well Number	Date Collected	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Depth to Liquid (feet, TOC)	SPH Thickness (inch)	Liquid Surface Elevation (feet, MSL)
MW-3 (cont.)	08/12/84		8.78	8.78	0.00	97.51
	11/17/84		8.45	8.45	0.00	97.84
	02/22/85		8.85	8.85	0.00	97.34
	05/24/85		8.57	8.57	0.00	97.62
	08/23/85		8.17	8.17	0.00	97.12
	11/17/85		8.39	8.39	0.00	96.90
MW-4	08/18/80	108.61	8.18	8.18	0.00	98.45
	08/21/80		8.22	8.22	0.00	98.28
	08/07/80		8.39	8.39	0.00	98.22
	11/20/80		8.57	8.57	0.00	98.04
	11/23/80		8.53	8.53	0.00	98.08
	12/19/80		8.18	8.18	0.00	98.43
	01/28/81		8.58	8.58	0.00	97.85
	02/27/81		8.44	8.44	0.00	98.17
	03/07/81		8.18	8.18	0.00	98.45
	03/29/81		7.58	7.58	0.00	99.05
	04/02/81		8.25	8.25	0.00	98.38
	08/27/81		7.75	7.75	0.00	98.55
	07/24/81		8.12	8.12	0.00	98.49
	08/22/81		7.58	7.58	0.00	98.53
	09/30/81		8.25	8.25	0.00	98.35
	10/17/81		8.42	8.42	0.00	98.18
	11/21/81		8.65	8.65	0.00	97.98
	12/18/81		8.77	8.77	0.00	97.34
	01/18/82		8.42	8.42	0.00	98.19
	02/20/82		7.80	7.80	0.00	98.01
	03/20/82		7.81	7.81	0.00	98.00
	04/20/82		8.15	8.15	0.00	98.48
	05/18/82		8.14	8.14	0.00	98.47
	06/08/82		8.40	8.40	0.00	98.21
	07/15/82		8.72	8.72	0.00	97.89
	08/08/82	107.40	8.52	8.52	0.00	98.88
	10/28/82		8.63	8.63	0.00	98.77
	11/23/82		8.75	8.75	0.00	98.65
	08/18/83		8.89	8.89	0.00	98.71
	11/17/83		9.11	9.11	0.00	98.29
	02/21/84		8.18	8.18	0.00	99.24
	03/11/84		8.29	8.29	0.00	98.11
08/12/84		8.75	8.75	0.00	98.65	
11/17/84		8.40	8.40	0.00	99.00	
02/22/85		8.72	8.72	0.00	98.68	
05/24/85		8.83	8.83	0.00	98.77	
08/23/85		8.50	8.50	0.00	100.90	
11/17/85		9.15	9.15	0.00	98.25	
MW-5	08/08/82	105.19	7.18	7.18	0.00	99.00
	10/29/82		8.98	8.98	0.00	98.23
	11/23/82		8.90	8.90	0.00	98.23
	08/18/83		7.08	7.08	0.00	98.13
	11/17/83		8.91	8.91	0.00	98.23
	02/21/84		5.52	5.52	0.00	98.67
	05/11/84		8.18	8.18	0.00	99.01
	08/12/84		8.81	8.81	0.00	98.38
	11/17/84		5.58	5.58	0.00	98.81
	02/22/85		8.25	8.25	0.00	98.94

33004128W0857BLSXLS1Table2

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February 15, 1998

Table 2 (continued)
Liquid Surface Elevation Data

ARCO Service Station 4494
508 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Depth to Liquid (feet, TOC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-5 (cunk.)	05/23/85		6.30	6.30	0.00	88.89
	08/23/85		6.50	6.50	0.00	88.29
	11/17/85		7.02	7.02	0.00	88.17
MW-6	08/06/82	105.07	7.01	7.01	0.00	88.06
	10/29/82		6.70	6.70	0.00	88.97
	11/23/82		6.75	6.75	0.00	88.82
	08/15/83		6.71	6.71	0.00	88.93
	11/17/83		6.57	6.57	0.00	88.40
	02/21/84		6.51	6.51	0.00	89.78
	05/11/84		6.58	6.58	0.00	89.09
	08/12/84		6.60	6.60	0.00	88.47
	11/17/84		6.09	6.09	0.00	88.68
	02/22/85		6.88	6.88	0.00	89.22
	05/24/85		6.82	6.82	0.00	88.18
	08/23/85		6.50	6.50	0.00	88.57
	11/17/85		6.75	6.75	0.00	88.82
	08/09/82	105.52	8.28	8.28	0.00	87.24
	10/29/82		8.22	8.22	0.00	88.80
	11/23/82		8.21	8.21	0.00	87.31
	08/15/83		8.11	8.11	0.00	87.41
11/17/83		8.11	8.11	0.00	87.41	
02/21/84		7.84	7.84	0.00	88.18	
05/11/84		7.45	7.45	0.00	88.07	
08/12/84		8.13	8.13	0.00	87.39	
11/17/84		7.90	7.90	0.00	87.82	
02/22/85		8.49	8.49	0.00	87.12	
05/24/85		8.29	8.29	0.00	87.28	
08/23/85		8.90	8.90	0.00	88.82	
11/17/85		8.73	8.73	0.00	88.78	
RW-1	08/16/83	NM				
	11/17/83					
	02/21/84		7.59	7.59	0.00	NM
	05/11/84		7.55	7.55	0.00	NM
	08/12/84		7.58	7.58	0.00	NM
	11/17/84		7.65	7.65	0.00	NM
	02/22/85		8.00	8.00	0.00	NM
	05/24/85		8.10	8.10	0.00	NM
08/23/85		8.67	8.67	0.00	NM	
11/17/85		8.15	8.15	0.00	NM	

MSL = Mean sea level
TOC = Top of casing
* = Separate-phase hydrocarbons present in well.
** = Stillwater installed (12/24/81).
NM = Not measured

Table 3
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, and Total Oil and Grease)

ARCO Service Station 4494
568 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	TEPH as Diesel (ppb)	Total Oil and Grease (ppm)	
MW-1	08/18/90	<.50	<.50	<.50	<.50	<.50	<.50	<500	
	08/18/90	<.50	<.50	<.50	<.50	<.50	<.50	N/A	
	09/07/90	N/A	N/A	N/A	N/A	N/A	N/A	<500	
	11/29/90	<.50	<.50	0.7	<.50	<.50	N/A	N/A	
	03/07/91	<.50	<.50	<.50	<.30	<.30	N/A	N/A	
	06/27/91	<.50	<.50	<.50	<.30	<.30	N/A	N/A	
	09/30/91	<.50	<.50	<.50	<.30	<.30	N/A	N/A	
	12/18/91	<.50	<.50	<.50	<.30	<.30	N/A	N/A	
	03/20/92	<.50	<.50	<.50	<.30	<.30	N/A	N/A	
	06/06/92	<.50	<.50	<.50	<.30	<.30	N/A	N/A	
	08/09/92	<.50	<.50	<.50	<.30	<.30	N/A	N/A	
	10/29/92	<.50	<.50	<.50	<.30	<.30	N/A	N/A	
	03/18/93	<.50	<.50	<.50	<.30	<.30	N/A	N/A	
	11/17/93	<.50	<.50	<.50	<.30	<.30	N/A	N/A	
	02/22/94	<.50	<.50	<.50	<.30	<.30	N/A	N/A	
	05/11/94	<.50	<.50	<.50	<.30	<.30	N/A	N/A	
	09/12/94	<.50	<.50	<.50	<.30	<.30	N/A	N/A	
	11/17/94	<.50	<.50	<.50	<.30	<.30	N/A	N/A	
	02/22/95	Well Sampled Annually							
	05/24/95	<.50	<.50	<.50	<.50	<.50	N/A	N/A	
09/23/95	Well Sampled Annually								
11/17/95	Well Sampled Annually								
MW-2	08/18/90	0.52 foot of Separate-Phase Hydrocarbons							
	08/18/90	0.17 foot of Separate-Phase Hydrocarbons							
	09/07/90	Separate-Phase Hydrocarbons							
	11/29/90	Separate-Phase Hydrocarbons							
	03/07/91	Separate-Phase Hydrocarbons							
	06/27/91	Separate-Phase Hydrocarbons							
	09/30/91	Separate-Phase Hydrocarbons							
	12/18/91	Separate-Phase Hydrocarbons							
	03/20/92	48,000	2,000	690	2,300	7,000	N/A	N/A	
	06/06/92	43,000	2,900	940	240	6,100	N/A	N/A	
08/09/92	78,000	2,500	6,700	2,900	16,000	N/A	N/A		
10/29/92	NS	NS	NS	NS	NS	NS	NS		
12/09/92	Well Destroyed								
MW-3	08/18/90	<.50	<.50	<.50	<.50	<.50	N/A	N/A	
	08/18/90	N/A	N/A	N/A	N/A	N/A	N/A	<5,000	
	09/07/90	<.50	<.50	<.50	<.50	<.50	N/A	N/A	
	11/29/90	<.50	<.50	<.50	<.50	<.50	N/A	N/A	
	03/07/91	<.50	<.50	<.50	<.50	<.50	N/A	N/A	
	06/27/91	<.50	<.50	<.50	<.50	<.50	N/A	N/A	
	09/30/91	<.50	<.50	<.50	<.50	<.50	N/A	N/A	
	12/18/91	<.50	<.50	<.50	<.50	<.50	N/A	N/A	
	03/20/92	<.50	<.50	<.50	<.50	<.50	N/A	N/A	
	06/06/92	<.50	<.50	<.50	<.50	<.50	N/A	N/A	
	08/09/92	<.50	<.50	<.50	<.50	<.50	N/A	N/A	
	10/29/92	<.50	<.50	<.50	<.50	<.50	N/A	N/A	
	03/18/93	<.50	<.50	<.50	<.50	<.50	N/A	N/A	
11/17/93	<.50	<.50	<.50	<.50	<.50	N/A	N/A		

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February 15, 1998

Table 3 (continued)
 Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPH as Gasoline, BTEX Compounds, TEPH as Diesel, and Total Oil and Grease)

ARCO Service Station 4494
 568 Hegenberger Road at Estes Avenue
 Oakland, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	TEPH as Diesel (ppb)	Total Oil and Grease (ppm)
MW-3 (cont.)	02/22/94	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	05/11/94	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	05/12/94	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	11/17/94	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	02/22/95	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	05/24/95	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	11/17/95	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
		Well Sampled Annually						
		Well Sampled Annually						
		Well Sampled Annually						
MW-4	05/18/90	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	05/07/90	N/A	N/A	N/A	N/A	N/A	N/A	<5.000
	11/29/90	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	03/07/91	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	05/27/91	<0.5	0.75	1.1	0.30	1.6	N/A	N/A
	05/30/91	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	12/15/91	<0.5	0.55	1.2	0.30	0.60	N/A	N/A
	05/20/92	<0.5	0.50	0.50	0.50	0.50	N/A	N/A
	05/20/92	<0.5	0.50	0.50	0.50	0.50	N/A	N/A
	05/20/92	<0.5	0.50	0.50	0.50	0.50	N/A	N/A
	10/23/92	<0.5	0.5	0.5	0.5	0.5	N/A	N/A
	05/15/93	<0.5	0.5	0.5	0.5	0.5	N/A	N/A
	11/17/93	<0.5	0.5	0.5	0.5	0.5	N/A	N/A
	02/22/94	<0.5	0.5	0.5	0.5	0.5	N/A	N/A
	05/11/94	<0.5	0.5	0.5	0.5	0.5	N/A	N/A
	05/12/94	<0.5	0.5	0.5	0.5	0.5	N/A	N/A
	11/17/94	<0.5	0.5	0.5	0.5	0.5	N/A	N/A
02/22/95	<0.5	0.5	0.5	0.5	0.5	N/A	N/A	
05/24/95	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
05/23/95	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
11/17/95	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
		Well Sampled Annually						
		Well Sampled Annually						
		Well Sampled Annually						
MW-5	05/06/92	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	10/24/92	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	05/15/93	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	11/17/93	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	02/22/94	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	05/11/94	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	05/12/94	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	11/17/94	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	02/22/95	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	05/24/95	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
05/23/95	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
11/17/95	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
		Well Sampled Annually						
		Well Sampled Annually						
		Well Sampled Annually						
MW-6	05/06/92	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	10/25/92	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	05/15/93	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	11/17/93	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	02/22/94	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	05/11/94	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	05/12/94	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A
11/17/94	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
02/22/95	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
		Well Sampled Annually						

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Table 3 (continued)
 Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, and Total Oil and Grease)

ARCO Service Station 4494
 536 Meganberger Road at Edes Avenue
 Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	TEPH as Diesel (ppb)	Total Oil and Grease (ppm)
AR-8 (cont.)	03/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A
	06/23/95							
	11/17/95							
Well Sampled Annually								
MW-7	09/08/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	06/18/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	02/22/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	05/11/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	08/12/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	11/17/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	02/22/95							
	03/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A
	06/23/95							
11/17/95								
Well Sampled Annually								
RW-1	06/18/93	NS	NS	NS	NS	NS	NS	NS
	11/17/93	NS	NS	NS	NS	NS	NS	NS
	02/22/94	280	2,100	19	40	68	N/A	N/A
	05/11/94	3,300	32	28	87	310	N/A	N/A
	08/12/94	4,800	49	69	180	400	N/A	N/A
	11/17/94	1,400	38	21	28	210	N/A	N/A
	02/22/95	8,100	140	<10	550	560	N/A	N/A
	05/24/95	940	53	0.78	11	1.4	N/A	N/A
	06/23/95	620	2.1	23	0.67	0.67	N/A	N/A
	11/17/95	1,100	7.8	21	48	180	N/A	N/A

ppb = Parts per billion
 ppm = Parts per million
 N/A = Not applicable
 NS = Not sampled

Table 4
Groundwater Analytical Data
Total Methyl t-Butyl Ether

ARCO Service Station 4494
533 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Sampled	Methyl t-Butyl Ether (ppb)
MW-1	08/23/95	NS
MW-2	08/23/95	NS
MW-3	08/23/95	NS
MW-4	08/23/95	NS
MW-5	08/23/95	NS
MW-6	08/23/95	NS
MW-7	08/23/95	NS
RW-1	08/23/95	13

ppb = Parts per Billion
NS = Not sampled
See certified analytical report for detection limit.

APPENDIX C

GEOTRACKER UPLOAD CONFIRMATIONS

Electronic Submittal Information

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UPLOADING A GEO_WELL FILE

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

Submittal Title: 1Q07 GEO_WELL 4494

Submittal Date/Time: 4/3/2007 2:54:42 PM

Confirmation Number: 7472366154

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Your EDF file has been successfully uploaded!

Confirmation Number: 3757635414

Date/Time of Submittal: 4/3/2007 2:57:59 PM

Facility Global ID: T0600100104

Facility Name: ARCO #4494

Submittal Title: 1Q07 GW Monitoring

Submittal Type: GW Monitoring Report

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

ARCO #4494 566 HEGENBERGER OAKLAND, CA 94621	Regional Board - Case #: 01-0112 SAN FRANCISCO BAY RWQCB (REGION 2) - (CM) Local Agency (lead agency) - Case #: RO0000204 ALAMEDA COUNTY LOP - (SP)
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<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
3757635414	1Q07 GW Monitoring	Q1 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	4/3/2007	PENDING REVIEW

SAMPLE DETECTIONS REPORT

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

METHOD QA/QC REPORT

METHODS USED	8260FA,8260TPH
TESTED FOR REQUIRED ANALYTES?	Y
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

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