

Atlantic Richfield Company (a BP affiliated company)

P.O. Box 1257 San Ramon, California 94583 Phone: (925) 275-3801

Fax: (925) 275-3815

20 April 2007

Re: First Quarter 2007 Ground-Water Monitoring Report

Atlantic Richfield Company (a BP affiliated company) Station #276

10600 MacArthur Boulevard

Oakland, California

ACEH Case #RO0002565

"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."

RECEIVED

1:14 pm, May 01, 2007

Alameda County Environmental Health

Submitted by:

Paul Supple

Environmental Business Manager

First Quarter 2007 Ground-Water Monitoring Report
Atlantic Richfield Company Station #276
10600 MacArthur Boulevard
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

20 April 2007

Project No. 06-08-601

Broadbent & Associates, Inc. 1324 Mangrove Ave., Suite 212 Chico, CA 95926 Voice (530) 566-1400 Fax (530) 566-1401



20 April 2007

Project No. 06-08-601

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

Attn.: Mr. Paul Supple

Re:

First Quarter 2007 Report, Atlantic Richfield Company (a BP affiliated company) Station

#276, 10600 MacArthur Boulevard, Oakland, Alameda County, California

ACEH Case #RO0002565

Dear Mr. Supple:

Provided herein is the *First Quarter 2007 Ground-Water Monitoring Report* for Atlantic Richfield Company Station #276 (herein referred to as Station #276) located at 10600 MacArthur Boulevard, Oakland, Alameda County, California (Property). This report presents results of ground-water monitoring conducted during the First Quarter of 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

ARIZONA CALIFORNIA

NEVADA

TEXAS

ROBERT H. MILLER

No. 4893

STATION #276 OUARTERLY GROUND-WATER MONITORING REPORT

Facility: #276 Address: 10600 MacArthur Boulevard, 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.: 06-08-601

Primary Agency/Regulatory ID No.: Alameda County Environmental Health (ACEH) ACEH Case #RO0002565

WORK PERFORMED THIS QUARTER (First Quarter 2007):

1. Prepared and submitted Fourth Quarter 2007 Ground-Water Monitoring Report.

2. Conducted ground-water monitoring/sampling for First Quarter 2007. Work performed on 6 February 2007 by Stratus Environmental, Inc (Stratus).

WORK PROPOSED FOR NEXT QUARTER (Second Quarter 2007):

NA

1. Submitted First Quarter 2007 Ground-Water Monitoring Report (contained herein).

2. Conduct quarterly ground-water monitoring/sampling for Second Quarter 2007.

QUARTERLY RESULTS SUMMARY:

Facility Permits/Permitting Agency:

Current phase of project:	Ground-water monitoring/sampling
Frequency of ground-water	Quarterly = MW-1, MW-2, MW-3, MW-4, MW-5, MW-6,
monitoring:	MW-7, MW-8, RW-1, WDR-3
Frequency of ground-water sampling:	Quarterly = MW-2, MW-5, and MW-8
	Semi-Annually (1Q and 3Q) = MW-6 and MW-7
	Annually $(1Q) = MW-1, MW-3, MW-4, WGR-3, and RW-1$
Is free product (FP) present on-site:	No
Current remediation techniques:	NA
Depth to ground water (below TOC):	15.48 ft (MW-2) to 33.53 ft (MW-6)
General ground-water flow direction:	South-southwest
Approximate hydraulic gradient:	0.005 ft/ft

DISCUSSION:

First quarter 2007 ground-water monitoring and sampling was conducted at Station #276 on 6 February 2007 by Stratus. Water levels were gauged in the 10 wells at the Site. No irregularities were noted during water level gauging. Depth to water measurements ranged from 15.48 ft at MW-2 to 33.53 ft at MW-6. Resulting ground-water surface elevations ranged from 44.75 ft above mean sea level in well WGR-3 to 32.69 ft at well MW-8. 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 south-southwest at approximately 0.005 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.

Consistent with the current ground-water sampling schedule, water samples were collected from wells MW-1 through MW-8, RW-1 and WGR-3 on 6 February 2007. No 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. The laboratory reported that the GRO concentration for wells MW-2 through MW-6 and MW-8 was partly due to individual peak(s) in the quantitation range. No other 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.

Gasoline range organics (GRO) were detected above the laboratory reporting limits in seven of the ten wells sampled at concentrations up to 530 micrograms per liter (μ g/L) in well MW-7. TAME was detected above the laboratory reporting limit in five of the ten wells sampled at concentrations up to 13 μ g/L in well MW-5. 1,2-DCA was detected above the laboratory reporting limit in one of the ten wells sampled at a concentration of 4.6 μ g/L in well MW-5. MTBE was detected above the laboratory reporting limit in six of the ten wells sampled at concentrations up to 120 μ g/L in well MW-5. The remaining fuel additives and oxygenates were not detected above their laboratory reporting limits in the three 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 and Table 2. The most recent GRO, Benzene, and MTBE concentrations are also presented in Drawing 1. A copy of the Laboratory Analytical Report, including chain-of-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.

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 February 2007, Station #276, 10600 MacArthur Boulevard, Oakland, California
- Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #276, 10600 MacArthur Blvd., Oakland, CA
- Table 2. Summary of Fuel Additives Analytical Data, Station #276, 10600 MacArthur Blvd., Oakland, CA

Table 3. Historical Ground-Water Flow Direction and Gradient, Station #276, 10600 MacArthur Blvd., 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

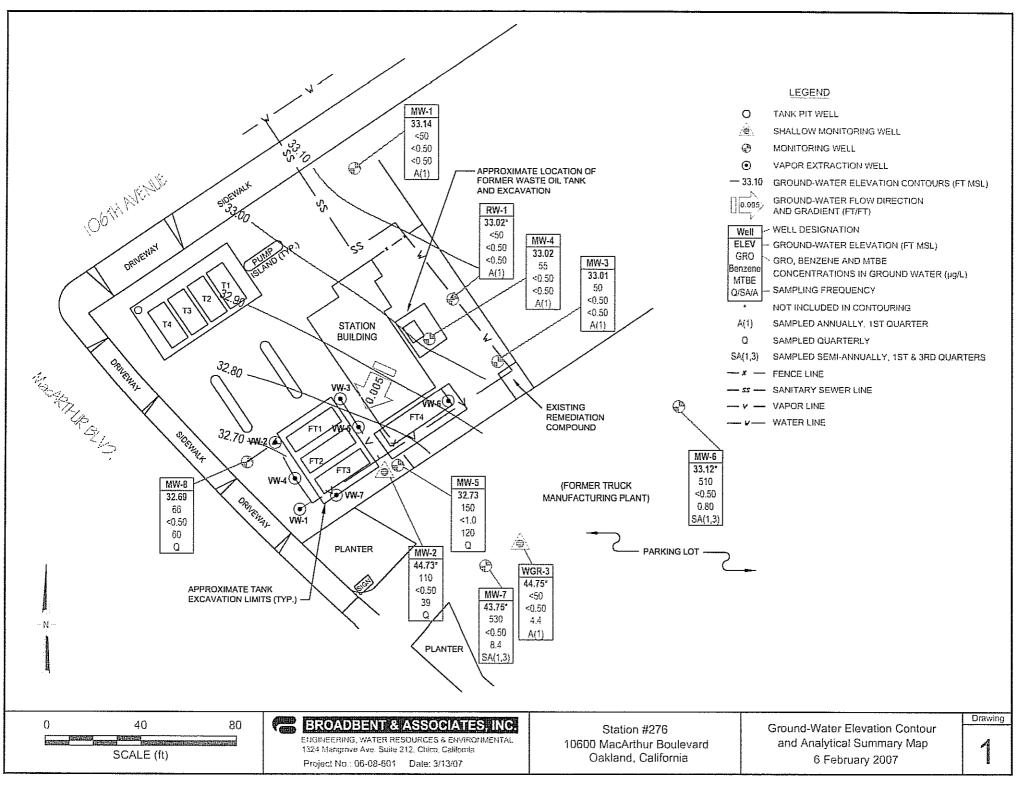


Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

Station #276, 10600 MacArthur Blvd., Oakland, CA

				Top of	Bottom of		Water Level			Concentra	tions in (με	g/L)			
Well and			тос	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															
12/17/2000			55:92	23.50	2850	29.16	26.76	5.09		The state of the s					
12/28/2001	alamanteetisi. —		55.92	23.50	28.50	27.38	28,54	8.8		-	-		_		
11/27/2002	NP		55.92	23:50	28.50	29.45	26.47	4.2						2.3	6.7
7/22/2003	NP	######################################	55.92	23.50	28.50	27.58	28.34	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.1	6.7
11/07/2003	NP		55.92	23,50	28.50	30.42	25.50	<50	<0.50	<0.50	<0.50	<0.50	<0,50	2.1	6.6
02/03/2004	NP		55.92	23.50	28.50	38.80	17.12	_	-		-	-		1.5	
05/04/2004	NP	g g	61.26	23.50	28.50	26.67	34.59	<50	<0.50	<0.50	<0.50	<0.50	<0.50		6.6
08/12/2004	NP		61.26	23.50	28.50	29.49	31.77	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.2	6.6
11/10/2004	NP		61.26	23.50	28,50	30.29	30.97	∹<50-	<0.50	€0.50	₹0.50	<0:50	<0.50	2.[6.6
02/03/2005	NP	-14 (person montainment printer and the contractions	61.26	23.50	28.50	26.23	35.03	-			_			0.89	
05/09/2005			61.26	23.50	28.50	22.93	38.33								
08/11/2005	i iidirengunukusus:	Indiapatemental and actions of the	61.26	23.50	28.50	26.11	35.15	-		_		en			
11/18/2005			61.26	23.50	28.50	29.14	32.12								
02/01/2006	NP	i	61.26	23.50	28.50	24.15	37.11	53	<0.50	<0.50	<0.50	< 0.50	<0.50	1.6	6.7
5/30/2006			61.26	23.50	28:50	21,25	40.01								
8/10/2006		TTS (15-0-0-0-1 manifeliate) FFT FFT	61.26	23.50	28.50	24.70	36.56	_	-						
11/2/2006			61,26	23,50	28.50	27.71	33.55								
2/6/2007	NP		61.26	23.50	28.50	28.12	33.14	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.15	7.57
MW-2															
12/17/2000			55.10	15.00	25.00	15,72	39.38								
12/28/2001	-		55.10	15.00	25.00	27.38	27.72			_			-		
11/27/2002			55.10	15.00	25.00	16.35	38:75								
7/22/2003			55.10	15.00	25.00	16.20	38.90	-	-			-		-	
11/07/2003	P		55.10	15,00	25.00	18.22	36.88	990	<5.0	<5.0	<5.0	<5.0	110	1.8	6.7
02/03/2004	P		55.10	15.00	25.00	13.63	41.47	180	<2.5	<2.5	2.6	4.1	55	1,8	6.5
П5/04/2004	P	g	60.21	15,00	25.00	15.76	44 45	290	<2.5	<2.5	<2,5	<2.5	70	0,6	6.3
08/12/2004	P		60.21	15.00	25.00	17.21	43.00	<250	<2.5	<2.5	3.2	<2.5	49	1.6	6.6
11/10/2004	P		60.21	15.00	25.00	15.90	44.31	270	≈1.0	<1.0	1.6	≤1.0	90	0.9	6.2
02/03/2005	P	u vojika meneka kalendari	60,21	15.00	25.00	14.29	45.92	480	1.7	<0.50	2.0	1.4	37	1.53	6.5
05/09/2005	P		60:21	15.00	25,00	14,38	45.83	320	<0.50	<0.50	<0.50	0.64	56	0.57	6.5

				Top of	Bottom of		Water Level			Concentra	tions in (µg	ֈ/L)			
Well and			тос	Screen	Screen	DTW	Elevation	GRO/	***		Ethyl-	Total		DO	
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet hgs)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	МТВЕ	(mg/L)	pH
MW-2 Cont.															
08/11/2005	р		60.21	15.00	25.00	15.97	4424	320	<0.50	≮0.50	<0.50	<0.50	50	1.0	6.3
11/18/2005	P		60.21	15.00	25.00	17.66	42.55	990	3.2	0.64	3.8	1.6	49	3.23	6.5
02/01/2006	P		60.21	15,00	25.00	12.50	47.71	<50	<0.50	<0.50	<0.50	<0.50		1.0	6.4
5/30/2006	P		60.21	15.00	25.00	13.25	46.96	280	<0.50	<0.50	<0.50	<0.50	64	1.76	6.5
8/11/2006	Paring	Water Leyels 6/10	60.21	15.00	25.00	15.90	44.31	210	≤0.50	<0.50	₹0.50	<0.50	28	0.63	6.4
11/2/2006	P		60.21	15.00	25.00	17.38	42.83	270	0.64	<0.50	<0.50	<0.50	40	1.41	6.82
2/6/2007	NP		60.21	15.00	25.00	15.48	44.73	110	<0.50	<0.50	<0.50	<0.50	39	0.67	6.95
MW-3		<u> Tili Soramologia (1940) en 1960</u>													
WOVEN: X:			56.55	22.00	27.00	29.78	26.77	158							
12/17/2000			56.55	22.00 22.00	27.00	27.95	28.60	310	20	1.5	13	_	-		
12/28/2001			56.55	22.00	27.00	30,10	26:45	110						2.0	7.2
11/27/2002 7/22/2003	NP NP		56.55	22.00	27.00	28.32	28.23	120	<0.50	<0.50	<0.50	<0.50	<0.50	2.2	5.9
11/07/2003	NP		56.55	22.00	27.00	30.86	25.69	70	≲0.50	<0.50	\$0.50	<0.50	<0.50	2.8	6.5
02/03/2004	NP		56.55	22,00	27.00	27.65	28.90	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.1	6.7
05/04/2004	NP	g	61.89	22.00	27.00	27.57	34.32	≤100	 	<1.0	 ≤1.0	<1,0		1,6	64
08/12/2004	NP		61.89	22.00	27.00	30.31	31.58	52	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	6.3
11/10/2004	NP.		61.89	22,00	27:00	31.00	30.89	91	₹0.50	<0.50	<0.50	<0,50	<0.50	2.6	6.7
02/03/2005	NP		61.89	22.00	27.00	26.85	35.04	180	<0.50	<0.50	<0.50	<0.50	<0.50	2.25	6.5
05/09/2005			61.89	22,00	27.00	23.72	38 17								
08/11/2005			61.89	22.00	27.00	26.84	35.05			-	-		_	_	
11/18/2005			61.89	22.00	27.00	29.82	32.07								
02/01/2006	NP		61.89	22.00	27.00	24,80	37.09	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	6.4
5/30/2006			61.89	22.00	27.00	21.77	40.12				44				
8/10/2006	gentuilläiveida 	54 M 54 TV 66 COMMITTE SEEST SFE (F 54 LV 64 LA	61.89	22.00	27.00	25.37	36.52	-				-			
11/2/2006			61.89	22.00	27.00	28.43	33.46								
2/6/2007	NP	i i	61.86	22.00	27.00	28.85	33.01	50	<0.50	<0.50	<0.50	<0.50	<0.50	1.27	8.63
MW-4														-	
12/17/2000			55.98	25.00	45.00	29:22	26.76	225							
12/28/2001			55.98	25.00	45.00	27.37	28.61	160	1.2	-	-	-	-	-	

				Top of	Bottom of		Water Level	and an article of the second		Concentra	tions in (μ _j	g/L)			
Well and			тос	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)	рH
MW-4 Cont.	***	···													
11/27/2002	NP		55.98	25.00	45:00	29.55	26.43	95						3.7	6,7.
7/22/2003	NP	A STATE OF THE STA	55.98	25.00	45.00	27.73	28.25	130	<0.50	<0.50	<0.50	<0.50	<0.50	2.9	6.6
11/07/2003	III NP		55.98	25.00	45.00	30,41	25.57	59	<0.50	<0.50	≤0.50	<0.50	<0.50	2.6	6.5
02/03/2004	NP		55.98	25.00	45.00	27.01	28.97	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.2	7.1
05/04/2004	NP	g	61.30	25.00	45.00	26.91	3439	<100	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	6.5
08/12/2004	NP	College Control Control of Contro	61.30	25.00	45.00	29.76	31.54	58	<0.50	<0.50	<0.50	<0.50	<0.50	2.3	6.4
11/10/2004	NP		61,30	25.00	45.00	30,40	30.90	69	<0.50	<0.50	<0.50	<0.50	<0.50	24	6.6
02/03/2005	NP	i	61.30	25.00	45.00	26.28	35.02	51	<0.50	<0.50	<0.50	<0.50	<0.50	3.77	6.8
05/09/2005			6130	25.00	45.00	23.14	38.16								
08/11/2005	**		61.30	25.00	45.00	26.23	35.07	_				_			
11/18/2005			61.30	25.00	45,00	29.24	32.06								
02/01/2006	P	i	61.30	25.00	45.00	24.20	37.10	330	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	7.0
5/30/2006			61:30	25,00	45.00	21.26	40.04		-						
8/10/2006		eralendere i i i i i i i i i i i i i i i i i i	61.30	25.00	45.00	24.62	36.68		-					_	
11/2/2006			#6130	25,00	45.00	27.90	33.40								
2/6/2007	NP	i	61.30	25.00	45.00	28.28	33.02	55	<0.50	<0.50	<0.50	<0.50	<0.50	1.21	8.28
MW-5															
12/17/2000			55.43	23.50	3150	28,82	26.61	1,040							
12/28/2001	-	<u> </u>	55.43	23.50	31.50	26.91	28,52	3,200	190	2/4/1900	140	1.9/3.2/2.0			
11/27/2002	P		55.43	23,50	31.50	29.15	26.28	110			11 7 1			1.4	6.4
7/22/2003	P	1 <u> </u>	55.43	23.50	31.50	27.43	28.00	160	<1.0	<1.0	<1.0	<1.0	110	1.5	6.6
11/07/2003	P		55.43	23.50	3150	29,99	25,44	<250	42.5	<2.5	<2.5	<2.5	120	0.6	6.2
02/03/2004	P	TATIONING STATES AND	55.43	23.50	31.50	26.55	28.88	85	<2.5	<2.5	<2.5	<2.5	71	1.7	6.7
05/04/2004	P	2	60.73	23.50	31.50	26.47	34.26	<250	<2.5	<2.5	<2,5	<2.5	150	0.9	6.2
08/12/2004	P	# 1000010000100010000000000000000000000	60.73	23.50	31.50	29.49	31.24	<250	<2.5	<2.5	<2.5	<2.5	140	1.8	6.3
11/10/2004	P		60.73	23.50	3150	30.15	30.58	170	<1.0	<1.0	KI:0	K1.0	150	1,0	6.3
02/03/2005	P	erraesturungsstatsurustus esebetivarististesia	60.73	23.50	31.50	25.85	34.88	100	<0.50	<0.50	<0.50	<0.50	16	1.65	6.5
05/09/2005	T T		60.73	23.50	31.50	22.85	37.88	340	<2.5	<2.5	<2.5	<2.5	140	0.87	6,3
08/11/2005	P	V.24.01703011.800111495387951477.JE23505250	60.73	23.50	31.50	26.05	34.68	<250	<2.5	<2.5	<2.5	<2.5	160	1.6	6.3
11/18/2005	P		60.73	23.50	31.50	29.07	31,66	<250	<2.5	<2.5	<2;5	<2.5	120	1.98	6.3

				Top of	Bottom of		Water Level			Concentra	tions in (µ	g/L)			
Well and			тос	Screen	Screen	DTW	Elevation	GRO/			Ethyl-	Total		DO	İ
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msl)	TPHg	Benzene	Toluene	Benzenc	Xylenes	MTBE	(mg/L)	pН
MW-5 Cont.															
02/01/2006	in the		60.73	23.50	31.50	23.70	37.03	520	*i2	<1.2	≲1.2	<1.2	ioo	0.4	6.4
5/30/2006	P		60.73	23.50	31.50	21.03	39.70	220	<2.5	<2.5	<2.5	<2.5	230	1.32	6.3
8/11/2006	i Pirit	Waler Levels 8/10	60.73	23.50	31.50	24.77	35.96	150	<2.5	<2.5	<2,5	<25	170	0.68	6.1
11/2/2006	P	groot en-exp osition i (CCC)	60.73	23.50	31.50	27.65	33.08	100	<1.0	<1.0	<1.0	<1.0	160	1.43	6.52
2/6/2007	NP		60.73	23.50	31.50	28.00	32.73	150	<1.0	<1.0	<1.0	<1.0	.120	1.19	7.33
MW-6								***************************************							
12/17/2000			61.21	37.50	56,00	34.61	26.60								
12/28/2001		ger i colification (leaster to the distribution)	61.21	37.50	56.00	32.80	28.41					_			-
11/27/2002			61,21	37.50	56.00	35.00	26,21			The state of the s					
7/22/2003		57-77-73-9 + 4-9-44 + 9-4-44 + 4-4-44 + 4-4-44 + 4-4-44 + 4-4-44 + 4-4-44 + 4-4-44 + 4-4-44 + 4-4-44 + 4-4-44	61.21	37.50	56.00	33.17	28.04			-					
11/07/2003	P	d,e	61.21	37.50	56.00	35.70	25,51	≤500°	<5.0	 ≤5.0	₹5.0	<5.0	≤5,0	2.7	6.9
02/03/2004	P		61.21	37.50	56.00	32.17	29.04	84	<2.5	<2.5	<2.5	<2.5	<2.5	1.9	7.0
05/04/2004	iii ii P	g	66.65	97.50	56.00	32.07	34.58	<250	₹2.5	≤2.5	\$2.5	<2.5	<215	2.0	6.7
08/12/2004	P		66.65	37.50	56.00	34.90	31.75	660	<0.50	<0.50	<0.50 <0.50	<0.50	0.81	1.4 2.6	6.9 6.8
11/10/2004	Mark Park		66-65	37,50	56.00	35.70	30.95	640	<0.50 <0.50	<0.50 <0.50	<0.50	<0.50 <0.50	<0.50	1.73	7.0
02/03/2005	P	i Lassacceptatorismonaccastoris	66.65	37.50	56.00	31.48 28.37	35.17 38.28	77 	la source services		.,			a a a a a a a a a a a a a a a a a a a	
05/09/2005			66,65 66,65	37.50 37.50	56.00 56.00	31.40	35.25	630	<0.50	<0.50	<0.50	<0.50	0.77	1.9	6.3
08/11/2005	P		66.65	37.50	56.00	34.50	32.15								
11/18/2005 02/01/2006	P		66.65	37.50	56.00	29.40	37.25	760	<5.0	<5.0	<5.0	<5.0	<5.0	2.1	6.9
5/30/2006			66.65	37.50	56.00	26.51	40.14								
8/11/2006	iiziiizii sii she P	Water Levels 8/10	66.65	37.50	56.00	30.10	36.55	790	<5.0	<5.0	<5.0	<5.0	<5.0	1.32	6.7
11/2/2006			66.65	37,50	56:00	33.12	33,53								
2/6/200 7	P	Excession of the collection	66.65	37.50	56.00	33.53	33.12	510	<0.50	<0.50	<0.50	<0.50	0.80	0.68	6.84
MW-7															
12/17/2000			58.22	17.50	37.5	19.94	38.28								
12/28/2001	:	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	58.22	17.50	37.5	17.29	40.93					-		_	
11/27/2002			58.22	17.50	37.5	21.30	36.92						The state of the s		
7/22/2003	-		58.22	17.50	37.5	21.36	36.86		-	-			-	-	-

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #276, 10600 MacArthur Blvd., Oaldand, CA

				Top of	Bottom of		Water Level			Concentra	tions in (µ	g/L)			
Well and			тос	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-7 Cont.															
11/07/2003	P- ii	d d	58,22	1750	37.5	23.76	34.46	3,200	15	<2.5	130	11	53	2.2	6.8
02/03/2004	P		58.22	17.50	37.5	17.74	40.48	53	<0.50	<0.50	<0.50	0.54	32	1.9	6.4
02/03/2005	i P		63.54	17.50	975	18.13	45.41	61	<0.50	<0.50	<0.50	<0.50	14	3.39	6.5
05/09/2005		Signal State Company of the Company	63.54	17.50	37.5	18.39	45.15	-	-						
08/11/2005	P		63.54	1750	37.5	21.47	42.07	1,500	1.8	<1.0	4.2	1.2	21	2.0	63
11/18/2005		32.332.2541-6224.33	63.54	17.50	37.5	22.41	41.13	-							
02/01/2006			63.54	17.50	37.5	16.65	46.89	<50	<0.50	<0.50	<0.50	<0.50	11.11.11.18	13	6.3
5/30/2006	-		63.54	17.50	37.50	19.22	44.32	-		-	-		-		
8711/2006	P	Water Levels 8/10	63.54	17.50	37.50	21.28	42.26	1,800	1311	0,55	5.0	1.4		1.22	6.4
11/2/2006			63.54	17.50	37.50	22.61	40.93						-	 	
2/6/2007	NP =		63.54	17.50	37.50	19.79	43.75	530	<0.50	<0.50	<0.50	<0.50	8.4	0.93	7.23
MW-8															*
12/17/2000			53.65	29.00	49.00	27.02	26.63								
12/28/2001			53.65	29.00	49.00	24.99	28.66							-	-
11/27/2002			53.65	29.00	49.00	27.45	26.20						Anna y lan copy of Alexa lan		
7/22/2003		i initia in initia in initia in initia in initia	53.65	29.00	49.00	25.74	27.91	_			_		-		
11/07/2003	P		53.65	29.00	49,00	28.27	25,38	<500	<5.0	<5.0	<5.0	<5.0	440	2.6	6.5
02/03/2004	P	f	53.65	29.00	49.00	24.80	28.85	170	<12	<12	<12	<12	470	3.0	6.7
05/04/2004	P	e e	58,96	29.00	49.00	24.81	34.15	<1,000	<10	\$10	# 10 =	# ≤10	700	3.8	6.4
08/12/2004	P		58.96	29.00	49.00	27.72	31.24	<2,500	<25	<25	<25	<25	400	3.4	6.5
11/10/2004	P		58.96	29:00	49.00	28,41	30.55	<500	<5.0	₹5.0	<5.0	≰5.0	480	3.4	6.3
02/03/2005	P		58.96	29.00	49.00	24.01	34.95	<50	<0.50	<0.50	<0.50	<0.50	45	1.43	6.4
05/09/2005	P		58.96	29.00	49,00	21.07	37.89	640	<5.0	<5,0	≤5.0	≤5.0	440	1.06	6.4
08/11/2005	P		58.96	29.00	49.00	24.32	34.64	<500	<5.0	<5.0	<5.0	<5.0	420	5.0	6.1
11/18/2005	P		58.96	29.00	49.00	27.35	31,61	<500	₹5.0	<5.0	≤5.0	<5.0	390	3.51	6.4
02/01/2006	P	i i	58.96	29.00	49.00	22.00	36.96	520	<5.0	<5.0	<5.0	<5.0	600	0.5	6.3
5/30/2006	water Barie		58.96	29.00	49,00	19,25	39.71	310	<5.0	\$5.0	<5.0	<5.0	480	1.35	6.3
8/11/2006	P	Water Levels 8/10	58.96	29.00	49.00	22.95	36.01	320	<0.50	<0.50	<0.50	<0.50	630	0.65	6.2
11/2/2006	P		58.96	29.00	49.00	25.98	32.98	370	25	<2.5	<2.5	<2.5	660	1.46 n.es	6.61
2/6/2007	P	i	58.96	29.00	49.00	26.27	32.69	66	<0.50	<0.50	<0.50	<0.50	60	0.65	6.64

				Top of	Bottom of		Water Level		""	Concentra	tions in (µ;	<u>2</u> /L)			
Well and	.		тос	Screen	Screen	DTW	Elevation	GRO/			Ethyl-	Total		DO	
Sample Date	P/NP	Comments	(fect msi)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	pН
RW-1		<i>a</i> -	-				***								
12/17/2000			56.32	36.00	51.00	29.57	26.75								
12/28/2001	######################################		56.32	36.00	51.00	27.64	28.68			-		-			
11/27/2002			56.32	36.00	51.00	29,93	26.39								
7/22/2003			56.32	36.00	51.00	28.09	28.23				-	-	**		
11/07/2003	e Broom		56.32	36.00	51.00	30,64	25.68	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.1	7.0
02/03/2004	P		56.32	36.00	51.00	27.28	29.04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	6.7	7.1
05/04/2004	P	g	61,65	36,00	51,00	27.16	34,49	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.4	6.8
08/12/2004	P		61.65	36.00	51.00	30.10	31.55	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.2	7.1
11/10/2004	P		61.65	36.00	51.00	30.79	30.86	<100	<0.50	<0.50	<0.50	<0.50	<0.50	57	6.9
02/03/2005	P	1955 C 1951 C 19	61.65	36.00	51.00	26.61	35.04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.57	7.1
05/09/2005			61,65	36,00	51.00	23.51	38.14								
08/11/2005		ZALIZZI (NISPONENCE ZALIZZANI PROPERTY AND	61.65	36.00	51.00	26.60	35.05			-				-	
11/18/2005			61.65	36.00	51.00	29.65	32.00								
02/01/2006	P		61.65	36.00	51.00	24.65	37.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	7.0
5/30/2006			61.65	36.00	51.00	21.69	39.96				ÉWWA				
8/10/2006	-		61.65	36.00	51.00	25.31	36.34	— 	 or (arm: rate (12.016)))		 + at 1915 (1838) (1848)				
11/2/2006	11.12.12.00		61.65	36.00	51:00	28.28	33.37								
2/6/2007	NP		61.65	36.00	51.00	28.63	33.02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.21	6.92
WGR-3		1													
12/17/2000						1921									
12/28/2001		h				_	_	-				***			
11/27/2002						20.60									
7/22/2003		s in the second			-	20.77	_			<u> </u>					*** C 25051-6705231
05/04/2004	P	E	63.27			19.53	43.74	:<50	<0.50	<0.50	≮0.50	<0.50	11	1.8	6.5
08/12/2004	P	***************************************	63.27	-	-	22.20	41.07	<50	<0.50	<0.50	<0.50	<0.50	35	2.0	er Handyonetski
11/10/2004	P		63.27			19.98	43.29	<50	<0.50	<0.50	<0.50	<0.50	5.6	0.3	6.3
02/03/2005	P	***************************************	63.27			16.91	46.36	<50	<0.50	<0.50	<0.50	<0.50	1.1	2.04	6.5
05/09/2005			63.27			17,29	45.98						Partie of the second se		
08/11/2005		and the second s	63.27	-		20.88	42.39	-					-	-	
11/18/2005			63,27			22,15	41.12								

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #276, 10600 MacArthur Blvd., Oakland, CA

				Top of	Bottom of		Water Level			Concentra	tions in (µ	g/L)			
Well and			тос	Screen	Screen	DTW	Elevation	GRO/	D	Tuluana	Ethyl- Benzene	Total Xylenes	мтве	DO (mg/L)	-u
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msl)	TPHg	Benzene	Toluene	Denzene	Aylenes	WIIDE	(mg/L)	Pix
WGR-3 Cont.															
02/01/2006	ii pi Pidin		63,27			14.90	4837	<50	<0,50	<0.50	<0.50	<0.50	23	2.0	6.5
5/30/2006			63.27	_	_	18.39	44.88			-		-			
8/10/2006			63.27			20.63	42.64								
11/2/2006			63.27	-		20.32	42.95	-				-		-	
2/6/2007	P.		63.27			18.52	44.75	<50	<0.50	<0.50	<0.50	<0.50	4.4	0.89	6.87

SYMBOLS & ABBREVIATIONS:

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

BTEX = Benzene, toluene, ethylbenzene and xylenes

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 measured in ft MSL

mg/L = Milligrams per liter

MTBE = Methyl tert butyl ether

NP = Not purged prior to sampling

P = Purged prior to sampling

TOC = Top of easing measured in ft MSL

TPH-g = Total petroleum hydrocarbons as gasoline

μg/L = Micrograms per liter

FOOTNOTES:

a = 1.1 DCE; this footnote is no longer applicable.

b = 1.2 DCA; this footnote is no longer applicable.

c = Chlorobenzene; this footnote is no longer applicable.

d = Sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. Results may still be used for intended

e = The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.

f = Discrete peak @ C5 for GRO/TPH-g.

g = Site was re-surveyed to NAVD' 88 on January 26, 2004.

h = Well was dry.

i = 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 was changed from C6-C10 to C4-C12.

Groundwater samples were analyzed by EPA method 8015B for GRO and EPA method 8260B for BTEX, fuel oxygenates, ethanol, and PCE.

Values for pH and DO levels are 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 #276, 10600 MacArthur Blvd., Oakland, CA

Well and						С	oncentrations	in (μg/L)							
Sample Date	Ethanol	TBA	MtBE	DIPE	EtBE	TAME	1,2-DCA	EDB	trans-1,2	cis-1,2	voc	Oxygen	PCE	TCE	Footnotes
MW-1															
12/17/2000		Upos / verendosana en L (44) III			- Control of the Cont					Franchis and a september 1 and			5.09		
12/28/2001				TO THE PARTY OF TH				Malline Principle Control			- (12022/12/12/12/12/14/14/14/14/14/14/14/14/14/14/14/14/14/	-	8.8	. szadestazá v tesetetévésé 	
11/27/2002		######################################											4.2		
7/22/2003	<100	<20	<0.50	<0.50	< 0.50	<0.50	<0.50	<0.50			_	_	6.0	_	2-10-4-10-10-10-10-10-10-10-10-10-10-10-10-10-
11/07/2003	<100	<20	<0.50	<0.50	<0.50	<0.50							3.0		
02/03/2004	112: 014:14 (Providence 1777)							_	_	-	**************************************	THE TRANSPORT OF SAME AS A SAME A SAME AS A SAME A SAME AS A SAME		<u></u>	uga gan tan kalaka ka ka
05/04/2004	≤100	<20	<0.50	<0.50	ii<0.50	≪0.50	≤0.50	<0,50					34		
08/12/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	***************************************		- responsibility	a upo manancana	4.5	_	(4611011614190161617776)
11/10/2004	<100	<20	<0.50	<0.50	<0.50	≤0.50	≤0.50	<0.50					4.9		
02/03/2005						-								 	e mummumumum
05/09/2005															
08/11/2005	4644470631000000000					-		-							
11/18/2005			-0.50	-0.50	<0.50	<0.50	<0.50	<0.50					38		ililiin ii
02/01/2006	<300	<20	<0.50	<0.50	THE PROPERTY OF THE PARTY OF TH			-0.50							g III
5/30/2006 8/11/2006											-		-	-	g g
11/2/2006															iii ii g
2/6/2007	<300		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		23123121212121222222222222222222222222	_	-	-		
MW-2															
11/07/2003	<1,000	 < 200	110	<5.0	₹50	28							<5.0		
02/03/2004	<500	<100	55	<5.0	<5.0	16	<2.5	<2.5		-		[] (x(1) (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	<2.5	-	2 19 19 19 19 19 19 19 19 19 19 19 19 19
05/04/2004	<500	<100 H	70	<2.5	25	15	<2.5	₹2 5					.::<2.5		
08/12/2004	<500	<100	49	<2.5	<2.5	14	<2.5	<2.5				:	<0.50		
11/10/2004	<200	440	90	≮1,0	<1,0	19	<1.0	<110					<1.0		
02/03/2005	<100	<20	37	<0.50	<0.50	13	<0.50	<0.50					<0.50		e
05/09/2005	<100	<20	56	<0,50	<0.50	17	<0.50	\$0:50					≤0.50		e
08/11/2005	<100	<20	50	<0.50	<0.50	8.5	<0.50	<0.50	-	-	751 Lae, 1490 L.J.S.J.S.J.S.A	***********	<0.50		
11/18/2005	<100	<20	40	<0.50	<0.50	115-115-1	<0,50	<0.50					<0.50		f.
02/01/2006	<300	<20	3.1	<0.50	<0.50	0.52	<0.50	<0.50	a mannicamiteesii		1411/1711/14440-5949) (5	ik i stranganak nivo:	<0.50		e Hananananan
5/30/2006	<300	(20:::::	64	<0.50	<0.50	12	<0.50	<0.50					<0.50		
8/11/2006	<300	<20	28	<0.50	<0.50	5.9	<0.50	<0.50	_				<0.50		

Table 2. Summary of Fuel Additives Analytical Data Station #276, 10600 MacArthur Blvd., Oakland, CA

Well and						C	oncentrations	in (μg/L)				1			
Sample Date	Ethanol	TBA	MtBE	DIPE	EtBE	TAME	1,2-DCA	EDB	trans-1,2	cis-1,2	VOC	Oxygen	PCE	TCE	Footnotes
MW-2 Cont.															
11/2/2006	<300	<20	40	<0.50	<0.50	7.9	<0.50	<0.50		Indiana in the second s			<0.50		International Control of Control
2/6/2007	<300	<20	39	<0.50	<0.50	9.2	<0.50	<0.50	-					-	
MW-3															
12/17/2000													158		
12/28/2001		_		-			4 11951/1257/11111/1111/19		1.5	13			310	20	***************************************
11/27/2002													110		
7/22/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		-	### ##################################		80	-	reguestaties (Since
11/07/2003	<100	<20	<0.50	<0.50	<0.50	<0.50							80		
02/03/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	-				110	 	
05/04/2004	₹200	<40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0					110 61		
08/12/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50					99		
11/10/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50					160		e
02/03/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50						44101222141222	
05/09/2005													-		HERETERS (1995)
08/11/2005															
11/18/2005	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		***		PER HERETE PER PER PER PER PER PER PER PER PER PE	110		e
02/01/2006 5/30/2006	300														g
8/11/2006				-	-		_	14 1000 verence (1200 160 170 170 170 170 170 170 170 170 170 17				-		_	g
11/2/2006								Thorstoners and the second							g
2/6/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	_	<u> </u>	<u> </u>	-	ļ -		
MW-4															
12/17/2000													225		
12/28/2001			_		-		-			1 Cd and County	-	-	160	1.2	
11/27/2002													95		
7/22/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		44	-		94		
11/07/2003	<100	<20	<0.50	<0.50	<0.50	<0.50							68		
02/03/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50					83		
05/04/2004	200	40	<1,0	<1.0	<1.0	<1.0	<1.0	<1.0					81 59		
08/12/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			1) 29	-	

Table 2. Summary of Fuel Additives Analytical Data Station #276, 10600 MacArthur Blvd., Oakland, CA

Well and						C	oncentrations	in (μg/L)				7			
Sample Date	Ethanol	TBA	MtBE	DIPE	EtBE	TAME	1,2-DCA	EDB	trans-1,2	cis-1,2	VOC	Oxygen	PCE	TCE	Footnote
MW-4 Cont.															
11/10/2004	<100	₹20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50					78		
02/03/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-			61		e managaran
05/09/2005															
08/11/2005							 	-							
11/18/2005													320		e e
02/01/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		-			320 		8
5/30/2006															g
8/11/2006		**************************************	-				_						CONTROL OF STREET		в В
11/2/2006		20	-0.50	<0.50	<0.50	<0.50	<0.50	<0.50				_			
2/6/2007	<300	<20	<0.50	<0.50	70.30	70.50	70.50	1000	1				1		
MW-5							14.554;51 sammerorum 11-1892 # 175	a	-	2777 1418 WALLEY TO THE					
12/17/2000													1,040	100	
12/28/2001		-	-						36	140	1.9, 3.2, 2.0		3,200 110	190	a,b,c
11/27/2002		Property Page (File College)											55		
7/22/2003	<200	<40	110	1.4	<1.0	3.2 6.6	12	<1.0					42		
11/07/2003	≤500	<100	120 71	<2.5 <5.0	<2.5 <5.0	<5.0	12	<2.5					130		::::::::::::::::::::::::::::::::::::::
02/03/2004	<500 <500	<100 <100	150	<2.5	225	5.0	8.8	225					36		
05/04/2004 08/12/2004	<500	<100 <100	140	<2.5	<2.5	10	10	<2.5	# 12:11:11:11:11:11:11:11:11:11:11:11:11:1			0	37	-	324222222222
11/10/2004	<200	₹40	150	11	21.0	9.5	9.8	<1,0					50		
02/03/2005	<100	<20	16	<0.50	<0.50	0.54	2.7	<0.50	-)	23 2221229 50 40 50 40 40 40 40 40 40 40 40 40 40 40 40 40	225 1 - 2777 699 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	480	-	e
05/09/2005	<500	<100	140	₹2.5	<2.5	92	10	<2.5					78		e
08/11/2005	<500	<100	160	<2.5	<2.5	10	9.6	<2.5	_		27 PROFESSOR & CONTRACTOR & CON		27		o and a market state of the sta
11/18/2005	<500	<100	120	₹2.5	<2.5	9,2	10	<2.5					19		f
02/01/2006	<750	<50	100	<1.2	<1.2	5.1	7.4	<1.2					470		e
5/30/2006	<1,500	<100	230	₹2.5	£2.5		11	<2.5					48		
8/11/2006	<1,500	<100	170	<2.5	<2.5	14	9.2	<2.5		 12 0100 7 9 F. (7.11)		 ***********************************	24 9.8		
11/2/2006	<600	<40	160	<1.0		12	7.8	<1.0					7.6 –		
2/6/2007	<600	<40	120	<1.0	<1.0	13	4.6	<1.0	<u> </u>				 - -	 -	
MW-6														was with the base	

Table 2. Summary of Fuel Additives Analytical Data Station #276, 10600 MacArthur Blvd., Oakland, CA

Well and						C	oncentrations	in (μg/L)							
Sample Date	Ethanol	ТВА	MtBE	DIPE	EtBE	TAME	1,2-DCA	EDB	trans-1,2	cis-1,2	VOC	Oxygen	PCE	TCE	Footnotes
MW-6 Cent.															
11/07/2003	<1,000 E	<200	₹5:0	<5.0	<5.0	45.0						The second secon	560		
02/03/2004	<500	<100	<2.5	<5.0	<5.0	<5.0	<2.5	<2.5	_	-			220	-	
05/04/2004	<500	<100	~2.5	<2.5 □	<2.5	42.5	<2.5	<2.5					210		
08/12/2004	<100	<20	0.81	<0.50	<0.50	<0.50	<0.50	<0.50			5 - 1 SA44 64 2 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	***************************************	750		
11/10/2004	< 100	≤20	0.89	<0.50	<0.50	<0.50	<0.50	<0.50					530		
02/03/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	 			3 12 17 17 17 17 17 17 17 17 17 17 17 17 17	85		e mummenumum
05/09/2005						-									
08/11/2005	<100	<20	0.77	<0.50	<0.50	<0.50	<0.50	<0.50					610		
11/18/2005		The same of the sa											690		e e
02/01/2006	<3,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0 <5.0	<5.0 <5.0	 				880		
8/11/2006	<3,000	<200: 	\$50	\$50. -0.50	<510	<5.0 <0.50	<0.50	<0.50							
2/6/2007	<300	<20	0.80	<0.50	<0.50	~U.DU	~0.30	50.30	_					<u> </u>	
MW-7										CEST TO WASTE AND A MEDICAL MANGE AND SHARE	***************************************			***************************************	· I/MATERFECTERZZZZZZETEKSZEZ
11/07/2003	<500	<100	53	≤2.5	<25	13							25		
02/03/2004	<100	<20	32	<1.0	<1.0	7.4	< 0.50	<0.50					0.74	-	
02/03/2005	<100	<20	14	<0.50	<0.50	3.9	<0.50	<0.50					1.6		
05/09/2005					-		-								i e
08/11/2005	<200	<40	21	<1,0	<1.0	4.7	<1.0 -	210							
11/18/2005			18	_ 	- ≷0.50	_ <0.50	<0.50	 <0.50					0.71		i i e ii i
02/01/2006	<300	<20	41	<0.50 <0.50	<0.50	9.0	<0.50	<0.50				20 12 20 Alexandra (Company of the Company of the C	<0.50		
8/11/2006 2/6/2007	<300	<20 <20	8.4	<0.50	~0.50 # ₹0.50	2.2	<0.50	<0.50					<0.50		
	500	344										11 11 11 11 11 11 11 11 11 11 11 11 11	210627, 10003954	1	\$555255552252818161515411FFF
MW-8							THE PROPERTY OF THE PROPERTY O	o cooperedepennisalClipalgich			***************************************	s unishikiiskiis			Sarrennings
11/07/2003	<1,000	<200 =	440	<5.0	<5.0	18							<5.0		
02/03/2004	<2,500	<500	470	<25	<25	<25	<12	<12					<12 12		
05/04/2004	<2,000	< 400	700	<10	<10	21	<10	<10					1.1		77774540-0-4774440-000
08/12/2004	<5,000	<1,000	400	<25	<25	<25	<25	<25	- 8				8.9		
11/10/2004	<1,000	<200	480	<5.0	<5.0	21	<5.0	<5.0					0.59		e
02/03/2005	<100	<20	45	<0.50	<0.50	1.9	<0.50 <5.0	<0.50 <5.0					<5.0		e di e
05/09/2005	<1,000	<200	440	5.0	<5.0	21		3.U							

Table 2. Summary of Fuel Additives Analytical Data Station #276, 10600 MacArthur Blvd., Oakland, CA

Well and						Co	ncentrations	in (μg/L)							
Sample Date	Ethanol	TBA	MtBE	DIPE	EtBE	TAME	1,2-DCA	EDB	trans-1,2	cis-1,2	VOC	Oxygen	PCE	TCE	Footnotes
MW-8 Cont.															
08/11/2005	≤1,000	200 0	420	₹5.0	<5.0	24	2025	25:0			Saving College		<0.50		illi e i
11/18/2005	<1,000	<200	390	<5.0	<5.0	23	<5.0	<5.0	Slewaren ku		(*************************************		4.2	######################################	ſ
02/01/2006	<3.000	<200	600	i≼5;0	<5.0	21	# ₹5.0	6 5.0 €					<0.50		
5/30/2006	<3.000	<200	480	<5.0	<5.0	25	< 5.0	<5.0					<5.0	-	**************************************
8/11/2006	<300	<20	630	<0.50	<0.50	37		\$0.50					<0.50		
11/2/2006	<1,500	<100	660	<2.5	<2.5	43	<2.5	<2.5	_			-	<2.5	_	
2/6/2007	₹300	<20	60	<0.50	<0.50	4.8	<0.50	<0.50					0.72		
RW-1		4) (0,000,000,000,000,000,000,000,000,000,													-
11/07/2003	 <100	2011	<0.50	<0.50	<0.50	<0.50				And the latest the state of the			<u> </u>		
02/03/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	< 0.50				\$ (7 8 7 1 4 1 m. 2 c p. 15 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.76		Salatu gastara arang ang bang bang a
05/04/2004	<100	₹20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		Comments of the comments of th			1.8		
08/12/2004	330/<100	<20	< 0.50	<0.50	<0.50	<0.50	< 0.50	<0.50	_		A STATE OF THE STA		2.9	_	d
11/10/2004	<100	20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50					5.2		
02/03/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50					1.7		е
05/09/2005															
08/11/2005						-									l afræsretarreggeræsileriðir
11/18/2005															
02/01/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50					1.7		e Tananaronalis
5/30/2006				10 to											8
8/11/2006						-									g Historia
11/2/2006					-0.50	<0.50	<0.50	<0.50					15		S
2/6/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	~0.30		-			15	 	1
WGR-3										and a state of the period by a common		11 12 20 20 20 20 20 20 20 20 20 20 20 20 20		anatricansina sac	- 53-2-41-411-pithian.00/000
05/04/2004	<100	₹20		≤0.50	<0.50	2,4	<0.50	<0.50 .					<0.50		
08/12/2004	<100	<20	35	<0.50	<0.50	7.5	<0.50	<0.50			5. STSHMOREGARDSRESSHARE(1468)		<0.50	_	
11/10/2004	<100	<20	5.6	<0.50	<0.50	1.3	<0.50	<0.50				I Planting Commence	<0.50		
02/03/2005	<100	<20	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	-	-			<0.50		e
05/09/2005				The second secon			Partie Salaman Astronomy Astronomy Astronomy Company C			A CONTRACTOR OF THE CONTRACTOR					
08/11/2005						-	— 4999555555								
11/18/2005															

Table 2. Summary of Fuel Additives Analytical Data Station #276, 10600 MacArthur Blvd., Oakland, CA

Well and	Concentrations in (µg/L)									1					
Sample Date	Ethanol	TBA	MtBE	DIPE	EtBE	TAME	1,2-DCA	EDB	trans-1,2	cis-1,2	voc	Oxygen	PCE	TCE	Footnotes
WGR-3 Cont.															
02/01/2006	400	₹20	25	<050	<0.50	<0.50	<0.50	<050					<0.50		# C
5/30/2006			_							<u> </u>	_	_		_	B
8/11/2006															.
11/2/2006			_		_		_	-	-			ļ 	-		g
2/6/2007	300	<20	44	<0.50	<0.50	0.58	<0;50	<0.50					<0.50		

SYMBOLS & ABBREVIATIONS:

- -- = Not analyzed/applicable/measured/available
- < = Not detected at or above the laboratory reporting limit
- 1,2-DCA = 1,2-Dichloroethane
- cis-1,2-DCE = cis-1,2-Dichloroethene
- DIPE = Di-isopropyl ether
- EDB = 1,2-Dibromoethane
- ETBE = Ethyl tert-butyl ether
- MTBE = Methyl tert-butyl ether
- PCE = Tetrachloroethene
- TAME = tert-Amyl methyl ether
- TBA = tert-Butyl alcohol
- TCE = Trichloroethene
- trans-1,2-DCE = trans 1,2-Dichloroethene
- VOC = Volatile organic compounds
- μg/L = Micrograms per Liter
- BTEX = Benzene, toluene, ethylbenzene and xylenes

FOOTNOTES:

- a = VOC 1,1 DCE detected at a concentration of 1.9 ug/L.
- b = VOC 1,2 DCA detected at a concentration of 3.2 ug/L.
- c = VOC Chlorobenzene detected at a concentration of 2.0 ug/L.
- d = Ethanol was re-analyzed two days out of holding time and was not detected above a laboratory reporting limit of 100 ug/L.
- c = Calibration verification for ethanol was within method limits but outside contract limits.
- f = Sample for PCE analyzed after holding time expired.
- g = Well sampled annually.

NOTES:

PCE was analyzed using EPA Method 8260B. Samples were analyzed by EPA method 8015B for GRO and EPA method 8260B for BTEX, fuel oxygenates, ethanol, and PCE.

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 #276, 10600 MacArthur Blvd., Oakland, CA

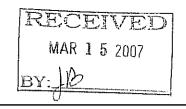
Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
12/17/2000	South-Southeast	0.003
12/28/2001	Southeast	0.002
11/27/2002	South-Southeast	0:003
7/22/2003	South	0.007
11/7/2003	Southwest	0.002
2/3/2004	South-Southwest	0.002
5/4/2004	South-Southwest	0.003
8/12/2004	South	0.004
11/10/2004	Southwest	0.004
2/3/2005	Southwest	0.003
5/9/2005	South-Southwest	0.004
8/11/2005	South-Southwest	0.007
1:1/18/2005	Southwest	0.005
2/1/2006	Southwest	0.002
5/30/2006	South-Southwest	0.007
8/10/2006	South-Southwest	0.004
11/2/2006	South-Southwest	0,004
2/6/2007	South-Southwest	0.005

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)





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

March 6, 2007

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

Re:

Groundwater Sampling Data Package, BP Service Station No. 276, located at 10600 MacArthur Boulevard, California (Quarterly Monitoring performed on February 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: February 6, 2007

Arrival: 10:45 Departure: 14:20

Weather Conditions: Clear Unusual Field Conditions: None

Scope of Work Performed: Quarterly monitoring and sampling

Variations from Work Scope: None noted

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 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. NAL

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

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 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) 676-60041, 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 nonhazardous 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:

276								
Station #								
0.11 1 10600.16 1 1 71								
Oakland – 10600 MacArthur Blvd.								
Station Address								
Total Gallons Collected From Gro	oundwater Monitoring Wells:							
100	J							
<u> </u>								
Added Equipment	Any Other							
Rinse Water 5	Adjustments O							
TOTAL GALS.	loaded onto							
RECOVERED /7	Doulos vehicle #							
Stratus Project #	time date							
<u>-</u>	1420							
	216107							
Signature / PAUF	ls.							
Signature (F)	87-							

RECEIVED AT	time date							
BP 5786	9:05 21/9/07							
Unloaded by								
Signature	Hospitic							

faxed 2/19/07

BP ALAMEDA PORTFOLIO

HYDROLOGIC DATA SHEET

Gauge Date: Z/G/07

Project Name: Oakland - 10600 MacArthur Blvd.

Field Technician: Jerry

Project Number: 276

TOC = Top of Well Casing Elevation
DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

DIA = Well Casing Dinmeter ELEV = Groundwater Elevation DUP = Duplicate

WELL OR LOCATION	TIME			MEASU	REMENT	PURGE & SAMPLE	SHEEN CONFIRMATION	COMMENTS		
		TOC	DTP	DTW	DTB	DIA	ELEV		(w/bailer)	
MW-1	//:00			28-12	38.68	21		4-05		
MW 2	10:39			1548	25.11	411		Yes		,
MW-3	10:50			28.85	38,38	211		405		
MW.9	10:53			28.28	47-60	211		4e5		
MW.5	10:44			2800	46.68	411		45		
MW-2 MW-3 MW-5 MW-6 MW-7 MW-8 KW-1 WGR-3	10:20			33,53	48.20	211		Yes		***************************************
m. 7	10:28			12.79	3663	211		Yes		-
MW-8	10.35			26.27	47.78	411		428	-	
pw-1	10:55		·	1863	4874	6"		4es		
WGR-3	10:25			1852		411		495		
							78. pt			
·······										
										······································

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**··										

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BP ALAMEDA PORTFOLIO									
WATER SAMPLE FIELD DATA SHEET									
PROJECT #: 276 PURGED BY: CLIENT NAME: SAMPLED BY: LOCATION: Oakland - 10600 MacArthur Blvd.	WELL I.D.: NWW / SAMPLE I.D.: NWW (QA SAMPLES:								
DATE PURGED 2-6-57 START (2400hr) DATE SAMPLED 2-6-57 SAMPLE TIME (2 SAMPLE TYPE: Groundwater x Surface Water	•								
CASING DIAMETER: 2" 3" (0.38)	" 5" 6" 8" Other (1.50)								
DEPTH TO BOTTOM (feet) = 3 6 6 5 DEPTH TO WATER (feet) = 7 8./7 WATER COLUMN HEIGHT (feet) = /0-5	CASING VOLUME (gal) = CALCULATED PURGE (gal) = ACTUAL PURGE (gal) =								
FIELD M	EASUREMENTS								
DATE TIME VOLUME TEMP. (2400hr) (gal) (degrees F)	CONDUCTIVITY pH COLOR TURBIDITY (umhos/cm) (units) (visual) (NTU)								
SAMPLE DEPTH TO WATER: 28./2 SAMPLE	INFORMATION SAMPLE TURBIDITY:								
80% RECHARGE: YES NO ANALYSES: SEE WOOK ONDER ODOR: LE SAMPLE VESSEL/PRESERVATIVE: 12 VOA HCC									
PURGING EQUIPMENT Bladder Pump	SAMPLING EQUIPMENT Bladder Pump Centrifugal Pump Submersible Pump Peristalic Pump Dedicated Other:								
WELL INTEGRITY: 5002 REMARKS: DO 1.15									
SIGNATURE: Page of									

BP ALAMEDA PORTFOLIO WATER SAMPLE FIELD DATA SHEET PURGED BY: 50 WELL I.D.: / 276 PROJECT #: SAMPLE I.D.: SAMPLED BY: CLIENT NAME: OA SAMPLES: Oakland - 10600 MacArthur Blvd. LOCATION: END (2400hr) START (2400hr) DATE PURGED DATE SAMPLED SAMPLE TIME (2400hr) Surface Water Treatment Effluent Other SAMPLE TYPE: Groundwater Other CASING DIAMETER: (1.02) (2.60) Casing Volume: (gallons per foot) (0.17)(0.38)25.// CASING VOLUME (gal) = DEPTH TO BOTTOM (feet) = CALCULATED PURGE (gal) = DEPTH TO WATER (feet) = ACTUAL PURGE (gal) = WATER COLUMN HEIGHT (feet) = FIELD MEASUREMENTS pН TURBIDITY CONDUCTIVITY COLOR VOLUME TEMP. DATE TIME (umhos/cm) (units) (visual) (NTU) (2400hr) (gal) (degrees F) SAMPLE INFORMATION SAMPLE DEPTH TO WATER: 1598 SAMPLE TURBIDITY: ANALYSES: See WORK offer 80% RECHARGE: YES NO SAMPLE VESSEL / PRESERVATIVE: ODOR: / PURGING EQUIPMENT SAMPLING EQUIPMENT Bladder Pump Bladder Pump Bailer (Teflon) Bailer (Teflon) Centrifugal Pump Bailer (PVC or disposable) Centrifugal Pump Bailer (PVC) Bailer (Stainless Steel) Bailer (Stainless Steel) Submersible Pump Submersible Pump Peristalic Pump Dedicated Peristalic Pump Dedicated Other: Other: Pump Depth: /// LOCK#: NONE WELL INTEGRITY: SIGNATURE: Page ٥ſ

BP ALAMEDA PORTFOLIO WATER SAMPLE FIELD DATA SHEET WELL I.D.: MW PURGED BY: PROJECT #: SAMPLE I.D.: SAMPLED BY: CLIENT NAME: Oakland - 10600 MacArthur Blvd. OA SAMPLES: LOCATION: END (2400hr) DATE PURGED START (2400hr) SAMPLE TIME (2400hr) DATE SAMPLED Surface Water Treatment Effluent SAMPLE TYPE: Groundwater CASING DIAMETER: Other (0.67) (1.02) (0.38) Casing Volume: (gallons per foot) 38,38 DEPTH TO BOTTOM (feet) = CASING VOLUME (gal) = CALCULATED PURGE (gal) = DEPTH TO WATER (feet) = ACTUAL PURGE (gal) = WATER COLUMN HEIGHT (feet) = FIELD MEASUREMENTS pН COLOR TIME VOLUME TEMP. CONDUCTIVITY TURBIDITY DATE (degrees F) (umhos/cm) (units) (visual) (NTU) (2400hr) 70 /. 20.4 SAMPLE INFORMATION 28,85 SAMPLE DEPTH TO WATER: SAMPLE TURBIDITY: 80% RECHARGE: YES NO ANALYSES: Voa 00 ODOR: New? SAMPLE VESSEL / PRESERVATIVE: 6 PURGING EQUIPMENT SAMPLING EQUIPMENT Bladder Pump Bladder Pump Bailer (Teflon) Bailer (Teflon) Centrifugal Pump Bailer (PVC) Centrifugal Pump Bailer (PVC or disposable) Submersible Pump Bailer (Stainless Steel) Bailer (Stainless Steel) Submersible Pump Dedicated Peristalic Pump Dedicated Peristalic Pump Other: Other: NONC Pump Depth: LOCK#: NECO WELL INTEGRITY: REMARKS: SIGNATURE:

BP ALAMEDA PORTFOLIO WATER SAMPLE FIELD DATA SHEET 00 PURGED BY: WELL I.D.: PROJECT#: SAMPLE I.D.: SAMPLED BY: CLIENT NAME: Oakland - 10600 MacArthur Blvd. OA SAMPLES: LOCATION: DATE PURGED 7-6-07 END (2400hr) // 5 3 2 START (2400hr) DATE SAMPLED SAMPLE TIME (2400hr) SAMPLE TYPE: Surface Water Treatment Effluent Other Groundwater CASING DIAMETER: Other (0.67) (1.02)(1.50) Casing Volume: (gallons per foot) (0.38)(2.60)DEPTH TO BOTTOM (feet) = CASING VOLUME (gal) = CALCULATED PURGE (gal) = DEPTH TO WATER (feet) = WATER COLUMN HEIGHT (feet) = ACTUAL PURGE (gal) = FIELD MEASUREMENTS TIME VOLUME DATE TEMP. CONDUCTIVITY pН COLOR TURBIDITY (2400hr) (degrees F) (umhos/cm) (units) (visual) (gal) (NTU) 1/53/ SAMPLE INFORMATION 2828 SAMPLE TURBIDITY: SAMPLE DEPTH TO WATER: work order ANALYSES: 500 YES YES 80% RECHARGE: NO Wantel ODOR: 🖊 SAMPLE VESSEL / PRESERVATIVE: PURGING EQUIPMENT SAMPLING EQUIPMENT Bailer (Teflon) Bladder Pump Bladder Pump Bailer (Teflon) Bailer (PVC or X disposable) Centrifugal Pump Bailer (PVC) Centrifugal Pump Submersible Pump Bailer (Stainless Steel) Submersible Pump Bailer (Stainless Steel) Peristalic Pump Peristalic Pump Dedicated Dedicated Other: Other: Pump Depth: More LOCK#: Klare WELL INTEGRITY: REMARKS: SIGNATURE:

BP ALAMEDA PORTFOLIO WATER SAMPLE FIELD DATA SHEET WELL I.D.: NW-5 PROJECT #: PURGED BY: SAMPLE I.D.: 120 5 SAMPLED BY: CLIENT NAME: Oakland - 10600 MacArthur Blvd. QA SAMPLES: LOCATION: 7-6-07 END (2400hr) / 2:00-2 DATE PURGED START (2400hr) DATE SAMPLED SAMPLE TIME (2400hr) SAMPLE TYPE: Surface Water Treatment Effluent Other Groundwater CASING DIAMETER: Other (1.02) (0.17) (2.60) Casing Volume: (gallons per foot) (0.38)46.68 DEPTH TO BOTTOM (feet) = CASING VOLUME (gal) = 28.00 CALCULATED PURGE (gal) = DEPTH TO WATER (feet) = ACTUAL PURGE (gal) = WATER COLUMN HEIGHT (feet) = FIELD MEASUREMENTS COLOR TURBIDITY TIME VOLUME TEMP. CONDUCTIVITY DATE pН (umhos/cm) (units)_ (visual) (NTU) (2400hr) (gal) (degrees F) 12-01 SAMPLE INFORMATION 28,00 SAMPLE TURBIDITY: SAMPLE DEPTH TO WATER: ANALYSES: SEE WORK 80% RECHARGE: XX YES NO UOQ-17 ODOR: No SAMPLE VESSEL / PRESERVATIVE: PURGING EQUIPMENT SAMPLING EQUIPMENT Bladder Pump Bladder Pump Bailer (Teflon) Bailer (Teflon) Bailer (PVC) Centrifugal Pump ➤ Bailer (PVC or ∠ disposable) Centrifugal Pump Bailer (Stainless Steel) Bailer (Stainless Steel) Submersible Pump Submersible Pump Peristalic Pump Dedicated Peristalic Pump Dedicated Other: Other: Pump Depth: LOCK#: Alles WELL INTEGRITY: SIGNATURE:

BP ALAMEDA PORTFOLIO WATER SAMPLE FIELD DATA SHEET PURGED BY: WELL I.D.: / 276 PROJECT #: SAMPLE I.D.: SAMPLED BY: CLIENT NAME: Oakland - 10600 MacArthur Blvd. QA SAMPLES: LOCATION: 2-6-07 START (2400hr) / 3:/ END (2400hr) 13566 DATE PURGED SAMPLE TIME (2400hr) DATE SAMPLED Treatment Effluent Other SAMPLE TYPE: Groundwater Surface Water Other CASING DIAMETER: (0.67) (1.02) (1.50) (2.60)Casing Volume: (gallons per foot) (0.17)(0.38)DEPTH TO BOTTOM (feet) = CASING VOLUME (gal) = CALCULATED PURGE (gal) = DEPTH TO WATER (feet) = WATER COLUMN HEIGHT (feet) = ACTUAL PURGE (gal) = FIELD MEASUREMENTS TEMP. CONDUCTIVITY COLOR TURBIDITY DATE TIME VOLUME pН (umhos/cm) (units) (visual) (NTU) (2400hr) (gal) (degrees F) 2-5 8.0 SAMPLE INFORMATION SAMPLE DEPTH TO WATER: 33.95 SAMPLE TURBIDITY: order WORK 80% RECHARGE: YES ANALYSES: 500 ODOR: 10 1/0-a SAMPLE VESSEL / PRESERVATIVE: PURGING EQUIPMENT SAMPLING EQUIPMENT Bladder Pump Bailer (Teflon) Bladder Pump Bailer (Teflon) PVC or >< disposable) Centrifugal Pump Bailer (PVC) Centrifugal Pump Bailer (Bailer (Stainless Steel) Submersible Pump Bailer (Stainless Steel) Submersible Pump Peristalic Pump Dedicated Peristalic Pump Dedicated Other: Other: Pump Depth: LOCK#: Mas Tac WELL INTEGRITY: Page SIGNATURE:

BP ALAMEDA PORTFOLIO WATER SAMPLE FIELD DATA SHEET WELL I.D.: A PURGED BY: 276 PROJECT #: SAMPLE I.D.: SAMPLED BY: CLIENT NAME: OA SAMPLES: Oakland - 10600 MacArthur Blvd. LOCATION: END (2400hr) _ / 3:5 \$ START (2400hr) 1359 スーム・ロン DATE PURGED SAMPLE TIME (2400hr) DATE SAMPLED Treatment Effluent Other SAMPLE TYPE: Groundwater Surface Water Other CASING DIAMETER: (1.02) (0.67)(1.50) . (2.60)Casing Volume: (gallons per foot) (0.38)76.63 CASING VOLUME (gal) = DEPTH TO BOTTOM (feet) = CALCULATED PURGE (gal) = DEPTH TO WATER (feet) = ACTUAL PURGE (gal) = WATER COLUMN HEIGHT (feet) = FIELD MEASUREMENTS TURBIDITY VOLUME TEMP. CONDUCTIVITY pH · COLOR DATE TIME (umhos/cm) (units) (visual) (NTU) (2400hr) (gal) (degrees F) SAMPLE INFORMATION 18-77 SAMPLE TURBIDITY: Chear SAMPLE DEPTH TO WATER: 80% RECHARGE: YES NO ANALYSES: 1/00-HCC SAMPLE VESSEL / PRESERVATIVE: ODOR: MASS SAMPLING EQUIPMENT PURGING EQUIPMENT ≻Bailer (Teflon) Bladder Pump Bailer (Teflon) Bladder Pump Bailer (PVC or disposable) Bailer (PVC) Centrifugal Pump Centrifugal Pump Bailer (Stainless Steel) Submersible Pump Bailer (Stainless Steel) Submersible Pump Dedicated Peristalic Pump Peristalic Pump Dedicated Other: Other: Pump Depth: 10 LOCK#: Mark WELL INTEGRITY: SIGNATURE: Page

BP ALAMEDA PORTFOLIO WATER SAMPLE FIELD DATA SHEET WELL I.D.: N PURGED BY: 276 PROJECT #: SAMPLE I.D.: SAMPLED BY: CLIENT NAME: **QA SAMPLES:** Oakland - 10600 MacArthur Blvd. LOCATION: END (2400hr) START (2400hr) DATE PURGED SAMPLE TIME (2400hr) DATE SAMPLED Treatment Effluent Groundwater Surface Water SAMPLE TYPE: Other CASING DIAMETER: (2.60)(1.02)(0.17)Casing Volume: (gallons per foot) CASING VOLUME (gal) = DEPTH TO BOTTOM (feet) = CALCULATED PURGE (gal) = DEPTH TO WATER (feet) = ACTUAL PURGE (gal) = WATER COLUMN HEIGHT (feet) = FIELD MEASUREMENTS COLOR TURBIDITY CONDUCTIVITY VOLUME TEMP. pΗ DATE TIME (visual) (umhos/cm) (NTU) (degrees F) (units) (2400hr) (gal) SAMPLE INFORMATION SAMPLE DEPTH TO WATER: 26.85 SAMPLE TURBIDITY: order ANALYSES: 500 80% RECHARGE: X YES SAMPLE VESSEL / PRESERVATIVE: ODOR: NO PURGING EQUIPMENT SAMPLING EQUIPMENT Bladder Pump Bladder Pump Bailer (Teflon) Bailer (Teflon) PVC or Kdisposable) Centrifugal Pump Bailer (Bailer (PVC) Centrifugal Pump Bailer (Stainless Steel) Submersible Pump Submersible Pump Bailer (Stainless Steel) Peristalic Pump Peristalic Pump Dedicated Dedicated Other: Other: Pump Depth: LOCK#: / A WELL INTEGRITY: REMARKS: SIGNATURE: of

BP ALAMEDA PORTFOLIO WATER SAMPLE FIELD DATA SHEET WELL I.D.: RW-/ PURGED BY: 276 PROJECT #: SAMPLE I.D.: RW-/ SAMPLED BY: CLIENT NAME: OA SAMPLES: LOCATION: Oakland - 10600 MacArthur Blvd. END (2400hr) //=/2 2/6/07 11:08 DATE PURGED START (2400hr) SAMPLE TIME (2400hr) DATE SAMPLED Treatment Effluent Other Surface Water SAMPLE TYPE: Groundwater x Other CASING DIAMETER: (0.17)(0.67)(1.02)(2.60)(0.38) Casing Volume: (gallons per foot) CASING VOLUME (gal) = DEPTH TO BOTTOM (feet) = CALCULATED PURGE (gal) = DEPTH TO WATER (feet) = ACTUAL PURGE (gal) = WATER COLUMN HEIGHT (feet) = FIELD MEASUREMENTS TURBIDITY CONDUCTIVITY COLOR DATE TIME VOLUME TEMP. рΗ (units) (visual) (degrees F) (umhos/cm) (NTU) (2400hr) (gal) 692 304 SAMPLE INFORMATION 2863 SAMPLE TURBIDITY: 6/46. SAMPLE DEPTH TO WATER: ANALYSES: See Work ordon Y-YES 80% RECHARGE: ODOR: 10 VOQ-SAMPLE VESSEL / PRESERVATIVE: SAMPLING EQUIPMENT PURGING EQUIPMENT Bailer (Teflon) Bladder Pump Bailer (Teflon) Bladder Pump Bailer (PVC or 📈 disposable) Centrifugal Pump Bailer (PVC) Centrifugal Pump Bailer (Stainless Steel) Submersible Pump Bailer (Stainless Steel) Submersible Pump Peristalic Pump Dedicated Peristalic Pump Dedicated Other: Other: Pump Depth: LOCK#: Mass WELL INTEGRITY: 21 REMARKS: Page SIGNATURE:

	BP ALAMEDA PORTI	F <i>OLIO</i>	
W	ATER SAMPLE FIELD DA	TA SHEET	Market and the second s
PROJECT #: 276 CLIENT NAME: LOCATION: Oakland - 10600 MacArthur	PURGED BY: SAMPLED BY: Blvd.		WGR-3 : WGR-3 s:
DATE PURGED 7/6/57 DATE SAMPLED 2/6/59 SAMPLE TYPE: Groundwater x		END (2400hr) 3-\50 Treatment Effluent	0 13:46
CASING DIAMETER: 2" Casing Volume: (gallons per foot) (0.17)	3" (0.38) 4" (0.67) 5"	" (1.02) 6" (1.50) 8	Other (2.60)
DEL III TO DOTT SIN (1861)	<u>52</u>	CASING VOLUME (gal) = CALCULATED PURGE (gal) = ACTUAL PURGE (gal) =	5-6 16-8 17-0
	FIELD MEASUREMENT	S	
DATE TIME (2400hr) (gal) 2-6-57 / 342 5-6 1 / 3 49 17-0 1 / 3 96 17-0 SAMPLE DEPTH TO WATER: 19-10	TEMP. CONDUCTIVI (degrees F) (umhos/cm / 9-7 368- 79-7 349-5 79-7 4376	(units) (varies) (var	Y: C/cac
80% RECHARGE: YES NO ODOR: NO SAMPLE V	ANALYSES: 5 C. C	voa-HCC	
PURGING EQUIPMENT Bladder Pump Bailer (Centrifugal Pump Bailer (1	Feflon	SAMPLING EQUIPM der Pump Bailer (rifugal Pump Bailer	Teflon) (PVC ordisposable) Stainless Steel)
WELL INTEGRITY: SOME REMARKS: DO-0-89 SIGNATURE: No. 10 - 0 - 89		LOCK#: Ale	Pageof

Wellhead Observation Form

Account:	
7-314	2667
Sampled by:	Date: 4,00//

Well ID	Box in good condition	Lock Missing (Replaced with new)	Water in Box	Bolts Missing	Bolts Stripped	Bolt-Holes Stripped	Cracked or Broken Lid	Cracked Box and/or Bolt - Holes	Misc.	Add'l Notes and Other Stuff
RW-1	Scoll	NO	4.05	NO	No	No	No	10		
11W3	Sod	10	0	10	No	No	NO	110		
New 1.	Sood	NO	NO	1	16	NO	NO	NO		
MW 4	Soci	No	NO	No	NO	No	NO	10		
	Spol	ルり	Ne	Ges.	No	No	1/0	1-10		
MV-2	Seep	Slipan Cop	10	NO	NO	NO	No	10		
W28	Boste	SILFON	NO	18	NO	No	No	NO		
MW-6	god	No	Jes	Ne	16	No	Po	No		
W 6 12-3	Sod	20	NO	No	No	NO	NO	NO		
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Atlantic Richfield Company	
Company	
A BP affiliated company	

Chain of Custody Record

Project Name: BP 276
BP BU/AR Region/Enfos Segment: BP>Americas>West>Retail>CA>Alameda>276
State or Lead Regulatory Agency:
Requested Due Date (mm/dd/yy):

On-site Time:	1045	Temp: 000/
Off-site Time:	1470	Temp: Cod
Sky Conditions:	clear	
Meteorological Ev	vents: NDX	
Wind Speed:	ь	Direction: A

							
Lab Name: TestAmerica	BP/AR Facility No.: 276	Consultant/Contractor: Stratus Environmental, Inc.					
Address: 885 Jarvis Drive	BP/AR Facility Address: 10600 MacArthur Blvd., Oakland	Address: 3330 Cameron Park Drive, Suite 550					
Morgan Hill, CA 95937	Site Lat/Long:	Cameron Park, CA 95682					
Lab PM: Lisa Race	California Global ID #: T0600108312	Consultant/Contractor Project No.: £276-04					
Tele/Fax: 408-782-8156 408-782-6308 (fax)	Enfos Project No.: G0C20-0014	Consultant/Contractor PM: Jay Johnson					
BP/AR PM Contact; Paul Supple		Tele/Fax: (530) 676-6000 / (530) 676-6005					
Address: 2010 Crow Canyon Place, Suite 150		Report Type & QC Level: Level 1 with EDF					
San Ramon, CA		E-mail EDD To: <u>cjewitt@stratusinc.net</u>					
Tele/Fax: 925-275-3506		Invoice to: Atlantic Richfield Co.					
Lab Bottle Order No: Matrix	rix Preservative Reque	ested Analysis					
Item Date Description Time Date Avir Water/Liquid	Air And Air And And Andread And Andread Andr	Sample Point Lat/Long and Comments					
1 MW-1 1145 7/6/07 X							
2 MW-2 17.15 X	6 x x x x x						
3 MW-3 /1/9 X	6 x x x x						
4 MW-4 //30 X	6 x x x x x						
5 MW-5 /200 X							
6 MW-6 1320 X	C X X X X						
7 MW-7 /355 X		x					
8 MW-8 1305 X	6 x x x x x						
9 RW-1 /// X	6 x x x x x						
10 WGR-3 //350 X	6 X X X X X						
Sampler's Name: PM Gion vales	Relinquished By / Affiliation Date Time	Accepted By / Affiliation Date Time					
Sampler's Company: Doules Gov.		MANUE / 44-SAR 2/407 1655					
Shipment Date:	749/61 1635	1 TA-SAC 220 1633					
Shipment Method:							
Shipment Tracking No:							
Special Instructions: Please cc results to: rmilie	ller@broadbentinc.com						
Custody Seals In Place: Yes / No Temp Blank: Yes	Yes / No Cooler Temp on Receipt: "F/C Trip Blank:	Yes / No MS/MSD Sample Submitted: Yes / No					



Chain of Custody Record

Project Name: BP 276
BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > CA > Alameda>276

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

On-site	Time:	1045	Temp: COO	
Off-site	Time:	1420	Temp: ما	
Sky Cond	litions:	allan		
Meteorol	ogical E	vents: NOn	l .	
Wind Sne	ed.	D	Direction: 1/o	

Lab Name: TestAmerica	_	BP/AR Facility No.	:	2	76									Con	sulta	nt/C	ontra	ctor:		Strat	us En	virom	mental	, Inc.		
Address: 885 Járvis Drive	╨	BP/AR Facility Ad	dress	:	106	00 M	acA	rthu	r Bh	d., (Oakl	and		Add	ress:		333	30 C	ame	ron Pa	ark D	rive,	Suite	550		
Morgan Hill, CA 95937		Site Lat/Long:																		ırk, C						
Lab PM: Lisa Race	L	California Global II) #:	T()6001	10831	12							Consultant/Contractor Project No.: E276-04												
Tele/Fax: 408-782-8156 408-782-6308 (fax)		Enfos Project No.:		G00	C20-(0014								Consultant/Contractor PM: Jay Johnson												
BP/AR PM Contact; Paul Supple		Provision or RCOP	(cir	cie o	ne)		Prov	risior	n					Tele/Fax: (530) 676-6000 / (530) 676-6005												
Address: 2010 Crow Canyon Place, Suite 150	L	Phase/WBS:		04-1	Мопі	toring	3							Rep	ort T	уре а	& Q(C Lev	vel:			Leve	I 1 wi	h EDF		
San Ramon, CA	L	Sub Phase/Task:		03-2	Analy	tical								E-m	ail E	DD '	To:	cje	witt(@stra	itusi	nc.ne	<u>t</u>			
Tele/Fax: 925-275-3506							Invo	ice to	o: A	tlant	ic Ri	chfie	ld Co.						·							
Lab Bottle Order No: Matrix	X.		Preservative Requ						iestec	l An	alys	5														
Item Date Description Date Soul/Solid Water/Liquid		Laboratory No.	No. of Containers	Unpreserved	H ₂ SO ₄	EINO ₃	HCI	Methanol		GRO/BTEX/Oxy*	EDB	1,2 DCA	Ethanol by 8260	PCE by 8010							Sam		oint L Comme	at/Long ents	g and	
1 TB 276 020607 500 2/6/07 X			2				х			X	x	х	x					İ		hold						
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Special Instructions: Please cc results to: rmille	er(a)t	roadbentinc.com			******				<u></u>		<u></u>		البيب									-			45	
Custody Seals In Place: Yes / No Temp Blank: Yes			emr	on on	Rece	eipt:		°F	7/C		Tı	ip B	lank	: Yes	1 / N	O		MS	S/MS	D Sa	mple	Subr	nittec	: Yes/	No	



26 February, 2007

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

RE: ARCO #0276, Oakland, CA

Work Order: MQB0409

Enclosed are the results of analyses for samples received by the laboratory on 02/13/07 07:55. 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.





Project: ARCO #0276, Oakland, CA

Project Number: G0C20-0014 Project Manager: Jay Johnson MQB0409 Reported: 02/26/07 14:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MQB0409-01	Water	02/06/07 11:45	02/13/07 07:55
MW-2	MQB0409-02	Water	02/06/07 12:15	02/13/07 07:55
MW-3	MQB0409-03	Water	02/06/07 11:18	02/13/07 07:55
MW-4	MQB0409-04	Water	02/06/07 11:30	02/13/07 07:55
MW-5	MQB0409-05	Water	02/06/07 12:00	02/13/07 07:55
MW-6	MQB0409-06	Water	02/06/07 13:20	02/13/07 07:55
MW-7	MQB0409-07	Water	02/06/07 13:55	02/13/07 07:55
MW-8	MQB0409-08	Water	02/06/07 13:05	02/13/07 07:55
RW-1	MQB0409-09	Water	02/06/07 11:10	02/13/07 07:55
WGR-3	MQB0409-10	Water	02/06/07 13:50	02/13/07 07:55
TB276020607	MQB0409-11	Water	02/06/07 05:00	02/13/07 07:55

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 intact custody seals.





Project: ARCO #0276, Oakland, CA

Project Number: G0C20-0014 Project Manager: Jay Johnson MQB0409 Reported: 02/26/07 14:05

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

Analyte	Result	Reporting Limit	Units	Dilutien	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MQB0409-01) Water Sa	mpled: 02/06/07 11:45	Received:	02/13/07	07:55	,				
Gasoline Range Organics (C4-C12)	ND	50	ug/l	t	7B16050	02/16/07	02/17/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		104 %	60-	145	н		rr	"	
MW-2 (MQB0409-02) Water Sa	mpled: 02/06/07 12:15	Received:	02/13/07	07:55					
Gasoline Range Organics (C4-C12	2) 110	50	ug/i	1	7B16050	02/16/07	02/17/07	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		95 %	60-	145	u	"	и	n	
MW-3 (MQB0409-03) Water Sa	mpled: 02/06/07 11:18	Received:	02/13/07	07:55					
Gasoline Range Organics (C4-C12	50	50	ug/l	1	7B16050	02/16/07	02/17/07	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		114%	60-1	145	"	tr	11	I#	
MW-4 (MQB0409-04) Water San	mpled: 02/06/07 11:30	Received:	02/13/07	07:55					
Gasoline Range Organics (C4-C12	55	50	ug/l	1	7B16050	02/16/07	02/17/07	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		110%	60-	145	n	n	н	н	
MW-5 (MQB0409-05) Water San	mpled: 02/06/07 12:00	Received:	02/13/07	07:55					
Gasoline Range Organics (C4-C12	2) 150	100	ug/l	2	7B16050	02/16/07	02/17/07	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		116%	60-1	145	11	ij	n	n	
MW-6 (MQB0409-06) Water Sa	mpled: 02/06/07 13:20	Received:	02/13/07	07:55					
Gasoline Range Organics (C4-C12	510	50	ug/i	1	7B16050	02/16/07	02/17/07	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		119%	60-1	145	"	n	11	n	
MW-7 (MQB0409-07) Water Sa	mpled: 02/06/07 13:55	Received:	02/13/07	07:55					
Gasoline Range Organics (C4-C12	530	50	ug/l	1	7B16050	02/16/07	02/17/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		116%	60-1	145	11	11	rr	n	





Project: ARCO #0276, Oakland, CA

Project Number: G0C20-0014 Project Manager: Jay Johnson MQB0409 Reported: 02/26/07 14:05

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (MQB0409-08) Water Sampled: 0	2/06/07 13:05	Received:	02/13/07	07:55				, , , , , , , , , , , , , , , , , , , ,	
Gasoline Range Organics (C4-C12)	66	50	ug/l	1	7B16050	02/16/07	02/17/07	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		113%	60-	145	"	n	n	"	
RW-1 (MQB0409-09) Water Sampled: 02	2/06/07 11:10	Received:	02/13/07	07:55					
Gasoline Range Organics (C4-C12)	ND	50	ug/l	ı	7B16050	02/16/07	02/17/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		117%	60-	145	11	rı	n	1f	
WGR-3 (MQB0409-10) Water Sampled:	02/06/07 13:50	Received	l: 02/13/0	7 07:55					
Gasoline Range Organics (C4-C12)	ND	50	ug/l	ı	7B16050	02/16/07	02/17/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		117%	60-	145	"	Jf	r)	n	





Project: ARCO #0276, Oakland, CA

Project Number: G0C20-0014 Project Manager: Jay Johnson MQB0409 Reported: 02/26/07 14:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-1 (MQB0409-01) Water	Sampled: 02/06/07 11:45	Received:	02/13/07 (07:55					
tert-Amyl methyl ether	ND	0.50	ug/l	1	7B16050	02/16/07	02/17/07	EPA 8260B	
Benzene	ND	0.50	н	0	H	Ħ	И	II .	
tert-Butyl alcohol	ND	20	И	0	н	н	н	"	
Di-isopropyl ether	ND	0.50	И	17	II	o o	H	н	
1,2-Dibromoethane (EDB)	ND	0.50	n	17	п	o o	ti	B	
1,2-Dichloroethane	ND	0.50	**	IP	U	U	ti	19	
Ethanol	ND	300	11	It	11	0	11	17	
Ethyl tert-butyl ether	ND	0.50	11	п	19	0	u	lt .	
Ethylbenzene	ND	0.50	U	п	19	0	U	lt .	
Methyl tert-butyl ether	ND	0.50	u	н	H	H	u	It .	
Toluene	ND	0.50	u	п	H	19	U	I+	
Xylenes (total)	ND	0.50	H	н	Iŧ	n	U	It	
Surrogate: Dibromofluoromethan	е	102 %	75-13	30	"	"	IJ	"	
Surrogate: 1,2-Dichloroethane-d-	1	104 %	60-14	<i>45</i>	n	n	n	n	
Surrogate: Toluene-d8		93 %	70-13	30	"	"	u	n	
Surrogate: 4-Bromofluorobenzen	2	92 %	60-12	20	n	"	н	"	
MW-2 (MQB0409-02) Water	Sampled: 02/06/07 12:15	Received:	02/13/07 0	7:55					
tert-Amyl methyl ether	9.2	0.50	ug/l	ı	7B16050	02/16/07	02/17/07	EPA 8260B	
Benzene	ND	0.50	и	0	U	п	и	0	
tert-Butyl alcohol	ND	20	и	0	O O	п	п	U	
Di-isopropyl ether	ND	0.50	н	i)	II .	a	11	0	
1,2-Dibromoethane (EDB)	ND	0.50	н	If	D.	u	†I	ŋ	
1,2-Dichloroethane	ND	0.50	n	н	11	0	0	P	
Ethanol	ND	300	Ħ	Ü	It	17	Ø	н	
Ethyl tert-butyl ether	ND	0.50	а	*1	J†	**	U	п	
Ethylbenzene	ND	0.50	н	*1	It	17	0	н	
Methyl tert-butyl ether	39	0.50	H	(I	н	H	tf.	R	
Toluene	ND	0.50	H	0	Ħ	It	n	п	
Xylenes (total)	ND	0.50	I+	ıı	Ħ	IF	If	н	
Surrogate: Dibromofluoromethan	е	103 %	<i>75-1</i> 3	30	"	"	"	n	
Surrogate: 1,2-Dichloroethane-d4	!	95 %	60-14	<i>15</i>	ır	n	#	"	
Surrogate: Toluene-d8		98 %	70-13	30	ır	"	"	"	
Surrogate: 4-Bromofluorobenzene	2	91%	60-12	20	11	"	"	"	





Project: ARCO #0276, Oakland, CA

Project Number: G0C20-0014 Project Manager: Jay Johnson MQB0409 Reported: 02/26/07 14:05

MW-3 (MQB0409-03) Water Sampled: 02/06/07 11:18 Received: 02/13/07 07:55 tert-Amyl methyl ether ND 0.50 ug/l 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 " "	7B16050	02/16/07	02/17/07	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 " "	ti ti ti	11	†1		
tert-Butyl alcohol ND 20 " " Di-isopropyl ether ND 0.50 " " 1,2-Dibromoethane (EDB) ND 0.50 " " 1,2-Dichloroethane ND 0.50 " "	0 D	u		н	
Di-isopropyl ether ND 0.50 " " 1,2-Dibromoethane (EDB) ND 0.50 " " 1,2-Dichloroethane ND 0.50 " "	D U				
1,2-Dibromoethane (EDB) ND 0.50 " " 1,2-Dichloroethane ND 0.50 " "	U		**	и	
1,2-Dichloroethane ND 0.50 "			#1	И	
· ·		ш	*1	14	
Ethanol ND 200 " "	U	u	ļi	H	
	n	ш	#1)ŧ	
Ethyl tert-butyl ether ND 0.50 " "	I†	II .	*1	н	
Ethylbenzene ND 0.50 " "	I†	II .	†1	н	
Methyl tert-butyl ether ND 0.50 " "	и	H	II.	**	
Toluene ND 0.50 " "	И	H	0	Ħ	
Xylenes (total) ND 0.50 " "	И	I†	0	ti .	
Surrogate: Dibromofluoromethane 104 % 75-130	"	"	n	n,	
Surrogate: 1,2-Dichloroethane-d4 114 % 60-145	rr	n	и	n	
Surrogate: Toluene-d8 95 % 70-130	11	rr	"	n .	
Surrogate: 4-Bromofluorobenzene 91 % 60-120	1f	II.	"	n	
MW-4 (MQB0409-04) Water Sampled: 02/06/07 11:30 Received: 02/13/07 07:55					
tert-Amyl methyl ether ND 0.50 ug/i I	7B16050	02/16/07	02/17/07	EPA 8260B	
Benzene ND 0.50 " "	u	II	II	U	
tert-Butyl alcohol ND 20 " "	II .	II	н	n	
Di-isopropyl ether ND 0.50 " "	II .	п	*1	0	
1,2-Dibromoethane (EDB) ND 0.50 " "	II .	п	И	u	
1,2-Dichloroethane ND 0.50 " "	U	0	н	0	
Ethanol ND 300 " "	I)	0	и	0	
Ethyl tert-butyl ether ND 0.50 " "	U	0	н	U	
Ethylbenzene ND 0.50 " "	"	U	11	U	
Methyl tert-butyl ether ND 0.50 " "	11	0	н	0	
Toluene ND 0.50 " "	tt	U	н	u	
Xylenes (total) ND 0.50 " "	H	IJ	П	u	
Surrogate: Dibromofluoromethane 105 % 75-130	"	U	11	,,	
Surrogate: 1,2-Dichloroethane-d4 110 % 60-145	n	n	ø	n	
Surrogate: Toluene-d8 93 % 70-130	"	n	11	u	
Surrogate: 4-Bromofluorobenzene 91 % 60-120	n		п	,,	





Project: ARCO #0276, Oakland, CA

Project Number: G0C20-0014 Project Manager: Jay Johnson MQB0409 Reported: 02/26/07 14:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-5 (MQB0409-05) Water	Sampled: 02/06/07 12:00	Received:	02/13/07	7:55					
tert-Amyl methyl ether	13	1.0	ug/l	2	7B16050	02/16/07	02/17/07	EPA 8260B	
Benzene	ND	1.0	ų.	**	н	Ħ	II	н	
tert-Butyl alcohol	ND	40	ш	**)I	*1	II .	I+	
Di-isopropyl ether	ND	1.0	17	11	**	"	11	н	
1,2-Dibromoethane (EDB)	ND	1.0	17	tt	0	u	11	н	
1,2-Dichloroethane	4.6	1.0	J†	"	U	Ü	ŧI	н	
Ethanol	ND	600	И	II	H	U	ŧ1	н	
Ethyl tert-butyl ether	ND	1.0	11	ľ	H	н	(1	н	
Ethylbenzene	ND	1.0	+1	"	**	19	II	11	
Methyl tert-butyl ether	120	1.0	*1	И	17	If	0	ø	
Toluene	ND	1.0	Ħ	n .	It	It	U	ŧı	
Xylenes (total)	ND	1.0	II	11	И	И	I†	U	
Surrogate: Dibromofluoromethan	е	104 %	75-1 3	30	TT .	п	"	n	
Surrogate: 1,2-Dichloroethane-d-	!	116%	60-14	15	IT	n	"	n	
Surrogate: Toluene-d8		93 %	70-13	30	11	Ir	"	п	
Surrogate: 4-Bromofluorobenzene	?	92 %	60-12	20	11	ır	"	n	
MW-6 (MQB0409-06) Water	Sampled: 02/06/07 13:20	Received:	02/13/07 0	7:55					
tert-Amyl methyl ether	ND	0.50	ug/l	ı	7B16050	02/16/07	02/17/07	EPA 8260B	
Benzene	ND	0.50	H	0	n	u	и	11	
tert-Butyl alcohol	ND	20	H	0	0	u	#	II .	
Di-isopropyl ether	ND	0.50	P	11	н	n	#	0	
1,2-Dibromoethane (EDB)	ND	0.50	H	ti-	tt	u	и	II .	
1,2-Dichloroethane	ND	0.50	R	ti	a	u	it	0	
Ethanol	ND	300	If	lt.	ū	u	II	ø	
Ethyl tert-butyl ether	ND	0.50	R	11	a	n n	**	#	
Ethylbenzene	ND	0.50	н	11	U		+1	11	
Methyl tert-butyl ether	0.80	0.50	le .	tt.	U	U	#1	14	
Toluene	ND	0.50	н	n	q	0	ti .	и	
Xylenes (total)	ND	0.50	41	И	u	U	u	ц	
Surrogate: Dibromofluoromethan	е	107 %	75-13	30	11	"	11	11	
Surrogate: 1,2-Dichloroethane-d-	1	119%	60-14	15	tt	"	n	If	
Surrogate: Toluene-d8		94%	70-13	80	u	'n	n	11	
Surrogate: 4-Bromofluorobenzene	?	93 %	60-12		"	"	"	II	
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Project: ARCO #0276, Oakland, CA

Project Number: G0C20-0014 Project Manager: Jay Johnson MQB0409 Reported: 02/26/07 14:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-7 (MQB0409-07) Water	Sampled: 02/06/07 13:55	Received:	02/13/07 0	7:55					
tert-Amyl methyl ether	2.2	0.50	ug/l	1	7B16050	02/16/07	02/17/07	EPA 8260B	
Benzene	ND	0.50	*1	0	ţI	f1	n	If	
tert-Butyl alcohol	ND	20	п	n	a a	II II	#	It	
Di-isopropyl ether	ND	0.50	0	14	0	0	H	н	
1,2-Dibromoethane (EDB)	ND	0.50	11	н	11	n	U	н	
1,2-Dichloroethane	ND	0.50	II.	μ	it.	19	U	и	
Ethanol	ND	300	n	11	R	14	17	И	
Ethyl tert-butyl ether	ND	0.50	14	**	И	11	19	И	
Ethylbenzene	ND	0.50	И	*1	It	11	11	н	
Methyl tert-butyl ether	8.4	0.50	IF	*1	н	1+	11	н	
Toluene	ND	0.50	И	n	н	It	16	и	
Xylenes (total)	ND	0.50	. н	п	Й	Jt	19	И	
Surrogate: Dibromofluoromethan	ne	106 %	75-13	<i>80</i>	"	"	"	ır	
Surrogate: 1,2-Dichloroethane-d-	4	116%	60-14	15	n	#	n	II .	
Surrogate: Toluene-d8		100 %	70-13	30	rr .	"	*	ii .	
Surrogate: 4-Bromofluorobenzen	2	107 %	60-12	20	11	"	**	11	
MW-8 (MQB0409-08) Water	Sampled: 02/06/07 13:05	Received:	02/13/07 0	7:55					
tert-Amyl methyl ether	4.8	0.50	ug/l	l	7B16050	02/16/07	02/17/07	EPA 8260B	
Benzene	ND	0.50	н	n n	н	+1	H	ii ii	
tert-Butyl alcohol	ND	20	Ħ	u	н	Ħ	И	ħ	
Di-isopropyl ether	ND	0.50	**	ŋ	n	**	Ħ	**	
1,2-Dibromoethane (EDB)	ND	0.50	ŧI	0	n	Ħ	11	U	
1,2-Dichloroethane	ND	0.50	41	0	0	IJ	n	U	
Ethanol	ND	300	O	n	0	U	Ħ	U	
Ethyl tert-butyl ether	ND	0.50	0	14	0	U	II	U	
Ethylbenzene	ND	0.50	0	10	U	U	п	n	
Methyl tert-butyl ether	60	0.50	1)	H	t†	U	II	D	
Toluene	ND	0.50	H	н	If	17	U	H [*]	
Xylenes (total)	ND	0.50	If	11	н	If .	U	Ц	
Surrogate: Dibromofluoromethan	e	103 %	75-13	80	"	"	**	"	
Surrogate: 1,2-Dichloroethane-d-	<i>‡</i>	113%	60-14	15	n	n	"	n	
Surrogate: Toluene-d8		94 %	70-13	80	n	n	"	rt	
Surrogate: 4-Bromofluorobenzen	2	92 %	60-12	20	"	**	"	"	
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Project: ARCO #0276, Oakland, CA

Project Number: G0C20-0014 Project Manager: Jay Johnson MQB0409 Reported: 02/26/07 14:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
RW-1 (MQB0409-09) Water S	Sampled: 02/06/07 11:10	Received:	02/13/07 (07:55					
tert-Amyl methyl ether	ND	0.50	ug/l	I	7B16050	02/16/07	02/17/07	EPA 8260B	
Benzene	ND	0.50	11	0	14	#1	Ħ	P	
tert-Butyl alcohol	ND	20	#1	IJ	14	Ħ	Ħ	P .	
Di-isopropyl ether	ND	0.50	11	11	И	Ħ	11		
1,2-Dibromoethane (EDB)	ND	0.50	**	H	H	ŧ	Ħ	H	
1,2-Dichloroethane	ND	0.50	Ħ	14	H S	ŧı	11	P	
Ethanol	ND	300	п	IP.	R	*1	11	H	
Ethyl tert-butyl ether	ND	0.50	п	H	И	41	11	H .	
Ethylbenzene	ND	0.50	**	14	И	Ħ	11	D	
Methyl tert-butyl ether	ND	0.50	U	II	И	+1	*1	H	
Toluene	ND	0.50	0	16	И	11	11	n	
Xylenes (total)	ND	0.50	9	И	Д	Ħ	h	U	
Surrogate: Dibromofluoromethan	е	108 %	75-1	30	"	"	"	n	
Surrogate: 1,2-Dichloroethane-d4	1	117%	60-1	45	Ħ	n	tt.	n	
Surrogate: Toluene-d8		95 %	70-1	30	"	u .	If	"	
Surrogate: 4-Bromofluorobenzene	?	92 %	60-1	20	n	n	H	n	
WGR-3 (MQB0409-10) Water	Sampled: 02/06/07 13:5	0 Received	1: 02/13/07	7 07:55					
tert-Amyl methyl ether	0.58	0.50	ug/l	1	7B16050	02/16/07	02/17/07	EPA 8260B	
Benzene	ND	0.50	t†	*1	n	0	U	Ħ	
tert-Butyl alcohol	ND	20	И	†I	0	0	rt .	Ħ	
Di-isopropyl ether	ND	0.50	н	U	U	17	II.	a	
1,2-Dibromoethane (EDB)	ND	0.50	и	0	0	Ħ	11	u	
1,2-Dichloroethane	ND	0.50	И	U	U	I+	I I	(I	
Ethanol	ND	300	н	Ħ	U	If	10	0	
Ethyl tert-butyl ether	ND	0.50	п	11	n	H	H	U	
Ethylbenzene	ND	0.50	п	19	n	H	H	O .	
Methyl tert-butyl ether	4.4	0.50	11	1+	If	If	H	U	
Toluene	ND	0.50	Ħ	It	lt	н	P	U	
Xylenes (total)	ND	0.50	†1	lŧ .	H	Я	IF	u	
Surrogate: Dibromofluoromethane	e	107 %	75-1	30	"	"	tt.	n	
Surrogate: 1,2-Dichloroethane-d4	!	117%	60-1	45	"	u	"	n	
Surrogate: Toluene-d8		94 %	70-1	30	"	"	"	n	
Surrogate: 4-Bromofluorobenzene	,	91%	60-1	20	**	"	"	n	





Project: ARCO #0276, Oakland, CA

Project Number: G0C20-0014 Project Manager: Jay Johnson MQB0409 Reported: 02/26/07 14:05

EPA 8010 list Volatile Organic Compounds by EPA 8260B TestAmerica - Morgan Hill, CA

		Reporting	- 1,1016	,	, 				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (MQB0409-07) Water S	ampled: 02/06/07 13:55	Received:	02/13/07 0	7:55					
Tetrachloroethene	ND	0.50	ug/l	. 1	7B16050	02/16/07	02/17/07	EPA 8260B	
Surrogate: Dibromofluoromethane	!	106 %	75-13	0	"	n	tr .	11	
Surrogate: 1,2-Dichloroethane-d4		116%	60-14	5	n	n	tt	If	
Surrogate: Toluene-d8		100 %	70-13	0	rr .	n	#	II	
Surrogate: 4-Bromofluorobenzene		107 %	60-12	0	n	"	11	11	
MW-8 (MQB0409-08) Water S	ampled: 02/06/07 13:05	Received:	02/13/07 0	7:55					
Tetrachloroethene	0.72	0.50	ug/l	1	7B16050	02/16/07	02/17/07	EPA 8260B	
Surrogate: Dibromofluoromethane	!	103 %	75-13	0	rr	n	11	п	
Surrogate: 1,2-Dichloroethane-d4		113 %	60-14	5	"	**	**	"	
Surrogate: Toluene-d8		94 %	70-13	0	ir .	11	н	ır	
Surrogate: 4-Bromofluorobenzene		92 %	60-12	0	n	<i>"</i>	11	11	
RW-1 (MQB0409-09) Water Sa	ampled: 02/06/07 11:10	Received:	02/13/07 0	7:55					
Tetrachloroethene	15	0.50	ug/l	l	7B16050	02/16/07	02/17/07	EPA 8260B	
Surrogate: Dibromofluoromethane		108 %	75-13	0	ır	и	If	п	
Surrogate: 1,2-Dichloroethane-d4		117%	60-14	5	"	,,	11	#	
Surrogate: Toluene-d8		95 %	70-13	0	"	"	#	H	
Surrogate: 4-Bromofluorobenzene		92 %	60-12	0	11	rt	H	11	
WGR-3 (MQB0409-10) Water	Sampled: 02/06/07 13:50	Received	l: 02/13/07	07:55					
Tetrachloroethene	ND	0.50	ug/l]	7B16050	02/16/07	02/17/07	EPA 8260B	
Surrogate: Dibromofluoromethane		107%	75-13	0	n	11	ti	et	
Surrogate: 1,2-Dichloroethane-d4		117%	60-14	5	11	п	v	n	
Surrogate: Toluene-d8		94 %	70-13	0	"	n	"	"	
Surrogate: 4-Bromofluorobenzene		91%	60-12	0	n	ø	H	#	





Project: ARCO #0276, Oakland, CA

Project Number: G0C20-0014 Project Manager: Jay Johnson MQB0409 Reported: 02/26/07 14:05

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 7B16050 - EPA 5030B P/T / LUFT	GCMS	31 11111								
Blank (7B16050-BLK1)				Prepared:	02/16/07	Analyzed	1: 02/17/07			
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.68		ıı	2.50		107	60-145	***************************************		
Laboratory Control Sample (7B16050-BS2)				Prepared:	02/16/07	Analyzed	I: 02/17/07			
Gasoline Range Organics (C4-C12)	498	50	ug/l	500	the transfer of the transfer o	100	75-140			
Surrogate: 1,2-Dichloroethane-d4	2.80		"	2.50		112	60-145			,
Laboratory Control Sample Dup (7B16050-B	SD2)			Prepared:	02/16/07	Analyzed	1: 02/17/07			
Gasoline Range Organics (C4-C12)	507	50	ug/1	500		101	75-140	2	20	
Surrogate: 1,2-Dichloroethane-d4	2,70		f)	2,50		108	60-145			





Project: ARCO #0276, Oakland, CA

Project Number: G0C20-0014 Project Manager: Jay Johnson MQB0409 Reported: 02/26/07 14:05

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

		Reporting		Spike	Source		%REC		RPD	l
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (7B16050-BLK1)				Prepared: 02/1	6/07 Analyzed	1: 02/17/07	
tert-Amyl methyl ether	ND	0.50	ug/l				
Benzene	ND	0.50	17				
tert-Butyl alcohol	ND	20	l†				
Di-isopropyl ether	ND	0.50	н				
1,2-Dibromoethane (EDB)	ND	0.50	н				
1,2-Dichloroethane	ND	0.50	н				
Ethanol	ND	300	и				
Ethyl tert-butyl ether	ND	0.50	и				
Ethylbenzene	ND	0.50	"				
Methyl tert-butyl ether	ND	0.50	11				
Toluene	ND	0.50					
Xylenes (total)	ND	0.50	n.				
Surrogate: Dibromofluoromethane	2.48		11	2.50	99	75-130	
Surrogate: 1,2-Dichloroethane-d4	2.68		11	2.50	107	60-145	
Surrogate: Toluene-d8	2.36		17	2.50	94	70-130	
Surrogate: 4-Bromofluorobenzene	2.30		"	2.50	92	60-120	
Laboratory Control Sample (7B16050-BS1)			Prepared: 02/1	6/07 Analyzed	1: 02/17/07	
tert-Amyl methyl ether	11.0	0.50	ug/l	10.0	110	65-135	***********
Benzene	10.9	0.50	41	0.01	109	70-125	
ert-Butyl alcohol	189	20	#1	200	94	60-135	
Di-isopropyl ether	9.66	0.50	*1	0.01	97	70-130	
1,2-Dibromoethane (EDB)	11.7	0.50	n	0.01	117	80-125	
1,2-Dichloroethane	11.8	0.50	n	0.01	118	75-125	
Ethanol	182	300	e	200	91	15-150	
Ethyl tert-butyl ether	10.2	0.50	n	10.0	102	65-130	
Ethylbenzene	10.7	0.50	O	10.0	107	70-130	
Methyl tert-butyl ether	10.4	0.50	17	10.0	104	50-140	
Toluene	10.1	0.50	Iţ	10.0	101	70-120	
Xylenes (total)	30.3	0.50	Ħ	30.0	101	80-125	
Surrogate: Dibromofluoromethane	2.61		n	2.50	104	75-130	
Surrogate: 1,2-Dichloroethane-d4	2.71		"	2.50	108	60-145	
Surrogate: Toluene-d8	2.49		"	2.50	100	70-130	
Surrogate: 4-Bromofluorobenzene	2.51		#	2.50	100	60-120	



RPD

Limit

Notes



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

Analyte

Project: ARCO #0276, Oakland, CA

Spike

Level

Source

Result

%REC

MQB0409 Reported: 02/26/07 14:05

%REC

Limits

RPD

Project Number: G0C20-0014 Project Manager: Jay Johnson

Reporting

Result

2.65

2.78

2.46

2.48

Limit

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

Units

Matrix Spike (7B16050-MS1)	Source: MQ	B0409-01		Prepared:	02/16/07	Analyze	d: 02/17/07			
tert-Amyl methyl ether	11,2	0.50	ug/i	10,0	ND	112	65-135			
Benzene	11.4	0.50	n n	10.0	ND	114	70-125			
tert-Butyl alcohol	201	20	tj	200	ND	100	60-135			
Di-isopropyl ether	10.0	0.50	ø	10.0	ND	100	70-130			
1,2-Dibromoethane (EDB)	12.0	0.50	n	10.0	ND	120	80-125			
1,2-Dichloroethane	12,2	0.50	41	10.0	ND	122	75-125			
Ethanol	179	300	ŧı	200	ND	90	15-150			
Ethyl tert-butyl ether	10.3	0.50	0	10.0	ND	103	65-130			
Ethylbenzene	11.2	0.50	Ħ	0.01	ND	112	70-130			
Methyl tert-butyl ether	10.4	0.50	ŧı	0.01	ND	104	50-140			
Toluene	10.6	0.50	łı	0.01	ND	106	70-120			
Xylenes (total)	31.0	0.50	**	30.0	ND	103	80-125			
Surrogate: Dibromofluoromethane	2.57		"	2.50		103	75-130			***************************************
Surrogate: 1,2-Dichloroethane-d4	2.58		n	2.50		103	60-145			
Surrogate: Toluene-d8	2.48		"	2.50		99	70-130			
Surrogate: 4-Bromofluorobenzene	2.47		ıı	2.50		99	60-120			
Matrix Spike Dup (7B16050-MSD1)	Source: MQ	B0409-01		Prepared:	02/16/07	Analyze	1: 02/17/07			
tert-Amyl methyl ether	10.8	0.50	ug/l	10.0	ND	108	65-135	4	25	
Benzene	10.7	0.50	0	10.0	ND	107	70-125	6	15	
tert-Butyl alcohol	189	20	tt	200	ND	94	60-135	6	35	
Di-isopropyl ether	9.59	0.50	11	10.0	ND	96	70-130	4	35	
1,2-Dibromoethane (EDB)	11,8	0.50	н	10.0	ND	118	80-125	2	15	
1,2-Dichloroethane	11.6	0.50	0	10.0	ND	116	75-125	5	10	
Ethanol	160	300	н	200	ND	80	15-150	11	35	
Ethyl tert-butyl ether	10.0	0.50	"	10.0	ND	100	65-130	3	35	
Ethylbenzene	10.4	0.50	"	10.0	ND	104	70-130	7	15	
Methyl tert-butyl ether	10.3	0.50	tį.	10.0	ND	103	50-140	1	25	
Toluene	10.0	0.50	ti	10.0	ND	100	70-120	6	15	

Surrogate: Dibromofluoromethane

Surrogate: 1,2-Dichloroethane-d4

Surrogate: 4-Bromofluorobenzene

Surrogate: Toluene-d8

75-130

60-145 70-130

60-120

106

111

98

99

2.50

2,50

2,50

2.50





Project: ARCO #0276, Oakland, CA

Spike

Source

Project Number: G0C20-0014

MQB0409 Reported:

RPD

Project Manager: Jay Johnson 02/26/07 14:05

%REC

EPA 8010 list Volatile Organic Compounds by EPA 8260B - Quality Control TestAmerica - Morgan Hill, CA

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7B16050 - EPA 5030B P/T / E	PA 8260B									
Blank (7B16050-BLK1)				Prepared:	02/16/07	Analyze	d: 02/17/07			
Tetrachloroethene	ND	0.50	ug/l	-				***************************************		
Surrogate: Dibromofluoromethane	2,48		"	2.50		99	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.68		"	2.50		107	60-145			
Surrogate: Toluene-d8	2,36		"	2.50		94	70-130			
Surrogate: 4-Bromofluorobenzene	2.30		"	2.50		92	60-120			
Laboratory Control Sample (7B16050-B	SS1)			Prepared:	02/16/07	Analyzeo	d: 02/17/07			
Tetrachloroethene	9.54	0.50	ug/l	10.0		95	75-130		***************************************	
Surrogate: Dibromofluoromethane	2.61		"	2.50		104	75-130	***************************************	,	
Surrogate: 1,2-Dichloroethane-d4	2.71		It	2.50		108	60-145			
Surrogate: Toluene-d8	2.49			2.50		100	70-130			
Surrogate: 4-Bromofluorobenzene	2,51		n	2.50		100	60-120			
Matrix Spike (7B16050-MS1)	Source: MC	QB0409-01		Prepared:	02/16/07	Analyzed	1: 02/17/07			
Tetrachloroethene	15.4	0.50	ug/l	0.01	5.0	104	75-130			
Surrogate: Dibromofluoromethane	2.57		"	2.50		103	75-130	*···		
Surrogate: 1,2-Dichloroethane-d4	2.58		"	2.50		103	60-145			
Surrogate: Toluene-d8	2.48		"	2.50		99	70-130			
Surrogate: 4-Bromofluorobenzene	2.47		"	2.50		99	60-120			
Matrix Spike Dup (7B16050-MSD1)	Source: MQ	QB0409-01		Prepared:	02/16/07	Analyzed	1: 02/17/07			
Tetrachloroethene	14.2	0.50	ug/l	10.0	5.0	92	75-130	8	20	
Surrogate: Dibromofluoromethane	2.65		rt	2.50		106	75-130	***************************************	***************************************	
Surrogate: 1,2-Dichloroethane-d4	2.78		"	2.50		111	60-145			
Surrogate: Toluene-d8	2.46		"	2.50		98	70-130			
Surrogate: 4-Bromofluorobenzene	2,48		"	2.50		99	60-120			





Project: ARCO #0276, Oakland, CA

MQB0409 Project Number: G0C20-0014 Reported: Project Manager: Jay Johnson 02/26/07 14:05

Notes and Definitions

PVHydrocarbon result partly due to individ. peak(s) in quant. range

Analyte DETECTED DET

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

Temp:

Chain of Custody Record

Project Name: BP 276 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > CA > Alameda>276 State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

Off-site Time: 1420 Temp: Cod Sky Conditions:

Meteorological Events: None

On-site Time:

Wind Speed: Direction: 10

1045

A BP affiliated company

							<u> </u>																							
	Name: TestAmerica				···	-	BP/AR Facility No.		27											sulta	at/Co	_	_					ental, In		
	ess: 885 Jarvis Drive		· · • · · · · · · · · · · · · · · · · ·			_	BP/AR Facility Ad	dress	<u>:</u>	1060	0 M:	acAr	thur]	Blvd	., 0	<u>akia</u>	nd		Add	ress:					on Par	_		uite 55	50	
	gan Hill, CA 95937					-	Site Lat/Long:												<u></u>						rk, CA					
	PM: Lisa Race		···········			╨	California Global II) #:			08312	2													ct No.:		276-0			
Tele/		8 (fax)				╬	Enfos Project No.:		GOC										Con	sultar	ıt/Co						ay Joh			
	AR PM Contact; Paul Supple					- -	Provision or RCOP	(cir					ision							Fax:					000 / (:	530)	676-6	005		
Addr	ess: 2010 Crow Canyon Place, Suit	te 150	···			4_	Phase/WBS:		04-N											ort T								with E	EDF	
	San Ramon, CA					-	Sub Phase/Task:		03-A														*****		2)strati	usino	<u> .net</u>			
	Fax: 925-275-3506			7		<u> </u>	Cost Element:	_	01-C														c Ri	chfiel	d Co.					
Lab.	Bottle Order No:	11	ic .	∦_	Matri	ix I			 	Pi	reser	vati\	e	_ -	- 1]	Requ	estec	An	alysi	9								
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid Air	7	Laboratory No.	No. of Containers	Unpreserved	H ₂ SO ₄	HNO3	нсі	Methanol		GRO/BTEX/Oxy*	вдв	1,2 DCA	Ethanol by 8260	PCE by 8010						S	Samp		nt Lat/I mment	_	and
1	MW-1	1145	2/6/07		x		01	12			T	х			ζ	\mathbf{x}	X	Х												
2	MW-2	12.15	,		x		02	6				х		— -		х	х						<u> </u>						*****	
3	MW-3	1118		ją.	x		03	6				х				х	х													
4	MW-4	/130			х		04	6]:	x		7	ζ .	х	X	Х												
5	MW-5	1200			х		20	6]:	х		7	ζ .	х	Х	Х						П						
6	MW-6	1320			x		06	6]:	Х			ζ :		X	X								•			-	*****
7_	MW-7	/355			х		07	6				х			ζ :	x	X	X	x											
8	MW-8	1305			X		90	6		_		X		7	ζ :	X	X	X	X											
9	RW-1	1110			x		09~	6				x			۲ :	х	X	X	X.								•			
10	WGR-3	1350			x		10	6			. :	x			<u>. </u>	x	X	x	\mathbf{x}			•								
Sam	pler's Name: PM1	Gion	rale	5			Reling	iishe	I By /	Affil	iatiou				Da	te	Ti	ne			نسده	Accep	ited 1	By/A	ffjliatio	Ci		I	Onte	Time
Sam		oulo					ang Dan	יעגא						7	191	61	16:	55	4	10	4	7	2	5 /	5A.		=		de	
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	ment Tracking No:																		1.											
, ci	al Instructions:	Please	cc resul	ts to	: rmill	er@l	broadbentinc.com																							
	dody Seals In Place: (Yes / N	vo	Temp	Bla	nk: (Y	es)/N	lo Cooler]	emp	on I	Rece	ipt:	ي	°F(0	<u>)</u>	Ì.	Tr	ip B	lank	: Ye)/N	0	Ĺ	MS	/MS	D Sam	ple S	Submi	tted: 1	[] []	Vo

Atlantic Richfield Company A BP affiliated company

Chain of Custody Record

Project Name:

BP 276

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > CA > Alameda>276

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

On-site Time:	1045	Temp: COO
Off-site Time:	1420	Temp: Cool
Sky Conditions:	Mean	***
Meteorological E	vents: None	
Wind Speed:	- D	Direction: A

Lao Mane: TestAmenca	BP/AR Facility No		276								Consu	ltant	Cont	tracto)T:	Stratu	ıs Envi	ronmer	ıtal, Inc.		
Address: 885 Jarvis Drive	BP/AR Facility Ad	ddress:	10	1600 N	1acAr	thur Bl	vđ.,	Oakl	and		Addre	ss:	3	330	Came	eron Pa					
Morgan Hill, CA 95937	Site Lat/Long:												C	ame	ron P	Park, CA	A 9568	32			
Lab PM: Lisa Race	California Global I			01083							Consu	l(ant/	Cont	racto	ır Proj	ect No.:	E	276-04	1		
Tele/Fax: 408-782-8156 408-782-6308 (fax)	Enfos Project No.:		G0C2								Consu	ltant/	'Cont	racto	r PM:		J	ay Johr	ıson		
BP/AR PM Contact: Paul Supple	Provision or RCOI	P (circ	le one)		Prov	sion					Tele/F	ax:	(:	530)	676-0	6000 / ((530) (576-60	05		
Address: 2010 Crow Canyon Place, Suite 150	Phase/WBS;	(04-Mo	nitorin	g						Repor	t Тур	e & (QC L	.evel:		L	evel 1	with EDI	F	
San Ramon, CA	Sub Phase/Task:	_	03-Anı													t@stra	tusinc	:net			
Tele/Fax: 925-275-3506	Cost Element:	(01-Cor											ntic I	Richfi/	eld Co.					
Lab Bottle Order No: Matrix	<u> </u>			Prese	rvativ	e	╙		. 1	Zeqı	ested.	Anal	ysis								
Time Date Date Date No. No.	Laboratory No.	No. of Containers	Unpreserved H.SO.	HNO ₃	HCI	Methanol	GRO/BTEX/Oxy*	EDB	1,2 DCA	Ethanol by 8260	PCE by 8010						Sampl		t Lat/Loi iments	ng ar	nd
1 TB 276 020607 SDD 2/6/07 X	11	121		T	\mathbf{x}		х	х	x	x	T	T		T	╗	hold					
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7					П							十	1	+	十	1					
8		$\dagger \dagger \dagger$		+	\vdash	_	┢				_	┪	+	+	+	╢					
9						\top	┢				十	\top	\dagger	1	+	1					
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Sampler's Name: Jemy Gonzales	Reling	quished	By / A	Milatio	1	'	ū	ate	Tin	16			Acr	vi) ter	d By /	Affiliatio			Date		Time
Sampler's Company: Noul of	China Change	1/2	-					1/01	165		M	811		Ž.		12-51			2/1/0		1655
Shipment Date:			\geq				2/	2	155		1)2	du		Ü		7 3			2/15/		影
Shipment Method:							7			_		(7- 17	esepp.	<i></i>				1	╫	~~ ~
Shipment Tracking No:																			1	╁	
cial Instructions: Please cc results to: rmille	r@broadbentinc.com	į																			===
stody Seals In Place: Yes / No Temp Blank: Yes	No Cooler	Temp	on Re	ceipt:	6	°F∕Ĉ	7	Tr	ip Bl	ank	Yes)	No	1	N	4S/M	SD Sar	nple S	ubmit	ted: X'es	/ No	

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: REC. BY (PRINT) WORKORDER:	BP A.M. MQBO409		DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN:	2-13- 7:5 211			For Regulatory Purposes? DRINKING WATER YES (NO WASTE WATER YES / NO					
CIRCLE THE APPRO	OPRIATE RESPONSE	LAB SAMPLE#	CLIENT ID	CONTAINER DESCRIPTION	PRESER VATIVE	рH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)			
Custody Seal(s)	Present / Absent	01	MW-1	IIVOA	461			2-6-07	lof 12 broke			
· · · · · · · · · · · · · · · · · · ·	(Intact) Broken*	ひン	1 2	6V074					10 10 10			
2. Chain-of-Custody	· Present / Absent*	03	3	1								
Traffic Reports or	\sim	04	4			_						
Packing List:	Rresent / Absent	0.1	· 5			-						
4. Airbill: `	Airbin / Sticker	0 C	(p									
	Rresent / Absent	07	7			_						
	Hachee	OF	V 8	^		-						
6. Sample Labels:	(Present / Absent	09	RW-1			~_						
7. Sample IDs:	Listed / Not Listed	10	WIAR-3	V	. /	_	\/					
<u></u>	on Chain-of-Custody	11	TB 276 020607	2 VOA	V		V	V				
8. Sample Condition:	Intact (Broken /											
	Leaking*											
9. Does information or												
traffic reports and s				,								
agree?	Yes)/ No*											
Sample received with	~ i											
hold time?	(Yes) No*			•								
11. Adequate sample volu												
received?	€s/ No*		**			$\overline{}$						
12. Proper preservatives												
13. Trip Blanky (Temp Bla	· ~ .											
(circle which, if yes)	Yes/No*											
14. Read Temp:	7,9											
Corrected Temp:	62											
Is corrected temp 4+												
Acceptance range for samples re									100			
**Exception (if any): MET	TALS / DFF ON ICE											
or Problem COC												
			A CAMP OF THE PROPERTY OF THE	AND VALUE OF THE PROPERTY OF	WATER BUILDING	April 8 Vipral land	ing agreement property.	THE WATER STORE THE PARTY BOTH	market and the second second second			

SRL Revision 8

viaces Rev 7 (07/19/05)

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

Page _____ of _____

California Overnight Shipping Label



Date Printed 2/12/2007

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



Tracking#D10010120563667

Sent By: TIM ALBRIGHT Phone#: (916)921-9600

wgt(lbs): 60 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

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:

1Q07 GEO_WELL 276

Submittal Date/Time:

4/4/2007 11:05:31 AM

Confirmation Number:

8399218499

Back to Main Menu

Logged in as BROADBENT-C (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.

Electronic Submittal Information

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

Your EDF file has been successfully uploaded!

Confirmation Number: 4579735159

Date/Time of Submittal: 4/4/2007 11:07:50 AM

Facility Global ID: T0600100082 Facility Name: ARCO #0276

Submittal Title: 1007 GW Monitoring Submittal Type: GW Monitoring Report

Click here to view the detections report for this upload.

ARCO #0276

Regional Board - Case #: 01-0089

10600 MACARTHUR OAKLAND, CA 94605 SAN FRANCISCO BAY RWQCB (REGION 2) - (CM) Local Agency (lead agency) - Case #: RO0000831

ALAMEDA COUNTY LOP - (BC)

NOTE: THIS DATA WAS SUBMITTED AFTER THE SITE WAS CLOSED

CONF# 4579735159 TITLE

QUARTER

1Q07 GW Monitoring

Q1 2007

SUBMITTED BY Broadbent & Associates, Inc. SUBMIT DATE 4/4/2007

STATUS PENDING REVIEW

SAMPLE DETECTIONS REPORT

FIELD POINTS SAMPLED

10

FIELD POINTS WITH DETECTIONS

FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL

SAMPLE MATRIX TYPES

WATER

METHOD QA/QC REPORT

METHODS USED

8260FA,8260TPH,SW8260B

TESTED FOR REQUIRED ANALYTES? LAB NOTE DATA QUALIFIERS

Υ

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS

Ð

METHOD HOLDING TIME VIOLATIONS LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT

0 O

LAB BLANK DETECTIONS DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?

- LAB METHOD BLANK

N

- MATRIX SPIKE

- MATRIX SPIKE DUPLICATE - BLANK SPIKE

- SURROGATE SPIKE

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%

SURROGATE SPIKES % RECOVERY BETWEEN 85-115%

Υ N

Υ

BLANK SPIKE / BLANK SPI	KE DUPLICATES % RECOVERY	BETWEEN 70-130%	Y
SOIL SAMPLES FOR	8021/8260 SERIES		
MATRIX SPIKE / MATRIX S	PIKE DUPLICATE(S) % RECOV	ERY BETWEEN 65-135%	n/a
	PIKE DUPLICATE(S) RPD LESS		n/a
	COVERY BETWEEN 70-125%		n/a
BLANK SPIKE / BLANK SPI	KE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
nth an annua in also lateral description of the property of th	KE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
BLANK SPIKE / BLANK SPI FIELD QC SAMPLES SAMPLE	KE DUPLICATES % RECOVERY COLLECTED	BETWEEN 70-130% DETECTIONS >	
FIELD QC SAMPLES	t the desirate arbita surves a mulest ribus; Lycologics in the first remaindres used in excellent to 2 first the	veternánde kadinamia kadiná 20 Sirás Szévásott fyzir fyzietűméntő á nettu ameln é v én könd t	
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Logged in as BROADBENT-C (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.