

Atlantic Richfield Company (a BP affiliated company)

P.O. Box 1257 San Ramon, CA 94583 Phone: (925) 275-3801 Fax: (925) 275-3815

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9:41 am, May 02, 2008





April 25, 2008

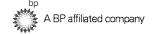
Re: First Quarter, 2008 Ground-Water Monitoring Report Atlantic Richfield Company Station #4977 2770 Castro Valley Boulevard Castro Valley, California ACEH Case No. RO0002436

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

Submitted by:

Paul Supple

Environmental Business Manager



First Quarter, 2008 Ground-Water Monitoring Report Atlantic Richfield Company Station #4977 2770 Castro Valley Boulevard Castro Valley, 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

April 2008

Project No. 06-02-625



April 25, 2008

Project No. 06-02-625

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

Attn.: Mr. Paul Supple

Re:

First Quarter, 2008 Ground-Water Monitoring Report, Atlantic Richfield Company (a BP

affiliated company) Station #4977, 2770 Castro Valley Boulevard, Castro

Valley, CA. ACEH Case No. RO0002436.

Dear Mr. Supple:

Provided herein is the First Quarter, 2008 Ground-Water Monitoring Report for Atlantic Richfield Company Station #4977 (herein referred to as Station #4977) located at 2770 Castro Valley Boulevard, Castro Valley, CA (Property). This report presents a summary of First Quarter, 2008 ground-water monitoring results.

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.

Matthew G. Herrick, P.G.

Senior Hydrogeologist

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

Principal Hydrogeologist

Enclosures

cc:

Mr. Paresh Khatri, Alameda County Environmental Health (submitted via ACEH ftp

site)

ROBERT H. MILLER

STATION #4977 QUARTERLY GROUND-WATER MONITORING REPORT

Facility: #4977 Address: 2770 Castro Valley Boulevard, Castro Valley, CA

Station #4977 Environmental Business

Manager: Mr. Paul Supple

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

Consultant Project No.: 06-02-625

Facility Permits/Permitting Agency.: NA

WORK PERFORMED THIS QUARTER (First Quarter, 2008):

- 1. Submitted Fourth Quarter, 2007 Ground-Water Monitoring Report. Work performed by BAI.
- 2. Conducted ground-water monitoring/sampling for First Quarter, 2008. Work performed by Stratus Environmental, Inc.

WORK PROPOSED FOR NEXT QUARTER (Second Quarter, 2008):

- 1. Submit First Quarter, 2008 Ground-Water Monitoring Report (contained herein).
- 2. Conduct quarterly ground-water monitoring/sampling for Second Quarter, 2008.

QUARTERLY RESULTS SUMMARY:

Current phase of project:	Ground-water monitoring/sampling
Frequency of ground-water sampling:	Wells MW-1 through MW-3: Quarterly
Frequency of ground-water monitoring:	Quarterly
Is free product (FP) present on-site:	No
Current remediation techniques:	None
Depth to ground water (below TOC):	6.63 (MW-2) to 8.29 (MW-1) feet
General ground-water flow direction:	South
Approximate hydraulic gradient:	0.026 Feet per foot

DISCUSSION:

Gasoline range organics (GRO) were detected in MW-2 and MW-3 at 16,000 micrograms per liter (μ g/L) and 260 μ g/L, respectively. Benzene was detected in MW-2 and MW-3 at 530 μ g/L and 0.91 μ g/L, respectively. Toluene was detected in MW-2 and MW-3 at 7.8 μ g/L and 0.71 μ g/L, respectively. Ethylbenzenene was detected in MW-2 and MW-3 at 790 μ g/L and 2.5 μ g/L, respectively. Xylenes were detected in MW-2 and MW-3 at 470 μ g/L and 0.54 μ g/L, respectively. Methyl tert-butyl ether (MTBE) was detected in MW-1, MW-2, and MW-3 at concentrations ranging from 0.94 μ g/L (MW-1) to 96 μ g/L (MW-2). Tert-Butyl alcohol (TBA) was detected in MW-3 at 100 μ g/L. No other analytes were detected in ground-water samples collected during First Quarter, 2008.

Analytes detected during First Quarter, 2008 were all within the historic minimum and maximum concentration ranges recorded for each well, with the following exceptions: MTBE in MW-1 and xylenes in MW-2 are the lowest concentration historically detected in each well. Ground-water elevations measured during First Quarter, 2008 were within historic minimum and maximum ranges for each well.

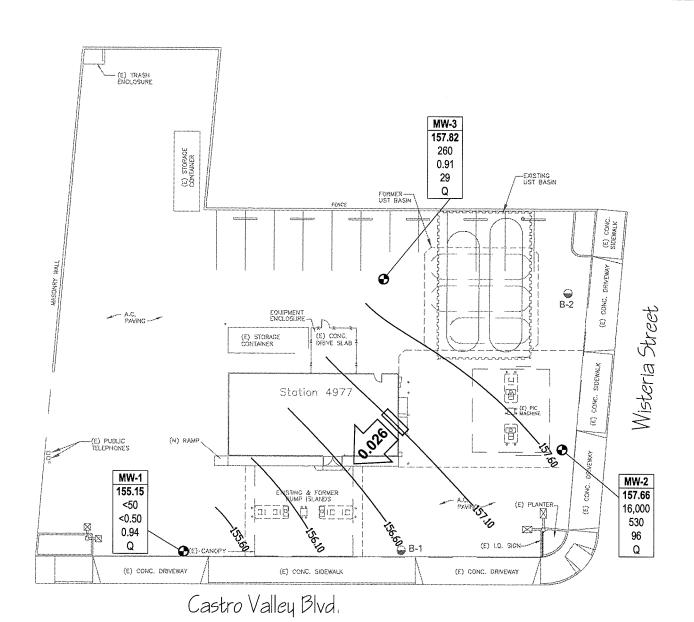
Drawing 1 depicts the ground-water elevation contour and analytical summary map for the First Quarter, 2008. Table 1 includes a summary of ground-water monitoring data including relative water elevations and laboratory analyses. Table 2 provides a summary of fuel additives analytical data. Table 3 presents historical ground-water flow direction and gradient.

CLOSURE:

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

ATTACHMENTS:

- Drawing 1. Ground-Water Elevation Contour and Analytical Summary Map, Station #4977, Castro Valley, CA
- Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #4977, Castro Valley, CA
- Table 2. Summary of Fuel Additives Analytical Data, Station #4977, Castro Valley, CA
- Table 3. Historical Ground-Water Flow Direction and Gradient, Station #4977, Castro Valley, CA
- Appendix A. Stratus Environmental, Inc. Ground-Water Sampling Data Package (Includes Field Data Sheets, Non-Hazardous Waste Data Form, Chain of Custody Documentation, Certified Analytical Results, and Field Procedures for Groundwater Sampling)
- Appendix B. GeoTracker Upload Confirmation



LEGEND



SOIL BORING

Well

ELEV
GRO
BZ
MTBE
Q

NOT DETECTED AT OR ABOVE LABORATORY

NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS

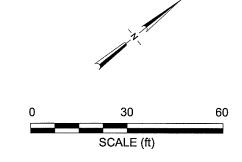
Q SAMPLED QUARTERLY

--- 156.60 GROUND-WATER ELEVATION CONTOUR (FT ABOVE MSL)

0.026

GROUND-WATER FLOW DIRECTION AND GRADIENT (FT/FT)

NOTE: SITE MAP ADAPTED FROM DELTA ENVIRONMENTAL FIGURES SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



BROADBENT & ASSOCIATES, INC.

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL 1324 Mangrove Ave. Suite 212, Chico, California 95926

Project No.: 06-02-625

Date: 4/16/08

Station #4977 2770 Castro Valley Blvd. Castro Valley, California Ground-Water Elevation Contour and Analytical Summary Map March 25, 2008 Drawing

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses Station #4977, 2770 Castro Valley Blvd., Castro Valley, 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-1															
4/19/2002			161.11	5.0	15.0	11.21	149.90	660	12	1.3	4.3	0.8	38		
9/27/2002			161.11	5.0	15.0	9.29	151.82	130	7.7	0.87	5.4	0.79	39	1.7	6.9
12/16/2002		, a	161.11	5.0	15.0	8.55	152.56	77	1.8	<0.50	0,69	<1.0	42	1.6	6.9
3/11/2003			161.11	5.0	15.0	8.07	153.04	140	9.8	<0.50	5.6	<0.50	20	1.4	7.4
6/17/2003		1000	161.11	5.0	15.0	8.31	152.80	510	60	1.4	81	<1.0	23	2.2	7
9/18/2003		b	1 61.11	5.0	15.0	9.45	151.66	72	2.4	1.4	1.6	1.5	39	2.7	7
12/11/2003	P		161.11	5.0	15.0	8.80	152.31	79	1.5	<0.50	1.5	4.4	48	2.1	7.0
03/11/2004	P		163.44	5.0	15.0	7.61	155.83	<50	1.3	<0.50	0.77	1.3	17	1.4	6.8
06/02/2004	P		163.44	5.0	15.0	8.95	154,49	53	1.4	<0.50	0.93	<0.50	39	2.3	7.1
09/22/2004	P		163.44	5.0	15.0	9.42	154.02	70	<0.50	<0.50	<0.50	<0.50	48	1.7	6.8
12/15/2004	. Р		163.44	5.0	15.0	7.88	155.56	63	<0.50	<0.50	<0.50	<0.50	45	1.8	6.9
03/07/2005	P		163.44	5.0	15.0	7.02	156.42	<50	<0.50	<0.50	<0.50	<0.50	4.0	2.4	6.8
06/27/2005	P		163.44	5.0	15.0	`7.53	155.91	52	2.0	<0.50	1.9	0.78	8.1	2.8	7.1
09/16/2005	P		163.44	5.0	15.0	9.20	154.24	<50	<0.50	<0.50	<0.50	0.76	14	1.82	6.9
12/27/2005	P		163,44	5.0	15.0	7.60	155.84	<50	1,3	<0.50	1.5	<0.50	9.4	2.02	7.87
03/16/2006	P		163.44	5.0	15.0	6.97	156.47	71	3.0	<0.50	3.5	<0.50	3.4	1.6	7.1
6/26/2006	P		163.44	5.0	15.0	8.58	154.86	71	0.69	<0.50	1.1	3.5	3.2	2.2	6.9
9/29/2006	P	NEWYS IP-PORTINING PRINTED CONTROL OF THE PRINTED PRIN	163.44	5.0	15.0	8.85	154.59	<50	<0.50	<0.50	<0.50	<0.50	5.2	2.35	6.7
12/19/2006	P		163.44	5.0	15.0	8.00	155.44	<50	<0.50	<0.50	<0.50	<0.50	4.3	4.80	7.21
3/29/2007	P	ya sakhilib di takininin nama yanga sanganya yanga sanganya k	163.44	5.0	15.0	7.70	155.74	<50	<0.50	<0.50	<0.50	<0.50	2.3	3.44	7.18
6/5/2007	P		163.44	5.0	15.0	8.77	154.67	<50	<0.50	<0.50	<0.50	<0.50	3.2	3.45	7.29
9/25/2007	P		163.44	5.0	15.0	9.18	154.26	<50	<0.50	<0.50	<0.50	<0.50	5.3	2.61	7.41
12/26/2007	P		163.44	5.0	15.0	8.45	154.99	<50	<0.50	<0.50	<0.50	<0.50	2.9	5.57	7.43
3/25/2008	P		163.44	5.0	15.0	8.29	155.15	<50	<0.50	< 0.50	< 0.50	< 0.50	0.94	3.52	7.80
MW-2															
4/19/2002			161.87	5.0	15.0	6.59	155.28	28,000	970	120	860	6,900	760		
9/27/2002			161.87	5.0	15.0	7.18	154.69	17,000	1,400	<50	1,200	3,700	1,400	1.5	6.8
12/16/2002		a	161.87	5.0	15.0	7.31	154.56	17,000	1,000	< 50	980	3,300	980	1.9	6.8
3/11/2003			161.87	5.0	15.0	6.02	155.85	24,000	1,600	70	1,300	4,300	920	1.7	7.4
6/17/2003			161.87	5.0	15.0	6.31	155.56	28,000	1,300	55	1,300	4,500	610	1.4	6.9

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #4977, 2770 Castro Valley Blvd., Castro Valley, CA

				Top of	Bottom of		Water Level			Concentra	tions in (11	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-2 Cont.															
9/18/2003			161.87	5.0	15.0	7.61	154.26	19,000	960	63	1,100	3,100	580	2.7	6.8
12/11/2003	P	-	161.87	5.0	15.0	6.50	155.37	29,000	710	53	1,300	3,800	490	2.0	7.0
03/11/2004	P		164.29	5.0	15.0	6.02	158.27	19,000	830	49	1,500	4,000	410	0.8	6.5
06/02/2004	P		164.29	5.0	15.0	7.14	157.15	25,000	680	<50	1,300	3,900	240	4.3	7.1
09/22/2004			164.29	5.0	15,0	7.63	156.66 ,	15,000	980	<25	980	940	390		6.7
12/15/2004	P	c	164.29	5.0	15.0	6.48	157.81	22,000	610	26	1,300	3,200	290	0.3	6.9
03/07/2005	Р		164.29	5.0	15.0	6.08	158.21	25,000	570	33	1,400	3,900	120	2.3	6.8
06/27/2005	P		164.29	5.0	15.0	6.90	157.39	24,000	630	32	1,200	2,900	86	2.5	7.2
09/16/2005	Р		164.29	5.0	15.0	7.66	156.63	25,000	550	<25	1,400	3,000	82	1.41	7.0
12/27/2005	P		164.29	5.0	15.0	5.60	158.69	33,000	540	<25	1,300	2,700	100	2.26	7.19
03/16/2006	P	C	164.29	5.0	15.0	7.25	157.04	29,000	710	<50	1,400	2,600	78	1.4	7.1
6/26/2006	P	c	164.29	5.0	15.0	6.60	157.69	20,000	630	<25	1,200	1,100	110	0.64	6.8
9/29/2006	P		164.29	5.0	15.0	6.85	157.44	24,000	530	<25	1,300	1,800	86	1.36	6.7
12/19/2006	P	,	164.29	5.0	15.0	6.02	158.27	21,000	500	<25	1,400	1,700	70	1.11	7.42
3/29/2007	P		164.29	5.0	15.0	6.03	158.26	16,000	530	<25	1,100	1,100	80	2.98	7.18
6/5/2007	P		164.29	5.0	15.0	6.85	157.44	21,000	420	<25	1,100	1,100	50	2.09	7.20
9/25/2007	P		164.29	5.0	15.0	7.15	157.14	25,000	620	<25	1,400	1,200	70	3.25	7.59
12/26/2007	P		164.29	5.0	15.0	6.25	158.04	16,000	440	<5.0	760	570	80	1.84	7.66
3/25/2008	P		164.29	5.0	15.0	6.63	157.66	16,000	530	7.8	790	470	96	1.78	7.72
MW-3															
4/19/2002			162.14	5.0	15.0	6.94	155.20	1,200	29	1.1	43	62	1,700		
9/27/2002			162.14	5.0	15.0	8.26	153.88	740	7.8	<2.5	6.8	4.4	1,100	1	6.7
12/16/2002		a	162.14	5.0	15.0	6.76	155.38	1,200	13	<10	170	88	910	2:3	6.8
3/11/2003			162.14	5.0	15.0	6.92	155.22	<2,500	<25	<25	<25	<25	470	1.7	7.5
6/17/2003			162.14	5.0	15.0	7.44	154.70	<1,000	<10	<10	14	<10	530	1.9	7
9/18/2003		·	162.14	5.0	15.0	8.43	153.71	470	4.8	<2.5	10	9.2	300	2.9	6.8
12/11/2003	P	San	162.14	5.0	15.0	6.72	155.42	<500	<5.0	<5.0	7.0	13	180	1.9	6.9
03/11/2004	P	ongreent og skrive komment for til det skrive for til skrive for til skrive for til skrive for til skrive for	164.53	5.0	15.0	6.09	158.44	360	1.9	<1.0	5.6	5.0	110	2.6	6.8
06/02/2004	P		164.53	5.0	15:0	7.50	157.03	380	2.8	<0.50	8.0	2.1	43	3.6	7.3
09/22/2004	P	mage agreement is sub-particularly by propagation of the Control States (1997)	164.53	5.0	15.0	8.00	156.53	270	<0.50	<0.50	0.54	<0.50	50	1.8	6.9

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #4977, 2770 Castro Valley Blvd., Castro Valley, CA

				Top of	Bottom of		Water Level	Concentrations in (µg/L)							
Well and Sample Date	P/NP	Comments	TOC (feet msl)	Screen (ft bgs)	Screen (ft bgs)	DTW (feet bgs)	Elevation (feet msl)	GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	DO (mg/L)	рН
MW-3 Cont.															
12/15/2004	P		164.53	5.0	15.0	6.43	158.10	390	3.5	<0.50	20	3.7	49	1.1	6.9
03/07/2005	P		164.53	5.0	15.0	6.12	158.41	1,900	13	<1.0	93	29	70	2.3	6.8
06/27/2005	P	10.00	164.53	5.0	15.0	7.08	157.45	830	4.0	<0.50	13	2.8	33	3.3	7.3
09/16/2005	P	700000000000000000000000000000000000000	164.53	5.0	15.0	7.28	157.25	320	2.1	<0.50	5.4	0.60	21	2.11	7.0
12/27/2005	P		164.53	5.0	15.0	6.47	158.06	770	6.0	<0.50	33	2.7	36	2.96	7.42
03/16/2006	P		164.53	5.0	15.0	6.10	158.43	1,600	11	<0.50	59	6.4	45	1.4	7.1
6/26/2006	P		164.53	5.0	15.0	6.92	157.61	400	<0.50	<0.50	1.6	2.1	26	2.41	7.0
9/29/2006	P		164.53	5.0	15.0	7.38	157.15	220	0.86	<0.50	2.2	0.58	14	1.95	7.0
12/19/2006	P		164.53	5.0	15.0	6.65	157.88	450	4.3	<0.50	19	1.4	19 .	3.68	7.30
3/29/2007	P	A TANAN	164.53	5.0	15.0	6.92	157.61	390	3.0	<0.50	9.1	0.60	27	1.98	7.16
6/5/2007	P		164.53	5.0	15.0	7.01	157.52	390	1.9	<0.50	6.9	<0.50	20	1,99	7.34
9/25/2007	P	and the second s	164.53	5.0	15.0	7.52	157.01	260	1.3	<0.50	2.7	<0.50	12	3.44	7.41
12/26/2007	P		164.53	5.0	15,0	6.65	157.88	460	3.1	<0.50	15	0.89	. 17	4.05	7.46
3/25/2008	P	20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20	164.53	5.0	15.0	6.71	157.82	260	0.91	0.71	2.5	0.54	29	2.40	7.63

SYMBOLS AND ABBREVIATIONS:

- < = Not detected at or above specified laboratory reporting limits
- -- = Not measured, sampled, analyzed, applicable

ft bgs = Feet below ground surface

DO = Dissolved oxygen

DTW = Depth to water in ft bgs

GRO = Gasoline range organics

GWE = Groundwater elevation in ft MSL

mg/L = Milligrams per liter

ft MSL = Feet above mean sea level

MTBE = Methyl tert-butyl ether analyzed by EPA Method 8021B unless otherwise noted (before 12/16/02)

P/NP = Well was purged/not purged prior to sampling

TPH-g = Total petroleum hydrocarbons as gasoline (C5-C9)

TOC = Top of casing measured in ft MSL

 $\mu g/L = Micrograms per liter$

FOOTNOTES:

a = TPH, benzene, toluene, ethylbenzene, total xylenes, and MTBE analyzed by EPA Method 8260B beginning on 4th quarter sampling event (12/16/02).

b = This sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. The results may still be used for their intended purpose.

c =Sheen in well.

NOTES:

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

Wells were re-surveyed on 3/23/2004.

Values for DO and pH were field measurements.

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

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 #4977, 2770 Castro Valley Blvd., Castro Valley, CA

Well and				Concentrati	ons in (μg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ЕТВЕ	TAME	1,2-DCA	EDB	Comments
MW-1									
12/16/2002	<50	<5.0	42	<0.50	<0.50	<0.50	<0.50	<0.50	
3/11/2003	<100	<20	20	<0.50	<0.50	<0.50	<0.50	<0.50	
6/17/2003	<200	<40	23	<1.0	<1.0	<1.0	<1.0	<1.0	
9/18/2003	<100	<20	39	<0.50	<0.50	<0.50	<0.50	<0.50	a
12/11/2003	<100	<20	48	<0.50	<0.50	<0,50	<0.50	<0.50	
03/11/2004	<100	<20	17	<0.50	<0.50	<0.50	<0.50	<0.50	
06/02/2004	<100	<20	39	<0.50	<0.50	<0.50	<0.50	<0.50	
09/22/2004	<100	<20	48	<0.50	<0.50	<0.50	<0.50	<0.50	A manufacture of the control of the
12/15/2004	<100	<20	45	<0.50	<0.50	<0.50	<0.50	<0.50	a
03/07/2005	<100	<20	4.0	<0.50	<0.50	<0.50	<0.50	<0.50	
06/27/2005	<100	<20	8.1	<0.50	<0.50	<0.50	<0.50	<0.50	
09/16/2005	<100	<20	14	<0.50	<0.50	<0.50	<0.50	<0.50	
12/27/2005	<100	<20	9,4	<0.50	<0.50	<0.50	<0.50	<0.50	b
03/16/2006	<300	<20	3.4	<0.50	<0.50	<0.50	<0.50	<0.50	C
6/26/2006	<300	<20	3.2	<0.50	<0.50	<0.50	<0.50	<0.50	
9/29/2006	<300	<20	5.2	<0.50	<0.50	<0.50	<0.50	<0.50	
12/9/2006	<300	<20	4.3	<0.50	<0.50	<0.50	<0,50		, b
3/29/2007 6/5/2007	<300	<20 <20	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	
9/25/2007	<300 <300	<20 <20	3.2 5.3	<0.50	<0.50	<0.50	<0.50	<0.50	
12/26/2007	<300	<20 <20	2.9	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	
3/25/2008	<300	<10	0.94	<0.50	<0.50	<0.50	<0.50	<0.50	
	300	\10	0.54	V0.30	<0.50	<0.50	<0.50	<0.50	
MW-2									
12/16/2002	<5,000	<500	980	<50	<50	<50	<50	<50	
3/11/2003	<10,000	<2,000	920	<50	<50	<50	<50	<50	
6/17/2003	<10,000	<2,000	610	<50	<50	<50	<50	<50	
9/18/2003	<5,000	<1,000	580	<25	<25	<25	<25	<25	A case construent with free construent for each of the cases construent were free free free free free free free
12/11/2003	<5,000	<1,000	490	<25	<25	<25	<25	<25	
03/11/2004	<2,000	<400	410	<10	<10	<10	<10	<10	
06/02/2004	<10,000	<2,000	240	<50	<50	<50	< 50	<50	
09/22/2004	<5,000	<1,000	390	<25	<25	<25	<25	<25	

Table 2. Summary of Fuel Additives Analytical Data Station #4977, 2770 Castro Valley Blvd., Castro Valley, CA

Well and				Concentrati	ons in (µg/L)			sero vanej	
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
MW-2 Cont.									
12/15/2004	<2,000	<400	290	<10	<10	<10	<10	<10	ā
03/07/2005	<5,000	<1,000	120	<25	<25	<25	<25	<25	a
06/27/2005	<5,000	<1,000	86	<25	<25	<25	<25	<25	
09/16/2005	<5,000	<1,000	82	<25	<25	<25	<25	<25	
12/27/2005	<5,000	<1,000	100	<25	<25	<25	<25	<25	b
03/16/2006	<30,000	<2,000	78	<50	<50	<50	<50	<50	C
6/26/2006	<15,000	<1,000	110	<25	<25	<25	<25	<25	
9/29/2006	<15,000	<1,000	86	<25	<25	<25	<25	<25	
12/9/2006	<15,000	<1,000	70	<25	<25	<25	<25		b
3/29/2007	<15,000	<1,000	80	<25	<25	<25	<25	<25	
6/5/2007	<15,000	<1,000	50	<25	<25	<25	<25	<25	
9/25/2007	<15,000	<1,000	70	<25	<25	<25	<25	<25	
12/26/2007 3/25/2008	<3,000 <1,500	<200 <50	80	<5.0	<5.0	<5.0	<5.0	<5.0	
	<1,500	<50	96	<2.5	<2.5	<2.5	<2.5	<2.5	
MW-3									
12/16/2002	<1,000	<100	910	<10	<10	12	<10	<10	
3/11/2003	<5,000	<1,000	470	<25	<25	<25	<25	<25	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
6/17/2003	<2,000	<400	530	<10	<10	<10	<10	<10	
9/18/2003	<500	<100	300	<2.5	<2.5	3.2	<2.5	<2.5	
12/11/2003	<1,000	<200	180	<5.0	<5.0	<5.0	<5.0	<5.0	
03/11/2004 06/02/2004	<200	570	110	<1.0	<1.0	<1.0	<1.0	<1.0	
09/22/2004	<100 <100	130 28	43 50	<0.50 <0.50	<0,50 <0.50	0.56 0.51	<0.50	<0.50	
12/15/2004	<100	110	49	<0.50	0.52	0.51	<0.50 <0.50	<0.50 <0.50	<u>.</u>
03/07/2005	<200	190	70	<1.0	<1.0	<1.0	<1.0	<1.0	a
06/27/2005	<100	130	33	<0.50	<0.50	<0.50	<0.50	<0.50	
09/16/2005	<100	44	21	<0.50	<0.50	<0.50	<0.50	<0.50	
12/27/2005	<100	150	36	<0.50	<0.50	<0.50	<0.50	<0.50	b
03/16/2006	<300	160	45	<0.50	<0.50	0.84	<0.50	<0.50	c
6/26/2006	<300	53	26	<0.50	<0.50	<0.50	<0.50	<0.50	Company and the company of the compa
9/29/2006	<300	55	14	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data Station #4977, 2770 Castro Valley Blvd., Castro Valley, CA

Well and				Concentrati	ons in (μg/L)				
Sample Date	Ethanol	TBA	TBA MTBE		ЕТВЕ	TAME	1,2-DCA	EDB	Comments
MW-3 Cont.									
12/9/2006	<300	<20	19	<0.50	<0.50	<0.50	<0.50		b.
3/29/2007	<300	130	27	<0.50	<0.50	<0.50	<0.50	<0.50	
6/5/2007	<300	77	20	<0.50	<0.50	<0.50	<0.50	<0.50	
9/25/2007	<300	30	12	<0.50	<0.50	<0.50	<0.50	<0.50	
12/26/2007	<300	76	17	<0.50	<0.50	<0.50	<0.50	<0.50	
3/25/2008	<300	100	29	<0.50	<0.50	<0.50	<0.50	<0.50	

SYMBOLS AND ABBREVIATIONS:

< = Not detected at or above specified laboratory reporting limit

1,2-DCA = 1,2-Dichloroethane

DIPE = Di-isopropyl ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

 $\mu g/L = Micrograms per liter$

FOOTNOTES:

a = This sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. The results may still be used for their intended purpose.

b = Calibration verification for ethanol was within method limits but outside contract limits.

c = Possible high bias for DIPE, 1,2-DCA, and ethanol due to CCV falling outside acceptance criteria.

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 #4977, 2770 Castro Valley Blvd., Castro Valley, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
4/19/2002	Southwest	0.038
9/27/2002	Southwest	0.021
12/16/2002	Southeast	0.029
3/11/2003	South	0.024
6/17/2003	South-Southwest	0.022
9/18/2003	South-Southwest	0.022
3/11/2004	South-Southwest	0.024
6/2/2004	South	0.025
9/22/2004	South	0.025
12/15/2004	South	0.020
3/7/2005	South	0.02
6/27/2005	South	0.01
9/16/2005	Southeast	0.03
12/27/2005	South-Southeast	0.02
3/16/2006	Southeast	0.02
6/26/2006	South	0.03
9/29/2006	South	0.025
12/19/2006	South	0.024
3/29/2007	South	0.020
6/5/2007	South	0.027
9/25/2007	South	0.023
12/26/2007	South	0.027
3/25/2008	South	0.026

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 ENVIRONMENTAL, INC. GROUND-WATER SAMPLING DATA PACKAGE (INCLUDES FIELD DATA SHEETS, NON-HAZARDOUS WASTE DATA FORM, CHAIN OF CUSTODY DOCUMENTATION, CERTIFIED ANALYTICAL RESULTS, AND FIELD PROCEDURES FOR GROUNDWATER SAMPLING)



April 10, 2008

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

Re: Groundwater Sampling Data Package, BP Service Station No. 4977, located at

2770 Castro Valley Road, Castro Valley, California.

General Information

Data Submittal Prepared / Reviewed by: Becky Carroll / Jay Johnson

Phone Number: (530) 676-6000

On-Site Supplier Representative: Roberto Heimlich

Sampling Date: March 25, 2008

Arrival: 07:00 Departure: 9:00

Weather Conditions: Cloudy

Unusual Field Conditions: None noted

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 field data sheets, non-hazardous waste data form, chain of custody documentation, certified analytical results, and field procedures for groundwater sampling documentation. 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 HA

Jay R. Johnson, P.G. Project Manager Jay R. Johnson No. 5867

Attachments:

- Field Data Sheets
- Non-Hazardous Waste Data Form
- Chain of Custody Documentation
- Certified Analytical Results
- Field Procedures for Groundwater Sampling

CC: Mr. Paul Supple, BP/ARCO

BP Alameda Portfolio

: 7:00

HYDROLOGIC DATA SHEET

Gauge Date: 3/25/08 Pro	eject Name: 2770 Castro Valley Blvd, Castro Valley
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Project Number: 4977

TOC = Top of Well Casing Elevation
TOS = Depth to Top of Screen
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

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

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	WATER SAMPLE	FIELD DATA SHEE	T	
PROJECT #: 4977 CLIENT NAME: LOCATION: Castro Valley - 2770 Cast	PURGED BY: SAMPLED BY: tro Valley Road	<u> </u>	**************************************	2. 2. f. sr
DATE PURGED 3/25/08 DATE SAMPLED 3/25/08 SAMPLE TYPE: Groundwater x	START (2400m) SAMPLE TIME (240 Surface Water	2 * 2 4 Ohr) 3 * 4 5 Treatment EM		43/
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BP A	ALAMEDA PORTFOLIO	
WATER	R SAMPLE FIELD DATA SHEET	
*	GED BY:	WELLID: 19 W - Z SAMPLE ID: 19 W - Z QA SAMPLES:
DATE SAMPLED 3/25/08 SAM	RT (2400hr) 7:57 PLE TIME (2400hr) 8:19 Surface Water Treatment Effluent	END (2400hr) <u> </u>
CASING DIAMETER: 2" 3" Casing Volume: (gallons per foot) (0.17)	(0.38) 4" (0.67) 5" (1.02) 6"	8" Other (1.50)
DEPTH TO BOTTOM (feet) = 14.58 DEPTH TO WATER (feet) = 6.63 WATER COLUMN HEIGHT (feet) = 7.95	CASING VOLUM CALCULATED PI ACTUAL PURGE	URGE (gal) = 45. 3
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80% RECHARGE: YES NO ODOR: 10 SAMPLE VESSEL/I		
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WELL INTEGRITY: 6000 REMARKS: 00 2.40 SIGNATURE:		LOCK#:	Page of	Managemental

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Wellhead Observation Form

Account:	MARKATON
Sampled by: ROBERTO	Date: 3/25/08

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
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TRANSPORTER	ADDRESS 3330 CAMERON P. CITY, STATE. ZIPAMERON PARK PHONE NO. 530-676-2031 TRUCK, UNIT, LO. NO.	MENTAL ARK DR CA 95682 TYPED OF	BERTE MA	ID NO.	SERVICE ORDER NO.	3/25/03 00-12
TRANSPORTER	NAME STRATUS ENVIRON ADDRESS 3330 CAMERON P. CITY, STATE. 216 AMERON PARK PHONE NO. 530-576-2031	MENTAL ARK DR CA 95682 TYPED OF	BERTE MA	ID NO.	SERVICE ORDER NO.	3/25/08/20
TRANSPORTER	ADDRESS 3330 CAMERON P. CITY, STATE, ZIPAMERON PARK PHONE NO. 530-676-2031 TRUCK, UNIT, LO. NO. NAME SEAPORT REFINENCE	MENTAL ARK DR CA 95682 TYPEDOR 3 & ENGRONNE	BERTE MA	ID NO.	SERVICE ORDER NO.	DATE OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWN
TRANSPORTER	ADDRESS 3330 CAMERON P. OITY, STATE ZIPAMERON PARK PHONE NO. 530-576-2031 TRUCK UNIT, LO. NO.	MENTAL ARK DR CA 95682 TYPEDOR 3 & ENGRONNE	BERTE MA	ID NO.	SERVICE ORDER NO. PECK UP DATE STATEMENT OF THE STATEME	DeTE
TRANSPORTER	ADDRESS 3330 CAMERON P. CITY, STATE 2/PAMERON PARK PHONE NO. 530-576-2031 TRUCK UNIT LO. NO. NAME SEAPORT REFINITION ADDRESS 700 SEAPORT BLVI	ARK DR L CA 93682 THEO THEO G & ENVIRONNE	BERTE MA	ID NO.	SERVICE ORDER NO.	The second secon
TRANSPORTER	ADDRESS 3330 CAMERON P. CITY, STATE 2/PAMERON PARK PHONE NO. 530-576-2031 TRUCK UNIT LO. NO. NAME SEAPORT REFINITION ADDRESS 700 SEAPORT BLVI	ARK DR L CA 93682 THEO THEO G & ENVIRONNE	BERTE MA	ID NO.	SERVICE ORDER NO. PECK UP DATE STATEMENT OF THE STATEME	The second secon
	ADDRESS 3330 CAMERON P. CITY, STATE ZIPAMERON PARK PHONE NO. 530-576-2031 TRUCK, UNIT, LO. NO. NAME SEAPORT REFINENCE ADDRESS 700 SEAPORT BLVI	ARK DR L CA 93682 THEO THEO G & ENVIRONNE	BERTE MA	ID NO.	SERVICE ORDER NO. PECK UP DATE STATEMENT OF THE STATEME	The second secon
	ADDRESS 3330 CAMERON P. CITY, STATE 2/PAMERON PARK PHONE NO. 530-576-2031 TRUCK UNIT LO. NO. NAME SEAPORT REFINITION ADDRESS 700 SEAPORT BLVI	ARK DR L CA 93682 THEO THEO G & ENVIRONNE	BERTE MA	ID NO.	SERVICE ORDER NO. PECK UP DATE STATEMENT OF THE STATEME	Physics of the control of the contro
	ADDRESS 3330 CAMERON P. CITY, STATE ZIPAMERON PARK PHONE NO. 530-576-2031 TRUCK, UNIT, LO. NO. NAME SEAPORT REFINENCE ADDRESS 700 SEAPORT BLVI	ARK DR L CA 93682 THEO THEO G & ENVIRONNE	BERTE MA	ID NO.	SERVICE ORDER NO. PECK UP DATE STATEMENT OF THE STATEME	PATE The Table of the Control of th
	ADDRESS 3330 CAMERON P. CITY, STATE ZIPAMERON PARK PHONE NO. 530-576-2031 TRUCK, UNIT, LO. NO. NAME SEAPORT REFINENCE ADDRESS 700 SEAPORT BLVI	ARK DR L CA 93682 THEO THEO G & ENVIRONNE	BERTE MA	ID NO.	SERVICE ORDER NO. PECK UP DATE STATEMENT OF THE STATEME	PATE 1
	ADDRESS 3330 CAMERON P. CITY, STATE ZIPAMERON PARK PHONE NO. 530-576-2031 TRUCK, UNIT, LO. NO. NAME SEAPORT REFINENCE ADDRESS 700 SEAPORT BLVI	ARK DR CA 93682 TYPED OF Y, CA 94063	BERTE MA	I.D. NO.	SERVICE ORDER NO. PECK UP DATE STATEMENT OF THE STATEME	DATE SATE
TSD FACILITY	ADDRESS 3330 CAMERON P. CITY, STATE ZIPAMERON PARK PHONE NO. 530-576-2031 TRUCK, UNIT, LO. NO. NAME SEAPORT REFINENCE ADDRESS 700 SEAPORT BLVI	ARK DR CA 93682 TYPED OF Y, CA 94063	R PRINTED FULL NAME	I.D. NO.	SERVICE ORDER NO. PECK UP DATE STATEMENT OF THE STATEME	
TSD FACILITY	ADDRESS 3330 CAMERON P. CITY, STATE ZIPAMERON PARK PHONE NO. 530-676-2031 TRUCK, UNIT, LO. NO. NAME SEAPORT REFINENCE ADDRESS 700 SEAPORT BLVI CITY, STATE ZIPREDWOOD CITY PHONE NO. 650-364-1024	MENTAL ARK DR CA 93682 TYPED OR TYPED OR	REPTE JA	I.D. NO.	SERVICE ORDER NO. PECK UP DATE STATEMENT OF THE STATEME	
TSD FACILITY	ADDRESS 3330 CAMERON P. CITY, STATE ZIPAMERON PARK PHONE NO. 530-576-2031 TRUCK, UNIT, LO. NO. NAME SEAPORT REFINENCE ADDRESS 700 SEAPORT BLVI	MENTAL ARK DR CA 93682 TYPED OR TYPED OR	R PRINTED FULL NAME	I.D. NO.	SERVICE ORDER NO. PECK UP DATE STATEMENT OF THE STATEME	
TSD FACILITY	ADDRESS 3330 CAMERON P. CITY, STATE ZIPAMERON PARK PHONE NO. 530-676-2031 TRUCK, UNIT, LO. NO. NAME SEAPORT REFINENCE ADDRESS 700 SEAPORT BLVI CITY, STATE ZIPREDWOOD CITY PHONE NO. 650-364-1024	TYPED OR TYPED OR TYPED OR TYPED OR	REPTE JA	I.D. NO.	SERVICE ORDER NO. PECK UP DATE STATEMENT OF THE STATEME	
TSD FACILITY	ADDRESS 333D CAMERON P. CITY, STATE. ZIPAMERON PARK PHONE NO. 530-676-2031 TRUCK, UNIT. LO. NO. NAME SEAPORT REFINENCE ADDRESS 700 SEAPORT BLMI CITY, STATE ZIPREDWOOD CITY PHONE NO. 650-364-1024	ARK DR CA 93682 TYPED OR TYPED OR TYPED OR S B	R PRINTED FULL NAME	I.D. NO.	SERVICE ORDER NO. PECK UP DATE STATEMENT OF THE STATEME	
	ADDRESS 333D CAMERON P. CITY, STATE. ZIPAMERON PARK PHONE NO. 530-676-2031 TRUCK, UNIT. LO. NO. NAME SEAPORT REFINENCE ADDRESS 700 SEAPORT BLMI CITY, STATE ZIPREDWOOD CITY PHONE NO. 650-364-1024	ARK DR L CA 93682 TYPED OR TYPED OR TYPED OR TYPED OR	REPTE JA	I.D. NO.	SERVICE ORDER NO. PECK UP DATE STATEMENT OF THE STATEME	

Ą	antic chfield	No. of Concession, Name of
Co	mpany	ř
withfur.	BP affiliated company	

Chain of Custody Record

Project Name: ARCO 4977

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda >4

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

	On-site Time: 7800 Temp: 58
	Off-site Time: 9:00 Temp: 58
4	Sky Conditions: Cloudy
	Meteorological Events: NA
	Wind Speed: O Direction: NH

Lab N	łame: Calscience	******************************	***************************************		*********			BP/AR Facility No	;	4	977					******	*********	Not Malespee	*****	Cos	ısulta	m/Ce	mira	ctor:	***************************************	Stratus Environment	ni, Inc.	
Addre	ess: 7440 Lincoln Way		***********	×***********	-			BP/AR Facility Ad	dress	o	277	0 Ca	stro 1	/alle	/ Ros	d, C	astro	Vall	ey	Αđ	iress		333	0 Ca	mer	on Park Drive, Sui	ie 550	
	Garden Grove, CA 92841	nanada v eranananan	N####		*******		N-Section 1	Site Lut/Long:	******	*************	*********	****				*****************	(2004-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	Xent representation	*************		***************************************		Car	nero	n Pa	rk, CA 95682		
*************	M: Linda Scharpenberg				*******			California Global I	O No	.:	TO	001	0089	**********	**********	~~~				Cor	suite	nt/Co	autra	ctor F	roje	ct No.:		
Tele/	ax: 714-895-5494 714-895-75	01(fox)	**********************				AMANA	Enfos Project No.:	********	in the second	GO	CZH	-0021	(,,,,,,,,,,,		***********	**************	**********		Cor	isulta	nt/Cc	mira	ctor F	M:	Jay Johnso	AL.	
<u> </u>	R PM Contact: Paul Supple	*****************			······································			Provision or OOC	(circ	le or	(e)	******	Prov	risior	}	****	······································	***********		Tel	/Fax	·. .>	(53	0) 67	16-6	<u>000 / (530) 676-60</u>	05	
Addr	ess: 2010 Crow Canyon Place, Suit	e 150	***************************************		101001 (MARION)		******	Phase/WBS:	**********	04-	Mon	torin	g			201240140140000	*ierioneoicoesa	**********	************					Lev		Level 1 wi	th EDP	
***************************************	San Ramou, CA		******	******	********		*********	Sub Phase/Task:	······································	*********	Anal		******	-	***************************************	***********	живаннын		MANAGEMENT AND ADDRESS OF THE PARTY OF THE P	. Processor	Married constraints	**********				@stratusinc.net	***************************************	************
Tele/l			1940 14 50 Company 1940 1940 1940 1940 1940 1940 1940 1940	1,000				Cost Element:		01-	****	-	r Inbo	0040104000000		,				-	****	****	waterson,	e Ric	hfie	ld Co.		
Lab l	Bottle Order No:	~~~~~	1	!	Ma	trix				-	1	rese	rvati	Ye r	··········		·	r	Requ	este	đ An	alysi	ş	,	r			
Hem No.	Sample Description	*##* <u>*********************************</u>	Date	Soll/Solid	Water/Liquid	ÄÄ		Laboratory No.	No. of Containers	Unpreserved	H,SO,	WWO,		Methanol		BTEX/Oxy • by 8260	1,2-DCA	Ethanol by 8260	#Q#	GRO by 8035m	in in the second se					Sample Point Come Oxy = MTBE, TAI TE	nenis ME, ETB	
1	MW-1	8:45	3/25/0		x		*****	ge (***New Mount disconsissasses et liet date **) et et anné i filipe (**Nete and) é:	6			Ī	Īχ			Х	х	х	х	X	T	1						
2	MW-2	8:19	li		x		M97844716		6				Ī _x	on make the sector	tenakanan sikiri	X	CONTRACTOR AND ADDRESS OF	Х	Х	Х	1		<u> </u>				# ************************************	***************************************
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4	TB-4977 3/25/98 - 6:00	6:00	11		x		***************************************	***************************************	3			1	x				***************************************				1	000000	·	********		DIOLD		-4
5									-		*************	1	1							<u> </u>	1		-		-Vro-y-enge	Annual Market Property and Annual Property and	P444999041111111111111111111111111111111	
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10				1			atterns:				l	<u> </u>	†	***************************************	-			******			1						***************************************	
Sam	pler's Name: Lobketo 1	12700	1/0/	<u> </u>	Š.m.	1		Reling	uisbe	d By	IAU	Hatic)n			Dı	ate	Ti	me	<u> </u>		<u> </u>	L. Lecep	ted D	y / A	(fillation	Date	Time
Sam	oler's Company: DOUL-05	se N	V.	-						JEREUM)			- ALANCO MARKAGES	60MM-1891		***************************************	***************************************			ľ		**************************************						
and the second	ment Date:				107-92-102-100-1	********					Lancon Maria			-400000		***************************************					ender-nockeouwer	occurrence.	************	************				**************************************
	ment Method:	***	K43000 YAREETOWN TO THE WAY	************					*****************************	entarione.			~~~									************			***********			
CONTRACTOR PROPERTY.	ment Tracking No:											nicesido centro								L					*********			
Spec	al Instructions:	Please	cc resu	lts t	o rn	oille	ra	broadbentinc.co	n		**********		······································			100124104144440		CHOMPONE DIE	**********	********	100000000000000000000000000000000000000	enagonanananan	***********	*************	,			
<u> </u>	Custody Scals In Place: Yes /	Nin I	Tem	. 131.	m le	Von	3 %	Ja I Cartan	mumuu Programe		Et a a	~ * ~ * ·	***************************************	W1:	18%		······································	L. TXI			7 % *	H*****************	······································	S ect y	* ****	**************************************	* 25 27	
L.	crown companitation rest	(XV)	ı Gilli) (21)	uik.	1,45		lo Coulcr) ()[]	2323 E	CIDI:	4834898	1,	/C	<u></u>	11	p B	lank:	YC	SIN	()		M5/	MS	D Sample Submitte	a: Yes/	No





April 08, 2008

Jay Johnson Stratus Environmental, inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861

Subject: Calscience Work Order No.:

08-03-2362

Client Reference:

ARCO 4977

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 3/27/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

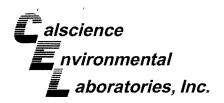
Sincerely,

Căiscience Environmentai

Laboratories, Inc.

Linda Scharpenberg

Project Manager





CASE NARRATIVE - 08-03-2362

Data Qualifiers - EPA 8260:

080405S01:

The % recovery for ethanol in the MS was bias high. The % recoveries were within criteria in the LCS/LCSD. The MS has been flagged "3" within the report.

"3" = LM, AY

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

AY = Matrix Interference Suspected





Stratus Environmental, inc.

3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861

Date Received:

Work Order No: Preparation:

Method:

03/27/08

08-03-2362 EPA 5030B

EPA 8015B (M)

Project: ARCO 4977

Page 1 of 2

		Lab Sample	Date/Time			Date	Date/Time	
Client Sample Number		Number	Collected	Matrix	Instrument	Prepared	Analyzed	QC Batch ID
MW-1		08-03-2362-1-D	03/25/08 08:45	Aqueous	GC 29	03/31/08	03/31/08 17:07	080331B01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>			
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L			
Surrogates:	REC (%)	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenzene	92	38-134						
MW-2		08-03-2362-2-E	03/25/08 08:19	Aqueous	GC 29	04/01/08	04/01/08 11:25	080331B02
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
Gasoline Range Organics (C6-C12)	16000	1200	25		ug/L			
Surrogates:	REC (%)	Control Limits		Qual				
1,4-Bromofluorobenzene	106	38-134						
MW-3		08-03-2362-3-D	03/25/08 07:53	Aqueous	GC 29	03/31/08	03/31/08 18:15	080331B01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>			
Gasoline Range Organics (C6-C12)	260	50	1		ug/L			
Surrogates:	REC (%)	Control Limits		Qual				
1,4-Bromofluorobenzene	100	38-134						
Method Blank		099-12-695-87	N/A	Aqueous	GC 29	03/31/08	03/31/08 10:21	080331B01
Parameter	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L			
Surrogates:	REC (%)	Control Limits		Qual				
1,4-Bromofluorobenzene	90	38-134						

RL - Reporting Limit

DF - Dilution Factor ,

Qual - Qualifiers



Stratus Environmental, inc.

3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861

Date Received:

03/27/08

Work Order No:

08-03-2362

Preparation:

EPA 5030B

Method:

EPA 8015B (M)

Project: ARCO 4977

Page 2 of 2

Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank		099-12-695-89	N/A	Aqueous	GC 29	03/31/08	04/01/08 02:08	080331B02
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>			
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L			
Surrogates:	REC (%)	Control Limits		Qual				
1,4-Bromofluorobenzene	92	38-134						



Stratus Environmental, inc.

3330 Cameron Park Drive, Suite 550

Cameron Park, CA 95682-8861

Date Received:

Work Order No:

Preparation: Method:

Units:

03/27/08

08-03-2362

EPA 5030B EPA 8260B

ug/L

Project: ARCO 4977										Pag	je 1 of 2
Client Sample Number				ib Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/T i Analy		QC Batch ID
MW-1			08-03-	2362-1-A	03/25/08 08:45	Aqueous	GC/MS Z	04/05/08	04/05 18:5		080405L01
Parameter	Result	RL	<u>DF</u>	Qual	<u>Parameter</u>			Result	RL	<u>DF</u>	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl	Ether (MTB	≣)	0.94	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alc	ohol (TBA)		ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Et	ther (DIPE)		ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl E	Ether (ETBE)		ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Me	thyl Ether (TA	AME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	,		ND	300	1	
Surrogates:	REC (%)	Control		Qual	Surrogates:			REC (%)	Control		Qual
		Limits			-				<u>Limits</u>		
1,2-Dichloroethane-d4	116	73-157			Dibromofluoro	methane		117	82-142		
Toluene-d8	101	82-112			1,4-Bromofluo	orobenzene		96	75-105		
MW-2			08-03-	2362-2-A	03/25/08 08:19	Aqueous	GC/MS Z	04/05/08	04/05 19:2		080405L01
<u>Parameter</u>	<u>Result</u>	RL	DF	<u>Qual</u>	<u>Parameter</u>			<u>Result</u>	RL	DF	<u>Qual</u>
Benzene	530	25	50		Methyl-t-Butyl	Ether (MTB	Ξ)	96	2.5	5	
1,2-Dibromoethane	ND	2.5	5		Tert-Butyl Alc			ND	50	5	
1,2-Dichloroethane	ND	2.5	5		Diisopropyl Et	ther (DIPE)		ND	2.5	5	
Ethylbenzene	790	25	50		Ethyl-t-Butyl E	,		ND	2.5	5	
Toluene	7.8	2.5	5		Tert-Amyl-Me	thyl Ether (TA	AME)	ND	2.5	5	
Xylenes (total)	470	25	5		Ethanol			ND	1500	5	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:			REC (%)	Control Limits		Qual
1.2-Dichloroethane-d4	108	73-157			Dibromofluoro	omethane		112	82-142		
Toluene-d8	104	82-112			1,4-Bromofluo			100	75-105		
MW-3		<u> </u>	08-03-	2362-3-A	03/25/08 07:53	Aqueous	GC/MS Z	04/05/08	04/05 19:5		080405L01
Parameter	Result	RL	DE	Qual	Parameter			Result	RL	DF	Qual
Benzene	0.91	0.50	1	<u>~~~~</u>	Methyl-t-Butyl	Ether (MTR	= 1	29	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alc	•	-,	100	10	1	
1,2-Dichloroethane	ND ND	0.50	1		Diisopropyl Et			ND	0.50	1	
Ethylbenzene	2.5	0.50	1		Ethyl-t-Butyl E			ND	0.50	1	
Toluene	2.5 0.71	0.50	1		Tert-Amyl-Me			ND	0.50	1	
Xylenes (total)	0.54	0.50	1		Ethanol	ary Luici (17	····-/	ND	300	1	
• • •	REC (%)	Control	1	Qual	Surrogates:			REC (%)	Control	'	Qual
Surrogates:	NEC (70)	Limits		<u> Quai</u>	Junogates.			17-0 / /ul	Limits		- uui
1.2-Dichloroethane-d4	114	73-157			Dibromofluoro	methane		114	82-142		
Toluene-d8	102	82-112			1,4-Bromofluo			100	75-105		
i diaerie-au	102	UZ-11Z			.,. 5.01101100	.,					

RL - Reporting Limit ,

DF - Dilution Factor ,



Stratus Environmental, inc.

Project: ARCO 4977

3330 Cameron Park Drive, Suite 550

Cameron Park, CA 95682-8861

Date Received:

Work Order No:

Preparation: Method:

Units:

03/27/08

08-03-2362

EPA 5030B EPA 8260B

ug/L

Page 2 of 2

Client Sample Number				b Sample Number	Date/Time Collected	Matrix	Instrument	1 Tepared		ed	QC Batch ID
Method Blank			099-12	-703-150	N/A	Aqueous	GC/MS Z	04/05/08	04/05/08 12:50		080405L01
<u>Parameter</u>	Result	<u>RL</u>	DF	Qual	<u>Parameter</u>			Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl	Ether (MTBI	Ξ)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alc	ohol (TBA)		ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Et	her (DIPE)		ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl E	ther (ETBE)		ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Me	thyl Ether (T	AME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol			ND	300	1	
Surrogates:	REC (%)	Control		Qual	Surrogates:			REC (%)	Control		<u>Qual</u>
		<u>Limits</u>							Limits		
1,2-Dichloroethane-d4	115	73-157			Dibromofluoro			108	82-142		
Toluene-d8	101	82-112			1,4-Bromofluc	robenzene		94	75-105		
Method Blank			099-12	-703-153	N/A	Aqueous	GC/MS BE	04/07/08	04/07/ 12:4		080407L01
Parameter	Result	RL	 DF	Qual	Parameter			Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl	Ether (MTBI	=)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butvi Alc	`	-,	ND	10	1	
1.2-Dichloroethane	ND	0.50	1		Diisopropyl Et	. ,		ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl E	ther (ETBE)		ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Me	, ,	AME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	- (•	ND	300	1	
Surrogates:	REC (%)	Control Limits		<u>Qual</u>	Surrogates:			REC (%)	Control Limits		<u>Qual</u>
1,2-Dichloroethane-d4	93	73-157			Dibromofluoro	methane		95	82-142		
Toluene-d8	101	82-112			1.4-Bromofluo			101	75-105		

Mulm

RL - Reporting Limit , DF - Dilution Factor ,

Qual - Qualifier



aboratories, Inc.

Stratus Environmental, inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861

Date Received: Work Order No: Preparation: Method:

03/27/08 08-03-2362 **EPA 5030B** EPA 8015B (M)

Project ARCO 4977

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number	
08-03-2343-6	Aqueous	GC 29	03/31/08		03/31/08	080331S01	
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers	
Gasoline Range Organics (C6-C12)	104	106	38-134	2	0-25		



aboratories, Inc.

Stratus Environmental, inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861

Date Received: Work Order No: Preparation: Method:

03/27/08 08-03-2362 EPA 5030B EPA 8015B (M)

Project ARCO 4977

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed		MS/MSD Batch Number 080331S02	
08-03-2442-4	Aqueous	GC 29	03/31/08		04/01/08		
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers	
Gasoline Range Organics (C6-C12)	101	101	38-134	0	0-25		

RPD - Relative Percent Difference, CL - Control Limit



aboratories, Inc.

Stratus Environmental, inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861 Date Received: Work Order No: Preparation: Method: 03/27/08 08-03-2362 EPA 5030B EPA 8260B

Project ARCO 4977

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number	
08-03-2340-9	Aqueou	us GC/MS Z	04/05/08	04/05/08		080405S01	
Name of the second seco							
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers	
Benzene	107	102	86-122	5	0-8		
Carbon Tetrachloride	115	110	78-138	5	0-9		
Chlorobenzene	106	103	90-120	3	0-9		
1,2-Dibromoethane	100	94	70-130	6	0-30		
1,2-Dichlorobenzene	104	100	89-119	4	0-10		
1,1-Dichloroethene	111	106	52-142	5	0-23		
Ethylbenzene	107	104	70-130	3	0-30		
Toluene	107	103	85-127	4	0-12		
Trichloroethene	106	100	78-126	6	0-10		
Vinyl Chloride	113	109	56-140	3	0-21		
Methyl-t-Butyl Ether (MTBE)	92	84	64-136	5	0-28		
Tert-Butyl Alcohol (TBA)	104	102	27-183	2	0-60		
Diisopropyl Ether (DIPE)	114	110	78-126	4	0-16		
Ethyl-t-Butyl Ether (ETBE)	96	93	67-133	3	0-21		
Tert-Amyl-Methyl Ether (TAME)	83	80	63-141	3	0-21		
Ethanol	169	155	11-167	9	0-64	3	







Stratus Environmental, inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861 Date Received: Work Order No: Preparation: Method:

64-136

27-183

78-126

67-133

63-141

11-167

0

12

7

2

3

21

0-28

0-60

0-16

0-21 0-21

0-64

03/27/08 08-03-2362 EPA 5030B EPA 8260B

Project ARCO 4977

Methyl-t-Butyl Ether (MTBE)

Tert-Butyl Alcohol (TBA)

Diisopropyl Ether (DIPE)

Ethanol

Ethyl-t-Butyl Ether (ETBE)

Tert-Amyl-Methyl Ether (TAME)

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number	
08-04-0548-3	Aqueous	GC/MS BB	04/07/08	04/07/08		080407S01	
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers	
Berizene	109	107	86-122	1	0-8		
Carbon Tetrachloride	89	89	78-138	0	0-9		
Chlorobenzene	100	102	90-120	1	0-9		
1,2-Dibromoethane	97	95	70-130	2	0-30		
1,2-Dichlorobenzene	99	96	89-119	3	0-10		
1,1-Dichloroethene	87	88	52-142	0	0-23		
Ethylbenzene	98	97	70-130	1	0-30		
Toluene	103	101	85-127	2	0-12		
Trichloroethene	100	99	78-126	1	0-10		
Vinyl Chloride	81	83	56-140	2	0-21		

85

96

89

90

93

51

85

108

83

88

96

62



Quality Control - LCS/LCS Duplicate



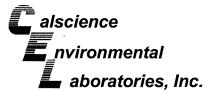
Stratus Environmental, inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861 Date Received: Work Order No: Preparation: Method: N/A 08-03-2362 EPA 5030B EPA 8015B (M)

Project: ARCO 4977

Quality Control Sample ID	Matrix	Matrix Instrument		Date Prepared		Date nalyzed	LCS/LCSD Batc Number	h
099-12-695-87	Aqueous	GC 2	29	03/31/08		3/31/08	080331B01	
Parameter	LCS %	%REC	LCSD %R	REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	110)	107		78-120	3	0-20	

Muhan_

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate

aboratories, inc.

Stratus Environmental, inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861 Date Received: Work Order No: Preparation: Method: N/A 08-03-2362 EPA 5030B EPA 8015B (M)

Project: ARCO 4977

Quality Control Sample ID	Matrix	Instrument	Date Prepare		ate yzed	LCS/LCSD Batch Number	1
099-12-695-89	Aqueous	GC 29	03/31/0	8 04/0	1/08	080331B02	
<u>Parameter</u>	LCS %	6REC LCSE	%REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	98	10	6	78-120	7	0-20	

RPD - Relative Percent Difference ,
7440 Lincoln



Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc. 3330 Cameron Park Drive, Suite 550

Cameron Park, CA 95682-8861

Date Received: Work Order No: Preparation:

N/A 08-03-2362 EPA 5030B

Method:

EPA 8260B

Project: ARCO 4977

Quality Control Sample ID	Matrix	Instrument	Date Prepared		ate yzed	LCS/LCSD Bat Number	ch
099-12-703-150	Aqueous	GC/MS Z	04/05/08	04/0	5/08	080405L01	
<u>Parameter</u>	LCS %F	REC LCSD S	<u>%REC</u> %	REC CL	RPD	RPD CL	Qualifiers
Benzene	102	100		87-117	1	0-7	
Carbon Tetrachloride	107	108		78-132	1	0-8	
Chlorobenzene	101	102		88-118	1	0-8	
1,2-Dibromoethane	96	100		80-120	4	0-20	
1,2-Dichlorobenzene	99	100		88-118	0	0-8	
1,1-Dichloroethene	102	102		71-131	0	0-14	
Ethylbenzene	103	104		80-120	0	0-20	
Toluene	103	101		85-127	2	0-7	
Trichloroethene	102	102		85-121	0	0-11	
Vinyl Chloride	102	106		64-136	3	0-10	
Methyl-t-Butyl Ether (MTBE)	91	93		67-133	3	0-16	
Tert-Butyl Alcohol (TBA)	96	95		34-154	1	0-19	
Diisopropyl Ether (DIPE)	103	103		80-122	0	0-8	
Ethyl-t-Butyl Ether (ETBE)	92	92		73-127	0	0-11	
Tert-Amyl-Methyl Ether (TAME)	84	84		69-135	0	0-12	
Ethanol	98	100		34-124	2	0-44	

Muhan_

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Stratus Environmental, inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861 Date Received: Work Order No: Preparation: Method: N/A 08-03-2362 EPA 5030B EPA 8260B

Project: ARCO 4977

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Da Analy		LCS/LCSD Bate Number	ch
099-12-703-153	Aqueous GC/MS BB 04/07/08		04/07	/08	080407L01		
Parameter	LCS %	REC LCSD 9	<u>%REC</u> <u>%</u>	REC CL	RPD	RPD CL	Qualifiers
Benzene	104	108		87-117	3	0-7	
Carbon Tetrachloride	92	91		78-132	1	0-8	
Chlorobenzene	102	103		88-118	1	0-8	
1,2-Dibromoethane	93	94		80-120	0	0-20	
1,2-Dichlorobenzene	98	98		88-118	0	0-8	
1,1-Dichloroethene	90	90		71-131	0	0-14	
Ethylbenzene	103	103		80-120	1	0-20	
Toluene	101	102		85-127	1	0-7	
Trichloroethene	100	101		85-121	1	0-11	
Vinyl Chloride	83	81		64-136	2	0-10	
Methyl-t-Butyl Ether (MTBE)	81	82		67-133	1	0-16	
Tert-Butyl Alcohol (TBA)	96	95		34-154	1	0-19	
Diisopropyl Ether (DIPE)	85	88		80-122	3	0-8	
Ethyl-t-Butyl Ether (ETBE)	83	87		73-127	5	0-11	
Tert-Amyl-Methyl Ether (TAME)	90	91		69-135	2	0-12	
Ethanol	61 61			34-124	1	0-44	

Muhan_



Glossary of Terms and Qualifiers



Work Order Number: 08-03-2362

Qualifier	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
Α	Result is the average of all dilutions, as defined by the method.
В	Analyte was present in the associated method blank.
С	Analyte presence was not confirmed on primary column.
Ε	Concentration exceeds the calibration range.
Н	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
Χ	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Page	. 1	of	1

Atlantic Richfield Company

A BP affiliated company

Chain of Custody Record

Project Name:

ARCO 4977

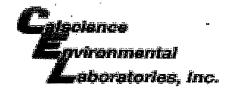
BP BU/AR Region/Enfos Segment: State or Lead Regulatory Agency:

BP >	Americas >	· West >	Retail >	Alameda :	>4

Requested Due Date (mm/dd/yy):

On-site	Time:	700	00	Temp:	4	58	
Off-site	Time:	9:	00	Temp:	5	8	
Sky Con	ditions:		Cla	udy			
Meteoro	logical E	events:	N	A			
Wind Sp	eed:		0	Directio	n:	NA	-

Lab 1	Name: Calscience						BP/AR Facility No.: 4977 Consultant/Contra								ctor:	Stratus Environmental, Inc.															
Addr	ess: 7440 Lincoln Way						BP/AR Facility Address: 2770 Castro Valley Road, Castro Valley A						Address: 3330 Cameron Park Drive, Suite 550																		
	Garden Grove, CA 92841					_ _	Site Lat/Long:	Site Lat/Long:							Cameron Park, CA 95682																
	M: Linda Scharpenberg					_ _	California Global I	D No).:			0089							Cor	Consultant/Contractor Project No.:											
	Fax: 714-895-5494 714-895-75	01(fax)				ᆜᆜ	Enfos Project No.:			G0	C2H	[-002]	<u> </u>						Cor	sultar	ıt/Co	ntra	ctor]	PM:			Jay	/ John	son	_	
	R PM Contact: Paul Supple					_ _	Provision or OOC	(circ	le or	ne)		Pro	visio	n					Tele	/Fax:		(53	0) 6	76-6	5000	/ (5	30) 6	576-6	005		
Addr	ess: 2010 Crow Canyon Place, Suit	e 150				_ _	Phase/WBS:		04-	Mon	itorii	ıg							4	ort Ty							-		with EDI	7	
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Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air	Laboratory No.	No. of Containers	Unpreserved	H ₂ SO ₄	HNO ₃	HCI	Methanol		BTEX/Oxy* by 8260	1,2-DCA	Ethanol by 8260	EDB	GRO by 8015m						0,			Con BE, T	nt Lat/Lonments AME, E	_	
1	MW-1	8:45	3/25/6	П	\mathbf{x}			6				х			х	X	х	х	_						Ī						
2	MW-2	8:19	1		x			6		Π		х			X	x	х	х	x						╢						
	MW-3	7:53		11-1	x	\top		6	┢	1	1	x			X	Х	X	X						\vdash	忊				 		
	TB-4977 3/25/08 - 6:00	6:00	1	1	x			3	┢			x			X	X	X	V	17				 		HC	HOLD					
5											1								1					 	1						
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<u> </u>	Custody Seals In Place: Yes / 1	No 1	Temr	Bla	nk: `	Yes/1	No Cooler	Tem:	ກ ດກ	Rec	eint		°F	7/C		Т,	in P	lank	· Ve	s / No		1	MC	/M/S	ם פ	amr	le Su	hmii	ted: Yes	/ N T	
<u> </u>	- Castoa, Coats III I 1400. 1007					~ ~ ~ ~	Cooler	. 0111	V (1)	100	VIP t	<u> </u>		<u> </u>			ם עב	·imir	. 10	3 / INC			TAYIN	TATO	ای س	amp	10 00	JIIII	icu. i es	1 11	U



WORK ORDER #: **08** - **0 3** - **2 3 6 2**

Cooler _____ of ____

SAMPLE RECEIPT FORM

CLIENT: Stratus	DATE: 3/27/08
TEMPERATURE - SAMPLES RECEIVED BY:	
CALSCIENCE COURIER: Chilled, cooler with temperature blank provided. Chilled, cooler without temperature blank. Chilled and placed in cooler with wet ice. Ambient and placed in cooler with wet ice. Ambient temperature. C Temperature blank.	LABORATORY (Other than Calscience Courier): 3.2 °C Temperature blank. °C IR thermometer. Ambient temperature.
CHOTODY OF AL INTACT.	
CUSTODY SEAL INTACT: Sample(s): Cooler: No (Not I	ntact) : Not Present: Initial:
SAMPLE CONDITION:	
Chain-Of-Custody document(s) received with samples	
COMMENTS:	

ATTACHMENT

FIELD PROCEDURES FOR GROUNDWATER SAMPLING

The sampling procedures for groundwater monitoring events are contained in this appendix.

Equipment Calibration

Standard groundwater sampling equipment – pH/Conductivity/Temperature meter, and dissolved oxygen (DO) meters are calibrated prior to all field work. All calibration is conducted in accordance with equipment manufacturer's recommended procedure and buffer solutions. MSDS for all buffer solutions are maintained in Stratus vehicles. Calibration is completed everyday prior to field work and also once a week. The pH probe is calibrated for a pH of 7.0 daily and for 4.0, 7.0 and 10.0 weekly. The conductivity probe is calibrated for 1413 µs daily and 1413 µs and 447 µs weekly. The temperature probe is calibrated weekly with a NIST-traceable thermometer. The DO probe is calibrated for 100% oxygen daily and 0% and 100% oxygen weekly. All calibration logs are maintained in the Stratus office.

Groundwater and Liquid-Phase Petroleum Hydrocarbon Depth Assessment

Prior to measuring the depth to liquid in the well, the well caps are removed and the liquid level allowed to stabilize. A water/hydrocarbon interface probe is used to assess the liquid-phase petroleum hydrocarbon (LPH) thickness, if present, and a water level indicator is used to measure the groundwater depth in monitoring wells that do not contain LPH. Depth to groundwater or LPH is measured from a datum point at the top of each monitoring well casing. The datum point is typically a notch cut in the north side of the casing edge. If a water level indicator is used, the tip is subjectively analyzed for hydrocarbon sheen.

Subjective Analysis of Groundwater

Prior to purging, a water sample is collected from the monitoring well for subjective assessment. The sample is retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer is then retrieved, and the sample contained within the bailer is examined for floating LPH and the appearance of a LPH sheen.

Monitoring Well Sampling

In many cases, determining whether to purge or not to purge wells prior to sample collection is made in the field and is often based on depth to water relative to the screen interval of the well. Site-specific field data sheets present details associated with the purge method and equipment used.

Monitoring wells, when purged, use a pump or bailer until pH, temperature, and conductivity of the purge water has stabilized and a minimum of three well volumes of water has been removed. Field measuring equipment is calibrated and maintained according to the manufacturer's instructions. If three well volumes cannot be removed in one half hour's time the well is allowed to recharge to 80% of original level. After recharging, a groundwater sample is then collected from each of the wells using disposable bailers.

A Teflon bailer, electric submersible or bladder pump will be the only equipment used for well sampling. When samples for volatile organic analysis are being collected, the pump flow will be regulated at approximately 100 milliliters per minute to minimize pump effluent turbulence and aeration. Glass bottles of at least 40-milliliters volume and fitted with Teflon-lined septa will be used in sampling for volatile organics. These bottles will be filled completely to prevent air accumulation in the bottle. A positive meniscus forms when the bottle is completely full. A convex Teflon septum will be placed over the positive meniscus to eliminate air. After the bottle is capped, it is inverted and tapped to verify that it contains no air bubbles. The sample containers for other parameters will be filled, filtered as required, and capped. Glass and plastic bottles used by Stratus to collect groundwater samples are supplied by the laboratory.

Groundwater Sample Labeling and Preservation

Samples are collected in appropriate containers supplied by the laboratory. All required chemical preservation is added to the bottles prior to delivery to Stratus. Sample label information includes a unique sample identification number, job identification number, date, and time. After labeling, all groundwater samples are placed in a Ziploc[®] type bag and placed in an ice chest cooled to approximately 4° Celsius. Upon arriving at Stratus' office the samples are transferred to a locked refrigerator cooled to approximately 4° Celsius. Chemical preservation is controlled by the required analysis and is noted on the chain-of-custody form. Trip and temperature blanks supplied by the laboratory accompany the groundwater sample containers and groundwater samples.

Sample Identification and Chain-of-Custody Procedures

Sample identification and chain-of-custody procedures document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis has a label affixed to identify the job number, sampler, date and time of sample collection, and a sample number unique to that sample. This information, in addition to a description of the sample, field measurements made, sampling methodology, names of on-site personnel, and any other pertinent field observations, is recorded in the field records. The samples are analyzed by a California-certified laboratory.

A chain-of-custody form is used to record possession of the sample from time of collection to its arrival at the laboratory. When the samples are shipped, the person in custody of them relinquishes the samples by signing the chain-of-custody form and noting the time. The sample-control officer at the laboratory verifies sample integrity and confirms that the samples are collected in the proper containers, preserved correctly, and

contain adequate volumes for analysis. These conditions are noted on a Laboratory Sample Receipt Checklist that becomes part of the laboratory report upon request.

If these conditions are met, each sample is assigned a unique log number for identification throughout analysis and reporting. The log number is recorded on the chain-of-custody form and in the legally-required log book maintained by the laboratory. The sample description, date received, client's name, and other relevant information is also recorded.

Equipment Cleaning

All reusable sampling equipments are cleaned using phosphate-free detergents and rinsed with de-ionized water.

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: 1Q08 GEO_WELL 4977

Facility Global ID: T0600100089
Facility Name: ARCO #4977

Submittal Date/Time: 4/16/2008 2:07:45 PM

Confirmation Number: 5553072869

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: 6301876962

Date/Time of Submittal: 4/16/2008 2:09:20 PM

Facility Global ID: T0600100089 Facility Name: ARCO #4977

Submittal Title: 1Q08 GW Monitoring **Submittal Type:** GW Monitoring Report

Click here to view the detections report for this upload.

ARCO #4977 Regional Board - Case #: 01-0097 2770 CASTRO VALLEY SAN FRANCISCO BAY RWQCB (REGION 2) CASTRO VALLEY, CA 94546 Local Agency (lead agency) - Case #: RO0002436 ALAMEDA COUNTY LOP - (PK) CONF# TITLE QUARTER 6301876962 1Q08 GW Monitoring Q1 2008 SUBMITTED BY **SUBMIT DATE STATUS** PENDING REVIEW Broadbent & Associates, Inc. 4/16/2008 SAMPLE DETECTIONS REPORT # FIELD POINTS SAMPLED 3 # FIELD POINTS WITH DETECTIONS 3 # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL 2 SAMPLE MATRIX TYPES WATER METHOD QA/QC REPORT METHODS USED M8015,SW8260B TESTED FOR REQUIRED ANALYTES? LAB NOTE DATA QUALIFIERS QA/QC FOR 8021/8260 SERIES SAMPLES TECHNICAL HOLDING TIME VIOLATIONS 0 METHOD HOLDING TIME VIOLATIONS LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT n LAB BLANK DETECTIONS 0 DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING? Υ - LAB METHOD BLANK - MATRIX SPIKE Υ - MATRIX SPIKE DUPLICATE Υ - BLANK SPIKE Υ - SURROGATE SPIKE WATER SAMPLES FOR 8021/8260 SERIES MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% Ν MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% SURROGATE SPIKES % RECOVERY BETWEEN 85-115% Ν BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%

SOIL SAMPLES FOR 8021/8260 SERIES MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% n/a MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% n/a SURROGATE SPIKES % RECOVERY BETWEEN 70-125% n/a BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% n/a FIELD QC SAMPLES COLLECTED DETECTIONS > REPDL SAMPLE **QCTB SAMPLES** 0 Ν 0 **QCEB SAMPLES** Ν 0 QCAB SAMPLES Ν

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CONTACT SITE $\underline{\text{ADMINISTRATOR}}$.