

Atlantic Richfield Company

(a BP affiliated company)

P.O. Box 1257

San Ramon, CA 94583 Phone: (925) 275-3801 Fax: (925) 275-3815

30 October 2007



10:17 am, Nov 02, 2007





Re: Third Quarter 2007 Annual Ground-Water Monitoring Report

Atlantic Richfield Company Station #6148

5131 Shattuck Avenue Oakland, California ACEH Case #RO0000077

"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

Third Quarter 2007 Annual Ground-Water Monitoring Report

Atlantic Richfield Company Station #6148 5131 Shattuck Avenue 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

30 October 2007

Project No. 06-08-638



30 October 2007

Project No. 06-08-638

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

Attn.: Mr. Paul Supple

Re:

Third Quarter 2007 Annual Ground-Water Monitoring Report, Atlantic Richfield Company (a BP affiliated company) Station #6148, 5131 Shattuck Avenue, Oakland, Alameda County, California; ACEH Case #RO000077

Dear Mr. Supple:

Provided herein is the Third Quarter 2007 Annual Ground-Water Monitoring Report for Atlantic Richfield Company Station #6148 (herein referred to as Station #6148) located at 5131 Shattuck Avenue, Oakland, Alameda County, California (Property). This report presents results of annual ground-water monitoring conducted during Third Quarter 2007. Case closure was requested by BP from Alameda County Environmental Health (ACEH) on 13 April 2004. BP is currently awaiting a response from ACEH.

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

Mr. Steven Plunkett, ACEH (Submitted via ACEH ftp Site) cc:

Electronic copy uploaded to GeoTracker

TEXAS NEVADA

ROBERT H. MILLER

STATION #6148 ANNUAL GROUND-WATER MONITORING REPORT

Facility: #6148 Address: 5131 Shattuck Avenue, Oakland

Environmental Business Manager: Mr. Paul Supple

Consulting Co./Contact Persons: Broadbent & Associates, Inc.(BAI)/Rob Miller & Tom Venus

(530) 566-1400

Consultant Project No.: 06-08-638

Primary Agency/Regulatory ID No.: Alameda County Environmental Health (ACEH)

ACEH Case #RO0000077

Facility Permits/Permitting Agency.: NA

WORK PERFORMED THIS QUARTER (Third Quarter 2007):

1. Prepared and submitted Second Quarter 2007 Status Report.

2. Conducted Third Quarter 2007 annual ground-water monitoring/sampling. Work performed by Stratus Environmental, Inc (Stratus) on 15 August 2007.

WORK PROPOSED FOR NEXT QUARTER (Fourth Quarter 2007):

1. Prepared and submitted this Third Quarter 2007 Annual Ground-Water Monitoring Report (contained herein).

2. No environmental work is scheduled to be completed during Fourth Quarter 2007.

QUARTERLY RESULTS SUMMARY:

Current phase of project: **Ground-water monitoring/sampling** Annually (30): Wells MW-1 through MW-7 Frequency of ground-water monitoring: Frequency of ground-water sampling: Annually (3Q): Wells MW-1 through MW-7 Is free product (FP) present on-site: No FP recovered this quarter: None Cumulative FP recovered: None Current remediation techniques: Not Applicable Depth to ground water (below TOC): 14.47 ft (MW-6) to 17.92 ft (MW-1) General ground-water flow direction: Southwest Approximate hydraulic gradient: 0.015 ft/ft

DISCUSSION:

Third quarter 2007 ground-water monitoring and sampling was conducted at Station #6148 on 15 August 2007 by Stratus personnel. Water levels were gauged in six of the seven wells at the Site. Well MW-5 was behind a locked gate and could not be accessed. Upon approval by the station manager, a technician will cut the lock and replace it during the next site visit. No other irregularities were noted during water level gauging. Depth to water measurements ranged from 14.47 ft at MW-6 to 17.92 ft at MW-1. Resulting ground-water surface elevations ranged from 97.49 ft above mean sea level in upgradient well MW-7 to 95.17 ft above mean sea level in down-gradient well MW-3. Water level elevations were between historic minimum and maximum ranges for each well, as summarized in Table 1. Water level elevations yielded a potentiometric ground-water flow direction and gradient to the southwest at approximately 0.015 ft/ft, consistent with 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.

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Ground-water samples were collected from six of the seven wells at the Site. Well MW-5 was behind a locked gate and could not be accessed as previously mentioned. 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), Disopropyl 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. Ground-water sampling field data sheets and the laboratory analytical report, including chain of custody documentation, are provided in Appendix A.

No chemical constituents analyzed for were detected above their laboratory reporting limits in the six wells sampled this quarter. Historic laboratory analytical results are summarized in Table 1 and Table 2. The most recent GRO, Benzene, and MTBE concentrations (i.e. ND) are also presented in Drawing 1. A copy of the Laboratory Analytical Report, including chainof-custody documentation is provided in Appendix A. Ground-water monitoring data (GEO_WELL) and laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 database. Upload confirmation pages are provided in Appendix B.

Case closure was requested by BP on 13 April 2004 from ACEH. BP is currently awaiting a response from the ACEH to the case closure request.

CLOSURE:

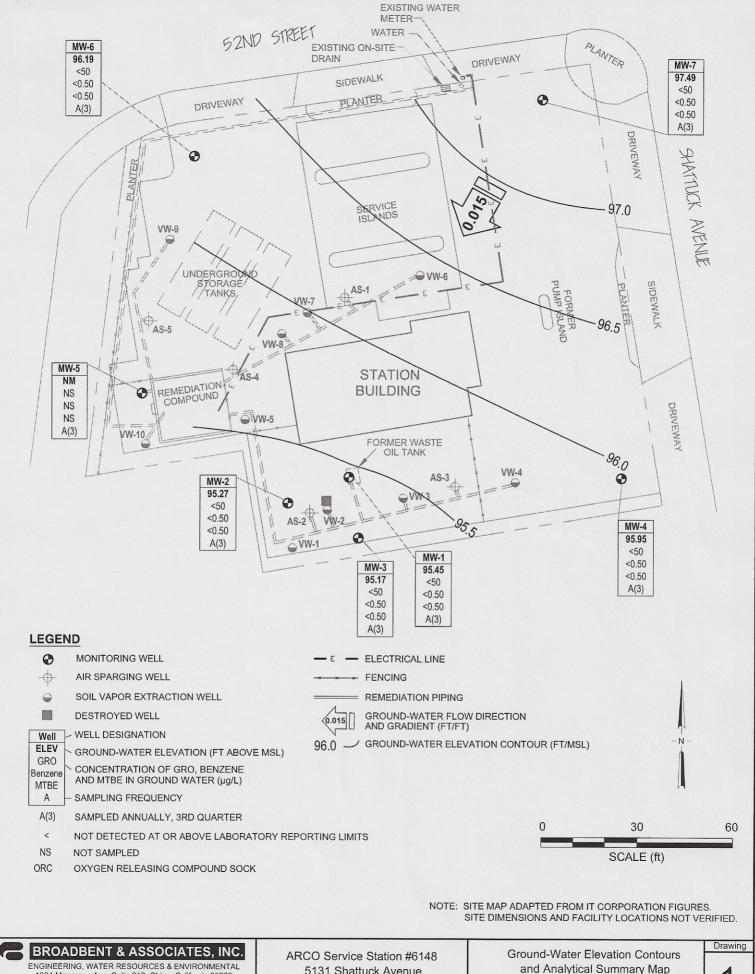
The findings presented in this report are based upon: observations of Stratus field personnel (see Appendix A), the points investigated, and results of laboratory tests performed by Test America (Morgan Hill, CA). Our services were performed in accordance with the generally accepted standard of practice 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, 15 August 2007, Station #6148, 5131 Shattuck Avenue, Oakland, California
- Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #6148, 5131 Shattuck Ave., Oakland, CA
- Table 2. Summary of Fuel Additives Analytical Data, Station #6148, 5131 Shattuck Ave., Oakland, CA
- Table3. Historical Ground-Water Flow Direction and Gradient, Station #6148, 5131 Shattuck Ave., 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. GeoTracker Upload Confirmation



1324 Mangrove Ave. Suite 212, Chico, California 95926 Project No.: 06-08-638 Date: 9/18/07

5131 Shattuck Avenue Oakland, California

and Analytical Summary Map 15 August 2007

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6148, 5131 Shattuck Ave., Oakland, CA

				Top of	Bottom of		Water Level		(Concentra	tions in (µ;	g/L)			
Well and			TOC	Screen	Screen	DTW	Elevation	GRO/			Ethyl-	Total		DO	
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	pН
MW-1															
6/21/2000			107.80	13.00	26.00	17.49	90.31	< 50	< 0.5	< 0.5	< 0.5	<1.0	<3.0		
9/20/2000			107.80	13.00	26.00	17.64	90.16	< 50	< 0.5	0.677	< 0.5	0.969	<2.5		
12/22/2000			107.80	13.00	26.00	16.87	90.93	186	5.38	0.522	9.52	30.2	8.91		
3/26/2001			107.80	13.00	26.00	16.60	91.20	< 50	< 0.5	< 0.5	< 0.5	< 0.5	9.1		
5/30/2001			107.80	13.00	26.00	17.10	90.70	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5		
9/23/2001			107.80	13.00	26.00	17.53	90.27	< 50	< 0.5	< 0.5	< 0.5	< 0.5	6.7		
12/28/2001			107.80	13.00	26.00	15.57	92.23	< 50	2.7	< 0.5	< 0.5	< 0.5	20		
3/21/2002			107.80	13.00	26.00	15.57	92.23								
4/17/2002			107.80	13.00	26.00	16.25	91.55	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5		
8/19/2002			107.80	13.00	26.00	17.69	90.11	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	2.0	7.1
11/27/2002			107.80	13.00	26.00	17.45	90.35	< 50	< 0.50	1.8	0.65	3.5	1.7	1.0	6.3
2/5/2003		d	107.80	13.00	26.00	16.93	90.87	< 50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	1.2	7.3
5/13/2003			107.80	13.00	26.00	16.95	90.85	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0	6.5
7/31/2003			107.80	13.00	26.00	17.74	90.06	< 50	< 0.50	< 0.50	< 0.50	< 0.50	0.55	1.2	6
12/17/2003	NP		107.80	13.00	26.00	17.03	90.77	< 50	< 0.50	< 0.50	< 0.50	< 0.50	2.5	2.0	6.5
05/05/2004	NP		113.37	13.00	26.00	17.28	96.09	< 50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	2.6	6.4
08/25/2004	NP		113.37	13.00	26.00	17.72	95.65	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.2	6.9
11/29/2004	NP		113.37	13.00	26.00	17.45	95.92	< 50	< 0.50	< 0.50	< 0.50	< 0.50	0.62	0.92	6.8
01/31/2005	NP		113.37	13.00	26.00	16.67	96.70	< 50	< 0.50	< 0.50	< 0.50	< 0.50	0.59	1.63	6.1
05/09/2005	NP		113.37	13.00	26.00	16.77	96.60	< 50	< 0.50	< 0.50	< 0.50	< 0.50	0.55	1.03	6.7
08/10/2005	NP		113.37	13.00	26.00	17.76	95.61	< 50	< 0.50	< 0.50	< 0.50	< 0.50	0.62	0.9	7.0
8/29/2006	P		113.37	13.00	26.00	17.63	95.74	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.5	6.6
8/15/2007	NP		113.37	13.00	26.00	17.92	95.45	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.09	7.14
MW-2															
6/21/2000			107.28	14.00	26.00	17.19	90.09	69	< 0.5	< 0.5	<0.5	<1.0	12		
9/20/2000			107.28	14.00	26.00	17.31	89.97	< 50	0.964	< 0.5	< 0.5	<.05	5.05		
12/22/2000			107.28	14.00	26.00	16.58	90.70	2,140	174	60.2	118	438	123		
3/26/2001			107.28	14.00	26.00	16.45	90.83	8,490	333	148	495	1,660	<250		
5/30/2001			107.28	14.00	26.00	16.83	90.45	4,700	200	71	260	780	43		
9/23/2001			107.28	14.00	26.00	17.30	89.98	160	5.9	1.8	0.8	41	14		

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6148, 5131 Shattuck Ave., Oakland, CA

				Top of	Bottom of		Water Level			Concentra	tions in (µ	g/L)			
Well and			TOC	Screen	Screen	DTW	Elevation	GRO/			Ethyl-	Total		DO	
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	pН
MW-2 Cont.															
12/28/2001			107.28	14.00	26.00	15.38	91.90	1,800	54	< 5.0	<5.0	240	30		
3/21/2002			107.28	14.00	26.00	15.36	91.92								
4/17/2002			107.28	14.00	26.00	16.01	91.27	<50	< 0.5	< 0.5	< 0.5	< 0.5	10		
8/19/2002		a	107.28	14.00	26.00	17.53	89.75	170	22	0.92	14	26	<2.5	3.0	6.9
11/27/2002			107.28	14.00	26.00	17.21	90.07	340	22	0.68	13	26	< 0.50	1.6	6.6
2/5/2003		d	107.28	14.00	26.00	16.72	90.56	83	2.7	< 0.50	0.97	15	4.3	0.7	7.0
05/13/2003	NP	f	107.28	14.00	26.00	16.72	90.56	<50	0.91	< 0.50	< 0.50	0.6	2.8	0.7	6.5
7/31/2003			107.28	14.00	26.00	17.51	89.77	<50	< 0.50	< 0.50	< 0.50	< 0.50	2.0	7.1	6.7
12/17/2003	NP		107.28	14.00	26.00	16.78	90.50	51	1.0	< 0.50	< 0.50	< 0.50	2.4	8.1	7.1
02/13/2004	NP	e	112.87	14.00	26.00	16.63	96.24	50	0.70	< 0.50	0.54	0.90	1.6	5.6	6.7
05/05/2004	NP		112.87	14.00	26.00	17.04	95.83	<50	< 0.50	< 0.50	< 0.50	< 0.50	0.99	4.3	6.9
08/25/2004	NP		112.87	14.00	26.00	17.55	95.32	<50	< 0.50	< 0.50	< 0.50	< 0.50	0.63	7.5	6.6
11/29/2004	NP		112.87	14.00	26.00	17.24	95.63	85	10	< 0.50	4.6	1.0	0.55	1.41	6.9
01/31/2005	NP		112.87	14.00	26.00	16.48	96.39	<50	< 0.50	< 0.50	< 0.50	< 0.50	1.2	0.76	6.1
05/09/2005	NP		112.87	14.00	26.00	16.52	96.35	<50	0.68	< 0.50	< 0.50	< 0.50	1.8	0.7	6.6
08/10/2005	NP		112.87	14.00	26.00	17.48	95.39	< 50	1.8	< 0.50	< 0.50	< 0.50	1.5	0.62	6.7
8/29/2006	P		112.87	14.00	26.00	17.33	95.54	660	6.4	< 0.50	1.5	2.5	< 0.50	0.8	6.4
8/15/2007	NP		112.87	14.00	26.00	17.60	95.27	<50	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	0.75	6.81
MW-3															
6/21/2000			107.61	14.00	26.00	17.52	90.09	200	<0.5	< 0.5	< 0.5	2.1	24		
9/20/2000			107.61	14.00	26.00	17.61	90.00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	20		
12/22/2000			107.61	14.00	26.00	16.85	90.76	227	4.73	1.06	2.58	5.22	27.3		
3/26/2001			107.61	14.00	26.00	16.79	90.82	287	6.29	1.58	6.47	12.1	24.2		
5/30/2001			107.61	14.00	26.00	17.11	90.50	500	10	< 0.5	7.00	16	20		
9/23/2001			107.61	14.00	26.00	17.57	90.04	400	6.4	0.74	< 0.5	0.62	22		
12/28/2001			107.61	14.00	26.00	15.41	92.20	270	2.5	2.4	< 0.5	2.3	9.2		
3/21/2002			107.61	14.00	26.00	15.58	92.03								
4/17/2002			107.61	14.00	26.00	16.25	91.36	360	2.5	0.72	< 0.5	<0.5	12		
8/19/2002		b	107.61	14.00	26.00	17.66	89.95	750	11	2.1	< 0.5	2.4	14	1.4	6.8
11/27/2002			107.61	14.00	26.00	17.69	89.92	470	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	6.6

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6148, 5131 Shattuck Ave., Oakland, CA

				Top of	Bottom of		Water Level			Concentra	tions in (µ;	g/L)			
Well and			TOC	Screen	Screen	DTW	Elevation	GRO/			Ethyl-	Total		DO	
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msl)	ТРНд	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	pН
MW-3 Cont.															
2/5/2003		d	107.61	14.00	26.00	16.82	90.79	< 50	< 0.50	< 0.50	< 0.50	< 0.50	2.4	1.3	6.6
5/13/2003			107.61	14.00	26.00	17.12	90.49	300	< 0.50	< 0.50	< 0.50	< 0.50	2.2	1.4	6.7
7/31/2003			107.61	14.00	26.00	17.72	89.89	320	< 0.50	< 0.50	< 0.50	< 0.50	2.1	1.4	6.8
12/17/2003	NP		107.61	14.00	26.00	16.95	90.66	340	0.51	< 0.50	< 0.50	< 0.50	4.8	1.3	6.7
02/13/2004	NP	e	113.05	14.00	26.00	16.77	96.28	<50	< 0.50	< 0.50	< 0.50	< 0.50	3.1	2.1	7.1
05/05/2004	NP		113.05	14.00	26.00	17.22	95.83	< 50	< 0.50	< 0.50	< 0.50	< 0.50	1.3	1.2	6.9
08/25/2004	NP		113.05	14.00	26.00	17.66	95.39	<50	< 0.50	< 0.50	< 0.50	< 0.50	3.3	1.2	7.1
11/29/2004	NP		113.05	14.00	26.00	17.47	95.58	110	< 0.50	< 0.50	< 0.50	< 0.50	1.4	1.0	6.9
01/31/2005	NP		113.05	14.00	26.00	16.16	96.89	<50	< 0.50	< 0.50	< 0.50	< 0.50	2.0	0.87	6.2
05/09/2005	NP		113.05	14.00	26.00	16.64	96.41	50	< 0.50	< 0.50	< 0.50	< 0.50	0.80	0.83	6.7
08/10/2005	NP		113.05	14.00	26.00	17.59	95.46	65	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.82	6.7
8/29/2006	P		113.05	14.00	26.00	17.60	95.45	< 50	< 0.50	< 0.50	< 0.50	0.74	0.51	1.0	6.4
8/15/2007	NP		113.05	14.00	26.00	17.88	95.17	<50	<0.50	<0.50	<0.50	<0.50	< 0.50	0.74	6.67
MW-4															
6/21/2000			106.71	11.50	26.50	16.00	90.71	1,400	5.3	7.3	36	85	4		
9/20/2000			106.71	11.50	26.50	16.03	90.68	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5		
12/22/2000			106.71	11.50	26.50										
3/26/2001			106.71	11.50	26.50	15.05	91.66	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5		
5/30/2001			106.71	11.50	26.50	15.62	91.09								
9/23/2001			106.71	11.50	26.50	16.07	90.64	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5		
12/28/2001			106.71	11.50	26.50	13.68	93.03								
3/21/2002			106.71	11.50	26.50	14.04	92.67	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5		
4/17/2002			106.71	11.50	26.50	14.78	91.93								
8/19/2002			106.71	11.50	26.50	16.18	90.53	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	1.4	6.8
11/27/2002			106.71	11.50	26.50	15.89	90.82								
2/5/2003		d	106.71	11.50	26.50	15.40	91.31	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	6.6
5/13/2003			106.71	11.50	26.50	15.42	91.29								
7/31/2003			106.71	11.50	26.50	16.23	90.48	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.4	6.4
12/17/2003			106.71	11.50	26.50	15.57	91.14								
02/13/2004	P	e	112.15	11.50	26.50	15.30	96.85	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	6.3

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6148, 5131 Shattuck Ave., Oakland, CA

				Top of	Bottom of		Water Level			Concentra	tions in (µ	g/L)			
Well and			TOC	Screen	Screen	DTW	Elevation	GRO/			Ethyl-	Total		DO	
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	pН
MW-4 Cont.															
05/05/2004			112.15	11.50	26.50	15.69	96.46								
08/25/2004	P		112.15	11.50	26.50	16.07	96.08	< 50	< 0.50	< 0.50	< 0.50	0.51	< 0.50	1.6	6.4
11/29/2004			112.15	11.50	26.50	15.86	96.29								
01/31/2005	P		112.15	11.50	26.50	15.17	96.98	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.61	6.2
05/09/2005			112.15	11.50	26.50	15.25	96.90								
08/10/2005	P		112.15	11.50	26.50	16.23	95.92	< 50	< 0.50	0.50	< 0.50	1.1	< 0.50	0.68	6.5
8/29/2006	P		112.15	11.50	26.50	16.04	96.11	<50	< 0.50	< 0.50	< 0.50	0.53	< 0.50	1.2	6.5
8/15/2007	NP		112.15	11.50	26.50	16.20	95.95	<50	< 0.50	< 0.50	<0.50	<0.50	< 0.50	1.09	7.92
MW-5															
3/26/2000			106.60	10.00	25.00	15.45	91.15	767	12.4	< 5.0	<5.0	<5.0	163		
6/21/2000			106.60	10.00	25.00	16.52	90.08	67	< 0.5	< 0.5	< 0.5	<1.0	10		
9/20/2000			106.60	10.00	25.00	16.34	90.26	< 50	< 0.5	< 0.5	< 0.5	< 0.5	3.48		
12/22/2000			106.60	10.00	25.00	15.58	91.02	341	11.5	2.53	4.02	6.25	146		
5/30/2001			106.60	10.00	25.00	15.77	90.83	110	2.3	< 0.5	< 0.5	0.81	72		
9/23/2001			106.60	10.00	25.00	16.16	90.44	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5		
12/28/2001			106.60	10.00	25.00	14.09	92.51	240	2.8	1.9	< 0.5	2.6	48		
3/21/2002			106.60	10.00	25.00	14.43	92.17		< 0.5	< 0.5	< 0.5	< 0.5			
4/17/2002			106.60	10.00	25.00	14.96	91.64	<50	<0.5	< 0.5	< 0.5	< 0.5	<2.5		
8/19/2002		c	106.60	10.00	25.00	16.34	90.26								
11/27/2002		c	106.60	10.00	25.00										
2/5/2003		c, d	106.60	10.00	25.00										
5/13/2003	NP	f	106.60	10.00	25.00	15.43	91.17	<50	< 0.50	< 0.50	< 0.50	< 0.50	15	1.4	6.2
7/31/2003			106.60	10.00	25.00	16.47	90.13	< 50	< 0.50	< 0.50	< 0.50	< 0.50	1.2	14.1	8.1
12/17/2003	NP		106.60	10.00	25.00	15.99	90.61	<50	< 0.50	< 0.50	< 0.50	< 0.50	1.8	15.4	8.5
02/13/2004	NP	e	112.04	10.00	25.00	15.90	96.14	< 50	< 0.50	< 0.50	< 0.50	< 0.50	2.6	11.1	7.0
05/05/2004	NP		112.04	10.00	25.00	16.28	95.76	51	< 0.50	< 0.50	< 0.50	< 0.50	1.2	0.8	7.2
08/25/2004	NP		112.04	10.00	25.00	16.67	95.37	< 50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	10.5	
11/29/2004	NP		112.04	10.00	25.00	16.37	95.67	<50	< 0.50	< 0.50	< 0.50	< 0.50	0.61	1.0	7.0
01/31/2005	NP		112.04	10.00	25.00	15.73	96.31	< 50	< 0.50	< 0.50	< 0.50	< 0.50	0.86	1.63	6.3
05/09/2005	NP		112.04	10.00	25.00	15.90	96.14	<50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	1.12	7.2

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6148, 5131 Shattuck Ave., Oakland, CA

				Top of	Bottom of		Water Level			Concentra	tions in (µ	g/L)			
Well and			TOC	Screen	Screen	DTW	Elevation	GRO/			Ethyl-	Total		DO	
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	pН
MW-5 Cont.															
08/10/2005	NP		112.04	10.00	25.00	16.65	95.39	740	< 0.50	< 0.50	< 0.50	< 0.50	2.5		7.3
8/29/2006	P		112.04	10.00	25.00	16.60	95.44	230	< 0.50	< 0.50	< 0.50	< 0.50	1.1		6.4
MW-6															
6/21/2000			105.13	12.00	27.00	13.91	91.22								
9/20/2000			105.13	12.00	27.00	14.03	91.10								
12/22/2000			105.13	12.00	27.00										
3/26/2001			105.13	12.00	27.00	12.59	92.54	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5		
5/30/2001			105.13	12.00	27.00	13.40	91.73								
9/23/2001			105.13	12.00	27.00	13.49	91.64								
12/28/2001			105.13	12.00	27.00	12.07	93.06								
3/21/2002			105.13	12.00	27.00	11.79	93.34	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5		
4/17/2002			105.13	12.00	27.00	12.45	92.68								
8/19/2002			105.13	12.00	27.00	13.96	91.17	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	2.8	6.9
11/27/2002			105.13	12.00	27.00	14.07	91.06								
2/5/2003		d	105.13	12.00	27.00	13.55	91.58								
5/13/2003			105.13	12.00	27.00	13.57	91.56								
7/31/2003			105.13	12.00	27.00	14.18	90.95	67	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.8	6.5
12/17/2003			105.13	12.00	27.00	14.12	91.01								
02/13/2004		e	110.66	12.00	27.00	13.51	97.15								
05/05/2004			110.66	12.00	27.00	13.95	96.71								
08/25/2004	P		110.66	12.00	27.00	14.42	96.24	55	< 0.50	0.98	< 0.50	1.5	< 0.50	3.6	6.7
11/29/2004			110.66	12.00	27.00	14.20	96.46								
01/31/2005			110.66	12.00	27.00	13.33	97.33								
05/09/2005			110.66	12.00	27.00	13.45	97.21								
08/10/2005	P		110.66	12.00	27.00	14.29	96.37	53	< 0.50	1.2	< 0.50	2.6	< 0.50	2.63	6.5
8/29/2006	P		110.66	12.00	27.00	14.29	96.37	< 50	< 0.50	< 0.50	< 0.50	<0.50	< 0.50		6.5
8/15/2007	NP		110.66	12.00	27.00	14.47	96.19	<50	<0.50	< 0.50	<0.50	<0.50	<0.50	2.19	6.81
MW-7															
6/21/2000			107.05	12.00	27.00	14.57	92.48								

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6148, 5131 Shattuck Ave., Oakland, CA

				Top of	Bottom of		Water Level			Concentra	tions in (μ	g/L)			
Well and Sample Date	P/NP	Comments	TOC (feet msl)	Screen (ft bgs)	Screen (ft bgs)	DTW (feet bgs)	Elevation (feet msl)	GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	МТВЕ	DO (mg/L)	pН
	1/141	Comments	(rect msi)	(It bgs)	(It bgs)	(Icct bgs)	(rect hist)	Ting	Belizelle	Totache	Benzene	zyrenes	WIIDE	(IIIg/L)	PII
MW-7 Cont.															
9/20/2000			107.05	12.00	27.00	14.58	92.47								
12/22/2000			107.05	12.00	27.00	13.21	93.84								
3/26/2001			107.05	12.00	27.00	13.18	93.87	71.4	<0.5	< 0.5	<0.5	< 0.5	<2.5		
5/30/2001			107.05	12.00	27.00	13.80	93.25								
9/23/2001			107.05	12.00	27.00	14.27	92.78								
12/28/2001			107.05	12.00	27.00	12.24	94.81								
3/21/2002			107.05	12.00	27.00	12.16	94.89	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5		
4/17/2002			107.05	12.00	27.00	13.08	93.97								
8/19/2002			107.05	12.00	27.00	14.73	92.32	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	1.4	6.7
11/27/2002			107.05	12.00	27.00	14.76	92.29								
2/5/2003		d	107.05	12.00	27.00	14.07	92.98								
5/13/2003			107.05	12.00	27.00	14.00	93.05								
7/31/2003			107.05	12.00	27.00	14.00	93.05	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.6	6.4
12/17/2003			107.05	12.00	27.00	14.10	92.95								
02/13/2004		e	112.59	12.00	27.00	13.91	98.68								
05/05/2004			112.59	12.00	27.00	14.60	97.99								
08/25/2004	P		112.59	12.00	27.00	15.25	97.34	<50	< 0.50	0.53	< 0.50	0.91	< 0.50	1.2	6.4
11/29/2004			112.59	12.00	27.00	15.00	97.59								
01/31/2005			112.59	12.00	27.00	13.69	98.90								
05/09/2005			112.59	12.00	27.00	13.79	98.80								
08/10/2005	P		112.59	12.00	27.00	15.02	97.57	< 50	< 0.50	0.51	< 0.50	< 0.50	< 0.50	1.45	6.4
8/29/2006	P		112.59	12.00	27.00	15.00	97.59	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.6	6.4
8/15/2007	NP		112.59	12.00	27.00	15.10	97.49	<50	<0.50	<0.50	<0.50	<0.50	< 0.50	1.00	7.03

SYMBOLS AND ABBREVIATIONS:

- -- = Not analyzed/applicable/measured/available
- < = Not detected at or above specified laboratory reporting limit

DO = Dissolved Oxygen

DTW = Depth to water in feet below ground surface

ft bgs = feet below ground surface

GWE = Groundwater measured in feet above mean sea level

GRO = Gasoline Range Organics

mg/L = Milligrams per liter or parts per million (ppm)

MTBE = Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted (Prior to 2/5/03)

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

ug/L = Micrograms per liter

FOOTNOTES:

a = Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel (TPHg/GRO).

b = Chromatogram Pattern: Gasoline C6-C10 (TPHg/GRO).

- c = Well MW-5 not sampled due to ORC sock wedged in well.
- d = TPH-g, BTEX, and MTBE analyzed by EPA meathod 8260B beginning on 1st quarter sampling event (2/5/03).
- e = Wells surveyed to NAVD'88 datum on January 29, 2004.
- f = During this monitoring event, the oxygen releasing compounds (ORC) were replaced for this well.

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 inclusion 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 was changed from C6-C10 to C4-C12.

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

The top and bottom of screen depths for wells MW-1, MW-2 and MW-3 were obtained from EMCON O&M sampling sheets not from well logs.

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 #6148, 5131 Shattuck Ave., Oakland, CA

Well and				Concentrati	ons in (µg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
MW-1									
2/5/2003	<40	<20	1.1	<0.50	<0.50	<0.50			
5/13/2003	<100	<20	<0.50	<0.50	<0.50	<0.50			
7/31/2003	<100	<20	0.55	<0.50	<0.50	<0.50	<0.50	<0.50	
12/17/2003	<100	<20	2.5	<0.50	<0.50	<0.50	<0.50	<0.50	
05/05/2004	<100	<20	0.60	<0.50	<0.50	<0.50	<0.50	<0.50	
08/25/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/29/2004	<100	<20	0.62	<0.50	<0.50	<0.50	<0.50	<0.50	a
01/31/2005	<100	<20	0.62	<0.50	<0.50	<0.50	<0.50	<0.50	
05/09/2005	<100	<20	0.55	<0.50	<0.50	<0.50	<0.50	<0.50	
08/10/2005	<100	<20	0.53	<0.50	<0.50	<0.50	<0.50	<0.50	
8/29/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/25/2000	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
	<300	~20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	U
MW-2									
2/5/2003	<40	<20	4.3	< 0.50	< 0.50	< 0.50			
5/13/2003	<100	<20	2.8	< 0.50	< 0.50	< 0.50			
7/31/2003	<100	<20	2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
12/17/2003	<100	<20	2.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
02/13/2004	<100	<20	1.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
05/05/2004	<100	<20	0.99	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
08/25/2004	<100	<20	0.63	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
11/29/2004	<100	<20	0.55	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
01/31/2005	<100	<20	1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
05/09/2005	<100	<20	1.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
08/10/2005	<100	<20	1.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
8/29/2006	<300	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
8/15/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
MW-3									
2/5/2003	<40	<20	2.4	< 0.50	< 0.50	< 0.50			
5/13/2003	<100	<20	2.2	< 0.50	< 0.50	< 0.50			
7/31/2003	<100	<20	2.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	

Table 2. Summary of Fuel Additives Analytical Data Station #6148, 5131 Shattuck Ave., Oakland, CA

Well and				Concentration	ons in (µg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
MW-3 Cont.									
12/17/2003	<100	<20	4.8	<0.50	< 0.50	<0.50	< 0.50	<0.50	
02/13/2004	<100	<20	3.1	<0.50	<0.50	<0.50	<0.50	<0.50	
05/05/2004	<100	<20	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	
08/25/2004	<100	<20	3.3	<0.50	<0.50	<0.50	<0.50	<0.50	
11/29/2004	<100	<20	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	
01/31/2005	<100	<20	2.0	<0.50	<0.50	<0.50	<0.50	<0.50	
05/09/2005	<100	<20	0.80	< 0.50	<0.50	<0.50	<0.50	<0.50	
08/10/2005	<100	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
8/29/2006	<300	<20	0.51	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
8/15/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
MW-4									
7/31/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	< 0.50	<0.50	
02/13/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
08/25/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
01/31/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
08/10/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/29/2006	<300	<20	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	
8/15/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
MW-5									
	100	20	1.5	0.50	0.50				
5/13/2003	<100	<20	15	<0.50	<0.50	1.1			
7/31/2003	<100	<20	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	
12/17/2003	<100	<20	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	
02/13/2004	<100	<20	2.6	<0.50	<0.50	<0.50	<0.50	<0.50	
05/05/2004	<100	<20	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	
08/25/2004 11/29/2004	<100	<20 <20	0.61	<0.50 <0.50	<0.50	<0.50	<0.50	<0.50	
01/31/2005	<100 <100	<20	0.86	<0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	
05/09/2005	<100	<20	0.86	<0.50	<0.50	<0.50	<0.50	<0.50	
08/10/2005	<100	<20	2.5	<0.50	<0.50	<0.50	<0.50	<0.50	
8/29/2006	<300	<20	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	
0/29/2000	<300	<20	1.1	<0.30	<0.30	<0.30	<0.50	<0.30	

Table 2. Summary of Fuel Additives Analytical Data Station #6148, 5131 Shattuck Ave., Oakland, CA

Well and				Concentrati	ons in (μg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
MW-6									
7/31/2003	<100	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
08/25/2004	<100	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
08/10/2005	<100	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
8/29/2006	<300	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
8/15/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
MW-7									
7/31/2003	<100	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
08/25/2004	<100	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
08/10/2005	<100	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
8/29/2006	<300	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
8/15/2007	<300	<20	<0.50	<0.50	< 0.50	<0.50	<0.50	<0.50	b

SYMBOLS AND ABBREVIATIONS:

- < = Not detected at or above the specified laboratory reporting limit
- -- = Not available/analyzed/applicable

DIPE = Di-isopropyl ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert butyl ether

MTBE = Methyl tert-butyl ether

1,2-DCA = 1,2-Dichloroethane

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

ug/L = micrograms per liter

FOOTNOTES:

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

b = Calib. Verif. Is within method limits but outside contract limits for Ethanol.

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 #6148, 5131 Shattuck Ave., Oakland, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
6/21/2000	South-Southwest	0.016
9/20/2000	South-Southwest	0.017
12/22/2000	South-Southwest	0.022
3/26/2001	South-Southwest	0.02
5/30/2001	South-Southwest	0.02
9/23/2001	South-Southwest	0.019
12/28/2001	Southwest	0.019
3/21/2002	Southwest	0.019
4/17/2002	Southwest	0.017
8/19/2002	Southwest	0.016
11/27/2002	Southwest	0.015
2/5/2003	Southwest	0.017
5/13/2003	Southwest	0.013
7/31/2003	Southwest	0.014
2/13/2004	Southwest	0.016
5/5/2004	Southwest	0.016
8/25/2004	Southwest	0.013
11/29/2004	Southwest	0.013
1/31/2005	Southwest	0.02
5/9/2005	Southwest	0.02
8/10/2005	Southwest	0.02
8/29/2006	Southwest	0.014
8/15/2007	Southwest	0.015

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)



September 13, 2007

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

Re: Groundwater Sampling Data Package, BP Service Station No. 6148, located at

5131 Shattuck Avenue, Oakland, California

General Information

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

Phone Number: (530) 676-6000

On-Site Supplier Representative: Jerry Gonzales

Sampling Date: August 15, 2007

Arrival: 14:50 Departure: 17:20

Weather Conditions: Clear

Unusual Field Conditions: None

Scope of Work Performed: Quarterly monitoring and sampling

Variations from Work Scope: Well MW-5 is behind a locked gate and could not be accessed. The station manager did not have a key to the lock. A tree in the way made it impossible to climb over the fence. With the station manager's approval the technician will cut the chain link and put a new lock on during the next site visit.

This submittal presents the tabulation of data collected in association with routine groundwater monitoring. The attachments include field data sheets, non-hazardous waste data form, 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

No. 5867

Attachments:

- Field Data Sheets
- Non-Hazardous Waste Data Form
- Chain of Custody Documentation
- Certified Analytical Results

cc: Mr. Paul Supple, BP/ARCO

BP ALAMEDA PORTFOLIO HYDROLOGIC DATA SHEET Gauge Date: 8 15 9 Project Name: 5131 Shattuck Avenue, Oakland Field Technician: Project Number: 6148 DIA = Well Casing Diameter TOC = Top of Well Casing Elevation DTP = Depth to Free Product (FP or NAPH) Below TOC ELEV - Groundwater Elevation DCP - Doplicate DTW = Depth to Groundwater Below TOC DTB = Depth to Bottom of Well Casing Below TOC PURGE & SHEEN WELL OR SAMPLE COMMENTS MEASUREMENT LOCATION TIME CONFIRMATION DTP DTB DIA ELEV TOC DTW (w/bailer) 17.92 5:05 25.42 5008 17882575 16 20 2590 MW MW S 2645 MU 6 20 76.75

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Chain of Custody Record

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	San Ramon, CA		***************************************				Sub Phase/Task: 03-Analytical						E-m	ail El)D T	0.	shay	/es(@stratusinc	.net								
Tele/	Fax: 925-275-3506						Cost Element: 01-Contractor labor						Inve	ice to	. At	lantic	Rich	rfield	t Co.									
Lab	Bottle Order No:				Mai	rix		No.			Pres	ervat	ve				200775.000	Req	ieste	d An	alysi							**************************************
Item No.	Sample Description	THE	Date	Soil/Solid	Water/Liquid	VIZ	Laboratory No.	No. of Containers	- English	H.SO.	HWO.	ELC.	Methanol	COLORODO COL	SRO/BTEX/Oxy*	1,2 DCA	EDB	Ethanol by \$260	DRO				emen is est edebicital d'un escencia de plateblistica de la prograda especial.		Sample *Oxy = MTE	Comme	E, ETB	
1	MW-1	1555	3-15-7		Х			6			iliani sii zwies.	Х			Х	X	X	X				ALL PROPERTY.						
2	MW-2	16:10			X	Minute date		13			-	1 _X	1		X	\mathbf{x}	Х	Х				DCC000			em islam andinari kuli kunya kutako adapake kuna ada	***************************************		**************************************
043	MW-3	1625			Х		AAAA	13		<u> </u>		I_{X}		- C) HEREN	X	+	X	-								TOO SOME SOME SHOWS		
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1	MW-6	17:00		\parallel	х	\top		3	╢			X	1	-	x		X	_					$\neg \dagger$			onestern einhinim totty es manyarin singarung n		TARREST TORONTO A SERVICE
-	MW-7	16:41			X	\top		13			1	$ _{\mathbf{X}}$		1	X	-	X	-	T				7			**************************************	-	
J	TB-6148-8/507	500			Х			1/2	1	and the same of th	- Company	х			x	1	x								HOLD	raint and the same of the same	e (hintakaha) kacambangan peruntu	andersa and the control of the cont
9			water to the second	The second secon			And the second s				-		Distance in the last of the la			-	VCTTION MEDICAL	Nazvertilezzee		The second secon						TOWN THE PROPERTY OF THE PARTY		
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Sam	pler's Name: Jerry 6	Ja-24/	' -2		2/2000 S. T.		Reline	uish	ed F	ly / A	Mia	lon	***************************************)atc	T	ime		ONE DESCRIPTION OF THE PERSON	-	Ассер	ted B	y / A	ffiliation		Date	Time
	pler's Company: Dowl o S						1/200		***************************************				- Americani		1/	16	115	H		Œ.	10	19	V	U	~_	_	8/16	1540
Ship	ment Date:			************				SOME AND THE SECOND	nametri:								TOTAL STATE	**CTEMOREUM				,					,	
Secretary control	ment Method:									one on the Party of the Party o	***************************************	450.000 A COLUMN	-	and photostopic			The second		Simple Si									
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Spec	ial Instructions:	Please	cc resu	lts to): m	iller	broadbentine.com		Marran	77720 PROMINE				***************************************														protesti di la companya di la compa
-		1 % 3	encontration of the contration		1	t).	183 - Fanton	Tor	romanini ra se	. T) <	in all	. fr	Er.	D /67		~		rs i			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		4	15	tyng sky i o	P		Manufacture Control of Control
1	Custody Seals In Place: Yes /	No	Tem) <u>[</u> 5]:	MiK:	Yes/	No Cooler	101	ib (hirt	CCIE		-	F/C		i Heren	rip	Blan	K: Y	:s / N	10	·	MS.	ΔMS	D Sample S	ubmitte:	1: Yes/	No





30 August, 2007

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

RE: ARCO #6148,Oakland, CA Work Order: MQH0546

Enclosed are the results of analyses for samples received by the laboratory on 08/16/07 18:45. 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 #6148,Oakland, CA

Project Number: G0C2J-0016 Project Manager: Jay Johnson MQH0546 Reported: 08/30/07 16:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MQH0546-01	Water	08/15/07 15:55	08/16/07 18:45
MW-2	MQH0546-02	Water	08/15/07 16:10	08/16/07 18:45
MW-3	MQH0546-03	Water	08/15/07 16:25	08/16/07 18:45
MW-4	MQH0546-04	Water	08/15/07 15:43	08/16/07 18:45
MW-6	MQH0546-05	Water	08/15/07 17:00	08/16/07 18:45
MW-7	MQH0546-06	Water	08/15/07 16:41	08/16/07 18:45
TB-6148-81507	MQH0546-07	Water	08/15/07 05:00	08/16/07 18:45

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 #6148,Oakland, CA

Project Number: G0C2J-0016
Project Manager: Jay Johnson

MQH0546 Reported: 08/30/07 16:11

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 (MQH0546-01) Water Sampled	: 08/15/07 15:55	Received:	08/16/07	18:45					
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7H26008	08/26/07	08/26/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		102 %	60-1	25	"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	75-1	20	n .	"	n	n	
Surrogate: Toluene-d8		94 %	80-1	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		90 %	60-1	35	"	"	"	n	
MW-2 (MQH0546-02) Water Sampled	: 08/15/07 16:10	Received:	08/16/07	18:45					
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7H26008	08/26/07	08/27/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		104 %	60-1	25	n	"	"	"	
Surrogate: Dibromofluoromethane		98 %	75-1	20	"	"	"	"	
Surrogate: Toluene-d8		96 %	80-1	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		92 %	60-1	35	"	"	"	"	
MW-3 (MQH0546-03) Water Sampled	: 08/15/07 16:25	Received:	08/16/07	18:45					
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7H26008	08/26/07	08/27/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		101 %	60-1	25	"	"	"	"	
Surrogate: Dibromofluoromethane		95 %	75-1	20	"	"	"	"	
Surrogate: Toluene-d8		97 %	80-1	20	"	"	n	"	
Surrogate: 4-Bromofluorobenzene		90 %	60-1	35	"	"	n	"	
MW-4 (MQH0546-04) Water Sampled	: 08/15/07 15:43	Received:	08/16/07	18:45					
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7H26008	08/26/07	08/27/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		94 %	60-1	25	"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	75-1	20	"	"	n	"	
Surrogate: Toluene-d8		94 %	80-1	20	"	**	n	"	
Surrogate: 4-Bromofluorobenzene		85 %	60-1	35	"	"	"	"	





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

Project: ARCO #6148,Oakland, CA

Project Number: G0C2J-0016 Project Manager: Jay Johnson MQH0546 Reported: 08/30/07 16:11

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (MQH0546-05) Water Sampled	08/15/07 17:00	Received:	08/16/07 1	8:45					
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7H26008	08/26/07	08/27/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		101 %	60-12	5	"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	75-12	0	"	"	"	"	
Surrogate: Toluene-d8		94 %	80-12	0	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		84 %	60-13	5	"	"	"	"	
MW-7 (MQH0546-06) Water Sampled	08/15/07 16:41	Received:	08/16/07 1	8:45					
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7H26008	08/26/07	08/27/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		97 %	60-12	5	"	"	"	n	
Surrogate: Dibromofluoromethane		96 %	75-12	0	"	"	n	"	
Surrogate: Toluene-d8		94 %	80-12	0	"	"	11	n	
Surrogate: 4-Bromofluorobenzene		82 %	60-13	5	"	"	"	"	





Project: ARCO #6148,Oakland, CA

Project Number: G0C2J-0016
Project Manager: Jay Johnson

MQH0546 Reported: 08/30/07 16:11

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MQH0546-01) Water San	npled: 08/15/07 15:55	Received	: 08/16/07 1	8:45					
tert-Amyl methyl ether	ND	0.50	ug/l	1	7H26008	08/26/07	08/26/07	EPA 8260B	
Benzene	ND	0.50	Н	п	tt	H	"	n .	
tert-Butyl alcohol	ND	20	41	н	II.	"	n	"	
Di-isopropyl ether	ND	0.50	"	a a	II .	n	11	II .	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	11	1)	0	II .	
1,2-Dichloroethane	ND	0.50	п	"	н	11	+)	н	
Ethanol	ND	300	II	"	"	**	#	H	IC
Ethyl tert-butyl ether	ND	0.50	II		n .	**	н	11	
Ethylbenzene	ND	0.50	П	"	u	и	#	11	
Methyl tert-butyl ether	ND	0.50	и	11	11	н	**	"	
Toluene	ND	0.50	н	н	n	n	H	H	
Xylenes (total)	ND	0.50	11	H	11	n	H	H.	
Surrogate: Dibromofluoromethane		96 %	75-12	0	"	"	"	n .	
Surrogate: 1,2-Dichloroethane-d4		102 %	60-12	5	"	"	"	"	
Surrogate: Toluene-d8		94 %	80-12	0	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		90 %	60-13	5	"	"	n	"	
MW-2 (MQH0546-02) Water Sam	npled: 08/15/07 16:10	Received:	: 08/16/07 1	8:45					
tert-Amyl methyl ether	ND	0.50	ug/l	1	7H26008	08/26/07	08/27/07	EPA 8260B	
Benzene	ND	0.50	n	n	"	#	"	11	
tert-Butyl alcohol	ND	20	н	#1	n	н	"	Ħ	
Di-isopropyl ether	ND	0.50	**	0	п	H	n	Ħ	
1,2-Dibromoethane (EDB)	ND	0.50	**	н	II .	tr	II	**	
1,2-Dichloroethane	ND	0.50	**	"	ŧ	II	II.	D .	
Ethanol	ND	300	"	"	**	D .	n	II .	IC
Ethyl tert-butyl ether	ND	0.50	Ħ	"	H	0	11	II .	
Ethylbenzene	ND	0.50	н	11	n n	H	It	t)	
Methyl tert-butyl ether	ND	0.50	Ш	u	"	н	И	Ħ	
Toluene	ND	0.50	II .	II	"	и	#	н	
Xylenes (total)	ND	0.50	11	II		"	"	н	
Surrogate: Dibromofluoromethane		98 %	75-12	0	"	"	n	"	
Surrogate: 1,2-Dichloroethane-d4		104 %	60-12.	5	"	"	"	"	
Surrogate: Toluene-d8		96 %	80-12	0	n	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	60-13.	5	"	"	"	"	





Project: ARCO #6148,Oakland, CA

Project Number: G0C2J-0016
Project Manager: Jay Johnson

MQH0546 Reported: 08/30/07 16:11

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-3 (MQH0546-03) Water Sar	mpled: 08/15/07 16:25	Received	08/16/07	18:45					
tert-Amyl methyl ether	ND	0.50	ug/l	1	7H26008	08/26/07	08/27/07	EPA 8260B	
Benzene	ND	0.50	"	+1	H	**	U	11	
tert-Butyl alcohol	ND	20	n	*	D	ii ii	11	m .	
Di-isopropyl ether	ND	0.50	II	"	11	H	н	n	
1,2-Dibromoethane (EDB)	ND	0.50	11	II.	#	n	H	U	
1,2-Dichloroethane	ND	0.50	u	н		H	H	ii	
Ethanol	ND	300	11	#	"	н	n	н	IC
Ethyl tert-butyl ether	ND	0.50	"	и	"	II.	11	11	
Ethylbenzene	ND	0.50	U .	n	II	11	11	n	
Methyl tert-butyl ether	ND	0.50	11	n	Ħ	н	**	n	
Toluene	ND	0.50	H .	H	H	н	"	н	
Xylenes (total)	ND	0.50	"	0	н	11		II .	
Surrogate: Dibromofluoromethane		95 %	75-12	20	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		101 %	60-12	?5	"	n	"	"	
Surrogate: Toluene-d8		97 %	80-12	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90 %	60-13	35	"	"	"	"	
MW-4 (MQH0546-04) Water San	npled: 08/15/07 15:43	Received:	08/16/07	8:45					
tert-Amyl methyl ether	ND	0.50	ug/l	1	7H26008	08/26/07	08/27/07	EPA 8260B	
Benzene	ND	0.50	11	"	n	0	II .	#	
tert-Butyl alcohol	ND	20	II	n	H	н	H	n	
Di-isopropyl ether	ND	0.50	H	н	#	н	"	Ħ	
1,2-Dibromoethane (EDB)	ND	0.50	"	**	"	n	н	II.	
1,2-Dichloroethane	ND	0.50	н	"	lt .	10	n	ii.	
Ethanol	ND	300	II	"	H	41	0	U	IC
Ethyl tert-butyl ether	ND	0.50	H	n	H	#	"	n .	
Ethylbenzene	ND	0.50	н	10	н	11	n	н	
				**	11	11	H	11	
Methyl tert-butyl ether	ND	0.50	17						
Methyl tert-butyl ether Toluene	ND ND	0.50 0.50	H	"	n .	11	n	#	
•				11	11	11	н	H H	
Toluene	ND	0.50	н	#					
Toluene Xylenes (total)	ND	0.50 0.50	H	0	It	11	15	11	
Toluene Xylenes (total) Surrogate: Dibromofluoromethane	ND	0.50 0.50 96 %	75-12	" '0 '5	11	11	n	11	





Project: ARCO #6148,Oakland, CA

Project Number: G0C2J-0016
Project Manager: Jay Johnson

MQH0546 Reported: 08/30/07 16:11

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (MQH0546-05) Water S	Sampled: 08/15/07 17:00	Received	Received: 08/16/07 18:45						
tert-Amyl methyl ether	ND	0.50	ug/l	1	7H26008	08/26/07	08/27/07	EPA 8260B	
Benzene	ND	0.50	И	**	n	н	D	If .	
tert-Butyl alcohol	ND	20	II	u	n	ii .	If	u	
Di-isopropyl ether	ND	0.50	11	"	II	"	11	"	
1,2-Dibromoethane (EDB)	ND	0.50	**	n	#	**	#1	II .	
1,2-Dichloroethane	ND	0.50	"	н	11	11	"	n	
Ethanol	ND	300	H	0	"	11	"	н	IC
Ethyl tert-butyl ether	ND	0.50	Ħ	Н	"	It .	H	п	
Ethylbenzene	ND	0.50	"	H.	11	D .	0	н	
Methyl tert-butyl ether	ND	0.50	II	н	11	#	n	II .	
Toluene	ND	0.50	H	"	11	**	1)	11	
Xylenes (total)	ND	0.50	u		11		11	#	
Surrogate: Dibromofluoromethane	•	96 %	75-12	0	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		101 %	60-12	5	"	"	"	"	
Surrogate: Toluene-d8		94 %	80-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84 %	60-13	5	"	"	n	"	
MW-7 (MQH0546-06) Water S	Sampled: 08/15/07 16:41	Received	: 08/16/07 1	8:45					
tert-Amyl methyl ether	ND	0.50	ug/l	1	7H26008	08/26/07	08/27/07	EPA 8260B	
Benzene	ND	0.50	Ħ	n	n	D	n	II.	
tert-Butyl alcohol	ND	20	H .	**	11	#	I#	11	
Di-isopropyl ether	ND	0.50	п	"	er e	11	#	11	
1,2-Dibromoethane (EDB)	ND	0.50	H	"	#	н	н	#	
1,2-Dichloroethane	ND	0.50	#	n	**	n	II.	н	
Ethanol	ND	300	"	n	н	H	н	H	IC
Ethyl tert-butyl ether	ND	0.50	"	II.	"	11	n	n	
Ethylbenzene	ND	0.50	"	Ш	11	11	II.	H	
Methyl tert-butyl ether	ND	0.50	11	Н	11	11	н	п	
Toluene	ND	0.50	Ħ	#	II.	#	n	П	
Xylenes (total)	ND	0.50	n	**	ti .	#	11	11	
Surrogate: Dibromofluoromethane		96 %	75-12	0	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		97 %	60-12	5	"	"	"	"	
Surrogate: Toluene-d8		94 %	80-12	0	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		82 %	60-13		"	"	"	"	





Project: ARCO #6148,Oakland, CA

Project Number: G0C2J-0016 Project Manager: Jay Johnson

MQH0546 Reported: 08/30/07 16:11

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
Batch 7H26008 - EPA 5030B P/T / L	UFT GCMS									
Blank (7H26008-BLK1)				Prepared &	& Analyze	d: 08/26/0)7			
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.40		"	2.50		96	60-125		***	
Surrogate: Dibromofluoromethane	2.33		"	2.50		93	75-120			
Surrogate: Toluene-d8	2.39		"	2.50		96	80-120			
Surrogate: 4-Bromofluorobenzene	2.19		"	2.50		88	60-135			
Laboratory Control Sample (7H26008-B	S2)			Prepared &	& Analyze	d: 08/26/0)7			
Gasoline Range Organics (C4-C12)	473	50	ug/l	500		95	65-120			
Surrogate: 1,2-Dichloroethane-d4	2.40		"	2.50	····	96	60-125			
Surrogate: Dibromofluoromethane	2.41		n	2.50		96	75-120			
Surrogate: Toluene-d8	2.47		"	2.50		99	80-120			
Surrogate: 4-Bromofluorobenzene	2.43		"	2.50		97	60-135			
Laboratory Control Sample Dup (7H260	08-BSD2)			Prepared &	& Analyze	d: 08/26/0	17			
Gasoline Range Organics (C4-C12)	501	50	ug/l	500	-	100	65-120	6	20	
Surrogate: 1,2-Dichloroethane-d4	2,56		,,	2.50		102	60-125			
Surrogate: Dibromofluoromethane	2.38		"	2.50		95	75-120			
Surrogate: Toluene-d8	2.54		"	2.50		102	80-120			
Surrogate: 4-Bromofluorobenzene	2.50		"	2.50		100	60-135			





Project: ARCO #6148,Oakland, CA

Project Number: G0C2J-0016 Project Manager: Jay Johnson MQH0546 Reported: 08/30/07 16:11

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
Batch 7H26008 - EPA 5030B P/T	/ EPA 8260B									
Blank (7H26008-BLK1)	V			Prepared	& Analyze	ed: 08/26/	07			
tert-Amyl methyl ether	ND	0.50	ug/l	·····						
Benzene	ND	0.50	U							
tert-Butyl alcohol	ND	20	II.							
Di-isopropyl ether	ND	0.50	u							
1,2-Dibromoethane (EDB)	ND	0.50	0							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	300	п							
Ethyl tert-butyl ether	ND	0.50	н							
Ethylbenzene	ND	0.50	11							
Methyl tert-butyl ether	ND	0.50	**							
Toluene	ND	0.50	Ħ							
Xylenes (total)	ND	0.50	н							
Surrogate: Dibromofluoromethane	2.33		"	2.50		93	75-120			
Surrogate: 1,2-Dichloroethane-d4	2.40		"	2.50		96	60-125			
Surrogate: Toluene-d8	2.39		"	2.50		96	80-120			
Surrogate: 4-Bromofluorobenzene	2.19		n	2.50		88	60-135			
Laboratory Control Sample (7H26008	3-BS1)			Prepared of	& Analyze	ed: 08/26/0	07			
tert-Amyl methyl ether	10.8	0.50	ug/l	10.0		108	65-135			
Benzene	10.5	0.50	"	10.0		105	75-120			
tert-Butyl alcohol	201	20	"	200		100	60-135			
Di-isopropyl ether	11.2	0.50	n	10.0		112	70-130			
1,2-Dibromoethane (EDB)	11.6	0.50	"	10.0		116	70-135			
1,2-Dichloroethane	10.5	0.50	"	10.0		105	70-125			
Ethanol	262	300	Ħ	200		131	15-150			
Ethyl tert-butyl ether	11.0	0.50	II	10.0		110	65-130			
Ethylbenzene	11.1	0.50	U	10.0		111	75-120			
Methyl tert-butyl ether	10.5	0.50	н	10.0		105	50-140			
Toluene	10.5	0.50	Ħ	10.0		105	75-120			
Xylenes (total)	33.6	0.50	**	30.0		112	75-130			
Surrogate: Dibromofluoromethane	2.50		"	2.50		100	75-120			
Surrogate: 1,2-Dichloroethane-d4	2.42		"	2.50		97	60-125			
Surrogate: Toluene-d8	2.44		"	2.50		98	80-120			
Surrogate: 4-Bromofluorobenzene	2.40		"	2.50		96	60-135			





Project: ARCO #6148,Oakland, CA

Spike

Source

%REC

Project Number: G0C2J-0016
Project Manager: Jay Johnson

MQH0546 Reported: 08/30/07 16:11

RPD

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

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7H26008 - EPA 5030B P/T / E	EPA 8260B									
Matrix Spike (7H26008-MS1)	Source: MQH0546-01 Prepared & Analyzed: 08/26/07									
tert-Amyl methyl ether	11.4	0.50	ug/l	10.0	ND	114	65-135			
Benzene	10.9	0.50	n	10.0	ND	109	75-120			
tert-Butyl alcohol	203	20	11	200	ND	102	60-135			
Di-isopropyl ether	11.8	0.50	Ш	10.0	ND	118	70-130			
f,2-Dibromoethane (EDB)	12.8	0.50	0	10.0	ND	128	70-135			
1,2-Dichloroethane	11.6	0.50	н	10.0	ND	116	70-125			
Ethanol	257	300	"	200	ND	128	15-150			
Ethyl tert-butyl ether	11.6	0.50	**	10.0	ND	116	65-130			
Ethylbenzene	11.1	0.50	**	10.0	ND	111	75-120			
Methyl tert-butyl ether	11.5	0.50	ш	10.0	ND	115	50-140			
Γoluene	10.7	0.50	**	10.0	ND	107	75-120			
Xylenes (total)	33.3	0.50	H	30.0	ND	111	75-130			
Surrogate: Dibromofluoromethane	2.59		"	2.50		104	75-120			
Surrogate: 1,2-Dichloroethane-d4	2.58		"	2.50		103	60-125			
Surrogate: Toluene-d8	2.45		"	2.50		98	80-120			
Surrogate: 4-Bromofluorobenzene	2.40		"	2.50		96	60-135			
Matrix Spike Dup (7H26008-MSD1)	Source: MO	QH0546-01		Prepared a	& Analyze					
ert-Amyl methyl ether	11.4	0.50	ug/l	10.0	ND	114	65-135	0.7	25	
Benzene	10.8	0.50	н	10.0	ND	108	75-120	0.9	20	
ert-Butyl alcohol	203	20	**	200	ND	102	60-135	0.005	25	
Di-isopropyl ether	11.8	0.50	**	10.0	ND	118	70-130	0.6	25	
,2-Dibromoethane (EDB)	12.7	0.50	н	10.0	ND	127	70-135	0.2	30	
,2-Dichloroethane	11.3	0.50	"	10.0	ND	113	70-125	2	25	
Ethanol	245	300	u	200	ND	123	15-150	4	25	
Ethyl tert-butyl ether	11.4	0.50	п	10.0	ND	114	65-130	2	25	
Ethylbenzene	11.0	0.50	н	10.0	ND	110	75-120	0.3	20	
Methyl tert-butyl ether	11.6	0.50	н	10.0	ND	116	50-140	1	25	
oluene	10.5	0.50	u u	10.0	ND	105	75-120	2	25	
(ylenes (total)	33.1	0.50	"	30.0	ND	110	75-130	0.6	20	
urrogate: Dibromofluoromethane	2.58		"	2.50		103	75-120			
Surrogate: 1,2-Dichloroethane-d4	2.56		"	2.50		102	60-125			
Surrogate: Toluene-d8	2.47		"	2.50		99	80-120			
Surrogate: 4-Bromofluorobenzene	2.40		n	2.50		96	60-135			



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

Stratus Environmental Inc. [Arco] Project: ARCO #6148,Oakland, CA MQH0546
3330 Cameron Park Dr., Suite 550 Project Number: G0C2J-0016 Reported:
Cameron Park CA, 95682 Project Manager: Jay Johnson 08/30/07 16:11

Notes and Definitions

IC Calib. verif. is within method limits but outside contract limits

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

Atlantic Richfield Company A BP affiliated company

Chain of Custody Record

Project Name:

BP 6148

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > CA > Alameda>6148

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

	48°	 .
On-site Time: 14350	Temp: 🖇	O
Off-site Time: / 7,12.0	Temp: 8	0
Sky Conditions:		
Meteorological Events:	-	
Wind Speed: 5	Direction: 4	N

BP/AR PM Contact: Paul Supple Address: 2010 Crow Canyon Place, Suite 150 Phase/WBS: 04-Monitoring San Ramon, CA Sub Phase/Task: 03-Analytical Tele/Fax: (530) 676-6000 / (530) 676 E-mail EDD To: shayes@stratusinc.n Invoice to: Atlantic Richfield Co. Lab Bottle Order No: Matrix Preservative Requested Analysis Sample Personation Sample Personation Tele/Fax: (530) 676-6000 / (530) 676 E-mail EDD To: shayes@stratusinc.n Invoice to: Atlantic Richfield Co. Sample Personation Sample Personation Sample Personation Tele/Fax: (530) 676-6000 / (530) 676 E-mail EDD To: shayes@stratusinc.n Invoice to: Atlantic Richfield Co. Sample Personation Tele/Fax: (530) 676-6000 / (530) 676 E-mail EDD To: shayes@stratusinc.n Invoice to: Atlantic Richfield Co. Sample Personation Sample Per	ohnson 6005 1 with EDF
Lab PM: Lisa Race California Global ID # TOGOLOGS Consultant/Contractor Project No.: Enfos Project No.: Consultant/Contractor PM: Ide/Fax: (530) 676-6000 / (530) 676 Report Type & QC Level: Enfos Project No.: Enfos Project No.: Enfos Project No.: Enfos Project No.: Consultant/Contractor Project No.: Consultant/Contractor Project No.: Consultant/Contractor PM: Ide/Fax: (530) 676-6000 / (530) 676 Report Type & QC Level: Enfos Project No.: Enfos Project No.: Consultant/Contractor PM: Ide/Fax: (530) 676-6000 / (530) 676 Report Type & QC Level: Enfos Provision Tele/Fax: (530) 676-6000 / (530) 676 Report Type & QC Level: Enfos Provision Report Type & QC Level: Enfos Provision Report Type & QC Level: Enfos Project No.: Cost Element: Old Combactor PM: Old Com	6005 1 with EDF et
Ele/Fax: 408-782-8156 408-782-6308 (fax) Enfos Project No.: © OCLID- OOL	6005 1 with EDF et
Provision or RCOP (circle one) Provision Tele/Fax: (530) 676-6000 / (530) 676 Address: 2010 Crow Canyon Place, Suite 150 San Ramon, CA Sub Phase/WBS: 04-Monitoring San Ramon, CA Tele/Fax: 925-275-3506 Cost Element: 01-Contractor labor Invoice to: Atlantic Richfield Co. Lab Bottle Order No: Requested Analysis Item No. Sample Description Sample Description Matrix Preservative Requested Analysis Sample Preservative Requested Analysis Sample Preservative Requested Analysis Sample Preservative Requested Analysis Sample Preservative No. Description No. Sample Description	6005 1 with EDF et
Address: 2010 Crow Canyon Place, Suite 150 San Ramon, CA Sub Phase/WBS: 04-Monitoring Report Type & QC Level: Level Sub Phase/Task: 03-Analytical Cost Element: 01-Contractor labor Invoice to: Atlantic Richfield Co. Lab Bottle Order No: Preservative Requested Analysis Report Type & QC Level: Level Sub Phase/Task: 03-Analytical Cost Element: 01-Contractor labor Firem No. Sample Description Sample Description Phase/WBS: 04-Monitoring Report Type & QC Level: Level Sub Phase/Task: 03-Analytical E-mail EDD To: shayes@stratusinc.n Invoice to: Atlantic Richfield Co. Sample Preservative Requested Analysis Sample Preservative Report Type & QC Level: Level Sub Phase/Task: 03-Analytical Firem No. Preservative Requested Analysis Sample Preservative Report Type & QC Level: Level Sub Phase/Task: 03-Analytical Firem No. Preservative Requested Analysis Sample Preservative Report Type & QC Level: Level Sub Phase/Task: 03-Analytical Firem No. Preservative Requested Analysis Sample Preservative Report Type & QC Level: Level Sub Phase/Task: 03-Analytical Firem No. Preservative Requested Analysis Sample Preservative Report Type & QC Level: Level Sub Phase/Task: 03-Analytical Firem No. Preservative Requested Analysis Sample Preservative Reputation Report Type & QC Level: Level Sub Phase/Task: 03-Analytical Firem No. Preservative Requested Analysis Sample Preservative Reputation Report Type & QC Level: Level Sub Phase/Task: 03-Analytical Firem No. Preservative Requested Analysis	1 with EDF et
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Cost Element: O1-Contractor labor Invoice to: Atlantic Richfield Co.	
Lab Bottle Order No: Matrix Preservative Requested Analysis Sample Preservative Sample Preservative Requested Analysis Sample Preservative Sample Pre	int Lat/Long and
Sample Description Soli/Solid Air No. Of Containers No. Of Containe	int Lat/Long and
7/0	int Lat/Long and
1 MW-1 VCSC 3/5-9 X O G X X X X X X	omments TAME, ETBE, DIPE, TBA
2 MW-2 /6:/0 X 02 3 X X X X X	
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4 MW-4 1543 X 04 3 X X X X X X	·
5 MW-5	
6 MW-6 17:00 X 05 3 X X X X X X	
7 MW-7 1641 X 06 3 X X X X	
8 TB-6148-81567 500 X 07 2 X X X X X HOLD	
9	
10	
Sampler's Name: Jerry Gorlaly Relinquished By / Affiliation Date Time Accepted By / Affiliation	Date Time
Sampler's Company: Dowlos EVV Weng Wee	8/16 1540
Shipment Date: 816 15th Aug Tigs	8/16 1555
Shipment Method: Sign 1845 1845	BILL LOUS
Shipment Tracking No:	
Special Instructions: Please cc results to: rmiller@broadbentinc.com	The state of the s
Custody Seals In Place: Yes / No Temp Blank: Yes / No Cooler Temp on Receipt: °F/C Trip Blank: Yes / No MS/MSD Sample Sub	

TEST AMERICA SAMPLE RECEIPT LOG

and the state of t		Transfer and the second				الزحائر والمشاهدات			There is the end of the condition of the state of the second of the seco
CLIENT NAME:	ARCO 6148		DATE REC'D AT LAB:	300	811611			For Regula	atory Purposes?
REC. BY (PRINT)	DV.		TIME REC'D AT LAB:		945	•		DRINKING	
WORKORDER:	MQH05746		DATE LOGGED IN:	8/20/		•		WASTE W	
•			•	4		•	r		
CIRCLE THE APPR	OPRIATE RESPONSE	LAB		CONTAINER	PRESER		SAMPLE	DATE	REMARKS:
		SAMPLE#	CLIENT ID	DESCRIPTION		рН	MATRIX	SAMPLED	CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent								
	Intact / Broken*		***						
2. Chain-of-Custody	Present / Absent*								
3. Traffic Reports or									
Packing List:	Present / Absent								
4. Airbill:	Airbill / Sticker		•						
	Present / Absent .								
5. Airbill #:						_			
6. Sample Labels:	Present / Absent								
7. Sample IDs:	· Listed / Not Listed								
. •	on Chain-of-Custody								
8. Sample Condition:	Intact / Broken* /			500 COC					
	Leaking*			1010118					
9. Does information of	- ' }			DU	-1				
traffic reports and	• •								
agree?	//es / No*								
Sample received with									·
hold time?	(es / No*								
 Adequate sample voi 	(c)								
received?	Yes / No*								
2. Proper preservatives		- 19 ³³⁷⁷							
3. Trip Blank / Temp Bla	/ / /								
(circle which, if yes)	Yes / No*						•		
4. Read Temp:	2.60						١		·
Corrected Temp:	V A						- 40		
Is corrected temp 4+	-1-2°C? (Yes / No**								
oceptance range for samples r	equiding thermal pres.)								
Exception (if any): MET	TALS / DFF ON ICE								
or Problem COC									

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

APPENDIX B

GEOTRACKER UPLOAD CONFIRMATION

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

UPLOADING A GEO_WELL FILE

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

Submittal Title: 3Q07 GEO_WELL 6148

Facility Global ID: T0600100103
Facility Name: ARCO #6148

Submittal Date/Time: 10/4/2007 10:25:02 AM

Confirmation Number: 1883957386

Back to Main Menu

Logged in as BROADBENT-C (CONTRACTOR)

CONTACT SITE <u>ADMINISTRATOR</u>.

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

Your EDF file has been successfully uploaded!

Confirmation Number: 2330921232

Date/Time of Submittal: 10/4/2007 10:20:39 AM

Facility Global ID: T0600100103 **Facility Name:** ARCO #6148

Submittal Title: 3Q07 GW Monitoring **Submittal Type:** GW Monitoring Report

Click here to view the detections report for this upload.

5131 SHATTUCK SA OAKLAND, CA 94609 <u>Lo</u>	egional Board - Case #: 01-0111 AN FRANCISCO BAY RWQCB (REGION 2) ocal Agency (lead agency) - Case #: RO00000 LAMEDA COUNTY LOP - (SP)	<u>77</u>
CONF # TITLE 2330921232 3Q07 (GW Monitoring Q3 2007	
SUBMITTED BY Broadbent & Associates, Inc.	SUBMIT DATE STATUS 10/4/2007 PENDING REVIEW	
SAMPLE DETECTIONS REP # FIELD POINTS SAMPLED # FIELD POINTS WITH DETECTION # FIELD POINTS WITH WATER SAM SAMPLE MATRIX TYPES	us	6 0 0 TER
METHOD QA/QC REPOR METHODS USED TESTED FOR REQUIRED ANALYTES LAB NOTE DATA QUALIFIERS	8260FA,8260T	TPH Y Y
QA/QC FOR 8021/8260 TECHNICAL HOLDING TIME VIOLATION TIME VIOLATION TIME VIOLATION ABOVE REPORT OF THE SOUR THE	TIONS DNS	0 0 0 0 0 V
- BLANK SPIKE - SURROGATE SPIKE WATER SAMPLES FOR 802		Y Y
MATRIX SPIKE / MATRIX SPIKE DU SURROGATE SPIKES % RECOVERY		Y Y 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> COLLECTED <u>DETECTIONS > REPDL</u> QCTB SAMPLES Ν 0 QCEB SAMPLES Ν 0 QCAB SAMPLES Ν 0

Logged in as BROADBENT-C (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.