



Atlantic Richfield Company
(a BP affiliated company)

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

Re: Third Quarter 2007 Ground-Water Monitoring and Remediation System Status Report
Atlantic Richfield Company (a BP affiliated company) Station #2111
1156 Davis Street
San Leandro, California
ACEH Case #RO0000494

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

Submitted by:

Paul Supple
Environmental Business Manger

RECEIVED

9:16 am, Nov 02, 2007

Alameda County
Environmental Health



**Third Quarter 2007 Ground-Water Monitoring
and
Remediation System Status Report**
Atlantic Richfield Company Station #2111
1156 Davis Street
San Leandro, 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
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30 October 2007

Project No. 06-08-615

Broadbent & Associates, Inc.
1324 Mangrove Ave., Suite 212
Chico, CA 95926
Voice (530) 566-1400
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30 October 2007

Project No. 06-08-615

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

Attn.: Mr. Paul Supple

Re: Third Quarter 2007 Ground-Water Monitoring and Remediation System Status Report,
Atlantic Richfield Company (a BP affiliated company) Station #2111, 1156 Davis Street,
San Leandro, California; ACEH Case #RO0000494

Dear Mr. Supple:

Attached is the *Third Quarter 2007 Ground-Water Monitoring and Remediation System Status Report* for Atlantic Richfield Company Station #2111 (herein referred to as Station #2111) located at 1156 Davis Street, San Leandro, California (Site). This report presents results of ground-water monitoring conducted at Station #2111 during the Third Quarter 2007, and summarizes the performance of the remediation system during the same period.

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

Sincerely,

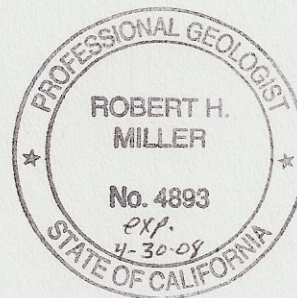
BROADBENT & ASSOCIATES, INC.

A handwritten signature in cursive script that reads 'Thomas A. Venus'.

Thomas A. Venus, P.E.
Senior Engineer

A handwritten signature in cursive script that reads 'Robert H. Miller'.

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



Enclosures

cc: Mr. Steven Plunkett, Alameda County Environmental Health (Submitted via ACEH ftp site)
Mr. Karl Busche, City of San Leandro Environmental Services Division, 835 East 14th Street,
San Leandro, California 94577
Electronic copy uploaded to GeoTracker

**STATION #2111 QUARTERLY GROUND-WATER MONITORING AND
REMEDATION SYSTEM STATUS REPORT**

Facility: #2111	Address:	<u>1156 Davis Street, San Leandro, California</u>
Environmental Business Manager:		<u>Mr. Paul Supple</u>
Consulting Co./Contact Persons:		<u>Broadbent & Associates, Inc.(BAI)/Rob Miller & Tom Venus (530) 566-1400</u>
Consultant Project No.:		<u>06-08-615</u>
Primary Agency/Regulatory ID No.:		<u>Alameda County Environmental Health (ACEH) ACEH Case #RO0000494</u>
Facility Permits/Permitting Agency:		<u>City of San Leandro Special Discharge Permit SD-036; Bay Area Air Quality Management District Plant 16189</u>

WORK PERFORMED THIS QUARTER (Third Quarter 2007):

1. Prepared and submitted Second Quarter 2007 report.
2. Conducted ground-water monitoring/sampling for Third Quarter 2007. Work performed on 17 July 2007 by Stratus Environmental, Inc (Stratus).
3. Performed routine operation, maintenance and performance monitoring of the Dual-Phase Extraction (DPE) treatment system. Work performed by Stratus.
4. Submitted monthly discharge reports for July, August and September 2007 to the City of San Leandro. Work performed by Stratus.

WORK PROPOSED FOR NEXT QUARTER (Fourth Quarter 2007):

1. Prepared and submitted this Third Quarter 2007 Ground-Water Monitoring and Remediation System Status Report (contained herein).
2. Conduct quarterly ground-water monitoring/sampling for Fourth Quarter 2007.
3. Continue operation, maintenance and performance monitoring of the DPE treatment system.
4. Submit monthly discharge reports for October, November and December 2007.

QUARTERLY RESULTS SUMMARY:

Current phase of project:	<u>Ground-Water Monitoring/Sampling/Remediation</u>
Frequency of ground-water monitoring:	<u>Quarterly: MW-1 through MW-8</u>
Frequency of ground-water sampling:	<u>Quarterly: MW-1 through MW-5, MW-7 and MW-8 Annually (3Q): MW-6</u>
Is free product (FP) present on-site:	<u>No</u>
FP recovered this quarter:	<u>0 gallons</u>
Cumulative FP recovered:	<u>1.44 gallons (MW-2)</u>
Depth to ground-water (below TOC):	<u>14.08 ft (MW-6) to 23.75 ft (MW-7)</u>
General ground-water flow direction:	<u>Southeast</u>
Approximate hydraulic gradient:	<u>0.05 ft/ft</u>
Current remediation techniques:	<u>DPE treatment system</u>
System startup:	<u>01/29/2007</u>
Extraction wells:	<u>SVE: V-1, V-2, V-3, MW-1, MW-3, MW-7, MW-8 GWE: MW-2</u>
Frequency of DPE system field monitoring:	<u>Bi-weekly</u>
Frequency of DPE system sampling:	<u>Monthly</u>

QUARTERLY RESULTS SUMMARY (Continued):

Gallons of ground water treated and discharged:	This Quarter	Cumulative	
	160,494	591,443	
Total operation hours to date:	332	1460	
Mass Removal (pounds)			
Gasoline range organics (GRO):	0.579 (GWE)	140.6 (SVE)	4.261 (GWE) 298.34 (SVE)
Benzene:	0.001 (GWE)		0.038 (GWE)
Methyl-tert butyl ether (MTBE):	0.691 (GWE)		4.639 (GWE)
Ground-water DPE system influent sample results (µg/L):	7/2/2007	8/1/2007	9/5/2007
GRO:	370	470	410
Benzene:	<5.0	5.5	5.6
MTBE:	400	600	580
Ground-water DPE system effluent sample results (µg/L):			
GRO:	<50	<50	<50
Benzene:	<0.50	<0.50	<0.50
MTBE:	<0.50	<0.50	<0.50
Soil vapor DPE system influent sample results (µg/L):			
GRO:	180	660	1,200
Benzene:	<0.50	<1.0	0.79
MTBE:	11	11	14
Soil vapor DPE system effluent sample results (µg/L):			
GRO:	<10	<10	<50
Benzene:	<0.10	<0.10	<0.50
MTBE:	<0.50	<0.50	<0.50

DISCUSSION:

Third quarter 2007 ground-water monitoring and sampling was conducted at Station #2111 on 17 July 2007 by Stratus personnel. Water levels were gauged in the eight wells at the Site. No irregularities were noted during water level gauging. Depth to water measurements ranged from 14.08 ft at MW-6 to 23.75 ft at MW-7. Resulting ground-water surface elevations ranged from 23.03 ft above mean sea level in well MW-6 to 14.79 ft at well MW-7. Water level elevations were between historic minimum and maximum ranges for each well, as summarized in Table 1, with the following exceptions: water level elevations reached historic minimum values in wells MW-1, MW-2, MW-3, and MW-7. Water level elevations yielded a potentiometric ground-water flow direction and gradient to the southeast at approximately 0.05 ft/ft, generally inconsistent 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. Historic free product thickness and cumulative product recovery from well MW-2 is presented in Table 4. 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. No irregularities were reported during sampling this quarter. 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 noted that the GRO concentrations in the samples collected in wells MW-2, MW-5, MW-7 and MW-8 were 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.

Concentrations of GRO were detected above the laboratory reporting limit in four of the eight wells sampled at concentrations up to 1,100 micrograms per liter ($\mu\text{g/L}$) in well MW-2. Benzene was detected above the laboratory reporting limit in one of the eight wells sampled at a concentration of 53 $\mu\text{g/L}$ in well MW-2. Ethylbenzene was detected above the laboratory reporting limit in one of the eight wells sampled at a concentration of 28 $\mu\text{g/L}$ in well MW-2. TAME was detected above the laboratory reporting limit in four of the eight wells sampled at concentrations up to 2.3 $\mu\text{g/L}$ in well MW-1. TBA was detected above the laboratory reporting limit in three of the eight wells sampled at concentrations up to 1,100 $\mu\text{g/L}$ in well MW-5. MTBE was detected above the laboratory reporting limit in seven of the eight wells sampled at concentrations up to 1,300 $\mu\text{g/L}$ in well MW-2. The remaining fuel additives and oxygenates were not detected above their laboratory reporting limits in the eight wells sampled this quarter.

Detected analyte concentrations were within the historic minimum and maximum ranges recorded for each well, with the following exceptions: the concentration of GRO in wells MW-2 and MW-7 reached historic minimum values of 1,100 $\mu\text{g/L}$ and 560 $\mu\text{g/L}$, respectively, and the concentration of MTBE in well MW-5 reached a historic minimum value of 6.6 $\mu\text{g/L}$. 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.

For the Third Quarter 2007 period from 2 July 2007 to 17 September 2007, the DPE system reportedly operated approximately 18 percent of the time. During this period, a total of 160,494 gallons of ground water was treated and discharged. During the Third Quarter 2007, approximately 141 pounds of GRO (23.11 gallons), approximately 0.001 pounds of benzene (0.0001 gallons), and approximately 0.691 pounds of MTBE (0.1118 gallons) was removed. Ground-water extraction system performance and analytical data is summarized in Tables 5, 6 and 7. Soil vapor extraction system performance and analytical data is summarized in Tables 8, 9 and 10.

The DPE system operated for approximately 20 days between 2 July 2007 and 17 September 2007 based on the hour meter reading. Stratus found the system non-operational upon arrival at the Site on 10 July 2007 due to a high liquid level in the oil/water separator. The filters were changed and then the system was restarted. Stratus found the system again non-operational upon arrival at the Site on 17 July 2007 due to a high water level in the air stripper. The system was restarted before departing from the Site. Stratus found the system non-operational upon arrival at the Site on 1 August 2007 due to a high water level in the air stripper. The system was restarted, samples were collected and then the system was shut down pending receipt of the laboratory results. On 7 August 2007 Stratus restarted the system after receiving the analytical results from the sample collected on 1 August 2007. Stratus found the system non-operational upon arrival at the Site on 20 August 2007 due to a high liquid level in the oil/water separator. The system was restarted prior to departure. Stratus found the system non-operational upon arrival at the site on 5 September 2007 due to a high liquid level in the oil/water separator. The system was restarted, samples were collected, and then the system was shut down pending receipt of laboratory

results. On 11 September 2007 Stratus restarted the system after receiving the analytical results from the sample collected on 5 September 2007. Stratus found the system again non-operational upon arrival at the Site on 17 September 2007 due to a high liquid level in the oil/water separator. Following maintenance on the float levels within the oil/water separator, an attempt was made to restart the system. The system was then shut down again due to a high liquid level in the oil/water separator. Further maintenance and troubleshooting will be conducted in October 2007 and the system will be restarted following these procedures. Copies of Stratus' remediation system operation and maintenance data packages for Third Quarter 2007 are contained within Appendix C. Copies of Stratus' remediation system monthly discharge reports for Third Quarter 2007 are contained within Appendix D.

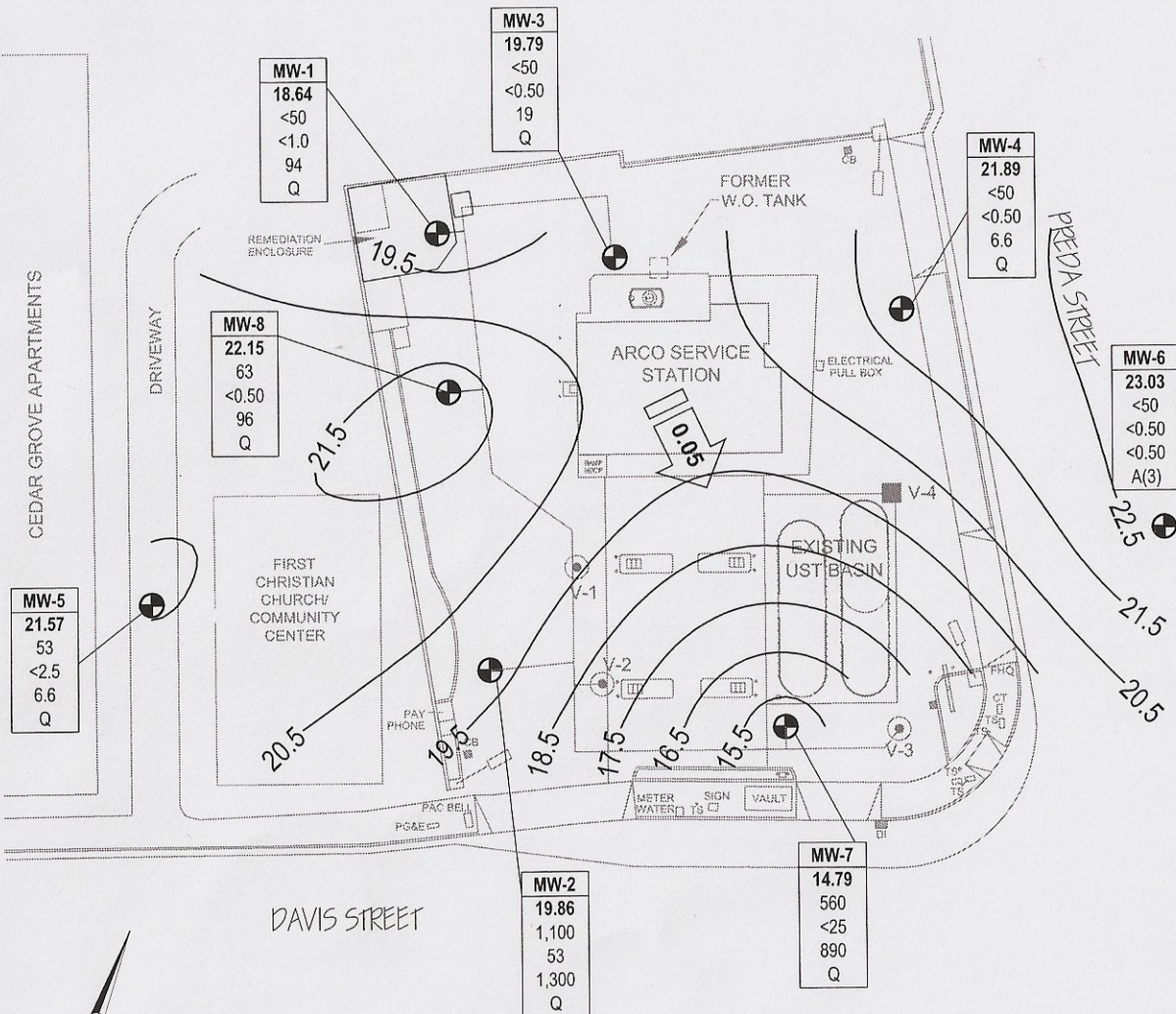
CLOSURE:

The findings presented in this report are based upon: observations of Stratus field personnel (see Appendices A, C, D), 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 – 17 July 2007
- Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
- Table 2. Summary of Fuel Additives Analytical Data
- Table 3. Historical Ground-Water Flow Direction and Gradient
- Table 4. Approximate Cumulative Floating Product Recovered
- Table 5. Soil Vapor Extraction System and Ground-Water Extraction System Monthly Discharge Analytical Results Summary
- Table 6. Ground-Water Extraction System Performance Data
- Table 7. Ground-Water Extraction System Effluent Data
- Table 8. Operational Uptime Information of the Soil Vapor Extraction System
- Table 9. Soil Vapor Extraction System Flow Rates and Air Sample Analytical Results
- Table 10. Soil Vapor Extraction and Emission Rates
- Figure 1. Cumulative GWE Mass Removal for GRO, Benzene, and MTBE

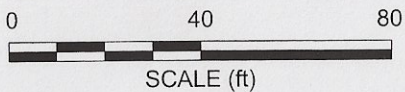
- Figure 2. GWE Influent Concentrations for GRO, Benzene, and MTBE
- Figure 3. SVE System Influent Concentration vs. Time
- Figure 4. SVE System Cumulative GRO Mass Removed vs. Time
- Appendix A. Stratus Ground-Water Sampling Data Package (Includes Field Data Sheets and Laboratory Analytical Report with Chain-of-Custody Documentation)
- Appendix B. GeoTracker Upload Confirmations
- Appendix C. Stratus Remediation System Operation and Maintenance Data Packages (Includes Field Data Sheets, Laboratory Reports, and Chain-of-Custody Documentation)
- Appendix D. Stratus Remediation System Monthly Discharge Reports (Includes Brief Statements Summarizing Operations and Discharge Summary Tables)



LEGEND

- MONITORING WELL LOCATION
- VAPOR EXTRACTION WELL LOCATION
- DESTROYED WELL LOCATION
- Well
- ELEV GROUND-WATER ELEVATION (FT MSL)
- GRO CONCENTRATIONS OF GRO, BENZENE & MTBE IN MICROGRAMS PER LITER (µg/L)
- Benzene
- MTBE
- A/Q SAMPLING FREQUENCY
- ← 0.05 GROUND-WATER FLOW DIRECTION AND GRADIENT (FT/FT)
- 22.5 GROUND-WATER ELEVATION CONTOUR (FT MSL)
- Q SAMPLED QUARTERLY
- A(3) SAMPLED ANNUALLY, THIRD QUARTER
- < NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMIT
- NS NOT SAMPLED
- NM NOT MEASURED
- WELL NOT USED TO GENERATE CONTOURS

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.: 06-08-615 Date: 10/15/07

Station #2111
1156 Davis Street
San Leandro, California

Ground-Water Elevation Contours
and Analytical Summary Map
17 July 2007

Drawing

1

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

Station #2111, 1156 Davis St, San Leandro, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-1															
6/26/2000	--		39.60	12.50	26.00	16.46	23.14	--	--	--	--	--	--	--	--
7/20/2000	--		39.60	12.50	26.00	16.89	22.71	360	110	<0.5	<0.5	2.7	2,100	--	--
9/19/2000	--		39.60	12.50	26.00	17.62	21.98	290	76	<0.5	<0.5	2.3	1,500	--	--
12/21/2000	--		39.60	12.50	26.00	17.39	22.21	257	64	2.89	1.31	4.57	1,080/1,060	--	--
3/13/2001	--		39.60	12.50	26.00	15.70	23.90	<500	52.5	<5.0	<5.0	<5.0	1,430/1,370	--	--
9/18/2001	--		39.60	12.50	26.00	18.24	21.36	<500	64	7.3	<5.0	52	810/1,100	--	--
12/28/2001	--		39.60	12.50	26.00	15.95	23.65	<500	<5.0	<5.0	5	22	1,200/1,100	--	--
3/14/2002	--		39.60	12.50	26.00	16.01	23.59	<50	<0.5	<0.5	<0.5	<0.5	34/40	--	--
4/23/2002	--		39.60	12.50	26.00	15.43	24.17	<50	<0.5	<0.5	<0.5	<0.5	30	--	--
7/17/2002	NP		39.60	12.50	26.00	17.50	22.10	<50	1.2	<0.50	<0.50	<0.50	29	6.9	6.9
10/9/2002	--	c	39.60	12.50	26.00	18.27	21.33	240	4.9	<1.0	4.1	7.0	290	6.5	6.5
1/13/2003	--	c	39.60	12.50	26.00	15.37	24.23	760	34	11	17	56	300	6.8	6.8
04/07/03	--		39.60	12.50	26.00	16.61	22.99	<50	<0.50	<0.50	<0.50	<0.50	22	6.8	6.8
7/9/2003	--		39.60	12.50	26.00	17.27	22.33	<2,500	<25	<25	<25	<25	690	6.7	6.7
02/05/2004	NP	m	39.49	12.50	26.00	16.28	23.21	2,800	31	<25	<25	<25	1,100	0.9	6.5
04/05/2004	NP		39.49	12.50	26.00	16.25	23.24	5,800	46	<25	<25	<25	1,700	1.0	--
07/13/2004	NP		39.49	12.50	26.00	17.57	21.92	<1,000	<10	<10	<10	<10	730	0.5	6.6
11/04/2004	NP		39.49	12.50	26.00	17.78	21.71	560	<5.0	<5.0	<5.0	<5.0	380	0.8	6.5
01/20/2005	NP		39.49	12.50	26.00	15.50	23.99	670	<5.0	<5.0	<5.0	<5.0	570	0.6	6.0
04/11/2005	NP		39.49	12.50	26.00	14.82	24.67	<2,500	<25	<25	<25	25	1,100	0.9	6.9
08/01/2005	NP		39.49	12.50	26.00	16.77	22.72	2,200	33	<10	110	<10	1,400	1.27	7.3
10/21/2005	NP		39.49	12.50	26.00	17.71	21.78	<2,500	<25	<25	<25	<25	970	1.17	6.6
01/18/2006	NP	n	39.49	12.50	26.00	14.70	24.79	300	<2.5	<2.5	<2.5	<2.5	330	1.07	6.6
04/14/2006	NP		39.49	12.50	26.00	13.41	26.08	330	<2.5	<2.5	<2.5	<2.5	310	0.79	6.6
7/19/2006	NP	q	39.49	12.50	26.00	15.86	23.63	<250	<2.5	<2.5	<2.5	<2.5	180	1.2	6.7
10/24/2006	P		39.49	12.50	26.00	17.15	22.34	710	4.2	<2.5	19	13	360	--	6.68
1/15/2007	P		39.49	12.50	26.00	16.81	22.68	470	2.8	<2.5	14	8.4	220	1.14	7.12
4/18/2007	NP		39.49	12.50	26.00	16.69	22.80	100	<2.5	<2.5	<2.5	<2.5	150	1.20	6.85
7/17/2007	NP		39.49	12.50	26.00	20.85	18.64	<50	<1.0	<1.0	<1.0	<1.0	94	1.91	6.98
MW-2															

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

Station #2111, 1156 Davis St, San Leandro, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-2 Cont.															
6/26/2000	--	a	37.99	12.0	26.00	14.60	23.39	--	--	--	--	--	--	--	--
7/20/2000	--		37.99	12.0	26.00	15.14	22.85	95,000	2,300	18,000	2,500	19,000	13,000	--	--
9/19/2000	--		37.99	12.0	26.00	15.95	22.04	63,000	1,200	6,300	2,000	14,000	19,000	--	--
12/21/00	--	b	37.99	12.0	26.00	--	--	5,010	360	189	213	626	54,300/89,200	--	--
12/21/2000	--		37.99	12.0	26.00	15.60	22.39	45,900	--	2,130	1,160	9,460	22,400/24,700	--	--
3/13/2001	--	b	37.99	12.0	26.00	--	--	<20,000	525	466	408	1,460	91,700/76,000	--	--
3/13/2001	--		37.99	12.0	26.00	13.77	24.22	3,650	98.1	<5.0	<5.0	6.42	3,590/3,260	--	--
9/18/2001	--	a	37.99	12.0	26.00	16.86	21.13	--	--	--	--	--	--	--	--
12/28/2001	--		37.99	12.0	26.00	14.28	23.71	31,000	1,500	3,800	1,300	4,800	9,300/8,800	--	--
3/14/2002	--		37.99	12.0	26.00	14.15	23.84	1,800	25	43	43	270	990/960	--	--
4/23/2002	--		37.99	12.0	26.00	13.60	24.39	9,000	220	110	470	2,500	8,500	--	--
7/17/2002	NP	a, c	37.99	12.0	26.00	15.75	22.24	74,000	280	290	820	10,000	19,000/0.4	6.8	6.8
10/9/02	NP	g	37.99	12.0	26.00	16.69	21.30	--	--	--	--	--	--	--	--
1/13/03	--	g, h	37.99	12.0	26.00	13.59	24.40	--	--	--	--	--	--	--	--
04/07/03	--	g, h	37.99	12.0	26.00	14.70	23.29	--	--	--	--	--	--	--	--
07/09/03	--	g, h	37.99	12.0	26.00	15.48	22.51	--	--	--	--	--	--	--	--
02/05/2004	NP	g,m	37.86	12.0	26.00	14.43	23.43	--	--	--	--	--	--	--	--
04/05/2004	NP		37.86	12.0	26.00	14.35	23.51	2,300	33	<5.0	<5.0	200	750	0.6	--
07/13/2004	NP		37.86	12.0	26.00	15.79	22.07	59,000	380	<50	2,100	7,900	5,800	0.3	6.4
08/31/2004	--		37.86	12.0	26.00	15.89	21.97	--	--	--	--	--	--	--	--
11/04/2004	--	g, h	37.86	12.0	26.00	15.92	21.94	--	--	--	--	--	--	--	--
01/20/2005	NP	o	37.86	12.0	26.00	13.71	24.15	30,000	450	<50	1,300	3,300	7,000	0.7	6.2
04/11/2005	NP		37.86	12.0	26.00	12.70	25.16	11,000	170	<50	580	630	2,700	0.9	6.8
08/01/2005	NP		37.86	12.0	26.00	14.89	22.97	24,000	170	<50	1,100	2,700	2,700	0.64	6.9
10/21/2005	--	a	37.86	12.0	26.00	16.05	21.81	--	--	--	--	--	--	--	--
01/18/2006	NP	a	37.86	12.0	26.00	12.81	25.05	21,000	71	<50	470	1,400	1,600	1.18	6.6
04/14/2006	NP	a	37.86	12.0	26.00	12.24	25.62	7,800	78	<50	94	130	2,100	0.81	6.7
7/19/2006	NP	q	37.86	12.0	26.00	14.00	23.86	4,900	31	<10	98	75	930	1.1	6.5
10/24/2006	--	g	37.86	12.0	26.00	15.38	22.48	--	--	--	--	--	--	--	6.45
1/15/2007	P		37.86	12.0	26.00	15.00	22.86	5,000	51	<10	49	34	1,400	1.85	7.13
4/18/2007	NP		37.86	12.0	26.00	14.82	23.04	3,000	39	<10	32	22	1,100	1.95	7.10

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

Station #2111, 1156 Davis St, San Leandro, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-2 Cont.															
7/17/2007	NP	n	37.86	12.0	26.00	18.00	19.86	1,100	53	<10	28	<10	1,300	4.84	7.09
MW-3															
6/26/2000	--		39.32	12.00	26.00	15.96	23.36	--	--	--	--	--	--	--	--
7/20/2000	--		39.32	12.00	26.00	16.42	22.90	<50	<0.5	<0.5	<0.5	<1.0	130	--	--
9/19/2000	--		39.32	12.00	26.00	17.18	22.14	190	17	<0.5	1.4	2.4	160	--	--
12/21/2000	--		39.32	12.00	26.00	16.97	22.35	187	17.8	<0.5	2.47	2.5	143/125	--	--
3/13/2001	--		39.32	12.00	26.00	15.17	24.15	72.4	2.83	<0.5	<0.5	<0.5	126/122	--	--
9/18/2001	--		39.32	12.00	26.00	17.81	21.51	140	6.4	<0.5	3.5	1.6	110/75	--	--
12/28/2001	--		39.32	12.00	26.00	15.44	23.88	130	5.9	<0.5	0.99	0.55	90/63	--	--
3/14/2002	--		39.32	12.00	26.00	15.50	23.82	<50	<0.5	<0.5	<0.5	<0.5	100/88	--	--
4/23/2002	--		39.32	12.00	26.00	14.96	24.36	<50	<0.5	<0.5	<0.5	<0.5	77	--	--
7/17/2002	NP		39.32	12.00	26.00	17.09	22.23	<50	<0.50	<0.50	<0.50	<0.50	47	7.2	7.2
10/9/2002	NP		39.32	12.00	26.00	17.87	21.45	<50	<0.50	<0.50	<0.50	<0.50	26/29	7.2	7.2
1/13/2003	NP	l	39.32	12.00	26.00	14.78	24.54	<50	<0.50	<0.50	<0.50	<0.50	59	6.8	6.8
04/07/03	NP		39.32	12.00	26.00	16.15	23.17	88	<0.50	<0.50	<0.50	<0.50	75	7.0	7.0
7/9/2003	--		39.32	12.00	26.00	16.79	22.53	100	<0.50	<0.50	<0.50	<0.50	52	6.5	6.5
02/05/2004	NP	m	39.19	12.00	26.00	15.66	23.53	240	<0.50	<0.50	<0.50	<0.50	37	0.5	--
04/05/2004	NP		39.19	12.00	26.00	15.78	23.41	140	<0.50	<0.50	<0.50	0.60	53	1.0	6.6
07/13/2004	NP		39.19	12.00	26.00	17.20	21.99	120	<0.50	<0.50	<0.50	<0.50	35	0.8	6.7
11/04/2004	NP		39.19	12.00	26.00	17.32	21.87	160	<0.50	<0.50	<0.50	<0.50	25	0.8	6.5
01/20/2005	NP		39.19	12.00	26.00	15.07	24.12	160	<0.50	<0.50	<0.50	<0.50	27	0.6	6.1
04/11/2005	NP		39.19	12.00	26.00	14.24	24.95	<50	<0.50	<0.50	<0.50	<0.50	21	0.6	6.1
08/01/2005	NP		39.19	12.00	26.00	16.29	22.90	<50	<0.50	<0.50	<0.50	<0.50	23	1.04	7.2
10/21/2005	NP		39.19	12.00	26.00	17.41	21.78	88	<0.50	<0.50	<0.50	<0.50	19	1.9	6.6
01/18/2006	NP		39.19	12.00	26.00	13.80	25.39	73	<0.50	<0.50	<0.50	<0.50	13	1.13	6.6
04/14/2006	NP		39.19	12.00	26.00	12.55	26.64	<50	<0.50	<0.50	<0.50	<0.50	6.7	0.71	6.6
7/19/2006	NP	q	39.19	12.00	26.00	15.04	24.15	<50	<0.50	<0.50	<0.50	<0.50	11	2.0	6.6
10/24/2006	P		39.19	12.00	26.00	16.45	22.74	<50	<0.50	<0.50	<0.50	<0.50	33	--	6.77
1/15/2007	P		39.19	12.00	26.00	16.00	23.19	<50	<0.50	<0.50	0.61	<0.50	29	1.11	7.03
4/18/2007	NP		39.19	12.00	26.00	15.87	23.32	<50	<0.50	<0.50	<0.50	<0.50	9.5	1.67	7.07

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

Station #2111, 1156 Davis St, San Leandro, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)					DO (mg/L)	pH	
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes			MTBE
MW-3 Cont.															
7/17/2007	NP		39.19	12.00	26.00	19.40	19.79	<50	<0.50	<0.50	<0.50	<0.50	19	4.25	7.27
MW-4															
6/26/2000	--		38.10	10.0	24.00	14.59	23.51	--	--	--	--	--	--	--	--
7/20/2000	--		38.10	10.0	24.00	15.04	23.06	97	7.9	<0.5	<0.5	1.1	51	--	--
9/19/2000	--		38.10	10.0	24.00	15.83	22.27	110	7	<0.5	<0.5	<1.0	60	--	--
12/21/2000	--		38.10	10.0	24.00	15.59	22.51	120	5.6	<0.5	1.72	<0.5	46.3/48.6	--	--
3/13/2001	--		38.10	10.0	24.00	13.73	24.37	76	0.796	<0.5	<0.5	<0.5	53.7/50	--	--
9/18/2001	--		38.10	10.0	24.00	16.50	21.60	<50	<0.5	<0.5	<0.5	<0.5	25/26	--	--
12/28/2001	--		38.10	10.0	24.00	14.03	24.07	<50	<0.5	<0.5	<0.5	<0.5	15/11	--	--
3/14/2002	--		38.10	10.0	24.00	14.10	24.00	<50	<0.5	<0.5	<0.5	<0.5	31/28	--	--
4/23/2002	--		38.10	10.0	24.00	13.57	24.53	<50	2.8	<0.5	<0.5	<0.5	42	--	--
7/17/2002	NP		38.10	10.0	24.00	15.76	22.34	<50	<0.50	<0.50	<0.50	<0.50	16	7.1	7.1
10/9/2002	NP		38.10	10.0	24.00	16.59	21.51	<50	2.2	<0.50	<0.50	<0.50	20/23	7.1	7.1
1/13/2003	NP	d	38.10	10.0	24.00	13.43	24.67	52	<0.50	1.6	<0.50	<0.50	22	6.6	6.6
04/07/03	NP		38.10	10.0	24.00	14.74	23.36	65	<0.50	<0.50	<0.50	<0.50	24	6.6	6.6
7/9/2003	--		38.10	10.0	24.00	15.44	22.66	120	<0.50	<0.50	<0.50	<0.50	34	6.6	6.6
02/05/2004	NP	m	37.99	10.0	24.00	14.39	23.60	120	<0.50	<0.50	<0.50	<0.50	22	0.5	6.6
04/05/2004	NP		37.99	10.0	24.00	14.37	23.62	110	<0.50	<0.50	<0.50	<0.50	27	1.1	6.5
07/13/2004	NP		37.99	10.0	24.00	15.96	22.03	77	<0.50	<0.50	<0.50	<0.50	27	0.6	6.6
11/04/2004	NP		37.99	10.0	24.00	16.02	21.97	<50	<0.50	<0.50	<0.50	<0.50	19	1.2	6.7
01/20/2005	NP		37.99	10.0	24.00	13.72	24.27	65	<0.50	<0.50	<0.50	<0.50	18	0.6	6.1
04/11/2005	NP		37.99	10.0	24.00	12.80	25.19	51	<0.50	<0.50	<0.50	<0.50	14	0.7	6.2
08/01/2005	NP		37.99	10.0	24.00	14.88	23.11	<50	<0.50	<0.50	<0.50	<0.50	18	1.46	7.3
10/21/2005	NP		37.99	10.0	24.00	15.01	22.98	<50	<0.50	<0.50	<0.50	<0.50	15	1.24	7.6
01/18/2006	NP		37.99	10.0	24.00	12.92	25.07	<50	<0.50	<0.50	<0.50	<0.50	8.9	0.77	6.5
04/14/2006	NP		37.99	10.0	24.00	11.41	26.58	<50	<0.50	<0.50	<0.50	<0.50	4.2	0.84	6.6
7/19/2006	NP		37.99	10.0	24.00	13.86	24.13	<50	<0.50	<0.50	<0.50	<0.50	3.4	1.0	6.7
10/24/2006	P		37.99	10.0	24.00	15.35	22.64	<50	<0.50	<0.50	2.0	<0.50	3.5	--	6.90
1/15/2007	P		37.99	10.0	24.00	14.96	23.03	<50	<0.50	<0.50	0.96	<0.50	3.8	--	7.04
4/18/2007	NP		37.99	10.0	24.00	14.80	23.19	<50	<0.50	<0.50	<0.50	<0.50	5.6	5.33	6.93

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Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-4 Cont.															
7/17/2007	NP		37.99	10.0	24.00	16.10	21.89	<50	<0.50	<0.50	<0.50	<0.50	6.6	3.73	6.87
MW-5															
6/26/2000	--		37.21	9.50	23.50	14.27	22.94	--	--	--	--	--	--	--	--
7/20/2000	--		37.21	9.50	23.50	14.69	22.52	55	<0.5	<0.5	<0.5	<1.0	14,000	--	--
9/19/2000	--		37.21	9.50	23.50	15.36	21.85	54	<0.5	<0.5	<0.5	<1.0	13,000	--	--
12/21/2000	--		37.21	9.50	23.50	15.15	22.06	72.9	2.51	<0.5	<0.5	0.961	19,200/21,200	--	--
3/13/2001	--		37.21	9.50	23.50	13.50	23.71	<500	<5	<5	<5	<5	15,900/20,000	--	--
9/18/2001	--		37.21	9.50	23.50	15.94	21.27	<10,000	<100	<100	<100	<1,000	22,000/20,000	--	--
12/28/2001	--		37.21	9.50	23.50	13.45	23.76	<10,000	<100	<100	<100	<100	10,000/10,000	--	--
3/14/2002	--		37.21	9.50	23.50	13.82	23.39	<5,000	<50	<50	<50	<50	7,100/7,700	--	--
4/23/2002	--		37.21	9.50	23.50	13.25	23.96	<5,000	<50	<50	<50	<50	8,900	--	--
7/17/2002	NP	d	37.21	9.50	23.50	15.27	21.94	7,900	<50	<50	<50	<50	13,000	7.5	7.5
10/9/2002	NP	e	37.21	9.50	23.50	16.02	21.19	2,400	<20	<20	<20	<20	7,300/7,500	6.7	6.7
1/13/2003	NP	e, k, j	37.21	9.50	23.50	13.20	24.01	6,400	<50	<50	<50	<50	8,900	6.8	6.8
04/07/03	NP		37.21	9.50	23.50	14.42	22.79	<10,000	<100	<100	<100	<100	3,700	6.8	6.8
7/9/2003	--		37.21	9.50	23.50	15.01	22.20	11,000	<50	<50	<50	<50	6,500	6.9	6.9
02/05/2004	NP	m	37.12	9.50	23.50	14.10	23.02	8,100	<50	<50	<50	<50	7,900	1.5	--
04/05/2004	NP		37.12	9.50	23.50	14.14	22.98	4,000	<25	<25	<25	<25	2,000	1.0	6.6
07/13/2004	NP		37.12	9.50	23.50	15.37	21.75	<5,000	<50	<50	<50	<50	4,000	0.8	6.7
11/04/2004	NP		37.12	9.50	23.50	15.53	21.59	7,400	<50	<50	<50	<50	6,300	3.5	6.7
01/20/2005	NP	n	37.12	9.50	23.50	13.51	23.61	6,500	<50	<50	<50	<50	6,900	0.7	6.5
04/11/2005	NP		37.12	9.50	23.50	12.75	24.37	<5,000	<50	<50	<50	<50	2,600	0.5	7.0
08/01/2005	NP		37.12	9.50	23.50	14.59	22.53	110	<1.0	<1.0	<1.0	<1.0	130	1.36	7.5
10/21/2005	NP		37.12	9.50	23.50	15.57	21.55	<250	<2.5	<2.5	<2.5	<2.5	86	1.53	6.8
01/18/2006	NP		37.12	9.50	23.50	12.60	24.52	<250	<2.5	<2.5	<2.5	<2.5	100	1.2	6.7
04/14/2006	NP		37.12	9.50	23.50	11.74	25.38	310	<2.5	<2.5	<2.5	<2.5	240	0.93	6.6
7/19/2006	NP		37.12	9.50	23.50	13.78	23.34	<50	<2.5	<2.5	<2.5	<2.5	84	1.2	6.6
10/24/2006	P		37.12	9.50	23.50	14.95	22.17	61	<0.50	<0.50	<0.50	<0.50	17	--	6.69
1/15/2007	P		37.12	9.50	23.50	14.63	22.49	73	<0.50	<0.50	<0.50	<0.50	36	2.8	6.73
4/18/2007	NP	n, EBZ present in method blank	37.12	9.50	23.50	14.50	22.62	93	<2.5	<2.5	<2.5	<2.5	16	1.66	6.84

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Station #2111, 1156 Davis St, San Leandro, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-5 Cont.															
7/17/2007	NP	n	37.12	9.50	23.50	15.55	21.57	53	<2.5	<2.5	<2.5	<2.5	6.6	5.02	7.02
MW-6															
6/26/2000	--		37.11	10.00	25.00	13.46	23.65	--	--	--	--	--	--	--	--
7/20/2000	--		37.11	10.00	25.00	13.94	23.17	<50	<0.5	<0.5	<0.5	<1.0	<3.0	--	--
9/19/2000	--		37.11	10.00	25.00	14.41	22.70	<50	<0.5	<0.5	<0.5	<1.0	<3.0	--	--
12/21/2000	--		37.11	10.00	25.00	14.53	22.58	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
3/13/2001	--		37.11	10.00	25.00	12.67	24.44	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
9/18/2001	--		37.11	10.00	25.00	15.42	21.69	<50	<0.5	<0.5	<0.5	<0.5	<2.5/<2.0	--	--
12/28/2001	--		37.11	10.00	25.00	12.96	24.15	<50	<0.5	<0.5	<0.5	<0.5	12/<0.5	--	--
3/14/2002	--		37.11	10.00	25.00	12.98	24.13	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
4/23/2002	--		37.11	10.00	25.00	12.44	24.67	<50	<0.5	<0.5	<0.5	<0.5	3.1	--	--
7/17/2002	NP		37.11	10.00	25.00	14.65	22.46	<50	<0.50	<0.50	<0.50	<0.50	<2.5	7.3	7.3
10/9/2002	NP		37.11	10.00	25.00	15.51	21.60	<50	<0.50	<0.50	<0.50	<0.50	<2.5	7.1	7.1
1/13/2003	NP		37.11	10.00	25.00	12.27	24.84	<50	<0.50	<0.50	<0.50	<0.50	<2.5	6.8	6.8
04/07/03	NP		37.11	10.00	25.00	13.61	23.50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	6.6	6.6
7/9/2003	--		37.11	10.00	25.00	14.34	22.77	<50	<0.50	<0.50	<0.50	<0.50	<0.50	7	7.0
02/05/2004	--	m	37.11	10.00	25.00	13.38	23.73	--	--	--	--	--	--	--	--
04/05/2004	--		37.11	10.00	25.00	13.31	23.80	--	--	--	--	--	--	--	--
07/13/2004	NP		37.11	10.00	25.00	14.65	22.46	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.7	6.8
11/04/2004	--		37.11	10.00	25.00	14.95	22.16	--	--	--	--	--	--	--	--
01/20/2005	--		37.11	10.00	25.00	12.57	24.54	--	--	--	--	--	--	--	--
04/11/2005	--		37.11	10.00	25.00	12.05	25.06	--	--	--	--	--	--	--	--
08/01/2005	NP		37.11	10.00	25.00	13.79	23.32	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.15	7.6
10/21/2005	--		37.11	10.00	25.00	14.60	22.51	--	--	--	--	--	--	--	--
01/18/2006	--		37.11	10.00	25.00	11.80	25.31	--	--	--	--	--	--	--	--
04/14/2006	--		37.11	10.00	25.00	10.92	26.19	--	--	--	--	--	--	--	--
7/19/2006	NP		37.11	10.00	25.00	12.92	24.19	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	6.9
10/24/2006	--		37.11	10.00	25.00	14.23	22.88	--	--	--	--	--	--	--	--
1/15/2007	--		37.11	10.00	25.00	13.80	23.31	--	--	--	--	--	--	--	--
4/18/2007	--		37.11	10.00	25.00	13.67	23.44	--	--	--	--	--	--	--	--

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

Station #2111, 1156 Davis St, San Leandro, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-6 Cont.															
7/17/2007	NP		37.11	10.00	25.00	14.08	23.03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.40	7.02
MW-7															
6/26/2000	--		38.68	12.0	27.00	14.34	24.34	--	--	--	--	--	--	--	--
7/20/2000	--		38.68	12.0	27.00	15.26	23.42	14,000	5.4	<0.5	2.8	5.9	71,000	--	--
9/19/2000	--		38.68	12.0	27.00	15.70	22.98	8,400	420	38	470	220	5,600	--	--
12/21/2000	--		38.68	12.0	27.00	16.02	22.66	--	--	--	--	--	--	--	--
3/13/2001	--		38.68	12.0	27.00	14.18	24.50	<2,000	154	63	46.3	127	75,000/160,000	--	--
9/18/2001	--		38.68	12.0	27.00	17.02	21.66	<100,000	1,900	<1,000	<1,000	2,800	90,000/370,000	--	--
12/28/2001	--		38.68	12.0	27.00	14.81	23.87	<20,000	<200	<200	<200	<200	84,000/72,000	--	--
3/14/2002	--		38.68	12.0	27.00	14.60	24.08	<50,000	<500	<500	<500	<500	85,000/85,000	--	--
4/23/2002	--		38.68	12.0	27.00	13.94	24.74	<20,000	530	200	220	800	67,000	--	--
7/17/2002	NP	d	38.68	12.0	27.00	16.27	22.41	26,000	720	<250	<250	860	120,000	6.9	6.9
10/9/2002	NP	d	38.68	12.0	27.00	17.16	21.52	110,000	1,500	4,400	820	5,400	97,000/120,000	6.8	6.8
1/13/2003	NP	f	38.68	12.0	27.00	13.82	24.86	<50,000	<500	<500	<500	2,200	33,000	6.6	6.6
04/07/03	NP		38.68	12.0	27.00	14.52	24.16	<2,500	30	<25	<25	<25	710	7.0	7.0
7/9/2003	--		38.68	12.0	27.00	15.97	22.71	66,000	<500	<500	<500	<500	36,000	6.7	6.7
02/05/2004	NP	m	38.54	12.0	27.00	14.75	23.79	55,000	300	<250	<250	<250	34,000	1.0	6.7
04/05/2004	NP		38.54	12.0	27.00	14.63	23.91	62,000	520	<250	<250	380	37,000	1.0	6.7
07/13/2004	NP		38.54	12.0	27.00	16.31	22.23	<100,000	<1,000	<1,000	<1,000	<1,000	56,000	0.7	6.7
11/04/2004	--		38.54	12.0	27.00	16.46	22.08	70,000	<500	<500	<500	<500	71,000	2.0	6.6
01/20/2005	NP	n	38.54	12.0	27.00	14.05	24.49	34,000	<250	<250	<250	<250	36,000	0.6	6.3
04/11/2005	NP		38.54	12.0	27.00	12.55	25.99	<2,500	46	<25	<25	<25	1,200	0.7	6.8
08/01/2005	NP		38.54	12.0	27.00	15.11	23.43	<25,000	<250	<250	<250	<250	4,800	1.78	7.3
10/21/2005	NP	p	38.54	12.0	27.00	15.65	22.89	14,000	350	<100	<100	110	12,000	1.41	6.6
01/18/2006	NP		38.54	12.0	27.00	12.60	25.94	16,000	310	<100	<100	110	13,000	0.87	6.7
04/14/2006	NP		38.54	12.0	27.00	12.09	26.45	<10,000	<100	<100	<100	<100	4,700	0.88	6.9
7/19/2006	NP	q	38.54	12.0	27.00	13.58	24.96	1,300	23	<10	18	26	1,600	1.1	6.8
10/24/2006	P		38.54	12.0	27.00	15.13	23.41	6,800	100	<5.0	16	15	14,000	--	6.93
1/15/2007	P	n	38.54	12.0	27.00	14.43	24.11	2,500	<100	<100	<100	<100	3,900	2.12	7.44
4/18/2007	NP	n	38.54	12.0	27.00	14.30	24.24	3,000	50	<50	<50	<50	2,700	4.47	7.22

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #2111, 1156 Davis St, San Leandro, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-7 Cont.															
7/17/2007	NP	n	38.54	12.0	27.00	23.75	14.79	560	<25	<25	<25	<25	890	4.23	7.41
MW-8															
02/05/2004	P	m	38.91	--	--	15.61	23.30	3,600	<25	<25	<25	<25	1,900	6.9	6.8
04/05/2004	P		38.91	--	--	15.64	23.27	1,900	<10	<10	<10	<10	1,200	3.2	6.7
07/13/2004	P		38.91	--	--	17.22	21.69	<1,000	<10	<10	<10	<10	760	1.6	6.7
11/04/2004	P		38.91	--	--	17.19	21.72	960	<5.0	<5.0	<5.0	<5.0	820	1.8	6.7
01/20/2005	P		38.91	--	--	15.25	23.66	<2,500	<25	<25	<25	<25	1,400	1.5	6.4
04/11/2005	P		38.91	--	--	14.17	24.74	700	<5.0	<5.0	<5.0	<5.0	610	1.1	7.1
08/01/2005	P		38.91	--	--	16.10	22.81	<1,000	<10	<10	<10	<10	900	2.58	7.7
10/21/2005	P	n	38.91	--	--	17.18	21.73	530	<5.0	<5.0	<5.0	<5.0	490	1.4	6.7
01/18/2006	P		38.91	--	--	13.60	25.31	<500	<5.0	<5.0	<5.0	<5.0	500	2.28	6.6
04/14/2006	P		38.91	--	--	12.36	26.55	<500	<5.0	<5.0	<5.0	<5.0	300	1.97	6.6
7/19/2006	P		38.91	--	--	14.75	24.16	4,500	<25	<25	<25	<25	4,200	1.2	6.6
10/24/2006	--	s	--	--	--	--	--	--	--	--	--	--	--	--	--
1/15/2007	P		38.91	--	--	15.67	23.24	<50	<0.50	<0.50	<0.50	<0.50	67	1.35	6.68
4/18/2007	P	n	38.91	--	--	15.53	23.38	100	0.51	<0.50	<0.50	<0.50	130	1.49	6.86
7/17/2007	NP	n	38.91	--	--	16.76	22.15	63	<0.50	<0.50	<0.50	<0.50	96	1.85	6.97

ABBREVIATIONS:

-- = Not analyzed/applicable/measured/available
< = Not detected at or above specified laboratory reporting limit
DO = Dissolved oxygen
DTW = Depth to water in ft bgs
ft bgs = feet below ground surface
ft MSL = feet above mean sea level
GRO = Gasoline range organics
GWE = Groundwater elevation in ft MSL
mg/L = Milligrams per liter
MTBE = Methyl tert-butyl ether
NP = Well not purged prior to sampling
P = Well purged prior to sampling
TOC = Top of casing elevation in ft MSL
TPH-g = Total petroleum hydrocarbons as gasoline
µg/L = Micrograms per liter

FOOTNOTES:

a = Product sheen noted.
b = Well was sampled after batch extraction event.
c = Chromatogram Pattern: Gasoline C6-C10 for GRO/TPH-g.
d = Hydrocarbon pattern was present in the requested fuel quantitation range but did not resemble the pattern of the requested fuel for GRO/TPH-g.
e = Discrete peak @C6-C7 for GRO/TPH-g.
f = This sample was analyzed beyond the EPA recommended holding time for TPH-g, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and MTBE. The results may still be useful for their intended purpose.
g = Well not sampled due to the detection of free product (FP).
h = GWE adjusted for FP: (thickness of FP x 0.8) + measured GWE.
j = The closing calibration for benzene and total xylenes was outside acceptance limits by 1%. This should be considered in evaluating the result. The average % difference for all analytes met the 15% requirement and the QC suggested that calibration linearity was not a factor.
k = The closing calibration was outside acceptance limits by 6%. This should be considered in evaluating the result. The average % difference for all analytes met the 15% requirement and the QC suggested that calibration linearity was not a factor.
l = Toluene and MTBE were not confirmed using a secondary column in accordance to client contract.
m = TOC elevations re-surveyed to NAVD '88 on February 23, 2004.
n = Hydrocarbon result for GRO partly due to indiv. peak(s) in quantitative range.
o = Light to moderate sheen.
p = Result for MTBE partly due to individual peak(s) in quant. range.
q = Gauged with tubing in well.
r = Calib. verif. is within method limits but outside contract limits.
s = well inaccessible

NOTES:

Beginning with the second quarter 2003 sampling event (04/07/03), TPH-g, BTEX, and MTBE analyzed by EPA method 8260B. Prior to 04/07/03, TPH-g was analyzed by EPA method 8015 modified and MTBE was analyzed by EPA methods 8020/ 8260B.

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.

Values for DO and pH were obtained through field measurements.

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

**Table 2. Summary of Fuel Additives Analytical Data
Station #2111, 1156 Davis St, San Leandro, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-1									
4/7/2003	<100	<20	1,100	<0.50	<0.50	<0.50	--	--	
7/9/2003	<5,000	<1,000	690	<25	<25	<25	--	--	
02/05/2004	<5,000	<1,000	1,100	<25	<25	32	<25	<25	
04/05/2004	<5,000	<1,000	1,700	<25	<25	38	<25	<25	a
07/13/2004	<2,000	780	730	<10	<10	19	<10	<10	a
11/04/2004	<1,000	<200	380	<5.0	<5.0	12	<5.0	<5.0	
01/20/2005	<1,000	<200	570	<5.0	<5.0	17	<5.0	<5.0	a
04/11/2005	<5,000	<1,000	1,100	<25	<25	34	<25	<25	
08/01/2005	<2,000	<400	1,400	<10	<10	40	<10	<10	
10/21/2005	<5,000	<1,000	970	<25	<25	<25	<25	<25	
01/18/2006	<1,500	<100	330	<2.5	<2.5	9.7	<2.5	<2.5	
04/14/2006	<1,500	<100	310	<2.5	<2.5	9.3	<2.5	<2.5	
7/19/2006	<1,500	<100	180	<2.5	<2.5	3.2	<2.5	<2.5	
10/24/2006	<1,500	<100	360	<2.5	<2.5	10	<2.5	<2.5	
1/15/2007	<1,500	<100	220	<2.5	<2.5	6.8	<2.5	<2.5	
4/18/2007	<1,500	<100	150	<2.5	<2.5	<2.5	<2.5	<2.5	
7/17/2007	<600	<40	94	<1.0	<1.0	2.3	<1.0	<1.0	
MW-2									
04/05/2004	<1,000	<200	750	<5.0	<5.0	<5.0	<5.0	<5.0	
07/13/2004	<10,000	12,000	5,800	<50	<50	<50	<50	<50	a
08/31/2004	--	--	--	--	--	--	--	--	a
01/20/2005	<10,000	<2,000	7,000	<50	<50	<50	<50	<50	a
04/11/2005	<10,000	<2,000	2,700	<50	<50	<50	<50	<50	
08/01/2005	<10,000	<2,000	2,700	<50	<50	<50	<50	<50	
01/18/2006	<30,000	<2,000	1,600	<50	<50	<50	<50	<50	
04/14/2006	<30,000	<2,000	2,100	<50	<50	<50	<50	<50	
7/19/2006	<6,000	<400	930	<10	<10	<10	<10	<10	
1/15/2007	<6,000	1,900	1,400	<10	<10	<10	<10	<10	
4/18/2007	<6,000	1,200	1,100	<10	<10	<10	<10	<10	
7/17/2007	<6,000	1,000	1,300	<10	<10	<10	<10	<10	

**Table 2. Summary of Fuel Additives Analytical Data
Station #2111, 1156 Davis St, San Leandro, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-3									
4/7/2003	<100	<20	75	<0.50	<0.50	6.5	--	--	
7/9/2003	<100	<20	52	<0.50	<0.50	4.2	--	--	
02/05/2004	<100	<20	37	<0.50	<0.50	3.1	<0.50	<0.50	
04/05/2004	<100	<20	53	<0.50	<0.50	3.7	<0.50	<0.50	a
07/13/2004	<100	44	35	<0.50	<0.50	3.2	<0.50	<0.50	
11/04/2004	<100	<20	25	<0.50	<0.50	2.2	<0.50	<0.50	
01/20/2005	<100	<20	27	<0.50	<0.50	2.6	<0.50	<0.50	
04/11/2005	<100	<20	21	<0.50	<0.50	2.0	<0.50	<0.50	
08/01/2005	<100	<20	23	<0.50	<0.50	1.9	<0.50	<0.50	
10/21/2005	<100	<20	19	<0.50	<0.50	2.0	<0.50	<0.50	
01/18/2006	<300	<20	13	<0.50	<0.50	1.3	<0.50	<0.50	
04/14/2006	<300	<20	6.7	<0.50	<0.50	0.61	<0.50	<0.50	
7/19/2006	<300	<20	11	<0.50	<0.50	0.72	<0.50	<0.50	r
10/24/2006	<300	<20	33	<0.50	<0.50	2.8	<0.50	<0.50	
1/15/2007	<300	<20	29	<0.50	<0.50	2.9	<0.50	<0.50	
4/18/2007	<300	<20	9.5	<0.50	<0.50	0.90	<0.50	<0.50	
7/17/2007	<300	<20	19	<0.50	<0.50	1.5	<0.50	<0.50	
MW-4									
4/7/2003	<100	<20	24	<0.50	<0.50	7.3	--	--	
7/9/2003	<100	<20	34	<0.50	<0.50	9.8	--	--	
02/05/2004	<100	<20	22	<0.50	<0.50	6.2	<0.50	<0.50	
04/05/2004	<100	<20	27	<0.50	<0.50	7.2	<0.50	<0.50	a
07/13/2004	<100	26	27	<0.50	<0.50	7.4	<0.50	<0.50	a
11/04/2004	<100	<20	19	<0.50	<0.50	5.1	<0.50	<0.50	
01/20/2005	<100	<20	18	<0.50	<0.50	5.2	<0.50	<0.50	
04/11/2005	<100	<20	14	<0.50	<0.50	4.0	<0.50	<0.50	
08/01/2005	<100	<20	18	<0.50	<0.50	3.9	<0.50	<0.50	
10/21/2005	<100	<20	15	<0.50	<0.50	4.6	<0.50	<0.50	
01/18/2006	<300	<20	8.9	<0.50	<0.50	2.5	<0.50	<0.50	
04/14/2006	<300	<20	4.2	<0.50	<0.50	1.3	<0.50	<0.50	
7/19/2006	<300	<20	3.4	<0.50	<0.50	0.69	<0.50	<0.50	r

**Table 2. Summary of Fuel Additives Analytical Data
Station #2111, 1156 Davis St, San Leandro, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-4 Cont.									
10/24/2006	<300	<20	3.5	<0.50	<0.50	0.91	<0.50	<0.50	
1/15/2007	<300	<20	3.8	<0.50	<0.50	0.98	<0.50	<0.50	
4/18/2007	<300	<20	5.6	<0.50	<0.50	1.1	<0.50	<0.50	
7/17/2007	<300	<20	6.6	<0.50	<0.50	1.7	<0.50	<0.50	
MW-5									
4/7/2003	<20,000	<4,000	3,700	<100	<100	<100	--	--	
7/9/2003	<10,000	<2,000	6,500	<50	<50	<50	--	--	
02/05/2004	<10,000	<2,000	7,900	<50	<50	<50	<50	<50	a
04/05/2004	<5,000	<1,000	2,000	<25	<25	<25	<25	<25	a
07/13/2004	<10,000	3,200	4,000	<50	<50	<50	<50	<50	a
11/04/2004	<10,000	<2,000	6,300	<50	<50	<50	<50	<50	
01/20/2005	<10,000	<2,000	6,900	<50	<50	<50	<50	<50	a
04/11/2005	<10,000	3,600	2,600	<50	<50	<50	<50	<50	
08/01/2005	<200	1,600	130	<1.0	<1.0	<1.0	<1.0	<1.0	
10/21/2005	<500	1,400	86	<2.5	<2.5	<2.5	<2.5	<2.5	
01/18/2006	<1,500	2,200	100	<2.5	<2.5	<2.5	<2.5	<2.5	
04/14/2006	<1,500	2,100	240	<2.5	<2.5	<2.5	<2.5	<2.5	
7/19/2006	<1,500	2,800	84	<2.5	<2.5	<2.5	<2.5	<2.5	r
10/24/2006	<300	1,200	17	<0.50	<0.50	<0.50	<0.50	<0.50	a
1/15/2007	<300	990	36	<0.50	<0.50	<0.50	<0.50	<0.50	
4/18/2007	<1,500	2,000	16	<2.5	<2.5	<2.5	<2.5	<2.5	
7/17/2007	<1,500	1,100	6.6	<2.5	<2.5	<2.5	<2.5	<2.5	
MW-6									
4/7/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
7/9/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
07/13/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
08/01/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/19/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	r
7/17/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-7									

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Station #2111, 1156 Davis St, San Leandro, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-7 Cont.									
4/7/2003	<5,000	<1,000	710	<25	<25	<25	--	--	
7/9/2003	<100,000	<20,000	36,000	<500	<500	<500	--	--	
02/05/2004	<50,000	<10,000	34,000	<250	<250	<250	<250	<250	
04/05/2004	<50,000	<10,000	37,000	<250	<250	<250	<250	<250	
07/13/2004	<200,000	<40,000	56,000	<1,000	<1,000	1,300	<1,000	<1,000	
11/04/2004	<100,000	<20,000	71,000	<500	<500	<500	<500	<500	
01/20/2005	<50,000	<10,000	36,000	<250	<250	<250	<250	<250	a
04/11/2005	<5,000	<1,000	1,200	<25	<25	<25	<25	<25	
08/01/2005	<50,000	<10,000	4,800	<250	<250	<250	<250	<250	
10/21/2005	<20,000	24,000	12,000	<100	<100	<100	<100	<100	
01/18/2006	<60,000	15,000	13,000	<100	<100	<100	<100	<100	
04/14/2006	<60,000	<4,000	4,700	<100	<100	<100	<100	<100	
7/19/2006	<6,000	720	1,600	<10	<10	<10	<10	<10	
10/24/2006	<3,000	10,000	14,000	<5.0	<5.0	31	<5.0	<5.0	a
1/15/2007	<60,000	9,300	3,900	<100	<100	<100	<100	<100	
4/18/2007	<30,000	<2,000	2,700	<50	<50	<50	<50	<50	
7/17/2007	<15,000	<1,000	890	<25	<25	<25	<25	<25	
MW-8									
02/05/2004	<5,000	<1,000	1,900	<25	<25	<25	<25	<25	
04/05/2004	<2,000	<400	1,200	<10	<10	12	<10	<10	a
07/13/2004	<2,000	770	760	<10	<10	<10	<10	<10	a
11/04/2004	<1,000	<200	820	<5.0	<5.0	9.6	<5.0	<5.0	
01/20/2005	<5,000	<1,000	1,400	<25	<25	<25	<25	<25	a
04/11/2005	<1,000	<200	610	<5.0	<5.0	8.1	<5.0	<5.0	
08/01/2005	<2,000	<400	900	<10	<10	<10	<10	<10	
10/21/2005	<1,000	<200	490	<5.0	<5.0	<5.0	<5.0	<5.0	
01/18/2006	<3,000	<200	500	<5.0	<5.0	5.2	<5.0	<5.0	
04/14/2006	<3,000	<200	300	<5.0	<5.0	<5.0	<5.0	<5.0	
7/19/2006	<15,000	<1,000	4,200	<25	<25	45	<25	<25	
1/15/2007	<300	52	67	<0.50	<0.50	0.88	<0.50	<0.50	
4/18/2007	<300	120	130	<0.50	<0.50	1.9	<0.50	<0.50	

**Table 2. Summary of Fuel Additives Analytical Data
Station #2111, 1156 Davis St, San Leandro, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-8 Cont.									
7/17/2007	<300	110	96	<0.50	<0.50	1.2	<0.50	<0.50	

ABBREVIATIONS:

-- = Not analyzed/applicable/measured/available

< = 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

µg/L = Micrograms per Liter

FOOTNOTES:

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

NOTES:

All volatile organic compounds analyzed using EPA Method 8260B.

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

**Table 3. Historical Ground-Water Flow Direction and Gradient
Station #2111, 1156 Davis St, San Leandro, CA**

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
7/20/2000	West-Northwest	0.006
9/19/2000	West-Northwest	0.004
12/21/2000	West-Northwest	0.004
3/13/2001	West-Northwest	0.005
5/30/2001	West-Northwest	0.004
9/18/2001	West-Northwest	0.003
12/28/2001	West-Northwest	0.003
3/14/2002	West	0.004
4/23/2002	West	0.006
7/17/2002	West	0.003
10/9/2002	West	0.002
1/13/2003	Southwest	0.0043
4/7/2003	West-Northwest	0.009 to 0.011
7/9/2003	West-Northwest	0.004
10/1/2003	West	0.002
2/5/2004	West	0.004
4/5/2004	West-Southwest	0.004
7/13/2004	West-Southwest	0.003
11/4/2004	West	0.003
1/20/2005	West	0.009
4/11/2005	North to West	0.009 to 0.01
8/1/2005	West to Northwest	0.006 to 0.004
10/21/2005	West	0.008
1/18/2006	North and West	0.01
4/14/2006	South	0.008
7/19/2006	Northwest to Southwest	0.004 to 0.008
10/24/2006	West	0.003
1/15/2007	Southwest	0.004
4/18/2007	West	0.009
7/17/2007	Southeast	0.05

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 4. Approximate Cumulative Floating Product Recovered
Station #2111, 1156 Davis Street, San Leandro, CA**

Well Designation	Product Recovery Field Date	Floating Product Thickness (feet)	Floating Product Recovered (gallons)
MW-2	06/28/99	0.45	0.30
MW-2	06/30/99	0.015	0.01
MW-2	07/07/99	0.06	0.04
MW-2	07/23/99	0.008	0.01
MW-2	08/25/99	0.02	0.01
MW-2	09/21/99	0.01	0.01
MW-2	11/10/99	ND	0.00
MW-2	02/09/00	ND	0.00
MW-2	04/23/02	ND	0.00
MW-2	07/17/02	Sheen	0.00
MW-2	10/9/2002 (1)	NA	0.00
MW-2	01/13/03	0.26	0.13
MW-2	02/14/03	ND	0.00
MW-2	03/24/03	ND	0.00
MW-2	04/07/03	0.05	0.00
MW-2	05/23/03	ND	0.00
MW-2	06/24/03	0.03	0.01
MW-2	07/09/03	0.07	0.03
MW-2	07/31/03	0.05	0.03
MW-2	09/04/03	0.02	0.01
MW-2	10/01/03	0.07	0.02
MW-2	11/12/03	0.59	0.36
MW-2	12/11/03	0.05	0.07
MW-2	02/05/04	0.13	0.02
MW-2	02/16/04	0.02	0.01
MW-2	03/11/04	ND	0.00
MW-2	03/30/04	ND	0.00
MW-2	04/05/04	ND	0.00
MW-2	07/13/04	ND	0.00
MW-2	08/31/04	ND	0.00
MW-2	09/07/04	ND	0.00
MW-2	11/04/04	0.22	0.14
MW-2	11/29/04	0.02	0.05
MW-2	12/15/04	0.24	0.16
MW-2	01/20/05	ND	0.00
MW-2	02/04/05	Sheen	0.00
MW-2	03/23/05	Sheen	0.00
MW-2	04/11/05	ND	0.00
MW-2	05/12/05	ND	0.00
MW-2	06/20/05	ND	0.00
MW-2	08/01/05	ND	0.00
MW-2	08/24/05	ND	0.00
MW-2	09/16/05	ND	0.00
MW-2	10/21/05	Sheen	0.00
MW-2	01/18/06	Sheen	0.00
MW-2	04/14/06	Sheen	0.00
MW-2	07/19/06	ND	0.00
MW-2	10/24/06 (1)	NA	0.00
MW-2	01/15/07	ND	0.00
MW-2	04/18/07	ND	0.00
MW-2	07/17/07	ND	0.00
Approximate Cumulative Floating Product Recovered (gallons):			1.44

FOOTNOTES:

(1) Free product encountered, but unable to gauge.

ND Non-detect

NA Not applicable

Table 5

**Soil Vapor Extraction System and Ground-Water Extraction System
Monthly Discharge Analytical Results Summary**

ARCO Service Station No. 2111
1156 Davis Street, San Leandro, California

Date Sampled	Sampling Port	Matrix	GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	MtBE
1/29/2007	SVE-Influent	Air (mg/m ³)	77	<0.5	<0.5	<0.5	<0.5	---	---	9.4
	SVE A/S-Effluent	Air (mg/m ³)	<10	0.19	<0.10	0.10	<0.20	---	---	5.1
	SVE-Effluent	Air (mg/m ³)	<10	<0.10	<0.10	<0.10	<0.20	---	---	<0.50
	GWE-Influent	Water (µg/L)	2,000	35	<12	23	14	<12	1,800	1,300
	GWE A/S-Effluent	Water (µg/L)	92	<0.50	<0.50	<0.50	<0.50	<0.50	1,900	150
	GWE-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
2/5/2007	SVE-Influent	Air (mg/m ³)	400	10 ²	<0.50	4.7	2.9 ²	---	---	21
	SVE A/S-Effluent	Air (mg/m ³)	<10	<0.10	<0.10	<0.10	<0.20	---	---	<0.50
	SVE-Effluent	Air (mg/m ³)	<10	<0.10	<0.10	<0.10	<0.20	---	---	<0.50
	GWE-Influent	Water (µg/L)	1,400 ¹	25	<5.0	15	7.9	7.5	1,700	1,600
	GWE A/S-Effluent	Water (µg/L)	320 ¹	<0.50	<0.50	<0.50	<0.50	0.65	1,600	170
	GWE-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
3/5/2007	SVE-Influent	Air (mg/m ³)	100	2.3 ²	<0.50	1.2	1.6	---	---	26
	SVE A/S-Effluent	Air (mg/m ³)	11	0.10	<0.10	0.13	<0.20	---	---	10
	SVE-Effluent	Air (mg/m ³)	<10	0.17	<0.10	0.28	<0.20	---	---	<0.50
	GWE-Influent	Water (µg/L)	1,500 ¹	20	<5.0	16	15	5.6	1,600	1,600
	GWE A/S-Effluent	Water (µg/L)	220 ¹	<0.50	<0.50	<0.50	<0.50	<0.50	1,600	200
	GWE-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
4/2/2007	SVE-Influent	Air (mg/m ³)	190	4.3 ²	<0.50	1.1	2.5	---	---	30
	SVE A/S-Effluent	Air (mg/m ³)	<10	<0.10	<0.10	<0.10	<0.20	---	---	5.2
	SVE-Effluent	Air (mg/m ³)	<10	<0.10	<0.10	<0.10	<0.20	---	---	<0.50
	GWE-Influent	Water (µg/L)	1,000 ¹	7.1	<5.0	6.7	16	6.6	1,200	1,200
	GWE A/S-Effluent	Water (µg/L)	94 ¹	<5.0	<5.0	<5.0	<5.0	<5.0	710	120
	GWE-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
5/1/2007	SVE-Influent	Air (mg/m ³)	160	<0.50	<0.50	<0.50	0.97	---	---	18
	SVE A/S-Effluent	Air (mg/m ³)	<50	<0.50	<0.50	<0.50	<0.50	---	---	11
	SVE-Effluent	Air (mg/m ³)	<50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50
	GWE-Influent	Water (µg/L)	900 ¹	<5.0	<5.0	<5.0	9.0	5.2	740	900
	GWE A/S-Effluent	Water (µg/L)	76 ¹	<0.50	<0.50	<0.50	<0.50	<0.50	640	66
	GWE-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
6/4/2007	SVE-Influent	Air (mg/m ³)	330	0.56	0.89	1.8	2.6	---	---	14
	SVE A/S-Effluent	Air (mg/m ³)	<50	<0.50	0.67	<0.50	1.3	---	---	3.7
	SVE-Effluent	Air (mg/m ³)	<50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50
	GWE-Influent	Water (µg/L)	540 ¹	<5.0	<5.0	13	12	<5.0	520	670
	GWE A/S-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	290	17
	GWE-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
7/2/2007	SVE-Influent	Air (mg/m ³)	180	<0.50	<0.50	<0.50	<1.0	---	---	11
	SVE A/S-Effluent	Air (mg/m ³)	<10	<0.10	<0.10	<0.10	<0.20	---	---	0.87
	SVE-Effluent	Air (mg/m ³)	<10	<0.10	<0.10	<0.10	<0.20	---	---	<0.50
	GWE-Influent	Water (µg/L)	370 ¹	<5.0	<5.0	<5.0	<5.0	<5.0	<200	400
	GWE A/S-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	84	35
	GWE-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
8/1/2007	SVE-Influent	Air (mg/m ³)	660	<1.0	<1.0	1.2	2.2	---	---	11
	SVE A/S-Effluent	Air (mg/m ³)	11	0.25	<0.10	0.21	0.22	---	---	11
	SVE-Effluent	Air (mg/m ³)	<10	<0.10	<0.10	<0.10	<0.20	---	---	<0.50
	GWE-Influent	Water (µg/L)	470	5.5	<5.0	9.1	17	<5.0	870	600
	GWE A/S-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	28	6.8
	GWE-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
9/5/2007	SVE-Influent	Air (mg/m ³)	1,200	0.79	<0.50	1.5	3.8	---	---	14
	SVE A/S-Effluent	Air (mg/m ³)	<50	<0.50	<0.50	<0.50	<0.50	---	---	5.1
	SVE-Effluent	Air (mg/m ³)	<50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50
	GWE-Influent	Water (µg/L)	410	5.6	<5.0	10	28	<5.0	830	580
	GWE A/S-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	830	37
	GWE-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50

Notes:
SVE = Soil Vapor Extraction
GWE = Groundwater Extraction
mg/m³ = milligrams per meter cubed
mg/L = milligrams per liter
GRO = gasoline range organics
MtBE = methyl tertiary butyl ether
TBA = tert-Butyl alcohol
-- = Not sampled.

¹ = Hydrocarbon result partly due to individual peak(s) in quantitation range
² = Primary and confirm results varied by > 40% RPD

**Table 6
Ground-Water Extraction System Performance Data**

ARCO Service Station No.2111
1156 Davis Street, San Leandro, California

Sample ID	Date Sampled	Notes	Totalizer Value (gallons)	Monthly Volume (gallons)	Average Discharge Rate (gpm)	GRO				Benzene				MTBE			
						Influent Concentration (µg/L)	Removal Rate (lbs/day)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concentration (µg/L)	Removal Rate (lbs/day)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concentration (µg/L)	Removal Rate (lbs/day)	Net Removed (pounds)	Removed To Date (pounds)
INFL	01/29/07		3,000	NA	NA	2,000	0.00	0.000	0.000	35	0.0E+00	0.000	0.000	1,300	0.0E+00	0.000	0.000
INFL	02/05/07		33,400	30,400	3.02	1,400	0.06	0.431	0.431	25.0	1.1E-03	0.008	0.008	1,600.00	5.3E-02	0.368	0.368
INFL	03/05/07		130,565	97,165	2.41	1,500	0.04	1.175	1.606	20.0	6.5E-04	0.018	0.026	1,600.00	4.6E-02	1.297	1.664
INFL	04/02/07		170,596	40,031	0.99	1,000	0.01	0.417	2.023	7.1	1.6E-04	0.005	0.030	1,200	1.7E-02	0.467	2.132
INFL	05/01/07		225,297	54,701	1.31	900	0.01	0.433	2.457	<5.0	7.6E-05	0.002	0.033	900	1.7E-02	0.479	2.611
INFL	06/04/07		429,450	204,153	4.17	540	0.04	1.226	3.683	<5.0	1.3E-04	0.004	0.037	670	3.9E-02	1.337	3.947
INFL	07/02/07		480,377	50,927	1.26	370	0.01	0.193	3.876	<5.0	0.0E+00	0.000	0.037	400	8.1E-03	0.227	4.174
INFL	08/01/07		580,301	99,924	2.31	470	0.01	0.350	4.226	5.5	3.5E-05	0.001	0.038	600	1.4E-02	0.417	4.591
INFL	09/05/07		589,944	9,643	0.19	410	0.00	0.035	4.261	5.6	5.7E-06	0.000	0.038	580	1.4E-03	0.047	4.639
REPORTING PERIOD: THIRD QUARTER 2007																	
PERIOD WATER DISCHARGED (gal):					160,494	as of 9/5/2007											
AVERAGE DISCHARGE RATE (gpm)					1.71												
PERIOD POUNDS REMOVED:							0.579					0.001				0.691	
PERIOD GALLONS REMOVED:							0.095					0.000				0.112	
TOTAL POUNDS REMOVED:								4.261					0.038				4.639
TOTAL GALLONS REMOVED:					589,944			0.699					0.005				0.751
ESTIMATED PERCENT CARBON LOADING:						14.9%											
Explanations:																	
µg/L = Micrograms per liter																	
gpm = Gallons per minute																	
lbs/day = Pounds per day																	
GRO = Gasoline range organics																	
MtBE = Methyl tertiary butyl ether																	
Density of gasoline = 6.1 pounds per gallon																	
Density of benzene = 7.34 pounds per gallon																	
Density of MtBE = 6.18 pounds per gallon																	
NA = Not applicable																	
Assumptions:																	
1) Primary carbon loading = 2,000 pounds of carbon (includes primary carbon unit only)																	
2) Percent carbon loading calculation assumes a loading isotherm of 3% by weight																	

Table 7
Ground-Water Extraction System Effluent Data

ARCO Service Station No. 2111
1156 Davis Street, San Leandro, California

Sample ID	Date Sampled	Notes	Totalizer Value (gallons)	Monthly Volume (gallons)	Average Discharge Rate (gpm)	Effluent Concentrations						
						GRO ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethyl-Benzene ($\mu\text{g/L}$)	Xylenes ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	MtBE ($\mu\text{g/L}$)
EFFL	01/29/07		3,000	NA	NA	<50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
EFFL	02/05/07		33,400	30,400	3.02	<50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
EFFL	03/05/07		130,565	97,165	2.41	<50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
EFFL	04/02/07		170,596	40,031	0.99	<50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
EFFL	05/01/07		225,297	54,701	1.31	<50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
EFFL	06/04/07		429,450	204,153	4.17	<50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
EFFL	07/02/07		480,377	50,927	1.26	<50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
EFFL	08/01/07		580,301	99,924	2.31	<50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
EFFL	09/05/07		589,944	9,643	0.19	<50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
REPORTING PERIOD: THIRD QUARTER 2007												
PERIOD WATER DISCHARGED (gal):					160,494	as of 9/5/2007						
AVERAGE DISCHARGE RATE (gpm)					1.71							
Explanations:												
$\mu\text{g/L}$	= Micrograms per liter											
mg/L	= Milligrams per liter											
gpm	= Gallons per minute											
GRO	= Gasoline Range Organics											
MtBE	= Methyl tertiary butyl ether											
NA	= Data not available											

Table 8
OPERATIONAL UPTIME INFORMATION FOR THE
SOIL VAPOR EXTRACTION SYSTEM

ARCO Service Station No. 2111
1156 Davis Street, San Leandro, California

Date	Hr. Meter	No. of Days Between Sampling Dates			Cumulative Days		Percent Uptime
	Reading	Total Days	Uptime	Days Down	Total Days	Uptime	
01/29/07	13.6	NA	NA	NA	NA	NA	NA
02/05/07	178.7	7	6.9	0.1	7	6.90	98%
03/05/07	437.6	28	10.8	17.2	35	17.7	39%
04/02/07	490.7	28	2.2	25.8	63	19.9	8%
05/01/07	594.2	29	4.3	24.7	92	24.2	15%
06/04/07	981.7	34	16.1	17.9	126	40.4	47%
07/02/07	1128.4	28	6.1	21.9	154	46.5	22%
08/01/07	1430.1	30	12.6	17.4	184	59.0	42%
09/05/07	1460.4	35	1.3	33.7	219	60.3	4%
NA = Not applicable							

Table 9
SOIL VAPOR EXTRACTION SYSTEM FLOW RATES AND AIR SAMPLE ANALYTICAL RESULTS

ARCO Service Station No. 2111
 1156 Davis Street, San Leandro, California

Date	Flow Rate (cfm)	Vacuum (in Hg)	Sampling Port	Analytes (mg/m ³)					
				GRO	Benzene	Toluene	Ethylbenzene	Xylenes	MtBE
01/29/07	198	21.0	Influent	77	<0.5	<0.5	<0.5	<1.0	9.4
			A/S-Effluent	<10	0.19	<0.10	0.10	<0.20	5.1
			Effluent	<10	<0.10	<0.10	<0.10	<0.20	<0.50
02/05/07	200	19.0	Influent	400	10	<0.5	4.7	2.9	21
			A/S-Effluent	<10	<0.10	<0.10	<0.10	<0.20	<0.50
			Effluent	<10	<0.10	<0.10	<0.10	<0.20	<0.50
03/05/07	180	24.0	Influent	100	2.3	<0.50	1.2	1.6	26
			A/S-Effluent	11	0.10	<0.10	0.13	<0.20	10
			Effluent	<10	0.17	<0.10	0.28	<0.20	<0.50
04/02/07	180	NR	Influent	190	4.3	<0.50	1.1	2.5	30
			A/S-Effluent	<10	<0.10	<0.10	<0.10	<0.20	5.2
			Effluent	<10	<0.10	<0.10	<0.10	<0.20	<0.50
05/01/07	180	NR	Influent	160	<0.50	<0.50	<0.50	0.97	18
			A/S-Effluent	<50	<0.50	<0.50	<0.50	<0.50	11
			Effluent	<50	<0.50	<0.50	<0.50	<0.50	<0.50
06/04/07	190	NR	Influent	330	0.56	0.89	1.8	2.6	14
			A/S-Effluent	<50	<0.50	0.67	<0.50	1.3	3.7
			Effluent	<50	<0.50	<0.50	<0.50	<0.50	<0.50
07/02/07	200	NR	Influent	180	<0.50	<0.50	<0.50	<1.0	11
			A/S-Effluent	<10	<0.10	<0.10	<0.10	<0.20	0.87
			Effluent	<10	<0.10	<0.10	<0.10	<0.20	<0.50
08/01/07	200	NR	Influent	660	<1.0	<1.0	1.2	2.2	11
			A/S-Effluent	11	0.25	<0.10	0.21	0.22	11
			Effluent	<10	<0.10	<0.10	<0.10	<0.20	<0.50
09/05/07	190	NR	Influent	1,200	0.79	<0.50	1.5	3.8	14
			A/S-Effluent	<50	<0.50	<0.50	<0.50	<0.50	5.1
			Effluent	<50	<0.50	<0.50	<0.50	<0.50	<0.50

Notes:
 mg/m³ = milligrams per cubic meter NR = not recorded
 in Hg = inches of mercury
 cfm = cubic feet per second
 GRO = gasoline range organics
 MtBE = methyl tertiary butyl ether

Table 10

SOIL VAPOR EXTRACTION SYSTEM EXTRACTION AND EMISSION RATES

ARCO Service Station No. 2111
1156 Davis Street, San Leandro, California

Date	Extraction Rate from Wells (lbs/day)		Emissions Rate to Atmosphere (lbs/day)		Destruction Removal Efficiency, %		Cumulative GRO Removal (lbs)	
	GRO	Benzene	GRO	Benzene	GRO	Benzene	Period	Total
1/29/2007	1.35	0.00	0.09	0.00	93.5%	80.0%	1.35	1.35
2/5/2007	7.10	0.18	0.09	0.00	98.8%	99.5%	29.18	30.53
3/5/2007	1.60	0.04	0.08	0.00	95.0%	92.6%	47.00	77.53
4/2/2007	3.04	0.07	0.08	0.00	97.4%	98.8%	5.10	82.63
5/1/2007*	2.56	0.00	0.40	0.00	84.4%	0.0%	12.03	94.66
6/4/2007*	5.28	0.01	0.42	0.00	92.0%	55.4%	63.06	157.72
7/2/2007	3.20	0.00	0.09	0.00	97.2%	80.0%	25.84	183.56
8/1/2007	11.72	0.01	0.09	0.00	99.2%	90.0%	94.00	277.56
9/5/2007*	20.25	0.01	0.42	0.00	97.9%	68.4%	20.78	298.34
<u>Air Permit Limits</u>								
DRE shall be at least 95%								
Daily emission rates will not exceed two lbs. VOC in any one day								
Wells (lbs/day)	min	cu meter	cuft	454,000 mg	day			
	=	19.27 lbs/day						
Dest. Removal =		$\frac{19.27 - (<0.12)}{19.27}$	x 100 =	99.35%				
Efficiency, %								
<u>Notes</u>								
* = Benzene results negligible, DRE not a true representation								

Figure 1
Cumulative GWE Mass Removal for GRO, Benzene, and MTBE
Station #2111, 1156 Davis Street, San Leandro, California

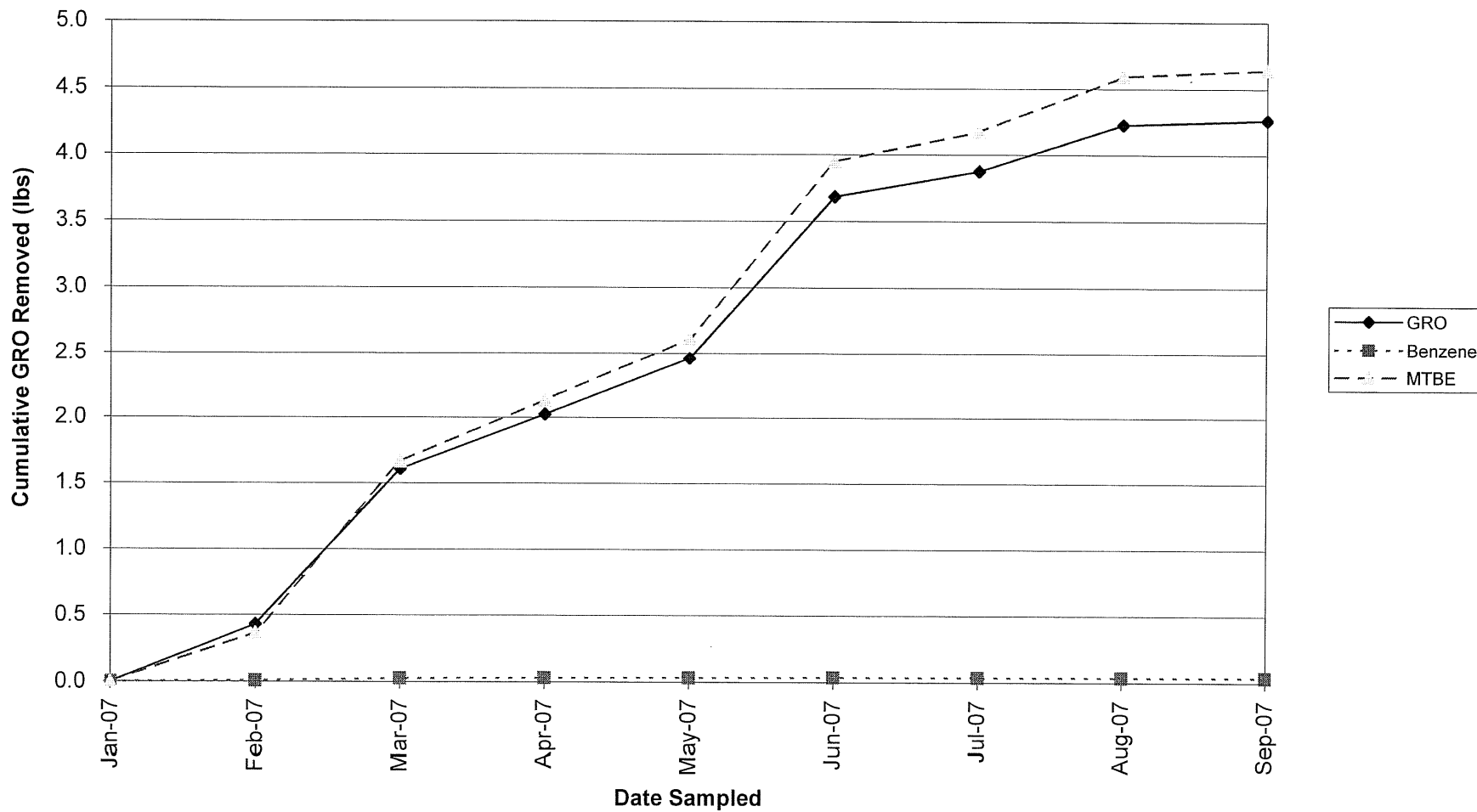


Figure 2
GWE Influent Concentrations for GRO, Benzene, and MTBE
Station #2111, 1156 Davis Street, San Leandro, California

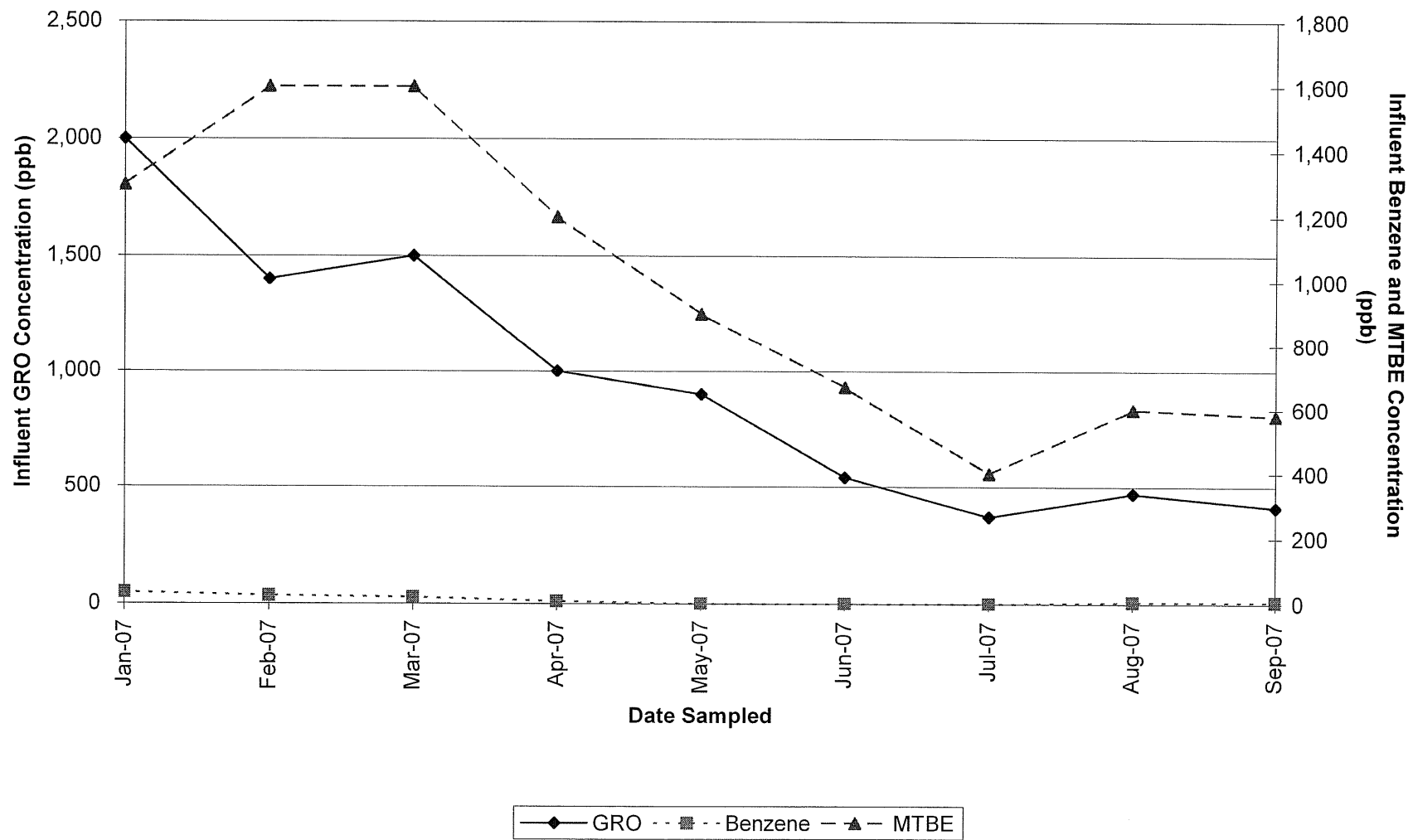


Figure 3
SVE System Influent Concentration vs. Time
Station #2111, 1156 Davis Street, San Leandro, California

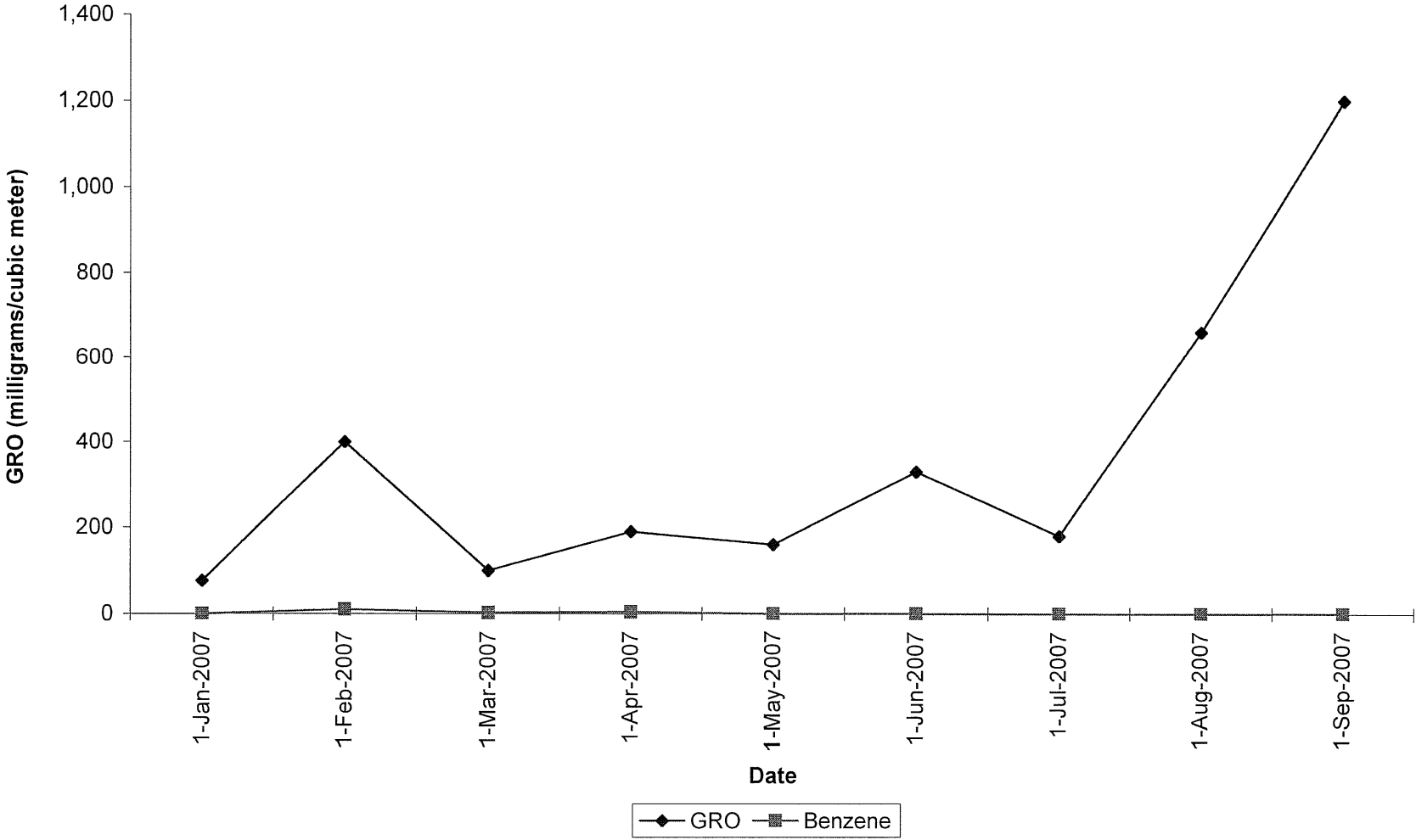
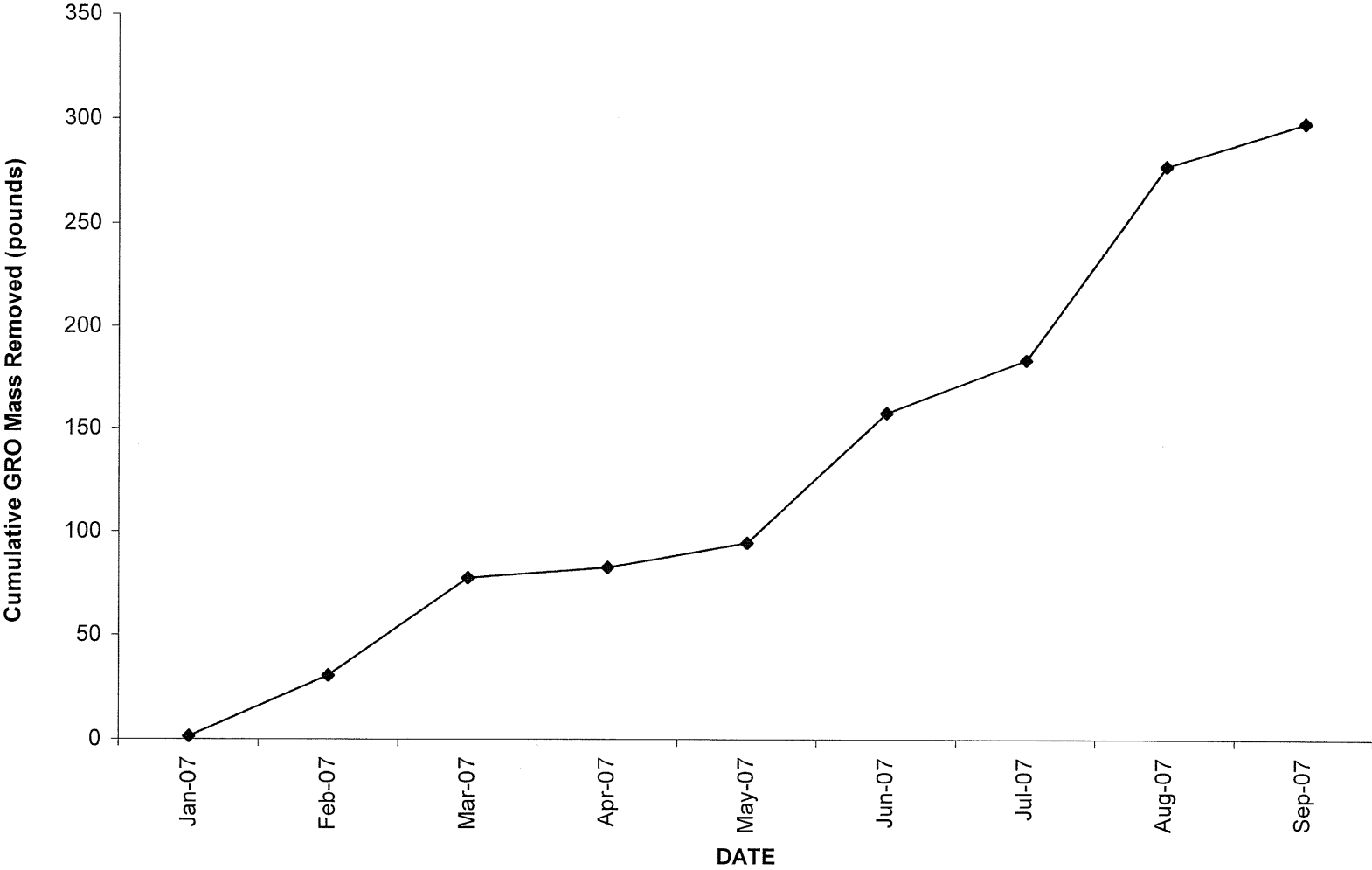


Figure 4
SVE System Cumulative GRO Mass Removed vs. Time
Station #2111, 1156 Davis Street, San Leandro, California



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

August 9, 2007

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

Re: Groundwater Sampling Data Package, BP Service Station No. 2111, located at
1156 Davis Street., San Leandro, California

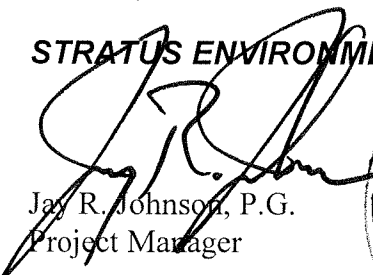
General Information

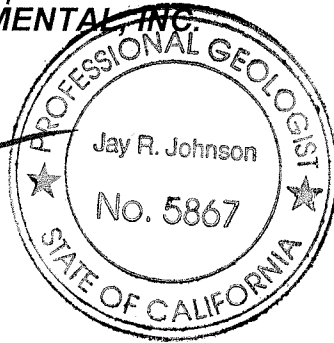
Data Submittal Prepared / Reviewed by: Sandy Hayes / Jay Johnson
Phone Number: (530) 676-6000
On-Site Supplier Representatives: Vince Zalutka and David DeMello
Date: July 17, 2007
Arrival: 04:30 *Departure:* 07:15
Weather Conditions: Clear
Unusual Field Conditions: None
Scope of Work Performed: Quarterly monitoring and sampling
Variations from Work Scope: None

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

Sincerely,

STRATUS ENVIRONMENTAL, INC.


Jay R. Johnson, P.G.
Project Manager



Attachments:

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

CC: Mr. Paul Supple, BP/ARCO



Global ID: T0600101764
 Site Address 1156 Davis St.
 City San Leandro
 Sampled By: David D & VinceZ

ORIGINAL

Site Number Arco 2111
 Project No E2111-03
 Project PM Jay Johnson
 Date 07-17-07

Signature UJ Date: 7-17-07

* = 6 VOA's

Water Level Data					Purge Volume Calculations					Well Purge Method				Sample Record			Field Data
Well ID	Time	Depth to water feet	Top of Screen feet	Qtr. Meas. Depth of Well (feet)	Casing Water Column (A)	Well Diameter (Inches)	Multiplier Value (B)	Three Casing Volumes (Gallons)	Actual Water Purged (Gallons)	No Purge	Bailer	Pump	Other	DTW At Sample Time	Sample I.D.	Sample time	Dissolved Oxygen (mg/L)
MW-1	0624	20.85	12.5	26.08	∅	4	2	∅	∅	X				No Purge	MW-1	0626	1.91
MW-2	0602	18.00	12	26.52	∅	4	2	∅	∅						MW-2	0614	4.04
MW-3	0648	19.40	12	26.16	∅	4	2	∅	∅						MW-3	0647	4.25
MW-4	0530	16.10	10	21.45	∅	4	2	∅	∅						MW-4	0537	3.73
MW-5	0440	15.55	9.5	23.47	∅	2	0.5	∅	∅						MW-5	0445	5.07
MW-6	0513	14.08	10	20.31	∅	2	0.5	∅	∅						MW-6	0520	4.40
MW-7	0547	23.75	12	26.29	∅	4	2	∅	∅						MW-7	0554	4.23
MW-8	0610	16.76	18	38.88	∅	2	0.5	∅	∅						MW-8	0617	1.85
															0		
															0		
															0		
TB															TB	0450	
															0		
															0		
															0		
															0		
															0		
															0		
															0		
															0		
															0		
															0		

Multiplier Values
 2" = 0.5 3" = 1.0 4"=2.0 6"=4.4



Site Address 1156 Davis St.
 City San Leandro
 Sampled By: David D & VinceZ

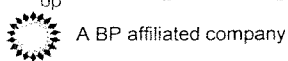
Site Number Arco 2111
 Project No E2111-03
 Project PM Jay Johnson
 Date 7-17-07

ORIGINAL

13

Well ID MW-1 0626					Well ID MW-2 0614							
purge start time <i>Bailer No Odor</i>					purge start time <i>Sample Port No Odor</i>							
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons			
time					time	22.0	7.09	689	Ø			
time	20.1	6.98	679	Ø	time	_____						
time	_____											
time					_____							
purge stop time <i>ORP (179)</i>									purge stop time <i>ORP (183)</i>			
Well ID MW-3 0647					Well ID MW-4 0537							
purge start time <i>Bailer No Odor</i>					purge start time <i>Bailer No Odor</i>							
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons			
time	19.6	7.27	678	Ø	time	20.2	6.87	763	Ø			
time	_____				time	_____						
time					_____							
time										_____		
purge stop time <i>ORP (177)</i>					purge stop time <i>ORP (173)</i>							
Well ID MW-5 0445					Well ID MW-6 0520							
Purge start time <i>Bailer No Odor</i>					Purge start time <i>Bailer No Odor</i>							
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons			
time	20.1	7.02	712	Ø	time	20.9	7.02	684	Ø			
time	_____				time	_____						
time					_____							
time										_____		
purge stop time <i>ORP (142)</i>					purge stop time <i>ORP (155)</i>							
Well ID MW-7 0554					Well ID MW-8 0617							
purge start time <i>Bailer No Odor</i>					purge start time <i>Bailer No Odor</i>							
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons			
time	19.7	7.41	699	Ø	time	20.1	6.97	676	Ø			
time	_____				time	_____						
time					_____							
time										_____		
purge stop time <i>ORP (176)</i>					purge stop time <i>ORP (180)</i>							

Atlantic Richfield Company



Chain of Custody Record

ORIGINAL

Project Name: ARCO 2111
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > 2111
 State or Lead Regulatory Agency: _____
 Requested Due Date (mm/dd/yy): STD-TAT

On-site Time: <u>0430</u>	Temp: <u>60.5</u>
Off-site Time: <u>0715</u>	Temp: <u>60.5</u>
Sky Conditions: <u>Clear</u>	
Meteorological Events: <u>-</u>	
Wind Speed: <u>-</u>	Direction: _____

Lab Name: TestAmerica	BP/AR Facility No.: 2111	Consultant/Contractor: Stratus Environmental, Inc.
Address: 885 Jarvis Drive	BP/AR Facility Address: 1156 Davis Street, San Leandro	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 No.: T0600101764	Consultant/Contractor Project No.: E2111-03
Tele/Fax: 408-782-8156 408-782-6308 (fax)	Enfos Project No.: G0C28-0028	Consultant/Contractor PM: Jay Johnson
BP/AR PM Contact: Paul Supple	Provision or OOC (circle one) Provision	Tele/Fax: (530) 676-6000 / (530) 676-6005
Address: 2010 Crow Canyon Place, Suite 150	Phase/WBS: 04-Monitoring	Report Type & QC Level: Level 1 with EDF
San Ramon, CA	Sub Phase/Task: 03-Analytical	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: 925-275-3506	Cost Element: 01-Contractor labor	Invoice to: Atlantic Richfield Co.

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Point Lat/Long and Comments					
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO/BTEX/Oxy*	1,2-DCA	Ethanol	EDB	DRO						
			2007																					
1	MW-1	0626	07/17	X			3			X		X	X	X	X									
2	MW-2	0614					3																	
3	MW-3	0647					3																	
4	MW-4	0537					3																	
5	MW-5	0445					6																	
6	MW-6	0520					3																	
7	MW-7	0554					3																	
8	MW-8	0617					3																	
9	TB-2111	0450					2	→ HOLD																
10																								

Sampler's Name: <u>David De Mello</u>	Relinquished By / Affiliation: <u>David De Mello / STRATUS ENV.</u>	Date: <u>01-17-07</u>	Time: <u>0912</u>	Accepted By / Affiliation: <u>Cheng Yue TestAmerica-USA</u>	Date: <u>7/17/07</u>	Time: <u>0912</u>
Sampler's Company: <u>STRATUS ENVIRONMENTAL</u>						
Shipment Date: <u>7/17/07</u>						
Shipment Method: <u>IN PERSON</u>						
Shipment Tracking No:						

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

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

1 August, 2007

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

RE: ARCO #2111, San Leandro, CA
Work Order: MQG0660

Enclosed are the results of analyses for samples received by the laboratory on 07/17/07 19:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa Race
Senior Project Manager

CA ELAP Certificate # 1210

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

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0028 Project Manager: Jay Johnson	MQG0660 Reported: 08/01/07 16:40
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MQG0660-01	Water	07/17/07 06:26	07/17/07 19:25
MW-2	MQG0660-02	Water	07/17/07 06:14	07/17/07 19:25
MW-3	MQG0660-03	Water	07/17/07 06:47	07/17/07 19:25
MW-4	MQG0660-04	Water	07/17/07 05:37	07/17/07 19:25
MW-5	MQG0660-05	Water	07/17/07 04:45	07/17/07 19:25
MW-6	MQG0660-06	Water	07/17/07 05:20	07/17/07 19:25
MW-7	MQG0660-07	Water	07/17/07 05:54	07/17/07 19:25
MW-8	MQG0660-08	Water	07/17/07 06:17	07/17/07 19:25
TB-2111	MQG0660-09	Water	07/17/07 04:50	07/17/07 19:25

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies.

These samples were received with no custody seals.

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0028 Project Manager: Jay Johnson	MQG0660 Reported: 08/01/07 16:40
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Total Purgeable Hydrocarbons by GC/MS (CA LUFT)
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MQG0660-01) Water Sampled: 07/17/07 06:26 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7G26008	07/26/07	07/26/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		100 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		95 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85 %	60-135		"	"	"	"	
MW-2 (MQG0660-02) Water Sampled: 07/17/07 06:14 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	1100	250	ug/l	5	7G26008	07/26/07	07/26/07	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		99 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		100 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97 %	60-135		"	"	"	"	
MW-3 (MQG0660-03) Water Sampled: 07/17/07 06:47 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7G25004	07/25/07	07/25/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		108 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		93 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95 %	60-135		"	"	"	"	
MW-4 (MQG0660-04) Water Sampled: 07/17/07 05:37 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7G24017	07/24/07	07/25/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		104 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		96 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89 %	60-135		"	"	"	"	

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0028
Project Manager: Jay Johnson

MQG0660
Reported:
08/01/07 16:40

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-5 (MQG0660-05) Water Sampled: 07/17/07 04:45 Received: 07/17/07 19:25

Gasoline Range Organics (C4-C12)	53	50	ug/l	1	7G26008	07/26/07	07/26/07	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		106 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		99 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		100 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89 %	60-135		"	"	"	"	

MW-6 (MQG0660-06) Water Sampled: 07/17/07 05:20 Received: 07/17/07 19:25

Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7G24017	07/24/07	07/25/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		107 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		98 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		95 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88 %	60-135		"	"	"	"	

MW-7 (MQG0660-07) Water Sampled: 07/17/07 05:54 Received: 07/17/07 19:25

Gasoline Range Organics (C4-C12)	560	250	ug/l	5	7G26008	07/26/07	07/26/07	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		102 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		98 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		99 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89 %	60-135		"	"	"	"	

MW-8 (MQG0660-08) Water Sampled: 07/17/07 06:17 Received: 07/17/07 19:25

Gasoline Range Organics (C4-C12)	63	50	ug/l	1	7G24017	07/24/07	07/25/07	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		110 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		95 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89 %	60-135		"	"	"	"	

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0028 Project Manager: Jay Johnson	MQG0660 Reported: 08/01/07 16:40
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-1 (MQG0660-01) Water Sampled: 07/17/07 06:26 Received: 07/17/07 19:25

tert-Amyl methyl ether	2.3	1.0	ug/l	2	7G24017	07/24/07	07/25/07	EPA 8260B	
Benzene	ND	1.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	40	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Ethanol	ND	600	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	94	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane	104 %	75-120	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	106 %	60-125	"	"	"	"	"	"	
Surrogate: Toluene-d8	97 %	80-120	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94 %	60-135	"	"	"	"	"	"	

MW-2 (MQG0660-02) Water Sampled: 07/17/07 06:14 Received: 07/17/07 19:25

tert-Amyl methyl ether	ND	10	ug/l	20	7G24017	07/24/07	07/25/07	EPA 8260B	
Benzene	53	10	"	"	"	"	"	"	
tert-Butyl alcohol	1000	400	"	"	"	"	"	"	
Di-isopropyl ether	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
Ethanol	ND	6000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
Ethylbenzene	28	10	"	"	"	"	"	"	
Methyl tert-butyl ether	1300	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane	99 %	75-120	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	107 %	60-125	"	"	"	"	"	"	
Surrogate: Toluene-d8	99 %	80-120	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95 %	60-135	"	"	"	"	"	"	

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0028
Project Manager: Jay Johnson

MQG0660
Reported:
08/01/07 16:40

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-3 (MQG0660-03) Water Sampled: 07/17/07 06:47 Received: 07/17/07 19:25

tert-Amyl methyl ether	1.5	0.50	ug/l	1	7G25004	07/25/07	07/25/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	19	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		108 %		75-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %		60-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		93 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95 %		60-135	"	"	"	"	

MW-4 (MQG0660-04) Water Sampled: 07/17/07 05:37 Received: 07/17/07 19:25

tert-Amyl methyl ether	1.7	0.50	ug/l	1	7G24017	07/24/07	07/25/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	6.6	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		97 %		75-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %		60-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		89 %		60-135	"	"	"	"	

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0028 Project Manager: Jay Johnson	MQG0660 Reported: 08/01/07 16:40
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-5 (MQG0660-05) Water Sampled: 07/17/07 04:45 Received: 07/17/07 19:25

tert-Amyl methyl ether	ND	2.5	ug/l	5	7G24017	07/24/07	07/25/07	EPA 8260B	
Benzene	ND	2.5	"	"	"	"	"	"	
tert-Butyl alcohol	1100	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	1500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	6.6	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		94 %		75-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %		60-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		85 %		60-135	"	"	"	"	

MW-6 (MQG0660-06) Water Sampled: 07/17/07 05:20 Received: 07/17/07 19:25

tert-Amyl methyl ether	ND	0.50	ug/l	1	7G24017	07/24/07	07/25/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		98 %		75-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %		60-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		95 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		88 %		60-135	"	"	"	"	

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0028
Project Manager: Jay Johnson

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-7 (MQG0660-07) Water Sampled: 07/17/07 05:54 Received: 07/17/07 19:25

tert-Amyl methyl ether	ND	25	ug/l	50	7G24017	07/24/07	07/25/07	EPA 8260B	
Benzene	ND	25	"	"	"	"	"	"	
tert-Butyl alcohol	ND	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
Ethanol	ND	15000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Methyl tert-butyl ether	890	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane

100 % 75-120

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Surrogate: 1,2-Dichloroethane-d4

106 % 60-125

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Surrogate: Toluene-d8

98 % 80-120

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Surrogate: 4-Bromofluorobenzene

87 % 60-135

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MW-8 (MQG0660-08) Water Sampled: 07/17/07 06:17 Received: 07/17/07 19:25

tert-Amyl methyl ether	1.2	0.50	ug/l	1	7G24017	07/24/07	07/25/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	110	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	96	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane

100 % 75-120

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Surrogate: 1,2-Dichloroethane-d4

110 % 60-125

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Surrogate: Toluene-d8

95 % 80-120

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Surrogate: 4-Bromofluorobenzene

89 % 60-135

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Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0028 Project Manager: Jay Johnson	MQG0660 Reported: 08/01/07 16:40
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Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G24017 - EPA 5030B P/T / LUFT GCMS

Blank (7G24017-BLK1) Prepared & Analyzed: 07/24/07

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.86		"	2.50		114	60-125			
Surrogate: Dibromofluoromethane	2.78		"	2.50		111	75-120			
Surrogate: Toluene-d8	2.54		"	2.50		102	80-120			
Surrogate: 4-Bromofluorobenzene	2.44		"	2.50		98	60-135			

Laboratory Control Sample (7G24017-BS2) Prepared & Analyzed: 07/24/07

Gasoline Range Organics (C4-C12)	409	50	ug/l	500		82	65-120			
Surrogate: 1,2-Dichloroethane-d4	2.66		"	2.50		106	60-125			
Surrogate: Dibromofluoromethane	2.59		"	2.50		104	75-120			
Surrogate: Toluene-d8	2.63		"	2.50		105	80-120			
Surrogate: 4-Bromofluorobenzene	2.62		"	2.50		105	60-135			

Laboratory Control Sample Dup (7G24017-BSD2) Prepared & Analyzed: 07/24/07

Gasoline Range Organics (C4-C12)	409	50	ug/l	500		82	65-120	0.04	20	
Surrogate: 1,2-Dichloroethane-d4	2.71		"	2.50		108	60-125			
Surrogate: Dibromofluoromethane	2.60		"	2.50		104	75-120			
Surrogate: Toluene-d8	2.57		"	2.50		103	80-120			
Surrogate: 4-Bromofluorobenzene	2.60		"	2.50		104	60-135			

Batch 7G25004 - EPA 5030B P/T / LUFT GCMS

Blank (7G25004-BLK1) Prepared & Analyzed: 07/25/07

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.41		"	2.50		96	60-125			
Surrogate: Dibromofluoromethane	2.48		"	2.50		99	75-120			
Surrogate: Toluene-d8	2.33		"	2.50		93	80-120			
Surrogate: 4-Bromofluorobenzene	2.43		"	2.50		97	60-135			

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0028
Project Manager: Jay Johnson

MQG0660
Reported:
08/01/07 16:40

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G25004 - EPA 5030B P/T / LUFT GCMS

Laboratory Control Sample (7G25004-BS2)

Prepared & Analyzed: 07/25/07

Gasoline Range Organics (C4-C12)	501	50	ug/l	500		100	65-120			
Surrogate: 1,2-Dichloroethane-d4	2.38		"	2.50		95	60-125			
Surrogate: Dibromofluoromethane	2.42		"	2.50		97	75-120			
Surrogate: Toluene-d8	2.55		"	2.50		102	80-120			
Surrogate: 4-Bromofluorobenzene	2.70		"	2.50		108	60-135			

Laboratory Control Sample Dup (7G25004-BSD2)

Prepared & Analyzed: 07/25/07

Gasoline Range Organics (C4-C12)	492	50	ug/l	500		98	65-120	2	20	
Surrogate: 1,2-Dichloroethane-d4	2.25		"	2.50		90	60-125			
Surrogate: Dibromofluoromethane	2.38		"	2.50		95	75-120			
Surrogate: Toluene-d8	2.35		"	2.50		94	80-120			
Surrogate: 4-Bromofluorobenzene	2.56		"	2.50		102	60-135			

Batch 7G26008 - EPA 5030B P/T / LUFT GCMS

Blank (7G26008-BLK1)

Prepared & Analyzed: 07/26/07

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.47		"	2.50		99	60-125			
Surrogate: Dibromofluoromethane	2.55		"	2.50		102	75-120			
Surrogate: Toluene-d8	2.45		"	2.50		98	80-120			
Surrogate: 4-Bromofluorobenzene	2.30		"	2.50		92	60-135			

Laboratory Control Sample (7G26008-BS2)

Prepared & Analyzed: 07/26/07

Gasoline Range Organics (C4-C12)	433	50	ug/l	500		87	65-120			
Surrogate: 1,2-Dichloroethane-d4	2.48		"	2.50		99	60-125			
Surrogate: Dibromofluoromethane	2.45		"	2.50		98	75-120			
Surrogate: Toluene-d8	2.63		"	2.50		105	80-120			
Surrogate: 4-Bromofluorobenzene	2.57		"	2.50		103	60-135			

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0028 Project Manager: Jay Johnson	MQG0660 Reported: 08/01/07 16:40
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Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G26008 - EPA 5030B P/T / LUFT GCMS

Laboratory Control Sample Dup (7G26008-BSD2)				Prepared & Analyzed: 07/26/07						
Gasoline Range Organics (C4-C12)	417	50	ug/l	500		83	65-120	4	20	
Surrogate: 1,2-Dichloroethane-d4	2.44		"	2.50		98	60-125			
Surrogate: Dibromofluoromethane	2.46		"	2.50		98	75-120			
Surrogate: Toluene-d8	2.61		"	2.50		104	80-120			
Surrogate: 4-Bromofluorobenzene	2.63		"	2.50		105	60-135			

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0028 Project Manager: Jay Johnson	MQG0660 Reported: 08/01/07 16:40
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G24017 - EPA 5030B P/T / EPA 8260B

Blank (7G24017-BLK1)										
										Prepared & Analyzed: 07/24/07
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	300	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	2.78		"	2.50		111	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.86		"	2.50		114	60-125			
<i>Surrogate: Toluene-d8</i>	2.54		"	2.50		102	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.44		"	2.50		98	60-135			

Laboratory Control Sample (7G24017-BS1)										
										Prepared & Analyzed: 07/24/07
tert-Amyl methyl ether	13.0	0.50	ug/l	10.0		130	65-135			
Benzene	11.1	0.50	"	10.0		111	75-120			
tert-Butyl alcohol	220	20	"	200		110	60-135			
Di-isopropyl ether	12.6	0.50	"	10.0		126	70-130			
1,2-Dibromoethane (EDB)	12.3	0.50	"	10.0		123	80-135			
1,2-Dichloroethane	12.4	0.50	"	10.0		124	70-125			
Ethanol	206	300	"	200		103	15-150			
Ethyl tert-butyl ether	12.8	0.50	"	10.0		128	65-130			
Ethylbenzene	11.8	0.50	"	10.0		118	75-120			
Methyl tert-butyl ether	12.8	0.50	"	10.0		128	50-140			
Toluene	11.9	0.50	"	10.0		119	75-120			
Xylenes (total)	36.1	0.50	"	30.0		120	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.67		"	2.50		107	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.65		"	2.50		106	60-125			
<i>Surrogate: Toluene-d8</i>	2.55		"	2.50		102	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.65		"	2.50		106	60-135			

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

Project: ARCO #2111, San Leandro, CA
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Project Manager: Jay Johnson

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G24017 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7G24017-MS1)	Source: MQG0660-03RE1			Prepared & Analyzed: 07/24/07						
tert-Amyl methyl ether	15.4	0.50	ug/l	10.0	1.54	138	65-135			LM,AY
Benzene	10.9	0.50	"	10.0	ND	109	75-120			
tert-Butyl alcohol	217	20	"	200	ND	109	60-135			
Di-isopropyl ether	12.7	0.50	"	10.0	ND	127	70-130			
1,2-Dibromoethane (EDB)	12.2	0.50	"	10.0	ND	122	80-135			
1,2-Dichloroethane	12.2	0.50	"	10.0	ND	122	70-125			
Ethanol	198	300	"	200	ND	99	15-150			
Ethyl tert-butyl ether	12.9	0.50	"	10.0	ND	129	65-130			
Ethylbenzene	11.3	0.50	"	10.0	ND	113	75-120			
Methyl tert-butyl ether	33.5	0.50	"	10.0	18.6	150	50-140			LM,AY
Toluene	11.6	0.50	"	10.0	ND	116	75-120			
Xylenes (total)	34.5	0.50	"	30.0	ND	115	75-130			
Surrogate: Dibromofluoromethane	2.65		"	2.50		106	75-120			
Surrogate: 1,2-Dichloroethane-d4	2.82		"	2.50		113	60-125			
Surrogate: Toluene-d8	2.55		"	2.50		102	80-120			
Surrogate: 4-Bromofluorobenzene	2.72		"	2.50		109	60-135			

Matrix Spike Dup (7G24017-MSD1)	Source: MQG0660-03RE1			Prepared & Analyzed: 07/24/07						
tert-Amyl methyl ether	14.9	0.50	ug/l	10.0	1.54	134	65-135	3	25	
Benzene	11.0	0.50	"	10.0	ND	110	75-120	0.6	20	
tert-Butyl alcohol	215	20	"	200	ND	107	60-135	1	25	
Di-isopropyl ether	12.6	0.50	"	10.0	ND	126	70-130	0.6	25	
1,2-Dibromoethane (EDB)	11.8	0.50	"	10.0	ND	118	80-135	4	30	
1,2-Dichloroethane	12.2	0.50	"	10.0	ND	122	70-125	0.5	25	
Ethanol	236	300	"	200	ND	118	15-150	17	25	
Ethyl tert-butyl ether	12.6	0.50	"	10.0	ND	126	65-130	2	25	
Ethylbenzene	11.3	0.50	"	10.0	ND	113	75-120	0.09	20	
Methyl tert-butyl ether	32.5	0.50	"	10.0	18.6	140	50-140	3	25	
Toluene	11.6	0.50	"	10.0	ND	116	75-120	0.4	25	
Xylenes (total)	34.4	0.50	"	30.0	ND	115	75-130	0.1	20	
Surrogate: Dibromofluoromethane	2.70		"	2.50		108	75-120			
Surrogate: 1,2-Dichloroethane-d4	2.65		"	2.50		106	60-125			
Surrogate: Toluene-d8	2.52		"	2.50		101	80-120			
Surrogate: 4-Bromofluorobenzene	2.71		"	2.50		108	60-135			

TestAmerica - Morgan Hill, CA

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

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0028
Project Manager: Jay Johnson

MQG0660
Reported:
08/01/07 16:40

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G25004 - EPA 5030B P/T / EPA 8260B

Blank (7G25004-BLK1)

Prepared & Analyzed: 07/25/07

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	300	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	2.48		"	2.50		99	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.41		"	2.50		96	60-125			
<i>Surrogate: Toluene-d8</i>	2.33		"	2.50		93	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.43		"	2.50		97	60-135			

Laboratory Control Sample (7G25004-BS1)

Prepared & Analyzed: 07/25/07

tert-Amyl methyl ether	9.49	0.50	ug/l	10.0		95	65-135			
Benzene	9.45	0.50	"	10.0		94	75-120			
tert-Butyl alcohol	201	20	"	200		100	60-135			
Di-isopropyl ether	9.57	0.50	"	10.0		96	70-130			
1,2-Dibromoethane (EDB)	9.97	0.50	"	10.0		100	80-135			
1,2-Dichloroethane	10.2	0.50	"	10.0		102	70-125			
Ethanol	164	300	"	200		82	15-150			
Ethyl tert-butyl ether	10.1	0.50	"	10.0		101	65-130			
Ethylbenzene	9.71	0.50	"	10.0		97	75-120			
Methyl tert-butyl ether	9.80	0.50	"	10.0		98	50-140			
Toluene	9.65	0.50	"	10.0		96	75-120			
Xylenes (total)	28.2	0.50	"	30.0		94	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.47		"	2.50		99	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.43		"	2.50		97	60-125			
<i>Surrogate: Toluene-d8</i>	2.38		"	2.50		95	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.58		"	2.50		103	60-135			

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0028 Project Manager: Jay Johnson	MQG0660 Reported: 08/01/07 16:40
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G25004 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7G25004-MS1)	Source: MQG0749-02	Prepared & Analyzed: 07/25/07								
tert-Amyl methyl ether	8.55	0.50	ug/l	10.0	ND	86	65-135			
Benzene	9.72	0.50	"	10.0	ND	97	75-120			
tert-Butyl alcohol	204	20	"	200	ND	102	60-135			
Di-isopropyl ether	9.96	0.50	"	10.0	ND	100	70-130			
1,2-Dibromoethane (EDB)	8.84	0.50	"	10.0	ND	88	80-135			
1,2-Dichloroethane	9.58	0.50	"	10.0	ND	96	70-125			
Ethanol	176	300	"	200	ND	88	15-150			
Ethyl tert-butyl ether	9.97	0.50	"	10.0	ND	100	65-130			
Ethylbenzene	9.59	0.50	"	10.0	ND	96	75-120			
Methyl tert-butyl ether	8.86	0.50	"	10.0	ND	89	50-140			
Toluene	9.76	0.50	"	10.0	ND	98	75-120			
Xylenes (total)	30.0	0.50	"	30.0	ND	100	75-130			
Surrogate: Dibromofluoromethane	2.34		"	2.50		94	75-120			
Surrogate: 1,2-Dichloroethane-d4	2.17		"	2.50		87	60-125			
Surrogate: Toluene-d8	2.44		"	2.50		98	80-120			
Surrogate: 4-Bromofluorobenzene	2.46		"	2.50		98	60-135			

Matrix Spike Dup (7G25004-MSD1)	Source: MQG0749-02	Prepared & Analyzed: 07/25/07								
tert-Amyl methyl ether	9.81	0.50	ug/l	10.0	ND	98	65-135	14	25	
Benzene	9.91	0.50	"	10.0	ND	99	75-120	2	20	
tert-Butyl alcohol	209	20	"	200	ND	105	60-135	3	25	
Di-isopropyl ether	10.2	0.50	"	10.0	ND	102	70-130	2	25	
1,2-Dibromoethane (EDB)	9.98	0.50	"	10.0	ND	100	80-135	12	30	
1,2-Dichloroethane	10.6	0.50	"	10.0	ND	106	70-125	10	25	
Ethanol	178	300	"	200	ND	89	15-150	1	25	
Ethyl tert-butyl ether	10.7	0.50	"	10.0	ND	107	65-130	7	25	
Ethylbenzene	10.6	0.50	"	10.0	ND	106	75-120	10	20	
Methyl tert-butyl ether	10.1	0.50	"	10.0	ND	101	50-140	13	25	
Toluene	10.1	0.50	"	10.0	ND	101	75-120	3	25	
Xylenes (total)	31.0	0.50	"	30.0	ND	103	75-130	3	20	
Surrogate: Dibromofluoromethane	2.46		"	2.50		98	75-120			
Surrogate: 1,2-Dichloroethane-d4	2.54		"	2.50		102	60-125			
Surrogate: Toluene-d8	2.50		"	2.50		100	80-120			
Surrogate: 4-Bromofluorobenzene	2.48		"	2.50		99	60-135			

TestAmerica - Morgan Hill, CA

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

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0028
Project Manager: Jay Johnson

MQG0660
Reported:
08/01/07 16:40

Notes and Definitions

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

LM,AY MS and/or MSD above acceptance limits. See Blank Spike(LCS). Matrix interference suspected.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Atlantic Richfield Company

bp
A BP affiliated company

Chain of Custody Record

Project Name: ARCO 2111
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > 2111
 State or Lead Regulatory Agency: _____
 Requested Due Date (mm/dd/yy): STD-TAT

On-site Time: <u>0430</u>	Temp: <u>60.5</u>
Off-site Time: <u>0715</u>	Temp: <u>60.5</u>
Sky Conditions: <u>Clear</u>	
Meteorological Events: <u>-</u>	
Wind Speed: <u>-</u>	Direction: _____

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>2111</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u> <u>Morgan Hill, CA 95937</u>	BP/AR Facility Address: <u>1156 Davis Street, San Leandro</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u> <u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	Site Lat/Long: _____	Consultant/Contractor Project No.: <u>E2111-03</u>
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	California Global ID No.: <u>T0600101764</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Enfos Project No.: <u>G0C28-0028</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u> <u>San Ramon, CA</u>	Provision or OOC (circle one) <u>Provision</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
Tele/Fax: <u>925-275-3506</u>	Phase/WBS: <u>04-Monitoring</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
	Sub Phase/Task: <u>03-Analytical</u>	Invoice to: <u>Atlantic Richfield Co.</u>
	Cost Element: <u>01-Contractor labor</u>	

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Point Lat/Long and Comments				
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO/BTEX/Oxy*	1,2-DCA	Ethanol	EDB	DRO					
			<u>2007</u>				<u>Mq16161616</u>																
1	MW-1	<u>0626</u>	<u>07/12</u>	X			<u>01</u>	<u>3</u>						X	X	X	X						
2	MW-2	<u>0614</u>					<u>02</u>	<u>3</u>															
3	MW-3	<u>0647</u>					<u>03</u>	<u>3</u>															
4	MW-4	<u>0537</u>					<u>04</u>	<u>3</u>															
5	MW-5	<u>0445</u>					<u>05</u>	<u>6</u>															
6	MW-6	<u>0520</u>					<u>06</u>	<u>3</u>															
7	MW-7	<u>0554</u>					<u>07</u>	<u>3</u>															
8	MW-8	<u>0617</u>					<u>08</u>	<u>3</u>															
9	TB-2111	<u>0450</u>					<u>09</u>	<u>2</u>															
10																							HOLD

Sampler's Name: <u>David De Mello</u>	Relinquished By / Affiliation: <u>David De Mello / Stratus Env.</u>	Date: <u>07-17-07</u>	Time: <u>0912</u>	Accepted By / Affiliation: <u>Cheng Yue TestAmerica - N.S.K.</u>	Date: <u>7/17/07</u>	Time: <u>0912</u>
Sampler's Company: <u>Stratus Environmental</u>						
Shipment Date: <u>7/17/07</u>						
Shipment Method: <u>In Person</u>						
Shipment Tracking No: _____						

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

Custody Seals In Place: Yes / No | Temp Blank Yes / No | Cooler Temp on Receipt: 5.4 °F/C | Trip Blank Yes / No | MS/MSD Sample Submitted: Yes / No

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARCO ZIII
 REC. BY (PRINT): JUENG
 WORKORDER: M090660

DATE REC'D AT LAB: 7/17/07
 TIME REC'D AT LAB: 1925
 DATE LOGGED IN: 7/20/07

For Regulatory Purpose?
 DRINKING WATER YES / NO
 WASTE WATER YES / NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*								<div style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;"> Julie Ng SEE CTR </div>
2. Chain-of-Custody	Present / Absent*								
3. Traffic Reports or Packing List.	Present / Absent								
4. Airbill:	Airbill / Slicker Present / Absent								
5. Airbill #:									
6. Sample Labels:	Present / Absent								
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody								
8. Sample Condition:	Intact / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	Yes / No*								
10. Sample received within hold time?	Yes / No*								
11. Adequate sample volume received?	Yes / No*								
12. Proper preservatives used?	Yes / No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes)	Yes / No*								
14. Read Temp: <u>5.4 °C</u> Corrected Temp: <u>↓</u> Is corrected temp 4 +/-2°C? <u>Yes</u> / No**									

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

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

APPENDIX B

GEOTRACKER UPLOAD CONFIRMATIONS

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UPLOADING A GEO_WELL FILE

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

Submittal Title:	3Q07 GEO_WELL 2111
Facility Global ID:	T0600101764
Facility Name:	ARCO #2111
Submittal Date/Time:	10/22/2007 4:35:05 PM
Confirmation Number:	4229357659

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(CONTRACTOR)

CONTACT SITE [ADMINISTRATOR](#).

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Confirmation Number: 8006408989
Date/Time of Submittal: 10/22/2007 10:01:54 AM
Facility Global ID: T0600101764
Facility Name: ARCO #2111
Submittal Title: 3Q07 GW Monitoring
Submittal Type: GW Monitoring Report

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

ARCO #2111 1156 DAVIS SAN LEANDRO, CA 94577	Regional Board - Case #: 01-1903 SAN FRANCISCO BAY RWQCB (REGION 2) Local Agency (lead agency) - Case #: RO0000494 ALAMEDA COUNTY LOP - (SP)
--	---

<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
8006408989	3Q07 GW Monitoring	Q3 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	10/22/2007	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	8
# FIELD POINTS WITH DETECTIONS	7
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	4
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

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

QA/QC FOR 8021/8260 SERIES SAMPLES

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

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	N

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125% n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% n/a

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Electronic Submittal Information

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Confirmation Number: 4233735024
Date/Time of Submittal: 10/22/2007 9:52:13 AM
Facility Global ID: T0600101764
Facility Name: ARCO #2111
Submittal Title: Monthly System Sampling 0707
Submittal Type: Additional Information Report

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ARCO #2111 1156 DAVIS SAN LEANDRO, CA 94577	Regional Board - Case #: 01-1903 SAN FRANCISCO BAY RWQCB (REGION 2) Local Agency (lead agency) - Case #: RO0000494 ALAMEDA COUNTY LOP - (SP)
--	---

<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
4233735024	Monthly System Sampling 0707	Q3 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	10/22/2007	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	6
# FIELD POINTS WITH DETECTIONS	4
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	3
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA,SW8015B
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES ETHANOL TO BE TESTED	
- SW8015B REQUIRES DCA12 TO BE TESTED	
- SW8015B REQUIRES EDB TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

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

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
---	---

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Electronic Submittal Information

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Confirmation Number: 7394476413
Date/Time of Submittal: 10/22/2007 9:58:17 AM
Facility Global ID: T0600101764
Facility Name: ARCO #2111
Submittal Title: Monthly System Sampling 0707 2
Submittal Type: Soil & Water Investigation Report

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ARCO #2111 1156 DAVIS SAN LEANDRO, CA 94577	Regional Board - Case #: 01-1903 SAN FRANCISCO BAY RWQCB (REGION 2) Local Agency (lead agency) - Case #: RO0000494 ALAMEDA COUNTY LOP - (SP)
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<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
7394476413	Monthly System Sampling 0707 2	Q3 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	10/22/2007	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	5
# FIELD POINTS WITH DETECTIONS	3
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	2
SAMPLE MATRIX TYPES	AIR - UNK. ORIGIN

METHOD QA/QC REPORT

METHODS USED	SW8020F
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- SW8020F REQUIRES ETBE TO BE TESTED	
- SW8020F REQUIRES TAME TO BE TESTED	
- SW8020F REQUIRES DIPE TO BE TESTED	
- SW8020F REQUIRES TBA TO BE TESTED	
- SW8020F REQUIRES DCA12 TO BE TESTED	
- SW8020F REQUIRES EDB TO BE TESTED	
LAB NOTE DATA QUALIFIERS	N

QA/QC FOR 8021/8260 SERIES SAMPLES

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

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% n/a
SURROGATE SPIKES % RECOVERY BETWEEN 85-115% n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% n/a

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125% n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% n/a

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPDL</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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Confirmation Number: 4562308847
Date/Time of Submittal: 10/22/2007 10:04:21 AM
Facility Global ID: T0600101764
Facility Name: ARCO #2111
Submittal Title: Monthly System Sampling 0807
Submittal Type: Soil & Water Investigation Report

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ARCO #2111 1156 DAVIS SAN LEANDRO, CA 94577	Regional Board - Case #: 01-1903 SAN FRANCISCO BAY RWQCB (REGION 2) Local Agency (lead agency) - Case #: RO0000494 ALAMEDA COUNTY LOP - (SP)
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<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
4562308847	Monthly System Sampling 0807	Q3 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	10/22/2007	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	5
# FIELD POINTS WITH DETECTIONS	3
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	2
SAMPLE MATRIX TYPES	VAPOR

METHOD QA/QC REPORT

METHODS USED	SW8020F
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- SW8020F REQUIRES ETBE TO BE TESTED	
- SW8020F REQUIRES TAME TO BE TESTED	
- SW8020F REQUIRES DIPE TO BE TESTED	
- SW8020F REQUIRES TBA TO BE TESTED	
- SW8020F REQUIRES DCA12 TO BE TESTED	
- SW8020F REQUIRES EDB TO BE TESTED	
LAB NOTE DATA QUALIFIERS	N

QA/QC FOR 8021/8260 SERIES SAMPLES

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

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% n/a
SURROGATE SPIKES % RECOVERY BETWEEN 85-115% n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% n/a

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125% n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% n/a

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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Confirmation Number: 2597542464
Date/Time of Submittal: 10/22/2007 10:06:42 AM
Facility Global ID: T0600101764
Facility Name: ARCO #2111
Submittal Title: Monthly System Sampling 0807 2
Submittal Type: Soil & Water Investigation Report

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ARCO #2111 1156 DAVIS SAN LEANDRO, CA 94577	Regional Board - Case #: 01-1903 SAN FRANCISCO BAY RWQCB (REGION 2) Local Agency (lead agency) - Case #: RO0000494 ALAMEDA COUNTY LOP - (SP)
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<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
2597542464	Monthly System Sampling 0807 2	Q3 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	10/22/2007	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	6
# FIELD POINTS WITH DETECTIONS	4
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	3
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA,SW8015B
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES ETHANOL TO BE TESTED	
- SW8015B REQUIRES DCA12 TO BE TESTED	
- SW8015B REQUIRES EDB TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

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

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
---	---

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	N
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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Confirmation Number: 1744145631
Date/Time of Submittal: 10/22/2007 10:09:41 AM
Facility Global ID: T0600101764
Facility Name: ARCO #2111
Submittal Title: Monthly System Sampling 0907
Submittal Type: Soil & Water Investigation Report

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ARCO #2111 1156 DAVIS SAN LEANDRO, CA 94577	Regional Board - Case #: 01-1903 SAN FRANCISCO BAY RWQCB (REGION 2) Local Agency (lead agency) - Case #: RO0000494 ALAMEDA COUNTY LOP - (SP)
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<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
1744145631	Monthly System Sampling 0907	Q3 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	10/22/2007	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	5
# FIELD POINTS WITH DETECTIONS	3
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	2
SAMPLE MATRIX TYPES	AIR - UNK. ORIGIN

METHOD QA/QC REPORT

METHODS USED	8260FA,8260TPH
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES ETBE TO BE TESTED	
- 8260FA REQUIRES TAME TO BE TESTED	
- 8260FA REQUIRES DIPE TO BE TESTED	
- 8260FA REQUIRES TBA TO BE TESTED	
- 8260FA REQUIRES ETHANOL TO BE TESTED	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	N

QA/QC FOR 8021/8260 SERIES SAMPLES

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

- SURROGATE SPIKE Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% n/a
SURROGATE SPIKES % RECOVERY BETWEEN 85-115% n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% n/a

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125% n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% n/a

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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Confirmation Number: 5175401747
Date/Time of Submittal: 10/22/2007 10:12:15 AM
Facility Global ID: T0600101764
Facility Name: ARCO #2111
Submittal Title: Monthly System Sampling 0907
Submittal Type: Soil & Water Investigation Report

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ARCO #2111 1156 DAVIS SAN LEANDRO, CA 94577	Regional Board - Case #: 01-1903 SAN FRANCISCO BAY RWQCB (REGION 2) Local Agency (lead agency) - Case #: RO0000494 ALAMEDA COUNTY LOP - (SP)
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<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
5175401747	Monthly System Sampling 0907	Q3 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	10/22/2007	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	6
# FIELD POINTS WITH DETECTIONS	4
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	4
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA,SW8015B
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES ETHANOL TO BE TESTED	
- SW8015B REQUIRES DCA12 TO BE TESTED	
- SW8015B REQUIRES EDB TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

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

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	N
---	---

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	N
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

APPENDIX C

**STRATUS REMEDIATION SYSTEM OPERATION AND MAINTENANCE DATA
PACKAGES (INCLUDES FIELD DATA SHEETS, LABORATORY REPORTS, AND
CHAIN-OF-CUSTODY DOCUMENTATION)**



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

August 3, 2007

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

Re: Remediation System Operation and Maintenance Data Package, ARCO Service Station
No. 2111, located at 1156 Davis Street, San Leandro, California

General Information

Data Submittal Prepared / Reviewed by: Sandy Hayes and Kiran Nagaraju / Jay Johnson

Phone Number: (530) 676-6007 / (530) 676-6000

On-Site Supplier Representatives: Chris Hill

Number of Site Visits: 3 (July 2, 10 and 17, 2007)

System Overview: Dual Phase Extraction System, Air Stripper, and Groundwater Extraction and Treatment System (GETS)

Operational Status: Continuous operation.

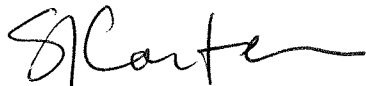
Scope of Work Performed: Conduct routine system operation and maintenance, and record field measurements. Influent, mid-fluent, and effluent air and water samples were collected on July 2, 2007.

Findings and Notes: None.

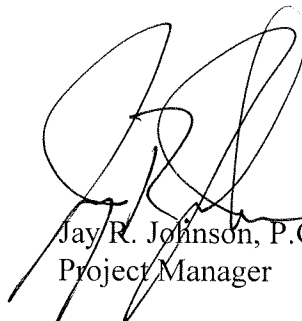
The attachments include field data sheets, chain of custody documentation and the certified analytical results. The information is being provided to BP-ARCO's Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does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

Sincerely,

STRATUS ENVIRONMENTAL, INC.



PN Kiran Nagaraju
Staff Engineer



Jay R. Johnson, P.G.
Project Manager



Attachments:

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

CC: Paul Supple, BP/ARCO

ARCO FACILITY NO. 2111
 1156 Davis Street
 San Leandro, California
 Dual Phase Extraction and Air Stripper System



Date: 7-2-07
 Onsite Time: 0530
 Offsite Time: 0800
 Equipment Manufacturer/Model# _____

Technician: CHILL
 Weather Conditions: Clear
 Ambient Temperature: 50

System Information	
System Status Upon Arrival:	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
System Status Upon Departure:	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Electric Meter Reading:	<u>37216</u>
Hour Meter Reading:	<u>1128.4</u>
Totalizer Reading Prior to Air Stripper:	<u>474499</u>
Totalizer Reading After Air Stripper:	<u>493890</u>
PID Calibration Date:	<u>7.2.07</u>

Field Measurements					
Parameter	Influent (after blower, 2111DPEAINF)	Air Stripper (2111ASAEFF)	System Influent (2111ASYSINF)	Stack Air Flow (2111AEFF)	Comments
Differential Pressure, "wc		<u>25</u>			
Air Velocity, FPM	<u>7378</u>	<u>1920</u>			
Pipe Diameter, inches	<u>9</u>	<u>4</u>	<u>4</u>	<u>3</u>	
Air Flow Rate, cfm			<u>200</u>		
Applied Vacuum, "wc	<u>15" Hg</u>	<u>.25</u>	NA	NA	
Temperature, deg F	<u>166</u>	<u>131</u>	<u>124</u>		
PID Readings, ppmv	<u>63</u>	<u>8</u>	<u>35</u>	<u>8</u>	PID for GAC-1: <u>8</u>

Other Readings/Measurements					
Well ID	% Open	Applied Vac., "Hg	Total depth, feet bgs	Stinger Depth, feet bgs	
V-1	<u>50</u>	<u>12</u>			
V-2	<u>50</u>	<u>9</u>			
V-3	<u>50</u>	<u>10</u>			
MW-1	<u>100</u>	<u>10</u>			
MW-3	<u>100</u>	<u>12</u>			
MW-7	<u>100</u>	<u>10</u>			
MW-8	<u>100</u>	<u>10</u>			

Signature: Chill

Date: 7-2-07

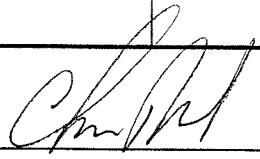
ARCO FACILITY NO. 2111
 1156 Davis Street
 San Leandro, California
 Dual Phase Extraction and Air Stripper System



Sampling Information (monthly)			
Sample ID	Date & Time	Sample ID	Date & Time
02111DPEAINF	7207 0723	02111AGAC1	7207 0717
02111ASAEFF	}	02111AEFF	0715
02111ASYSINF			
Analyses Required: GRO, BTEX, and MTBE			

Operation & Maintenance Notes

Lab Parameters	Sampling Frequency	Sample Location	Analytical Method
GRO	Monthly	02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF	EPA Method 8015
BTEX	Monthly	02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF	EPA Method 8260B
MTBE	Monthly	02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF	EPA Method 8260B

Signature: 

Date: 7-2-07

ARCO FACILITY NO. 2111
 1156 Davis Street
 San Leandro, California
 Groundwater Treatment System



Date: 7.2.07
 Onsite Time: 0530
 Offsite Time: 0800

Technician: CHILL
 Weather Conditions: clear
 Ambient Temperature: 50

System Status Upon Arrival: Operational Non-operational
 System Status At Departure: Operational Non-operational
 Transfer Pump: Operational Non-operational

Transfer Pump Hour Meter Reading: NA
 Effluent Flow Totalizer Reading: 480377
 No. of Carbon Vessels: 2
 Lead Carbon Vessel Pressure (psi): 5

Effluent Water Characteristics (Quarterly by Field Instrument)	
pH:	<u>7.57</u>
Temperature:	<u>17.7°C</u>

Well ID	Hour Meter Reading	Totalizer Reading	Total Depth	Pump Depth
MW-2	<u>NA</u>	<u>2619</u>		

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
02111DPEWINF	<u>7207 0650</u>	02111MW2WINF	<u>7207 0658</u>
02111ASWINF	<u>0705</u>		
02111ASWEFF	<u>0644</u>		
02111WGAC1	<u>0639</u>		
02111WEFF	<u>7207 0637</u>	<u>TB21117207</u>	<u>0710</u>

Lab Parameters	Sampling Frequency	Sample Location	Analytical Method
GRO, BTEX, & 5-Oxys	Monthly	INF & EFF	EPA Method 8260B

Notes: Started mw-2 In Haul when Arrived AT Site - Turned to AUTO when leave

Signature: Chris Hill Date: 7.2.07

ARCO FACILITY NO. 2111
 1156 Davis Street
 San Leandro, California
 Dual Phase Extraction and Air Stripper System

ORIGINAL

Date: 7-10-07
 Onsite Time: 0545
 Offsite Time: 0645
 Equipment Manufacturer/Model# _____

Technician: CHILL
 Weather Conditions: FOG
 Ambient Temperature: 50

System Information			
System Status Upon Arrival:	Operational	<input type="checkbox"/>	Non-Operational <input checked="" type="checkbox"/> High Level
System Status Upon Departure:	Operational	<input checked="" type="checkbox"/>	Non-Operational <input type="checkbox"/>
Electric Meter Reading:	<u>NM</u>		
Hour Meter Reading:	<u>1260.6</u>		
Totalizer Reading Prior to Air Stripper:	<u>520295</u>	PID Calibration Date:	<u>-</u>
Totalizer Reading After Air Stripper:	<u>537790</u>		

*oil water separator
change filters*

Field Measurements					
Parameter	Influent (after blower, 2111DPEAINF)	Air Stripper (2111ASAEFF)	System Influent (2111ASYSINF)	Stack Air Flow (2111AEFF)	Comments
Differential Pressure, "wc					
Air Velocity, FPM					
Pipe Diameter, inches					
Air Flow Rate, cfm					
Applied Vacuum, "wc			NA	NA	
Temperature, deg F					
PID Readings, ppmv					PID for GAC-1:
Other Readings/Measurements					
Well ID	% Open	Applied Vac., "Hg	Total depth, feet bgs	Stinger Depth, feet bgs	
V-1					
V-2					
V-3					
MW-1					
MW-3					
MW-7					

Signature: *Chill*

Date: 7-10-07

ARCO FACILITY NO. 2111
 1156 Davis Street
 San Leandro, California
 Groundwater Treatment System

ORIGINAL

Date: 7-10-07
 Onsite Time: 0545
 Offsite Time: 0045

Technician: CHILL
 Weather Conditions: Fog
 Ambient Temperature: 50

System Status Upon Arrival: Operational Non-operational
 System Status At Departure: Operational Non-operational *change Filters*
 Transfer Pump: Operational Non-operational

Transfer Pump Hour Meter Reading: NA

Effluent Flow Totalizer Reading: 523593

No. of Carbon Vessels: _____
 Lead Carbon Vessel Pressure (psi): _____

Effluent Water Characteristics (Quarterly by Field Instrument)	
pH:	_____
Temperature:	_____

Well ID	Hour Meter Reading	Totalizer Reading	Total Depth	Pump Depth	
MW-2					

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
02111DPEWINF		02111MW2WINF	
02111ASWINF			
02111ASWEFF			
02111WGAC1			
02111WEFF			

Lab Parameters	Sampling Frequency	Sample Location	Analytical Method
GRO, BTEX, & 5-Oxys	Monthly	INF & EFF	EPA Method 8260B

Notes:

Signature: *[Signature]* Date: 7-10-07

ARCO FACILITY NO. 2111
 1156 Davis Street
 San Leandro, California
 Dual Phase Extraction and Air Stripper System

 ORIGINAL

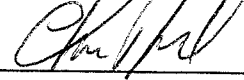
Date: 7-17-07
 Onsite Time: 0500
 Offsite Time: 0700
 Equipment Manufacturer/Model# _____

Technician: CHILL
 Weather Conditions: High Clouds
 Ambient Temperature: 50

System Information			
System Status Upon Arrival:	Operational	<input type="checkbox"/>	Non-Operational <input checked="" type="checkbox"/> <i>High water</i>
System Status Upon Departure:	Operational	<input checked="" type="checkbox"/>	Non-Operational <input type="checkbox"/>
Electric Meter Reading:	<u>42595</u>		
Hour Meter Reading:	<u>1320.1</u>		
Totalizer Reading Prior to Air Stripper:	<u>544148</u>	PID Calibration Date:	<u>7-16-07</u>
Totalizer Reading After Air Stripper:	<u>560740</u>		

Field Measurements					
Parameter	Influent (after blower, 2111DPEAINF)	Air Stripper (2111ASAEFF)	System Influent (2111ASYSINF)	Stack Air Flow (2111AEFF)	Comments
Differential Pressure, "wc		<u>25</u>			
Air Velocity, FPM	<u>4180</u>	<u>2881</u>			
Pipe Diameter, inches	<u>3</u>	<u>4</u>	<u>4</u>	<u>3</u>	
Air Flow Rate, cfm	<u>200</u>		<u>200</u>		
Applied Vacuum, "we	<u>16" Hg</u>	<u>28" H2O</u>	NA	NA	
Temperature, deg F	<u>150</u>	<u>123</u>	<u>105</u>		
PID Readings, ppmv	<u>80</u>	<u>2.0</u>	<u>172</u>	<u>8</u>	PID for GAC-1: <input checked="" type="checkbox"/>

Other Readings/Measurements						
Well ID	% Open	Applied Vac., "Hg	Total depth, feet bgs	Stinger Depth, feet bgs		
V-1	<u>50</u>	<u>8</u>				
V-2	<u>50</u>	<u>11</u>				
V-3	<u>50</u>	<u>10</u>				
MW-1	<u>100</u>	<u>8</u>				
MW-3	<u>100</u>	<u>10</u>				
MW-7	<u>100</u>	<u>10</u>				
<u>MW5</u>	<u>100</u>	<u>10</u>				

Signature: 

Date: 7-17-07



Sampling Information (monthly)			
Sample ID	Date & Time	Sample ID	Date & Time
02111DPEAINF		02111AGAC1	
02111ASAEFF		02111AEFF	
02111ASYSINF			
Analyses Required: GRO, BTEX, and MTBE			

Operation & Maintenance Notes

Lab Parameters	Sampling Frequency	Sample Location	Analytical Method
GRO	Monthly	02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF	EPA Method 8015
BTEX	Monthly	02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF	EPA Method 8260B
MTBE	Monthly	02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF	EPA Method 8260B

Signature:
 Date: 7-17-07

ARCO FACILITY NO. 2111
 1156 Davis Street
 San Leandro, California
 Groundwater Treatment System

ORIGINAL

Date: 7-17-07
 Onsite Time: 0500
 Offsite Time: 0700

Technician: CHILL
 Weather Conditions: Clouds
 Ambient Temperature: 50

System Status Upon Arrival: Operational Non-operational
 System Status At Departure: Operational Non-operational
 Transfer Pump: Operational Non-operational

High Water Air 95.0 ppm

Transfer Pump Hour Meter Reading: NA

Effluent Flow Totalizer Reading: 546094

No. of Carbon Vessels: 2

Lead Carbon Vessel Pressure (psi): 10

Effluent Water Characteristics (Quarterly by Field Instrument)	
pH:	_____
Temperature:	_____

Well ID	Hour Meter Reading	Totalizer Reading	Total Depth	Pump Depth
MW-2		2941		

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
02111DPEWINF		02111MW2WINF	
02111ASWINF			
02111ASWEFF			
02111WGAC1			
02111WEFF			

Lab Parameters	Sampling Frequency	Sample Location	Analytical Method
GRO, BTEX, & 5-Oxys	Monthly	INF& EFF	EPA Method 8260B

Notes: *Run MW-2 while on site
 QM Being Done AT site Today*

Signature: *CHILL*

Date: 7-17-07



A BP affiliated company

Chain of Custody Record

ORIGINAL
RUSH

Project Name: ARCO Facility No. 2111
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: California Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 24 hours for Effluent & STD for others

On-site Time: <u>0530</u>	Temp: <u>50</u>
Off-site Time: <u>0800</u>	Temp: <u>56</u>
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>2111</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>1156 Davis St., San Leandro</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600101764</u>	Consultant/Contractor Project No.: <u>E2111-03</u>
Tele/Fax: <u>408-782-8156 / 408-782-6308</u>	Enfos Project No.: <u>G0C28-0023</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>03-O&M</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-275-3506 / 925-275-3815</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO by 8015	BTEX by 8260	MTBE by 8260	24-hours	Standard	
1	02111DPEAINF	0723	7/23/07			x	2					x	x	x		x			
2	02111ASAEFF	0721	}			x	2					x	x	x		x			
3	02111ASYSINF	0719				x	2					x	x	x		x			
4	02111AGACI	0717				x	2					x	x	x		x			
5	02111AEFF	0715				x	2					x	x	x		x			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>Chris Hill</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>7/27</u>	Time: <u>1125</u>	Accepted By / Affiliation: <u>JUNE / TA-MH</u>	Date: <u>7/2/07</u>	Time: <u>1130</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>7-2-07</u>						
Shipment Method: <u>standard</u>						
Shipment Tracking No:						

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

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

Chain of Custody Record

Project Name: ARCO Facility No. 2111
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: California Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 24 hours for Effluent & STD for others

ORIGINAL

RUSH

On-site Time: <u>0530</u>	Temp: <u>50</u>
Off-site Time: <u>0800</u>	Temp: <u>50</u>
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>2111</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>1156 Davis St., San Leandro</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600101764</u>	Consultant/Contractor Project No.: <u>E2111-03</u>
Tele/Fax: <u>408-782-8156/408-782-6308</u>	Enfos Project No.: <u>G0C28-0023</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>03-O&M</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shaves@stratusinc.net</u>
Tele/Fax: <u>925-275-3506/925-275-3815</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO by 8015	BTEX by 8260	5-oxygenates by 8260	24-hours	Standard	
1	02111DPWAINF	0650	7207	x			6			✓		x	x	x		x	5-oxygenates requested are MTBE, DIPE, ETBE, TAME, and TBA.		
2	02111ASWINF	0705	7207	x			6			✓		x	x	x		x			
3	02111ASWEFF	0644	7207	x			6			✓		x	x	x		x			
4	02111WGAC1	0639	7207	x			6			✓		x	x	x		x			
5	02111WEFF	0637	7207	x			6			✓		x	x	x	x				
6	02111MW2WINF	0658	7207	x			6			✓		x	x	x		x			
7																	Hold		
8																			
9	TB21117207	0710	7207	x			1												
10																			

Sampler's Name: <u>Chris Hill</u>	Relinquished By / Affiliation: <u>[Signature] Stratus</u>	Date: <u>7207</u>	Time: <u>1125</u>	Accepted By / Affiliation: <u>JMIE / A. MH</u>	Date: <u>7/2/07</u>	Time: <u>1130</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>7-2-07</u>						
Shipment Method: <u>Stratus</u>						
Shipment Tracking No:						

Special Instructions: Please cc results to bpedf@broadbentinc.Com

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

17 July, 2007

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

RE: ARCO #2111, San Leandro, CA
Work Order: MQG0025

Enclosed are the results of analyses for samples received by the laboratory on 07/02/07 11:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa Race
Senior Project Manager

CA ELAP Certificate # 1210

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

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0023 Project Manager: Jay Johnson	MQG0025 Reported: 07/17/07 10:46
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
02111DPEAINF	MQG0025-01	Vapor	07/02/07 07:23	07/02/07 11:30
02111ASAEFF	MQG0025-02	Vapor	07/02/07 07:21	07/02/07 11:30
02111ASYSINF	MQG0025-03	Vapor	07/02/07 07:19	07/02/07 11:30
02111AGAC1	MQG0025-04	Vapor	07/02/07 07:17	07/02/07 11:30
02111AEFF	MQG0025-05	Vapor	07/02/07 07:15	07/02/07 11:30

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies. These samples were received with no custody seals.

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQG0025
Reported:
07/17/07 10:46

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111DPEAINF (MQG0025-01) Vapor Sampled: 07/02/07 07:23 Received: 07/02/07 11:30									
Gasoline Range Organics (C4-C12)	340	100	mg/m ³ Air	10	7G03005	07/03/07	07/03/07 14:35	EPA 8015B/8021B	
Benzene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	15	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		107 %	65-140		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	70-125		"	"	"	"	
Gasoline Range Organics (C4-C12)	95	24	ppmv	10	"	"	"	"	
Benzene	ND	0.31	"	"	"	"	"	"	
Toluene	ND	0.27	"	"	"	"	"	"	
Ethylbenzene	ND	0.23	"	"	"	"	"	"	
Xylenes (total)	ND	0.47	"	"	"	"	"	"	
Methyl tert-butyl ether	4.2	1.4	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		107 %	65-140		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	70-125		"	"	"	"	
02111ASAEFF (MQG0025-02) Vapor Sampled: 07/02/07 07:21 Received: 07/02/07 11:30									
Gasoline Range Organics (C4-C12)	ND	10	mg/m ³ Air	1	7G03005	07/03/07	07/03/07 14:05	EPA 8015B/8021B	
Benzene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
Xylenes (total)	ND	0.20	"	"	"	"	"	"	
Methyl tert-butyl ether	0.87	0.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		102 %	65-140		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98 %	70-125		"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	2.4	ppmv	"	"	"	"	"	
Benzene	ND	0.031	"	"	"	"	"	"	
Toluene	ND	0.027	"	"	"	"	"	"	
Ethylbenzene	ND	0.023	"	"	"	"	"	"	
Xylenes (total)	ND	0.047	"	"	"	"	"	"	
Methyl tert-butyl ether	0.24	0.14	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		102 %	65-140		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98 %	70-125		"	"	"	"	

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0023 Project Manager: Jay Johnson	MQG0025 Reported: 07/17/07 10:46
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Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111ASYSINF (MQG0025-03) Vapor Sampled: 07/02/07 07:19 Received: 07/02/07 11:30									
Gasoline Range Organics (C4-C12)	180	50	mg/m ³ Air	5	7G03005	07/03/07	07/03/07 12:59	EPA 8015B/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	11	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		109 %		65-140	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %		70-125	"	"	"	"	
Gasoline Range Organics (C4-C12)	50	12	ppmv	5	"	"	"	"	
Benzene	ND	0.16	"	"	"	"	"	"	
Toluene	ND	0.13	"	"	"	"	"	"	
Ethylbenzene	ND	0.12	"	"	"	"	"	"	
Xylenes (total)	ND	0.24	"	"	"	"	"	"	
Methyl tert-butyl ether	2.9	0.69	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		109 %		65-140	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %		70-125	"	"	"	"	
02111AGACI (MQG0025-04) Vapor Sampled: 07/02/07 07:17 Received: 07/02/07 11:30									
Gasoline Range Organics (C4-C12)	ND	10	mg/m ³ Air	1	7G03005	07/03/07	07/03/07 12:29	EPA 8015B/8021B	
Benzene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
Xylenes (total)	ND	0.20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		98 %		65-140	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94 %		70-125	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	2.4	ppmv	"	"	"	"	"	
Benzene	ND	0.031	"	"	"	"	"	"	
Toluene	ND	0.027	"	"	"	"	"	"	
Ethylbenzene	ND	0.023	"	"	"	"	"	"	
Xylenes (total)	ND	0.047	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.14	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		98 %		65-140	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94 %		70-125	"	"	"	"	

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0023 Project Manager: Jay Johnson	MQG0025 Reported: 07/17/07 10:46
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Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111AEFF (MQG0025-05) Vapor Sampled: 07/02/07 07:15 Received: 07/02/07 11:30									
Gasoline Range Organics (C4-C12)	ND	10	mg/m ³ Air	1	7G03005	07/03/07	07/03/07 11:58	EPA 8015B/8021B	
Benzene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
Xylenes (total)	ND	0.20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		100 %		65-140	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96 %		70-125	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	2.4	ppmv	"	"	"	"	"	
Benzene	ND	0.031	"	"	"	"	"	"	
Toluene	ND	0.027	"	"	"	"	"	"	
Ethylbenzene	ND	0.023	"	"	"	"	"	"	
Xylenes (total)	ND	0.047	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.14	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		100 %		65-140	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96 %		70-125	"	"	"	"	

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0023 Project Manager: Jay Johnson	MQG0025 Reported: 07/17/07 10:46
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Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G03005 - EPA 5030B [P/T] / EPA 8015B/8021B

Blank (7G03005-BLK1)

Prepared & Analyzed: 07/03/07

Gasoline Range Organics (C4-C12)	ND	50	mg/m ³ Air							
Gasoline Range Organics (C4-C12)	ND	12	ppmv							
Benzene	ND	0.50	mg/m ³ Air							
Benzene	ND	0.16	ppmv							
Toluene	ND	0.50	mg/m ³ Air							
Toluene	ND	0.13	ppmv							
Ethylbenzene	ND	0.50	mg/m ³ Air							
Ethylbenzene	ND	0.12	ppmv							
Xylenes (total)	ND	1.0	mg/m ³ Air							
Xylenes (total)	ND	0.24	ppmv							
Methyl tert-butyl ether	ND	2.5	mg/m ³ Air							
Methyl tert-butyl ether	ND	0.69	ppmv							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	40.4		mg/m ³ Air	40.0		101	65-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	6.77		ppmv	6.70		101	65-140			
<i>Surrogate: 4-Bromofluorobenzene</i>	37.9		mg/m ³ Air	40.0		95	70-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	5.30		ppmv	5.59		95	70-125			

Laboratory Control Sample (7G03005-BS1)

Prepared & Analyzed: 07/03/07

Gasoline Range Organics (C4-C12)	228	50	mg/m ³ Air	275		83	70-115			
Gasoline Range Organics (C4-C12)	64.6	12	ppmv	78.0		83	70-115			
Benzene	4.49	0.50	mg/m ³ Air	3.30		136	80-150			
Benzene	1.41	0.16	ppmv	1.03		136	80-150			
Toluene	21.5	0.50	mg/m ³ Air	24.2		89	75-125			
Toluene	5.71	0.13	ppmv	6.43		89	75-125			
Ethylbenzene	4.55	0.50	mg/m ³ Air	5.05		90	75-135			
Ethylbenzene	1.05	0.12	ppmv	1.17		90	75-135			
Xylenes (total)	25.3	1.0	mg/m ³ Air	29.0		87	75-135			
Xylenes (total)	5.83	0.24	ppmv	6.68		87	75-135			
Methyl tert-butyl ether	4.97	2.5	mg/m ³ Air	4.60		108	60-140			
Methyl tert-butyl ether	1.38	0.69	ppmv	1.28		108	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	40.2		mg/m ³ Air	40.0		101	65-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	6.74		ppmv	6.70		101	65-140			
<i>Surrogate: 4-Bromofluorobenzene</i>	39.5		mg/m ³ Air	40.0		99	70-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	5.52		ppmv	5.59		99	70-125			

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0023 Project Manager: Jay Johnson	MQG0025 Reported: 07/17/07 10:46
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Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G03005 - EPA 5030B [P/T] / EPA 8015B/8021B

Laboratory Control Sample Dup (7G03005-BSD1)				Prepared & Analyzed: 07/03/07						
Gasoline Range Organics (C4-C12)	227	50	mg/m ³ Air	275		82	70-115	0.3	20	
Gasoline Range Organics (C4-C12)	64.4	12	ppmv	78.0		82	70-115	0.3	20	
Benzene	4.52	0.50	mg/m ³ Air	3.30		137	80-150	0.7	25	
Benzene	1.42	0.16	ppmv	1.03		137	80-150	0.7	25	
Toluene	5.80	0.13	"	6.43		90	75-125	2	20	
Toluene	21.8	0.50	mg/m ³ Air	24.2		90	75-125	2	20	
Ethylbenzene	4.62	0.50	"	5.05		91	75-135	2	25	
Ethylbenzene	1.07	0.12	ppmv	1.17		91	75-135	2	25	
Xylenes (total)	25.7	1.0	mg/m ³ Air	29.0		89	75-135	2	20	
Xylenes (total)	5.92	0.24	ppmv	6.68		89	75-135	2	20	
Methyl tert-butyl ether	4.94	2.5	mg/m ³ Air	4.60		107	60-140	0.6	25	
Methyl tert-butyl ether	1.37	0.69	ppmv	1.28		107	60-140	0.6	25	
Surrogate: a,a,a-Trifluorotoluene	40.1		mg/m ³ Air	40.0		100	65-140			
Surrogate: a,a,a-Trifluorotoluene	6.71		ppmv	6.70		100	65-140			
Surrogate: 4-Bromofluorobenzene	38.8		mg/m ³ Air	40.0		97	70-125			
Surrogate: 4-Bromofluorobenzene	5.42		ppmv	5.59		97	70-125			

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQG0025
Reported:
07/17/07 10:46

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



bp
A BP affiliated company

Chain of Custody Record

RUSH

Project Name: ARCO Facility No. 2111
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: California Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 24 hours for Effluent & STD for others

On-site Time: <u>0530</u>	Temp: <u>50</u>
Off-site Time: <u>0800</u>	Temp: <u>56</u>
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>2111</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>1156 Davis St., San Leandro</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600101764</u>	Consultant/Contractor Project No.: <u>E2111-03</u>
Tele/Fax: <u>408-782-8156/ 408-782-6308</u>	Enfos Project No.: <u>G0C28-0023</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>03-O&M</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-275-3506/925-275-3815</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO by 8015	BTEX by 8260	MTBE by 8260	24-hours	Standard	
1	02111DPEAINF	0723	7/23/07			x	1060025	2					x	x	x		x		
2	02111ASAEFF	0721	}			x		2					x	x	x		x		
3	02111ASYSINF	0719					x		2					x	x	x		x	
4	02111AGAC1	0717					x		2					x	x	x		x	
5	02111AEFF	0715					x		2					x	x	x		x	
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>Chris Hill</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>7/27</u>	Time: <u>1135</u>	Accepted By / Affiliation: <u>JIME / TA-MH</u>	Date: <u>7/27/07</u>	Time: <u>1130</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>7-2-07</u>						
Shipment Method: <u>Starke</u>						
Shipment Tracking No:						

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

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

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARCO (ZIII)
 REC. BY (PRINT) TUJENG
 WORKORDER: M&G0025

DATE REC'D AT LAB: 7/2/07
 TIME REC'D AT LAB: 1130
 DATE LOGGED IN: 7/2/07

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

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / <input checked="" type="radio"/> Absent Intact / Broken								<div style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;"> Julie Ng REC. OFF 7/2/07 </div>
2. Chain-of-Custody	Present / <input checked="" type="radio"/> Absent								
3. Traffic Reports or Packing List.	Present / <input checked="" type="radio"/> Absent								
4. Airbill:	Airbill / Slicker Present / <input checked="" type="radio"/> Absent								
5. Airbill #:									
6. Sample Labels:	Present / <input checked="" type="radio"/> Absent								
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody								
8. Sample Condition:	Intact / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	<input checked="" type="radio"/> Yes / No*								
10. Sample received within hold time?	<input checked="" type="radio"/> Yes / No*								
11. Adequate sample volume received?	<input checked="" type="radio"/> Yes / No*								
12. Proper preservatives used?	<input checked="" type="radio"/> Yes / No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes)	Yes / <input checked="" type="radio"/> No*								
14. Read Temp: Corrected Temp: Is corrected temp 4 +/-2°C?	<u> </u> <u> </u> Yes / No**								

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

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

17 July, 2007

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

RE: ARCO #2111, San Leandro, CA
Work Order: MQG0023

Enclosed are the results of analyses for samples received by the laboratory on 07/02/07 11:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa Race
Senior Project Manager

CA ELAP Certificate # 1210

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

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQG0023
Reported:
07/17/07 10:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
02111DPEWINF	MQG0023-01	Water	07/02/07 06:50	07/02/07 11:30
02111ASWINF	MQG0023-02	Water	07/02/07 07:05	07/02/07 11:30
02111ASWEFF	MQG0023-03	Water	07/02/07 06:44	07/02/07 11:30
02111WGAC1	MQG0023-04	Water	07/02/07 06:39	07/02/07 11:30
02111WEFF	MQG0023-05	Water	07/02/07 06:37	07/02/07 11:30
02111MW2WINF	MQG0023-06	Water	07/02/07 06:50	07/02/07 11:30
TB21117207	MQG0023-07	Water	07/02/07 07:10	07/02/07 11:30

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies.

These samples were received with no custody seals.

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQG0023
Reported:
07/17/07 10:21

Purgeable Hydrocarbons by EPA 8015B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111DPEWINF (MQG0023-01) Water Sampled: 07/02/07 06:50 Received: 07/02/07 11:30									
Gasoline Range Organics (C4-C12)	370	100	ug/l	2	7G02024	07/02/07	07/03/07	EPA 8015B-VOA	PV
Surrogate: 4-Bromofluorobenzene		100 %	75-125		"	"	"	"	
02111ASWINF (MQG0023-02) Water Sampled: 07/02/07 07:05 Received: 07/02/07 11:30									
Gasoline Range Organics (C4-C12)	320	100	ug/l	2	7G02024	07/02/07	07/03/07	EPA 8015B-VOA	PV
Surrogate: 4-Bromofluorobenzene		102 %	75-125		"	"	"	"	
02111ASWEFF (MQG0023-03) Water Sampled: 07/02/07 06:44 Received: 07/02/07 11:30									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7G02024	07/02/07	07/02/07	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		99 %	75-125		"	"	"	"	
02111WGAC1 (MQG0023-04) Water Sampled: 07/02/07 06:39 Received: 07/02/07 11:30									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7G02024	07/02/07	07/02/07	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		"	"	"	"	
02111WEFF (MQG0023-05) Water Sampled: 07/02/07 06:37 Received: 07/02/07 11:30									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7G02024	07/02/07	07/02/07	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		"	"	"	"	
02111MW2WINF (MQG0023-06) Water Sampled: 07/02/07 06:50 Received: 07/02/07 11:30									
Gasoline Range Organics (C4-C12)	1100	500	ug/l	10	7G02024	07/02/07	07/03/07	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		"	"	"	"	

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQG0023
Reported:
07/17/07 10:21

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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02111DPEWINF (MQG0023-01) Water **Sampled: 07/02/07 06:50** **Received: 07/02/07 11:30**

tert-Amyl methyl ether	ND	5.0	ug/l	10	7G09004	07/09/07	07/09/07	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	400	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		105 %		75-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		88 %		60-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98 %		60-135	"	"	"	"	

02111ASWINF (MQG0023-02) Water **Sampled: 07/02/07 07:05** **Received: 07/02/07 11:30**

tert-Amyl methyl ether	ND	5.0	ug/l	10	7G09009	07/09/07	07/09/07	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	430	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		93 %		75-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %		60-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		93 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		89 %		60-135	"	"	"	"	

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0023 Project Manager: Jay Johnson	MQG0023 Reported: 07/17/07 10:21
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111ASWEFF (MQG0023-03) Water Sampled: 07/02/07 06:44 Received: 07/02/07 11:30									
tert-Amyl methyl ether	ND	0.50	ug/l	1	7G09009	07/09/07	07/09/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	84	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	35	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		97 %		75-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %		60-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		95 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92 %		60-135	"	"	"	"	
02111WGAC1 (MQG0023-04) Water Sampled: 07/02/07 06:39 Received: 07/02/07 11:30									
tert-Amyl methyl ether	ND	0.50	ug/l	1	7G09009	07/09/07	07/09/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		95 %		75-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99 %		60-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96 %		60-135	"	"	"	"	

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0023 Project Manager: Jay Johnson	MQG0023 Reported: 07/17/07 10:21
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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02111WEFF (MQG0023-05) Water **Sampled: 07/02/07 06:37** **Received: 07/02/07 11:30**

tert-Amyl methyl ether	ND	0.50	ug/l	1	7G02004	07/02/07	07/02/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %	75-120		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	60-125		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		84 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		70 %	60-135		"	"	"	"	

02111MW2WINF (MQG0023-06) Water **Sampled: 07/02/07 06:50** **Received: 07/02/07 11:30**

tert-Amyl methyl ether	ND	5.0	ug/l	10	7G09009	07/09/07	07/09/07	EPA 8260B	
Benzene	40	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	910	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	21	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	840	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	7.9	5.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		92 %	75-120		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	60-125		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		95 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94 %	60-135		"	"	"	"	

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0023 Project Manager: Jay Johnson	MQG0023 Reported: 07/17/07 10:21
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Purgeable Hydrocarbons by EPA 8015B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G02024 - EPA 5030B [P/T] / EPA 8015B-VOA

Blank (7G02024-BLK1)		Prepared & Analyzed: 07/02/07								
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	81.1		"	80.0		101	75-125			
Laboratory Control Sample (7G02024-BS1)		Prepared & Analyzed: 07/02/07								
Gasoline Range Organics (C4-C12)	213	50	ug/l	275		78	60-115			
Surrogate: 4-Bromofluorobenzene	83.4		"	80.0		104	75-125			
Matrix Spike (7G02024-MS1)		Source: MQF0736-07		Prepared & Analyzed: 07/02/07						
Gasoline Range Organics (C4-C12)	219	50	ug/l	275	ND	80	60-115			
Surrogate: 4-Bromofluorobenzene	83.2		"	80.0		104	75-125			
Matrix Spike Dup (7G02024-MSD1)		Source: MQF0736-07		Prepared & Analyzed: 07/02/07						
Gasoline Range Organics (C4-C12)	218	50	ug/l	275	ND	79	60-115	0.6	20	
Surrogate: 4-Bromofluorobenzene	83.6		"	80.0		104	75-125			

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQG0023
Reported:
07/17/07 10:21

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G02004 - EPA 5030B P/T / EPA 8260B

Blank (7G02004-BLK1)

Prepared & Analyzed: 07/02/07

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	2.49		"	2.50		100	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.51		"	2.50		100	60-125			
<i>Surrogate: Toluene-d8</i>	2.33		"	2.50		93	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	1.86		"	2.50		74	60-135			

Laboratory Control Sample (7G02004-BS1)

Prepared & Analyzed: 07/02/07

tert-Amyl methyl ether	9.89	0.50	ug/l	10.0		99	65-135			
Benzene	10.4	0.50	"	10.0		104	75-120			
tert-Butyl alcohol	193	20	"	200		97	60-135			
Di-isopropyl ether	9.96	0.50	"	10.0		100	70-130			
Ethyl tert-butyl ether	10.1	0.50	"	10.0		101	65-130			
Ethylbenzene	11.5	0.50	"	10.0		115	75-120			
Methyl tert-butyl ether	9.57	0.50	"	10.0		96	50-140			
Toluene	11.0	0.50	"	10.0		110	75-120			
Xylenes (total)	35.1	0.50	"	30.0		117	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.52		"	2.50		101	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.30		"	2.50		92	60-125			
<i>Surrogate: Toluene-d8</i>	2.48		"	2.50		99	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.58		"	2.50		103	60-135			

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0023 Project Manager: Jay Johnson	MQG0023 Reported: 07/17/07 10:21
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G02004 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7G02004-MS1)		Source: MQF0852-01			Prepared & Analyzed: 07/02/07					
tert-Amyl methyl ether	10.4	0.50	ug/l	10.0	0.740	96	65-135			
Benzene	10.4	0.50	"	10.0	ND	104	75-120			
tert-Butyl alcohol	184	20	"	200	ND	92	60-135			
Di-isopropyl ether	10.3	0.50	"	10.0	ND	103	70-130			
Ethyl tert-butyl ether	10.6	0.50	"	10.0	ND	106	65-130			
Ethylbenzene	11.0	0.50	"	10.0	ND	110	75-120			
Methyl tert-butyl ether	10.2	0.50	"	10.0	ND	102	50-140			
Toluene	10.9	0.50	"	10.0	ND	109	75-120			
Xylenes (total)	34.6	0.50	"	30.0	ND	115	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.66		"	2.50		106	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.34		"	2.50		94	60-125			
<i>Surrogate: Toluene-d8</i>	2.44		"	2.50		98	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.65		"	2.50		106	60-135			
Matrix Spike Dup (7G02004-MSD1)		Source: MQF0852-01			Prepared & Analyzed: 07/02/07					
tert-Amyl methyl ether	10.6	0.50	ug/l	10.0	0.740	99	65-135	3	25	
Benzene	10.3	0.50	"	10.0	ND	103	75-120	0.8	20	
tert-Butyl alcohol	187	20	"	200	ND	94	60-135	2	25	
Di-isopropyl ether	10.3	0.50	"	10.0	ND	103	70-130	0.5	25	
Ethyl tert-butyl ether	10.8	0.50	"	10.0	ND	108	65-130	2	25	
Ethylbenzene	10.9	0.50	"	10.0	ND	109	75-120	0.2	20	
Methyl tert-butyl ether	10.3	0.50	"	10.0	ND	103	50-140	0.7	25	
Toluene	11.0	0.50	"	10.0	ND	110	75-120	0.4	25	
Xylenes (total)	33.9	0.50	"	30.0	ND	113	75-130	2	20	
<i>Surrogate: Dibromofluoromethane</i>	2.52		"	2.50		101	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.41		"	2.50		96	60-125			
<i>Surrogate: Toluene-d8</i>	2.45		"	2.50		98	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.57		"	2.50		103	60-135			

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0023 Project Manager: Jay Johnson	MQG0023 Reported: 07/17/07 10:21
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G09004 - EPA 5030B P/T / EPA 8260B

Blank (7G09004-BLK1)			Prepared & Analyzed: 07/09/07							
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	2.60		"	2.50		104	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.48		"	2.50		99	60-125			
<i>Surrogate: Toluene-d8</i>	2.58		"	2.50		103	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.40		"	2.50		96	60-135			

Laboratory Control Sample (7G09004-BS1)			Prepared & Analyzed: 07/09/07							
tert-Amyl methyl ether	9.35	0.50	ug/l	10.0		94	65-135			
Benzene	9.36	0.50	"	10.0		94	75-120			
tert-Butyl alcohol	200	20	"	200		100	60-135			
Di-isopropyl ether	9.16	0.50	"	10.0		92	70-130			
Ethyl tert-butyl ether	9.86	0.50	"	10.0		99	65-130			
Ethylbenzene	10.7	0.50	"	10.0		107	75-120			
Methyl tert-butyl ether	9.48	0.50	"	10.0		95	50-140			
Toluene	9.25	0.50	"	10.0		92	75-120			
Xylenes (total)	30.5	0.50	"	30.0		102	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.39		"	2.50		96	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.21		"	2.50		88	60-125			
<i>Surrogate: Toluene-d8</i>	2.27		"	2.50		91	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.61		"	2.50		104	60-135			

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQG0023
Reported:
07/17/07 10:21

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G09004 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7G09004-MS1)		Source: MQF0878-03		Prepared & Analyzed: 07/09/07						
tert-Amyl methyl ether	9.51	0.50	ug/l	10.0	ND	95	65-135			
Benzene	10.3	0.50	"	10.0	ND	103	75-120			
tert-Butyl alcohol	192	20	"	200	ND	96	60-135			
Di-isopropyl ether	10.0	0.50	"	10.0	ND	100	70-130			
Ethyl tert-butyl ether	9.76	0.50	"	10.0	ND	98	65-130			
Ethylbenzene	9.94	0.50	"	10.0	ND	99	75-120			
Methyl tert-butyl ether	9.60	0.50	"	10.0	ND	96	50-140			
Toluene	10.4	0.50	"	10.0	ND	104	75-120			
Xylenes (total)	30.2	0.50	"	30.0	ND	101	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.51		"	2.50		100	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.41		"	2.50		96	60-125			
<i>Surrogate: Toluene-d8</i>	2.63		"	2.50		105	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.61		"	2.50		104	60-135			

Matrix Spike Dup (7G09004-MSD1)		Source: MQF0878-03		Prepared & Analyzed: 07/09/07						
tert-Amyl methyl ether	8.67	0.50	ug/l	10.0	ND	87	65-135	9	25	
Benzene	9.71	0.50	"	10.0	ND	97	75-120	6	20	
tert-Butyl alcohol	191	20	"	200	ND	96	60-135	0.6	25	
Di-isopropyl ether	9.14	0.50	"	10.0	ND	91	70-130	9	25	
Ethyl tert-butyl ether	8.83	0.50	"	10.0	ND	88	65-130	10	25	
Ethylbenzene	10.6	0.50	"	10.0	ND	106	75-120	7	20	
Methyl tert-butyl ether	8.28	0.50	"	10.0	ND	83	50-140	15	25	
Toluene	9.38	0.50	"	10.0	ND	94	75-120	10	25	
Xylenes (total)	30.4	0.50	"	30.0	ND	101	75-130	0.8	20	
<i>Surrogate: Dibromofluoromethane</i>	2.26		"	2.50		90	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.10		"	2.50		84	60-125			
<i>Surrogate: Toluene-d8</i>	2.44		"	2.50		98	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.63		"	2.50		105	60-135			

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0023 Project Manager: Jay Johnson	MQG0023 Reported: 07/17/07 10:21
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G09009 - EPA 5030B P/T / EPA 8260B

Blank (7G09009-BLK1)				Prepared & Analyzed: 07/09/07						
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	2.57		"	2.50		103	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.63		"	2.50		105	60-125			
<i>Surrogate: Toluene-d8</i>	2.40		"	2.50		96	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.17		"	2.50		87	60-135			

Laboratory Control Sample (7G09009-BS1)				Prepared & Analyzed: 07/09/07						
tert-Amyl methyl ether	10.3	0.50	ug/l	10.0		103	65-135			
Benzene	9.38	0.50	"	10.0		94	75-120			
tert-Butyl alcohol	192	20	"	200		96	60-135			
Di-isopropyl ether	10.4	0.50	"	10.0		104	70-130			
Ethyl tert-butyl ether	10.3	0.50	"	10.0		103	65-130			
Ethylbenzene	9.97	0.50	"	10.0		100	75-120			
Methyl tert-butyl ether	10.1	0.50	"	10.0		101	50-140			
Toluene	9.81	0.50	"	10.0		98	75-120			
Xylenes (total)	29.4	0.50	"	30.0		98	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.65		"	2.50		106	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.39		"	2.50		96	60-125			
<i>Surrogate: Toluene-d8</i>	2.55		"	2.50		102	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.47		"	2.50		99	60-135			

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0023 Project Manager: Jay Johnson	MQG0023 Reported: 07/17/07 10:21
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G09009 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7G09009-MS1)		Source: MQF0880-21		Prepared & Analyzed: 07/09/07						
tert-Amyl methyl ether	9.27	0.50	ug/l	10.0	ND	93	65-135			
Benzene	9.50	0.50	"	10.0	ND	95	75-120			
tert-Butyl alcohol	187	20	"	200	ND	94	60-135			
Di-isopropyl ether	10.2	0.50	"	10.0	ND	102	70-130			
Ethyl tert-butyl ether	10.0	0.50	"	10.0	ND	100	65-130			
Ethylbenzene	9.69	0.50	"	10.0	ND	97	75-120			
Methyl tert-butyl ether	9.89	0.50	"	10.0	ND	99	50-140			
Toluene	9.88	0.50	"	10.0	ND	99	75-120			
Xylenes (total)	29.3	0.50	"	30.0	ND	98	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.50		"	2.50		100	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.45		"	2.50		98	60-125			
<i>Surrogate: Toluene-d8</i>	2.52		"	2.50		101	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.49		"	2.50		100	60-135			
Matrix Spike Dup (7G09009-MSD1)		Source: MQF0880-21		Prepared & Analyzed: 07/09/07						
tert-Amyl methyl ether	9.67	0.50	ug/l	10.0	ND	97	65-135	4	25	
Benzene	9.11	0.50	"	10.0	ND	91	75-120	4	20	
tert-Butyl alcohol	191	20	"	200	ND	95	60-135	2	25	
Di-isopropyl ether	10.1	0.50	"	10.0	ND	101	70-130	0.5	25	
Ethyl tert-butyl ether	10.2	0.50	"	10.0	ND	102	65-130	2	25	
Ethylbenzene	9.47	0.50	"	10.0	ND	95	75-120	2	20	
Methyl tert-butyl ether	10.6	0.50	"	10.0	ND	106	50-140	7	25	
Toluene	9.42	0.50	"	10.0	ND	94	75-120	5	25	
Xylenes (total)	28.9	0.50	"	30.0	ND	96	75-130	1	20	
<i>Surrogate: Dibromofluoromethane</i>	2.47		"	2.50		99	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.44		"	2.50		98	60-125			
<i>Surrogate: Toluene-d8</i>	2.49		"	2.50		100	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.44		"	2.50		98	60-135			

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQG0023
Reported:
07/17/07 10:21

Notes and Definitions

PV Hydrocarbon result partly due to individ. peak(s) in quant. range
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



bp
A BP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 2111
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: California Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 24 hours for Effluent & STD for others

RUSH

On-site Time: <u>0530</u>	Temp: <u>50</u>
Off-site Time: <u>0800</u>	Temp: <u>50</u>
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>2111</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>1156 Davis St., San Leandro</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600101764</u>	Consultant/Contractor Project No.: <u>E2111-03</u>
Tele/Fax: <u>408-782-8156/408-782-6308</u>	Enfos Project No.: <u>G0C28-0023</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>03-O&M</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-275-3506/925-275-3815</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO by 8015	BTEX by 8260	5-oxygenates by 8260	24-hours	Standard	
1	<u>02111DPW WINF</u>	<u>0630</u>	<u>7207</u>		x		<u>01</u>	<u>6</u>										5-oxygenates requested are MTBE, DIPE, ETBE, TAME, and TBA.	
2	<u>02111ASWINF</u>	<u>0705</u>	<u>7207</u>		x		<u>02</u>	<u>6</u>											
3	<u>02111ASWEFF</u>	<u>0644</u>	<u>7207</u>		x		<u>03</u>	<u>6</u>											
4	<u>02111WGAC1</u>	<u>0639</u>	<u>7207</u>		x		<u>04</u>	<u>6</u>											
5	<u>02111WEFF</u>	<u>0637</u>	<u>7207</u>		x		<u>05</u>	<u>6</u>							x				
6	<u>02111MW2WINF</u>	<u>0648</u>	<u>7207</u>		x		<u>06</u>	<u>6</u>								x			
7																		<u>Hold</u>	
8																			
9	<u>1B21117207</u>	<u>0710</u>	<u>7207</u>		x			<u>1</u>											
10																			

Sampler's Name: <u>Chris Hill</u>	Relinquished By / Affiliation: <u>Chris Hill / Stratus</u>	Date: <u>7207</u>	Time: <u>1125</u>	Accepted By / Affiliation: <u>JMIE / A. MH</u>	Date: <u>7/2/07</u>	Time: <u>1130</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>7.2.07</u>						
Shipment Method: <u>Stratus</u>						
Shipment Tracking No:						

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

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 5-6 °F | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARCO 2111
 REC. BY (PRINT) JULIENGT.
 WORKORDER: M&G0023

DATE REC'D AT LAB: 7/2/07
 TIME REC'D AT LAB: 1130
 DATE LOGGED IN: 7/2/07

For Regulatory Purpose?
 DRINKING WATER YES / NO
 WASTE WATER YES / NO

CIRCLE THE APPROPRIATE RESPONSE		LAD SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / <u>Absent</u> Intact / Broken								<div style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;"> Julie M. OFFICE 7/2/07 </div>
2. Chain-of-Custody	<u>Present</u> / Absent								
3. Traffic Reports or Packing List.	Present / <u>Absent</u>								
4. Airbill:	Airbill / Sticker Present / <u>Absent</u>								
5. Airbill #	<u> </u>								
6. Sample Labels:	<u>Present</u> / Absent								
7. Sample IDs:	<u>Listed</u> / Not Listed on Chain-of-Custody								
8. Sample Condition:	In <u>act</u> / Broken / Leaking								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	<u>Yes</u> / No								
10. Sample received within hold time?	<u>Yes</u> / No								
11. Adequate sample volume received?	<u>Yes</u> / No								
12. Proper preservatives used?	<u>Yes</u> / No								
13. Trip <u>Blank</u> / Temp Blank Received? (circle which, if yes)	<u>Yes</u> / No								
14. Read Temp: <u>5.6°C</u> Corrected Temp: Is corrected temp 4 +/-2°C? <u>Yes</u> / No	<u>Yes</u> / No								

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



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

September 6, 2007

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

Re: Remediation System Operation and Maintenance Data Package, ARCO Service Station
No. 2111, located at 1156 Davis Street, San Leandro, California

General Information

Data Submittal Prepared / Reviewed by: Sandy Hayes and Kiran Nagaraju / Jay Johnson

Phone Number: (530) 676-6007 / (530) 676-6000

On-Site Supplier Representatives: Chris Hill

Number of Site Visits: 3 (August 1, 7, and 20, 2007)

System Overview: Dual Phase Extraction System, Air Stripper, and Groundwater Extraction and Treatment System (GETS)

Operational Status: Continuous operation

Scope of Work Performed: Conduct routine system operation and maintenance, and record field measurements. Influent, mid-fluent, and effluent air and water samples were collected on August 1, 2007.

Variations from Scope of Work: The remediation systems were shutdown on August 1, 2007 after collecting samples pending compliance verification. Upon receipt of analytical results and compliance verification, the remediation systems were re-started on August 7, 2007.


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

Sincerely,

STRATUS ENVIRONMENTAL, INC.



Kiran Nagaraju
Staff Engineer


Jay R. Johnson, P.G.
Project Manager

Attachments:

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

CC: Paul Supple, BP/ARCO

ARCO FACILITY NO. 2111

1156 Davis Street

San Leandro, California

Dual Phase Extraction and Air Stripper System

ORIGINAL

Date: 8-1-07
 Onsite Time: 0500
 Offsite Time: 0715
 Equipment Manufacturer/Model# _____

Technician: CHILL
 Weather Conditions: Clear
 Ambient Temperature: 60

System Information	
System Status Upon Arrival:	Operational <input type="checkbox"/> Non-Operational <input checked="" type="checkbox"/> <i>High water Air stripped</i>
System Status Upon Departure:	Operational <input checked="" type="checkbox"/> Non-Operational <input checked="" type="checkbox"/> <i>Turn off</i>
Electric Meter Reading:	<u>35949</u>
Hour Meter Reading:	<u>1430.1</u>
Totalizer Reading Prior to Air Stripper:	<u>580846</u> PID Calibration Date: <u>7-31-07</u>
Totalizer Reading After Air Stripper:	<u>595820</u>

Field Measurements					
Parameter	Influent (after blower, 2111DPEAINF)	Air Stripper (2111ASAEFF)	System Influent (2111ASYSINF)	Stack Air Flow (2111AEFF)	Comments
Differential Pressure, "wc		<u>25</u>			
Air Velocity, FPM	<u>4802</u>	<u>2308</u>			
Pipe Diameter, inches	<u>3</u>	<u>4</u>	<u>4</u>	<u>3</u>	
Air Flow Rate, cfm			<u>200</u>		
Applied Vacuum, "we H ₂ O	<u>19" H₂O</u>	<u>30" H₂O</u>	NA	NA	
Temperature, deg F	<u>158</u>	<u>131</u>	<u>110</u>		
PID Readings, ppmv	<u>187</u>	<u>217</u>	<u>84</u>	<u>0</u>	PID for GAC-1: <u>0</u>

Other Readings/Measurements						
Well ID	% Open	Applied Vac., "Hg	Total depth, feet bgs	Stinger Depth, feet bgs		
V-1	<u>50</u>	<u>15</u>				
V-2	<u>50</u>	<u>12</u>				
V-3	<u>50</u>	<u>14</u>				
MW-1	<u>100</u>	<u>14</u>				
MW-3	<u>100</u>	<u>14</u>				
MW-7	<u>100</u>	<u>12</u>				
<u>MW-8</u>	<u>100</u>	<u>15</u>				

Signature: Chill

Date: 8-1-07

ARCO FACILITY NO. 2111
 1156 Davis Street
 San Leandro, California
 Groundwater Treatment System

 ORIGINAL

Date: 8/10/07
 Onsite Time: 0900
 Offsite Time: 0715

Technician: CHILL
 Weather Conditions: Clear
 Ambient Temperature: 60

System Status Upon Arrival: Operational Non-operational High Water
 System Status At Departure: Operational Non-operational Turn off
 Transfer Pump: Operational Non-operational wait for Results

Transfer Pump Hour Meter Reading: N/A

Effluent Flow Totalizer Reading: 580301

No. of Carbon Vessels: 2

Lead Carbon Vessel Pressure (psi): 3

Effluent Water Characteristics (Quarterly by Field Instrument)	
pH:	<u>7.6</u>
Temperature:	<u>21.2</u>

Well ID	Hour Meter Reading	Totalizer Reading	Total Depth	Pump Depth
MW-2		<u>3212</u>		

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
02111DPEWINF	<u>8/10/07 0612</u>	02111MW2WINF	<u>8/10/07 0617</u>
02111ASWINF	<u>0607</u>		
02111ASWEFF	<u>0602</u>		
02111WGAC1	<u>0557</u>	<u>TB2118107</u>	<u>0620</u>
02111WEFF	<u>0549</u>		

Lab Parameters	Sampling Frequency	Sample Location	Analytical Method
GRO, BTEX, & 5-Oxys	Monthly	INF& EFF	EPA Method 8260B

Notes: Upon Arrival Carbon PSI 20 Broke up
Hard Top on Carbon.

Signature: 

Date: 8/10/07

ARCO FACILITY NO. 2111

1156 Davis Street

San Leandro, California

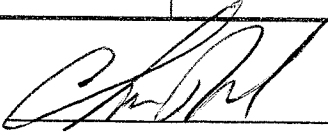
Dual Phase Extraction and Air Stripper System

 ORIGINAL

Sampling Information (monthly)				
Sample ID	Date & Time		Sample ID	Date & Time
02111DPEAINF	8107	0632	02111AGAC1	8107 0625
02111ASAEFF)	0630	02111AEFF) 0622
02111ASYSINF)	0628		
Analyses Required: GRO, BTEX, and MTBE				

Operation & Maintenance Notes

Lab Parameters	Sampling Frequency	Sample Location	Analytical Method
GRO	Monthly	02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF	EPA Method 8015
BTEX	Monthly	02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF	EPA Method 8260B
MTBE	Monthly	02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF	EPA Method 8260B

Signature: 

Date: 8-1-05

ARCO FACILITY NO. 2111
 1156 Davis Street
 San Leandro, California
 Dual Phase Extraction and Air Stripper System

ORIGINAL

Date: 8-7-07
 Onsite Time: 0500
 Offsite Time: 0600
 Equipment Manufacturer/Model# _____

Technician: CHILL
 Weather Conditions: Cloudy
 Ambient Temperature: 50

System Information	
System Status Upon Arrival:	Operational <input type="checkbox"/> Non-Operational <input checked="" type="checkbox"/>
System Status Upon Departure:	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Electric Meter Reading:	<u>37973</u>
Hour Meter Reading:	<u>1431.1</u>
Totalizer Reading Prior to Air Stripper:	<u>581384</u>
Totalizer Reading After Air Stripper:	<u>596300</u>
PID Calibration Date:	<u>8-6-07</u>

*system was off waiting for LAB results
Restart*

Field Measurements					
Parameter	Influent (after blower, 2111DPEAINF)	Air Stripper (2111ASAEFF)	System Influent (2111ASYSINF)	Stack Air Flow (2111AEFF)	Comments
Differential Pressure, "wc		<u>25</u>			
Air Velocity, FPM					
Pipe Diameter, inches	<u>4</u>	<u>4</u>	<u>3</u>	<u>3</u>	
Air Flow Rate, cfm	<u>190</u>				
Applied Vacuum, "wc	<u>20" Hg</u>	<u>0.30</u>	NA	NA	
Temperature, deg F	<u>90</u>				
PID Readings, ppmv	<u>180</u>	<u>1.0</u>	<u>90</u>	<u>2</u>	PID for GAC-1: <u>2</u>
Other Readings/Measurements					
Well ID	% Open	Applied Vac., "Hg	Total depth, feet bgs	Stinger Depth, feet bgs	
V-1					
V-2					
V-3					
MW-1					
MW-3					
MW-7					

Signature: *[Signature]*

Date: 8-7-07

ARCO FACILITY NO. 2111
 1156 Davis Street
 San Leandro, California
 Groundwater Treatment System

ORIGINAL

Date: 8-7-07
 Onsite Time: 0500
 Offsite Time: 0600

Technician: PHILL
 Weather Conditions: clouds
 Ambient Temperature: 50

System Status Upon Arrival: Operational Non-operational
 System Status At Departure: Operational Non-operational
 Transfer Pump: Operational Non-operational

LAB Results waiting
 Restart

Transfer Pump Hour Meter Reading: N/A
 Effluent Flow Totalizer Reading: 580662
 No. of Carbon Vessels: 2
 Lead Carbon Vessel Pressure (psi): 5

Effluent Water Characteristics (Quarterly by Field Instrument)
pH: _____
Temperature: _____

Well ID	Hour Meter Reading	Totalizer Reading	Total Depth	Pump Depth
MW-2		3235		

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
02111DPEWINF		02111MW2WINF	
02111ASWINF			
02111ASWEFF			
02111WGAC1			
02111WEFF			

Lab Parameters	Sampling Frequency	Sample Location	Analytical Method
GRO, BTEX, & 5-Oxys	Monthly	INF& EFF	EPA Method 8260B

Notes:

Signature: [Signature] Date: 8-7-07

ARCO FACILITY NO. 2111
 1156 Davis Street
 San Leandro, California
 Groundwater Treatment System

Date: 8/20/07
 Onsite Time: 0900
 Offsite Time: 0600

Technician: CHILL
 Weather Conditions: clouds
 Ambient Temperature: 59

System Status Upon Arrival: Operational Non-operational High Tank
 System Status At Departure: Operational Non-operational
 Transfer Pump: Operational Non-operational

Transfer Pump Hour Meter Reading: NA
 Effluent Flow Totalizer Reading: 582706
 No. of Carbon Vessels: 2
 Lead Carbon Vessel Pressure (psi): 5

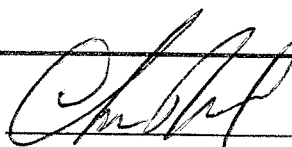
Effluent Water Characteristics (Quarterly by Field Instrument)	
pH:	_____
Temperature:	_____

Well ID	Hour Meter Reading	Totalizer Reading	Total Depth	Pump Depth
MW-2		3245		

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
02111DPEWINF		02111MW2WINF	
02111ASWINF			
02111ASWEFF			
02111WGAC1			
02111WEFF			

Lab Parameters	Sampling Frequency	Sample Location	Analytical Method
GRO, BTEX, & 5-Oxys	Monthly	INF & EFF	EPA Method 8260B

Notes:

Signature:  Date: 8-20-07

Dual Phase Extraction and Air Stripper System



Date: 82007
 Onsite Time: 0500
 Offsite Time: 0600
 Equipment Manufacturer/Model#: _____

Technician: CHILL
 Weather Conditions: Cloudy
 Ambient Temperature: 55

System Information	
System Status Upon Arrival:	Operational <input type="checkbox"/> Non-Operational <input checked="" type="checkbox"/> <i>High Tank</i>
System Status Upon Departure:	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Electric Meter Reading:	<u>37177</u>
Hour Meter Reading:	<u>1438.1</u>
Totalizer Reading Prior to Air Stripper:	<u>583548</u> PID Calibration Date: <u>8-20-07</u>
Totalizer Reading After Air Stripper:	<u>598400</u>

Field Measurements					
Parameter	Influent (after blower, 2111DPEAINF)	Air Stripper (2111ASAEFF)	System Influent (2111ASYSINF)	Stack Air Flow (2111AEFF)	Comments
Differential Pressure, "wc		<u>36.25</u>			
Air Velocity, FPM	<u>3630</u>	<u>2843</u>			
Pipe Diameter, inches	<u>4.3</u>	<u>4</u>	<u>4</u>	<u>3</u>	
Air Flow Rate, cfm	<u>190</u>				
Applied Vacuum, "wc	<u>21" HG</u>	<u>26" HG</u>	NA	NA	
Temperature, deg F	<u>140</u> 82	<u>128</u>	<u>104</u>		
PID Readings, ppmv	<u>239</u>	<u>1.0</u>	<u>239</u>	<u>2</u>	PID for GAC-1: <u>2</u>
	<u>239</u>		<u>112</u>		
Other Readings/Measurements					
Well ID	% Open	Applied Vac., "Hg	Total depth, feet bgs	Stinger Depth, feet bgs	
V-1	<u>50</u>	<u>17</u>			
V-2	<u>50</u>	<u>16</u>			
V-3	<u>50</u>	<u>17</u>			
MW-1	<u>100</u>	<u>15</u>			
MW-3	<u>100</u>	<u>15</u>			
MW-7	<u>100</u>	<u>15</u>			
MW-8	<u>100</u>	<u>17</u>			

Signature: [Signature]

Date: 82007

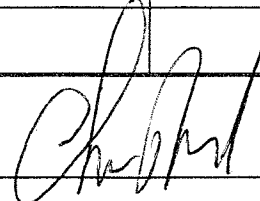
ARCO FACILITY NO. 2111
1156 Davis Street
San Leandro, California
Dual Phase Extraction and Air Stripper System



Sampling Information (monthly)			
Sample ID	Date & Time	Sample ID	Date & Time
02111DPEAINF		02111AGAC1	
02111ASAEFF		02111AEFF	
02111ASYSINF			
Analyses Required: GRO, BTEX, and MTBE			

Operation & Maintenance Notes

Lab Parameters	Sampling Frequency	Sample Location	Analytical Method
GRO	Monthly	02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF	EPA Method 8015
BTEX	Monthly	02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF	EPA Method 8260B
MTBE	Monthly	02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF	EPA Method 8260B

Signature: 

Date: 8/20/07



bp
A BP affiliated company

Chain of Custody Record

ORIGINAL RUSH

Project Name: ARCO Facility No. 2111
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: California Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 24 hours for Effluent & STD for others

On-site Time: <u>0500</u>	Temp: <u>60</u>
Off-site Time: <u>0730</u>	Temp: <u>60</u>
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>2111</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>1156 Davis St., San Leandro</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600101764</u>	Consultant/Contractor Project No.: <u>E2111-03</u>
Tele/Fax: <u>408-782-8156/408-782-6308</u>	Enfos Project No.: <u>G0C28-0023</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>03-O&M</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-275-3506/925-275-3815</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GR0 by 8015	BTEX by 8260	5-oxygenates by 8260	24-hours	Standard	
1	02111DPWINF	012	8/10/07	X			6			X		X	X	X		X	5-oxygenates requested are MTBE, DIPE, ETBE, TAME, and TBA.		
2	02111ASWINF	0607	}	X			6			X		X	X	X		X			
3	02111ASWEFF	0602		X			6			X		X	X	X		X			
4	02111WGACI	0557		X			6			X		X	X	X		X			
5	02111WEFF	0549		X			6			X		X	X	X	X			X	
6	02111MW2WINF	0617		X			6			X		X	X	X		X			
7																			
8																	Hold		
9	TBZ1118107	0620	8/10/07	X			1												
10																			

Sampler's Name: <u>Chris Hill</u>	Retrieved By / Affiliation: <u>[Signature]</u>	Date: <u>10/2</u>	Time: <u>8107</u>	Accepted By / Affiliation: <u>JULIE/TAMH NG.</u>	Date: <u>8/10/07</u>	Time: <u>1015</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>8/10/07</u>						
Shipment Method: <u>Stratus</u>						
Shipment Tracking No:						

Special Instructions: Please cc results to bpedf@broadbentinc.Com

Custody Seals In Place: <u>Yes/No</u>	Temp Blank: <u>Yes/No</u>	Cooler Temp on Receipt: <u>°F/C</u>	Trip Blank: <u>Yes/No</u>	MS/MSD Sample Submitted: <u>Yes/No</u>
---------------------------------------	---------------------------	-------------------------------------	---------------------------	--

Atlantic Richfield Company

bp
A BP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 2111
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: California Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 24 hours for Effluent & STD for others

ORIGINAL
RUSH

On-site Time: <u>0500</u>	Temp: <u>60</u>
Off-site Time: <u>0730</u>	Temp: <u>60</u>
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>2111</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>1156 Davis St., San Leandro</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600101764</u>	Consultant/Contractor Project No.: <u>E2111-03</u>
Tele/Fax: <u>408-782-8156/ 408-782-6308</u>	Enfos Project No.: <u>G0C28-0023</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>03-O&M</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-275-3506/925-275-3815</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO by 8015	BTEX by 8260	MTBE by 8260	24-hours	Standard	
1	02111DPEAINF	0632	8/1/07			X						X	X	X		X			
2	02111ASAEFF	0630	}			X						X	X	X		X			
3	02111ASYSINF	0628					X						X	X	X		X		
4	02111AGAC1	0627					X						X	X	X		X		
5	02111AEFF	0622					X						X	X	X	X			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>Chris Hill</u>	Relinquished By / Affiliation: <u>[Signature] Stratus</u>	Date: <u>8/1/07</u>	Time: <u>1012</u>	Accepted By / Affiliation: <u>JUIENG / TAMH</u>	Date: <u>8/1/07</u>	Time: <u>1010</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>8-1-07</u>						
Shipment Method: <u>Stratus</u>						
Shipment Tracking No:						

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

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

15 August, 2007

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

RE: ARCO #2111, San Leandro, CA
Work Order: MQH0022

Enclosed are the results of analyses for samples received by the laboratory on 08/01/07 10:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa Race
Senior Project Manager

CA ELAP Certificate # 1210

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

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0023 Project Manager: Jay Johnson	MQH0022 Reported: 08/15/07 08:24
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
02111DPEWINF	MQH0022-01	Water	08/01/07 06:12	08/01/07 10:15
02111ASWINF	MQH0022-02	Water	08/01/07 06:07	08/01/07 10:15
02111ASWEFF	MQH0022-03	Water	08/01/07 06:02	08/01/07 10:15
02111WGAC1	MQH0022-04	Water	08/01/07 05:57	08/01/07 10:15
02111WEFF	MQH0022-05	Water	08/01/07 05:49	08/01/07 10:15
02111MW2WINF	MQH0022-06	Water	08/01/07 06:17	08/01/07 10:15
TB21118107	MQH0022-07	Water	08/01/07 06:20	08/01/07 10:15

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies. These samples were received with no custody seals.

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQH0022
Reported:
08/15/07 08:24

Purgeable Hydrocarbons by EPA 8015B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111DPEWINF (MQH0022-01) Water Sampled: 08/01/07 06:12 Received: 08/01/07 10:15									
Gasoline Range Organics (C4-C12)	470	100	ug/l	2	7H02006	08/02/07	08/02/07	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		95 %	75-125		"	"	"	"	
02111ASWINF (MQH0022-02) Water Sampled: 08/01/07 06:07 Received: 08/01/07 10:15									
Gasoline Range Organics (C4-C12)	440	100	ug/l	2	7H02006	08/02/07	08/02/07	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		95 %	75-125		"	"	"	"	
02111ASWEFF (MQH0022-03) Water Sampled: 08/01/07 06:02 Received: 08/01/07 10:15									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7H02006	08/02/07	08/02/07	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		92 %	75-125		"	"	"	"	
02111WGAC1 (MQH0022-04) Water Sampled: 08/01/07 05:57 Received: 08/01/07 10:15									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7H02006	08/02/07	08/02/07	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		88 %	75-125		"	"	"	"	
02111WEFF (MQH0022-05) Water Sampled: 08/01/07 05:49 Received: 08/01/07 10:15									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7H02006	08/02/07	08/02/07	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		98 %	75-125		"	"	"	"	
02111MW2WINF (MQH0022-06) Water Sampled: 08/01/07 06:17 Received: 08/01/07 10:15									
Gasoline Range Organics (C4-C12)	1500	500	ug/l	10	7H02006	08/02/07	08/02/07	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		96 %	75-125		"	"	"	"	

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Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQH0022
Reported:
08/15/07 08:24

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111DPEWINF (MQH0022-01) Water Sampled: 08/01/07 06:12 Received: 08/01/07 10:15									
tert-Amyl methyl ether	ND	5.0	ug/l	10	7H04002	08/04/07	08/04/07	EPA 8260B	
Benzene	5.5	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	870	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	9.1	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	600	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	17	5.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		105 %		75-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %		60-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %		60-135	"	"	"	"	
02111ASWINF (MQH0022-02) Water Sampled: 08/01/07 06:07 Received: 08/01/07 10:15									
tert-Amyl methyl ether	ND	5.0	ug/l	10	7H01026	08/01/07	08/02/07	EPA 8260B	
Benzene	9.4	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	590	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	450	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %		75-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99 %		60-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %		60-135	"	"	"	"	

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Project: ARCO #2111, San Leandro, CA
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Project Manager: Jay Johnson

MQH0022
Reported:
08/15/07 08:24

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111ASWEFF (MQH0022-03) Water Sampled: 08/01/07 06:02 Received: 08/01/07 10:15									
tert-Amyl methyl ether	ND	0.50	ug/l	1	7H02001	08/02/07	08/02/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	28	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	6.8	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		92 %		75-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %		60-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		111 %		60-135	"	"	"	"	
02111WGAC1 (MQH0022-04) Water Sampled: 08/01/07 05:57 Received: 08/01/07 10:15									
tert-Amyl methyl ether	ND	0.50	ug/l	1	7H04002	08/04/07	08/04/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		105 %		75-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		116 %		60-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %		60-135	"	"	"	"	

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Project Manager: Jay Johnson

MQH0022
Reported:
08/15/07 08:24

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111WEFF (MQH0022-05) Water Sampled: 08/01/07 05:49 Received: 08/01/07 10:15									
tert-Amyl methyl ether	ND	0.50	ug/l	1	7H02008	08/02/07	08/02/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		105 %	75-120		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	60-125		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98 %	60-135		"	"	"	"	
02111MW2WINF (MQH0022-06) Water Sampled: 08/01/07 06:17 Received: 08/01/07 10:15									
tert-Amyl methyl ether	6.4	5.0	ug/l	10	7H04002	08/04/07	08/04/07	EPA 8260B	
Benzene	54	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	1300	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	48	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	1100	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	32	5.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		106 %	75-120		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		115 %	60-125		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	60-135		"	"	"	"	

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Project Manager: Jay Johnson

MQH0022
Reported:
08/15/07 08:24

Purgeable Hydrocarbons by EPA 8015B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7H02006 - EPA 5030B [P/T] / EPA 8015B-VOA

Blank (7H02006-BLK1)			Prepared & Analyzed: 08/02/07							
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	35.7		"	40.0		89	75-125			
Laboratory Control Sample (7H02006-BS1)			Prepared & Analyzed: 08/02/07							
Gasoline Range Organics (C4-C12)	223	50	ug/l	275		81	60-115			
Surrogate: 4-Bromofluorobenzene	38.2		"	40.0		95	75-125			
Matrix Spike (7H02006-MS1)			Source: MQH0022-03		Prepared & Analyzed: 08/02/07					
Gasoline Range Organics (C4-C12)	250	50	ug/l	275	ND	91	60-115			
Surrogate: 4-Bromofluorobenzene	39.2		"	40.0		98	75-125			
Matrix Spike Dup (7H02006-MSD1)			Source: MQH0022-03		Prepared & Analyzed: 08/02/07					
Gasoline Range Organics (C4-C12)	233	50	ug/l	275	ND	85	60-115	7	20	
Surrogate: 4-Bromofluorobenzene	38.1		"	40.0		95	75-125			

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MQH0022
Reported:
08/15/07 08:24

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7H01026 - EPA 5030B P/T / EPA 8260B

Blank (7H01026-BLK1)

Prepared & Analyzed: 08/01/07

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	2.66		"	2.50		106	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.81		"	2.50		112	60-125			
<i>Surrogate: Toluene-d8</i>	2.56		"	2.50		102	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.57		"	2.50		103	60-135			

Laboratory Control Sample (7H01026-BS1)

Prepared & Analyzed: 08/01/07

tert-Amyl methyl ether	9.07	0.50	ug/l	10.0		91	65-135			
Benzene	9.66	0.50	"	10.0		97	75-120			
tert-Butyl alcohol	196	20	"	200		98	60-135			
Di-isopropyl ether	10.3	0.50	"	10.0		103	70-130			
Ethyl tert-butyl ether	10.1	0.50	"	10.0		101	65-130			
Ethylbenzene	10.7	0.50	"	10.0		107	75-120			
Methyl tert-butyl ether	9.26	0.50	"	10.0		93	50-140			
Toluene	10.1	0.50	"	10.0		101	75-120			
Xylenes (total)	29.8	0.50	"	30.0		99	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.45		"	2.50		98	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.58		"	2.50		103	60-125			
<i>Surrogate: Toluene-d8</i>	2.55		"	2.50		102	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.73		"	2.50		109	60-135			

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MQH0022
Reported:
08/15/07 08:24

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7H01026 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7H01026-MS1)	Source: MQG0762-02			Prepared & Analyzed: 08/01/07						
tert-Amyl methyl ether	12.2	0.50	ug/l	10.0	ND	122	65-135			
Benzene	17.0	0.50	"	10.0	6.16	108	75-120			
tert-Butyl alcohol	215	20	"	200	7.09	104	60-135			
Di-isopropyl ether	13.1	0.50	"	10.0	0.670	124	70-130			
Ethyl tert-butyl ether	12.5	0.50	"	10.0	ND	125	65-130			
Ethylbenzene	9.86	0.50	"	10.0	ND	99	75-120			
Methyl tert-butyl ether	12.2	0.50	"	10.0	ND	122	50-140			
Toluene	11.7	0.50	"	10.0	ND	117	75-120			
Xylenes (total)	28.8	0.50	"	30.0	ND	96	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.64		"	2.50		106	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.67		"	2.50		107	60-125			
<i>Surrogate: Toluene-d8</i>	2.49		"	2.50		100	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.57		"	2.50		103	60-135			

Matrix Spike Dup (7H01026-MSD1)	Source: MQG0762-02			Prepared & Analyzed: 08/01/07						
tert-Amyl methyl ether	11.3	0.50	ug/l	10.0	ND	113	65-135	7	25	
Benzene	15.9	0.50	"	10.0	6.16	98	75-120	6	20	
tert-Butyl alcohol	232	20	"	200	7.09	112	60-135	8	25	
Di-isopropyl ether	13.0	0.50	"	10.0	0.670	124	70-130	0.5	25	
Ethyl tert-butyl ether	12.5	0.50	"	10.0	ND	125	65-130	0.2	25	
Ethylbenzene	10.4	0.50	"	10.0	ND	104	75-120	5	20	
Methyl tert-butyl ether	12.7	0.50	"	10.0	ND	127	50-140	4	25	
Toluene	10.4	0.50	"	10.0	ND	104	75-120	11	25	
Xylenes (total)	30.6	0.50	"	30.0	ND	102	75-130	6	20	
<i>Surrogate: Dibromofluoromethane</i>	2.62		"	2.50		105	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.80		"	2.50		112	60-125			
<i>Surrogate: Toluene-d8</i>	2.22		"	2.50		89	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.63		"	2.50		105	60-135			

Stratus Environmental Inc. [Arco]
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MQH0022
Reported:
08/15/07 08:24

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7H02001 - EPA 5030B P/T / EPA 8260B

Blank (7H02001-BLK1)

Prepared & Analyzed: 08/02/07

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	2.62		"	2.50		105	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.86		"	2.50		114	60-125			
<i>Surrogate: Toluene-d8</i>	2.47		"	2.50		99	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.39		"	2.50		96	60-135			

Laboratory Control Sample (7H02001-BS1)

Prepared & Analyzed: 08/02/07

tert-Amyl methyl ether	9.24	0.50	ug/l	10.0		92	65-135			
Benzene	10.2	0.50	"	10.0		102	75-120			
tert-Butyl alcohol	196	20	"	200		98	60-135			
Di-isopropyl ether	9.84	0.50	"	10.0		98	70-130			
Ethyl tert-butyl ether	9.88	0.50	"	10.0		99	65-130			
Ethylbenzene	11.0	0.50	"	10.0		110	75-120			
Methyl tert-butyl ether	9.59	0.50	"	10.0		96	50-140			
Toluene	9.87	0.50	"	10.0		99	75-120			
Xylenes (total)	31.2	0.50	"	30.0		104	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.40		"	2.50		96	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.41		"	2.50		96	60-125			
<i>Surrogate: Toluene-d8</i>	2.49		"	2.50		100	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.72		"	2.50		109	60-135			

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQH0022
Reported:
08/15/07 08:24

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7H02001 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7H02001-MS1)	Source: MQH0022-03			Prepared & Analyzed: 08/02/07						
tert-Amyl methyl ether	9.81	0.50	ug/l	10.0	ND	98	65-135			
Benzene	9.51	0.50	"	10.0	ND	95	75-120			
tert-Butyl alcohol	216	20	"	200	28.2	94	60-135			
Di-isopropyl ether	9.54	0.50	"	10.0	ND	95	70-130			
Ethyl tert-butyl ether	9.91	0.50	"	10.0	ND	99	65-130			
Ethylbenzene	10.4	0.50	"	10.0	ND	104	75-120			
Methyl tert-butyl ether	15.4	0.50	"	10.0	6.76	86	50-140			
Toluene	10.1	0.50	"	10.0	ND	101	75-120			
Xylenes (total)	28.5	0.50	"	30.0	ND	95	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.47		"	2.50		99	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.68		"	2.50		107	60-125			
<i>Surrogate: Toluene-d8</i>	2.49		"	2.50		100	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.76		"	2.50		110	60-135			

Matrix Spike Dup (7H02001-MSD1)	Source: MQH0022-03			Prepared & Analyzed: 08/02/07						
tert-Amyl methyl ether	10.2	0.50	ug/l	10.0	ND	102	65-135	4	25	
Benzene	9.60	0.50	"	10.0	ND	96	75-120	0.9	20	
tert-Butyl alcohol	234	20	"	200	28.2	103	60-135	8	25	
Di-isopropyl ether	10.3	0.50	"	10.0	ND	103	70-130	8	25	
Ethyl tert-butyl ether	10.6	0.50	"	10.0	ND	106	65-130	7	25	
Ethylbenzene	9.33	0.50	"	10.0	ND	93	75-120	11	20	
Methyl tert-butyl ether	16.3	0.50	"	10.0	6.76	95	50-140	5	25	
Toluene	9.75	0.50	"	10.0	ND	98	75-120	4	25	
Xylenes (total)	31.1	0.50	"	30.0	ND	104	75-130	9	20	
<i>Surrogate: Dibromofluoromethane</i>	2.54		"	2.50		102	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.53		"	2.50		101	60-125			
<i>Surrogate: Toluene-d8</i>	2.54		"	2.50		102	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.67		"	2.50		107	60-135			

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Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQH0022
Reported:
08/15/07 08:24

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7H02008 - EPA 5030B P/T / EPA 8260B

Blank (7H02008-BLK1)

Prepared & Analyzed: 08/02/07

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	2.46		"	2.50		98	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.53		"	2.50		101	60-125			
<i>Surrogate: Toluene-d8</i>	2.55		"	2.50		102	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.47		"	2.50		99	60-135			

Laboratory Control Sample (7H02008-BS1)

Prepared & Analyzed: 08/02/07

tert-Amyl methyl ether	10.7	0.50	ug/l	10.0		107	65-135			
Benzene	9.89	0.50	"	10.0		99	75-120			
tert-Butyl alcohol	172	20	"	200		86	60-135			
Di-isopropyl ether	10.3	0.50	"	10.0		103	70-130			
Ethyl tert-butyl ether	11.1	0.50	"	10.0		111	65-130			
Ethylbenzene	10.2	0.50	"	10.0		102	75-120			
Methyl tert-butyl ether	11.2	0.50	"	10.0		112	50-140			
Toluene	9.79	0.50	"	10.0		98	75-120			
Xylenes (total)	29.2	0.50	"	30.0		97	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.43		"	2.50		97	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.56		"	2.50		102	60-125			
<i>Surrogate: Toluene-d8</i>	2.56		"	2.50		102	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.53		"	2.50		101	60-135			

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQH0022
Reported:
08/15/07 08:24

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7H02008 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7H02008-MS2)		Source: MQH0020-04RE1			Prepared & Analyzed: 08/02/07					
tert-Amyl methyl ether	9.98	0.50	ug/l	10.0	ND	100	65-135			
Benzene	10.2	0.50	"	10.0	ND	102	75-120			
tert-Butyl alcohol	176	20	"	200	ND	88	60-135			
Di-isopropyl ether	10.2	0.50	"	10.0	ND	102	70-130			
Ethyl tert-butyl ether	10.2	0.50	"	10.0	ND	102	65-130			
Ethylbenzene	10.1	0.50	"	10.0	ND	101	75-120			
Methyl tert-butyl ether	9.77	0.50	"	10.0	ND	98	50-140			
Toluene	9.93	0.50	"	10.0	ND	99	75-120			
Xylenes (total)	29.1	0.50	"	30.0	ND	97	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.58		"	2.50		103	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.70		"	2.50		108	60-125			
<i>Surrogate: Toluene-d8</i>	2.67		"	2.50		107	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.51		"	2.50		100	60-135			

Matrix Spike Dup (7H02008-MSD2)		Source: MQH0020-04RE1			Prepared & Analyzed: 08/02/07					
tert-Amyl methyl ether	9.66	0.50	ug/l	10.0	ND	97	65-135	3	25	
Benzene	9.93	0.50	"	10.0	ND	99	75-120	2	20	
tert-Butyl alcohol	175	20	"	200	ND	87	60-135	1	25	
Di-isopropyl ether	10.0	0.50	"	10.0	ND	100	70-130	2	25	
Ethyl tert-butyl ether	9.92	0.50	"	10.0	ND	99	65-130	3	25	
Ethylbenzene	9.87	0.50	"	10.0	ND	99	75-120	2	20	
Methyl tert-butyl ether	9.56	0.50	"	10.0	ND	96	50-140	2	25	
Toluene	9.67	0.50	"	10.0	ND	97	75-120	3	25	
Xylenes (total)	28.9	0.50	"	30.0	ND	96	75-130	0.5	20	
<i>Surrogate: Dibromofluoromethane</i>	2.56		"	2.50		102	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.61		"	2.50		104	60-125			
<i>Surrogate: Toluene-d8</i>	2.62		"	2.50		105	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.60		"	2.50		104	60-135			

Stratus Environmental Inc. [Arco]
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Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQH0022
Reported:
08/15/07 08:24

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7H04002 - EPA 5030B P/T / EPA 8260B

Blank (7H04002-BLK1)

Prepared & Analyzed: 08/04/07

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	2.61		"	2.50		104	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.66		"	2.50		106	60-125			
<i>Surrogate: Toluene-d8</i>	2.52		"	2.50		101	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.46		"	2.50		98	60-135			

Laboratory Control Sample (7H04002-BS1)

Prepared & Analyzed: 08/04/07

tert-Amyl methyl ether	10.8	0.50	ug/l	10.0		108	65-135			
Benzene	10.2	0.50	"	10.0		102	75-120			
tert-Butyl alcohol	209	20	"	200		104	60-135			
Di-isopropyl ether	10.6	0.50	"	10.0		106	70-130			
Ethyl tert-butyl ether	10.8	0.50	"	10.0		108	65-130			
Ethylbenzene	10.6	0.50	"	10.0		106	75-120			
Methyl tert-butyl ether	11.0	0.50	"	10.0		110	50-140			
Toluene	10.2	0.50	"	10.0		102	75-120			
Xylenes (total)	31.1	0.50	"	30.0		104	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.75		"	2.50		110	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.78		"	2.50		111	60-125			
<i>Surrogate: Toluene-d8</i>	2.60		"	2.50		104	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.58		"	2.50		103	60-135			

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQH0022
Reported:
08/15/07 08:24

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7H04002 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7H04002-MS1)		Source: MQG1003-15			Prepared & Analyzed: 08/04/07					
tert-Amyl methyl ether	10.0	0.50	ug/l	10.0	ND	100	65-135			
Benzene	10.3	0.50	"	10.0	0.560	98	75-120			
tert-Butyl alcohol	196	20	"	200	ND	98	60-135			
Di-isopropyl ether	9.87	0.50	"	10.0	ND	99	70-130			
Ethyl tert-butyl ether	9.78	0.50	"	10.0	ND	98	65-130			
Ethylbenzene	10.3	0.50	"	10.0	ND	103	75-120			
Methyl tert-butyl ether	66.6	0.50	"	10.0	65.9	7	50-140			BB
Toluene	9.95	0.50	"	10.0	ND	100	75-120			
Xylenes (total)	30.3	0.50	"	30.0	ND	101	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.60		"	2.50		104	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.56		"	2.50		102	60-125			
<i>Surrogate: Toluene-d8</i>	2.56		"	2.50		102	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.62		"	2.50		105	60-135			

Matrix Spike Dup (7H04002-MSD1)		Source: MQG1003-15			Prepared & Analyzed: 08/04/07					
tert-Amyl methyl ether	11.5	0.50	ug/l	10.0	ND	115	65-135	14	25	
Benzene	11.0	0.50	"	10.0	0.560	105	75-120	7	20	
tert-Butyl alcohol	214	20	"	200	ND	107	60-135	9	25	
Di-isopropyl ether	11.1	0.50	"	10.0	ND	111	70-130	11	25	
Ethyl tert-butyl ether	11.4	0.50	"	10.0	ND	114	65-130	15	25	
Ethylbenzene	10.9	0.50	"	10.0	ND	109	75-120	5	20	
Methyl tert-butyl ether	78.9	0.50	"	10.0	65.9	130	50-140	17	25	BB
Toluene	10.7	0.50	"	10.0	ND	107	75-120	7	25	
Xylenes (total)	31.9	0.50	"	30.0	ND	106	75-130	5	20	
<i>Surrogate: Dibromofluoromethane</i>	2.64		"	2.50		106	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.70		"	2.50		108	60-125			
<i>Surrogate: Toluene-d8</i>	2.56		"	2.50		102	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.66		"	2.50		106	60-135			

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

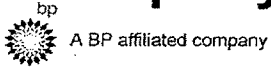
Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQH0022
Reported:
08/15/07 08:24

Notes and Definitions

BB Sample > 4x spike concentration
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Atlantic Richfield Company



A BP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 2111
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: California Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 24 hours for Effluent & STD for others

RUSH

On-site Time: <u>0500</u>	Temp: <u>60</u>
Off-site Time: <u>0730</u>	Temp: <u>60</u>
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>2111</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>1156 Davis St, San Leandro</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600101764</u>	Consultant/Contractor Project No.: <u>E2111-03</u>
Tele/Fax: <u>408-782-8156/ 408-782-6308</u>	Enfos Project No.: <u>G0C28-0023</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>03-O&M</u>	Report Type & QC Level: <u>Level I with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-275-3506/925-275-3815</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO by 8015	ETEX by 8260	S-oxygenates by 8260	24-hours	Standard	
1	02111DPWINF	012	8/10/07		x		01	6			X			x	x	x			5-oxygenates requested are MTBE, DIPE, ETBE, TAME, and TBA.
2	02111ASWINF	0607	}		x		02	6			X			x	x	x			
3	02111ASWEFF	0602		03	6			X				x	x	x			x		
4	02111WGACI	0557		04	6			X				x	x	x			x		
5	02111WEFF	0549		05	6			X				x	x	x			x		
6	02111MW2WINF	0617		06	6			X				x	x	x			x		
7																			Hold
8																			
9	TBZ1118107	0620	8/10/07		x		07	1											

Sampler's Name: <u>Chris Hill</u>	Relinquished By / Affiliation: <u>[Signature] Stratus</u>	Date: <u>10/12</u>	Time: <u>8107</u>	Accepted By / Affiliation: <u>JULIE TAMM NG.</u>	Date: <u>8/10/07</u>	Time: <u>1015</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>8/10/07</u>						
Shipment Method: <u>Stratus</u>						
Shipment Tracking No:						

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

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 5.0 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARCO
 REC. BY (PRINT) JULIENG
 WORKORDER: MOU0022

DATE REC'D AT LAB: 8/1/07
 TIME REC'D AT LAB: 1015
 DATE LOGGED IN: 8/1/07

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

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / <input checked="" type="radio"/> Absent Inactive / Broken*								JULIENG SEE COC 8/1/07
2. Chain-of-Custody	Present / <input checked="" type="radio"/> Absent*								
3. Traffic Reports or Packing List.	Present / <input checked="" type="radio"/> Absent								
4. Airbill:	Airbill / Slicker Present / <input checked="" type="radio"/> Absent								
5. Airbill #									
6. Sample Labels:	Present / <input checked="" type="radio"/> Absent								
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody								
8. Sample Condition:	In <input checked="" type="radio"/> / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	<input checked="" type="radio"/> Yes / No*								
10. Sample received within hold time?	<input checked="" type="radio"/> Yes / No*								
11. Adequate sample volume received?	<input checked="" type="radio"/> Yes / No*								
12. Proper preservatives used?	<input checked="" type="radio"/> Yes / No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes)	<input checked="" type="radio"/> Yes / No*								
14. Read Temp: <u>5.6°C</u> Corrected Temp: <u>↓</u> Is corrected temp 4 +/-2°C? <input checked="" type="radio"/> Yes / No*									

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

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

15 August, 2007

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

RE: ARCO #2111, San Leandro, CA
Work Order: MQH0019

Enclosed are the results of analyses for samples received by the laboratory on 08/01/07 10:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa Race
Senior Project Manager

CA ELAP Certificate # 1210

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

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQH0019
Reported:
08/15/07 08:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
02111DPEAINF	MQH0019-01	Vapor	08/01/07 06:32	08/01/07 10:15
02111ASAEFF	MQH0019-02	Vapor	08/01/07 06:30	08/01/07 10:15
02111ASYSINF	MQH0019-03	Vapor	08/01/07 06:28	08/01/07 10:15
02111AGAC1	MQH0019-04	Vapor	08/01/07 06:25	08/01/07 10:15
02111AEFF	MQH0019-05	Vapor	08/01/07 06:22	08/01/07 10:15

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies. These samples were received with no custody seals.

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQH0019
Reported:
08/15/07 08:09

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111DPEAINF (MQH0019-01) Vapor Sampled: 08/01/07 06:32 Received: 08/01/07 10:15									
Gasoline Range Organics (C4-C12)	1300	200	mg/m ³ Air	20	7H03008	08/03/07	08/03/07 13:02	EPA 8015B/8021B	
Benzene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	2.8	2.0	"	"	"	"	"	"	
Xylenes (total)	6.0	4.0	"	"	"	"	"	"	
Methyl tert-butyl ether	24	10	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		127 %		65-140	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93 %		70-125	"	"	"	"	
Gasoline Range Organics (C4-C12)	360	49	ppmv	20	"	"	"	"	
Benzene	ND	0.63	"	"	"	"	"	"	
Toluene	ND	0.53	"	"	"	"	"	"	
Ethylbenzene	0.64	0.46	"	"	"	"	"	"	
Xylenes (total)	1.4	0.95	"	"	"	"	"	"	
Methyl tert-butyl ether	6.6	2.8	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		127 %		65-140	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93 %		70-125	"	"	"	"	
02111ASAEFF (MQH0019-02) Vapor Sampled: 08/01/07 06:30 Received: 08/01/07 10:15									
Gasoline Range Organics (C4-C12)	11	10	mg/m ³ Air	1	7H01028	08/01/07	08/01/07 18:30	EPA 8015B/8021B	
Benzene	0.25	0.10	"	"	"	"	"	"	
Toluene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	0.21	0.10	"	"	"	"	"	"	
Xylenes (total)	0.22	0.20	"	"	"	"	"	"	
Methyl tert-butyl ether	11	0.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		97 %		65-140	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98 %		70-125	"	"	"	"	
Gasoline Range Organics (C4-C12)	3.1	2.4	ppmv	"	"	"	"	"	
Benzene	0.079	0.031	"	"	"	"	"	"	
Toluene	ND	0.027	"	"	"	"	"	"	
Ethylbenzene	0.048	0.023	"	"	"	"	"	"	
Xylenes (total)	0.051	0.047	"	"	"	"	"	"	
Methyl tert-butyl ether	3.1	0.14	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		97 %		65-140	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98 %		70-125	"	"	"	"	

TestAmerica - Morgan Hill, CA

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

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQH0019
Reported:
08/15/07 08:09

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111ASYSINF (MQH0019-03) Vapor Sampled: 08/01/07 06:28 Received: 08/01/07 10:15									
Gasoline Range Organics (C4-C12)	660	100	mg/m ³ Air	10	7H01028	08/01/07	08/01/07 20:24	EPA 8015B/8021B	
Benzene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	1.2	1.0	"	"	"	"	"	"	
Xylenes (total)	2.2	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	11	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		100 %		65-140	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %		70-125	"	"	"	"	
Gasoline Range Organics (C4-C12)	190	24	ppmv	10	"	"	"	"	
Benzene	ND	0.31	"	"	"	"	"	"	
Toluene	ND	0.27	"	"	"	"	"	"	
Ethylbenzene	0.28	0.23	"	"	"	"	"	"	
Xylenes (total)	0.51	0.47	"	"	"	"	"	"	
Methyl tert-butyl ether	3.0	1.4	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		100 %		65-140	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %		70-125	"	"	"	"	
02111AGAC1 (MQH0019-04) Vapor Sampled: 08/01/07 06:25 Received: 08/01/07 10:15									
Gasoline Range Organics (C4-C12)	ND	10	mg/m ³ Air	1	7H01028	08/01/07	08/01/07 17:06	EPA 8015B/8021B	
Benzene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
Xylenes (total)	ND	0.20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		105 %		65-140	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95 %		70-125	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	2.4	ppmv	"	"	"	"	"	
Benzene	ND	0.031	"	"	"	"	"	"	
Toluene	ND	0.027	"	"	"	"	"	"	
Ethylbenzene	ND	0.023	"	"	"	"	"	"	
Xylenes (total)	ND	0.047	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.14	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		105 %		65-140	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95 %		70-125	"	"	"	"	

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQH0019
Reported:
08/15/07 08:09

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111AEFF (MQH0019-05) Vapor Sampled: 08/01/07 06:22 Received: 08/01/07 10:15									
Gasoline Range Organics (C4-C12)	ND	10	mg/m ³ Air	1	7H01028	08/01/07	08/01/07 16:35	EPA 8015B/8021B	
Benzene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
Xylenes (total)	ND	0.20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		108 %	65-140		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99 %	70-125		"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	2.4	ppmv	"	"	"	"	"	
Benzene	ND	0.031	"	"	"	"	"	"	
Toluene	ND	0.027	"	"	"	"	"	"	
Ethylbenzene	ND	0.023	"	"	"	"	"	"	
Xylenes (total)	ND	0.047	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.14	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		108 %	65-140		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99 %	70-125		"	"	"	"	

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
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Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQH0019
Reported:
08/15/07 08:09

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7H01028 - EPA 5030B [P/T] / EPA 8015B/8021B

Blank (7H01028-BLK1)

Prepared & Analyzed: 08/01/07

Gasoline Range Organics (C4-C12)	ND	12	ppmv							
Gasoline Range Organics (C4-C12)	ND	50	mg/m ³ Air							
Benzene	ND	0.16	ppmv							
Benzene	ND	0.50	mg/m ³ Air							
Toluene	ND	0.13	ppmv							
Toluene	ND	0.50	mg/m ³ Air							
Ethylbenzene	ND	0.12	ppmv							
Ethylbenzene	ND	0.50	mg/m ³ Air							
Xylenes (total)	ND	0.24	ppmv							
Xylenes (total)	ND	1.0	mg/m ³ Air							
Methyl tert-butyl ether	ND	0.69	ppmv							
Methyl tert-butyl ether	ND	2.5	mg/m ³ Air							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	6.59		ppmv	6.70		98	65-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	39.4		mg/m ³ Air	40.0		98	65-140			
<i>Surrogate: 4-Bromofluorobenzene</i>	5.27		ppmv	5.59		94	70-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	37.7		mg/m ³ Air	40.0		94	70-125			

Laboratory Control Sample (7H01028-BS1)

Prepared & Analyzed: 08/01/07

Gasoline Range Organics (C4-C12)	70.6	12	ppmv	78.0		90	70-115			
Gasoline Range Organics (C4-C12)	249	50	mg/m ³ Air	275		90	70-115			
Benzene	1.31	0.16	ppmv	1.03		127	80-150			
Benzene	4.18	0.50	mg/m ³ Air	3.30		127	80-150			
Toluene	5.75	0.13	ppmv	6.43		89	75-125			
Toluene	21.6	0.50	mg/m ³ Air	24.2		89	75-125			
Ethylbenzene	1.01	0.12	ppmv	1.17		87	75-135			
Ethylbenzene	4.37	0.50	mg/m ³ Air	5.05		87	75-135			
Xylenes (total)	5.67	0.24	ppmv	6.68		85	75-135			
Xylenes (total)	24.6	1.0	mg/m ³ Air	29.0		85	75-135			
Methyl tert-butyl ether	1.39	0.69	ppmv	1.28		109	60-140			
Methyl tert-butyl ether	5.00	2.5	mg/m ³ Air	4.60		109	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	6.47		ppmv	6.70		97	65-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	38.6		mg/m ³ Air	40.0		97	65-140			
<i>Surrogate: 4-Bromofluorobenzene</i>	5.60		ppmv	5.59		100	70-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	40.1		mg/m ³ Air	40.0		100	70-125			

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQH0019
Reported:
08/15/07 08:09

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7H01028 - EPA 5030B [P/T] / EPA 8015B/8021B

Laboratory Control Sample Dup (7H01028-BSD1)

Prepared & Analyzed: 08/01/07

Gasoline Range Organics (C4-C12)	71.1	12	ppmv	78.0		91	70-115	0.8	20	
Gasoline Range Organics (C4-C12)	251	50	mg/m ³ Air	275		91	70-115	0.8	20	
Benzene	1.30	0.16	ppmv	1.03		126	80-150	0.4	25	
Benzene	4.16	0.50	mg/m ³ Air	3.30		126	80-150	0.4	25	
Toluene	5.73	0.13	ppmv	6.43		89	75-125	0.4	20	
Toluene	21.5	0.50	mg/m ³ Air	24.2		89	75-125	0.4	20	
Ethylbenzene	1.01	0.12	ppmv	1.17		87	75-135	0.09	25	
Ethylbenzene	4.37	0.50	mg/m ³ Air	5.05		87	75-135	0.09	25	
Xylenes (total)	5.67	0.24	ppmv	6.68		85	75-135	0.05	20	
Xylenes (total)	24.6	1.0	mg/m ³ Air	29.0		85	75-135	0.05	20	
Methyl tert-butyl ether	1.40	0.69	ppmv	1.28		109	60-140	0.6	25	
Methyl tert-butyl ether	5.03	2.5	mg/m ³ Air	4.60		109	60-140	0.6	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	6.52		ppmv	6.70		97	65-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	38.9		mg/m ³ Air	40.0		97	65-140			
<i>Surrogate: 4-Bromofluorobenzene</i>	5.59		ppmv	5.59		100	70-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	40.0		mg/m ³ Air	40.0		100	70-125			

Batch 7H03008 - EPA 5030B [P/T] / EPA 8015B/8021B

Blank (7H03008-BLK1)

Prepared & Analyzed: 08/03/07

Gasoline Range Organics (C4-C12)	ND	12	ppmv							
Gasoline Range Organics (C4-C12)	ND	50	mg/m ³ Air							
Benzene	ND	0.50	"							
Benzene	ND	0.16	ppmv							
Toluene	ND	0.50	mg/m ³ Air							
Toluene	ND	0.13	ppmv							
Ethylbenzene	ND	0.12	"							
Ethylbenzene	ND	0.50	mg/m ³ Air							
Xylenes (total)	ND	0.24	ppmv							
Xylenes (total)	ND	1.0	mg/m ³ Air							
Methyl tert-butyl ether	ND	0.69	ppmv							
Methyl tert-butyl ether	ND	2.5	mg/m ³ Air							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	38.9		"	40.0		97	65-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	6.52		ppmv	6.70		97	65-140			
<i>Surrogate: 4-Bromofluorobenzene</i>	35.8		mg/m ³ Air	40.0		90	70-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	5.01		ppmv	5.59		90	70-125			

TestAmerica - Morgan Hill, CA

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

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0023 Project Manager: Jay Johnson	MQH0019 Reported: 08/15/07 08:09
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Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7H03008 - EPA 5030B [P/T] / EPA 8015B/8021B

Laboratory Control Sample (7H03008-BS1)

Prepared & Analyzed: 08/03/07

Gasoline Range Organics (C4-C12)	244	50	mg/m ³ Air	275		89	70-115			
Gasoline Range Organics (C4-C12)	69.4	12	ppmv	78.0		89	70-115			
Benzene	4.40	0.50	mg/m ³ Air	3.30		133	80-150			
Benzene	1.38	0.16	ppmv	1.03		133	80-150			
Toluene	22.6	0.50	mg/m ³ Air	24.2		93	75-125			
Toluene	6.01	0.13	ppmv	6.43		93	75-125			
Ethylbenzene	4.58	0.50	mg/m ³ Air	5.05		91	75-135			
Ethylbenzene	1.06	0.12	ppmv	1.17		91	75-135			
Xylenes (total)	25.8	1.0	mg/m ³ Air	29.0		89	75-135			
Xylenes (total)	5.94	0.24	ppmv	6.68		89	75-135			
Methyl tert-butyl ether	5.20	2.5	mg/m ³ Air	4.60		113	60-140			
Methyl tert-butyl ether	1.45	0.69	ppmv	1.28		113	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>38.4</i>		<i>mg/m³ Air</i>	<i>40.0</i>		<i>96</i>	<i>65-140</i>			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>6.44</i>		<i>ppmv</i>	<i>6.70</i>		<i>96</i>	<i>65-140</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>37.3</i>		<i>mg/m³ Air</i>	<i>40.0</i>		<i>93</i>	<i>70-125</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>5.22</i>		<i>ppmv</i>	<i>5.59</i>		<i>93</i>	<i>70-125</i>			

Laboratory Control Sample Dup (7H03008-BSD1)

Prepared & Analyzed: 08/03/07

Gasoline Range Organics (C4-C12)	237	50	mg/m ³ Air	275		86	70-115	3	20	
Gasoline Range Organics (C4-C12)	67.3	12	ppmv	78.0		86	70-115	3	20	
Benzene	4.30	0.50	mg/m ³ Air	3.30		130	80-150	2	25	
Benzene	1.35	0.16	ppmv	1.03		130	80-150	2	25	
Toluene	22.5	0.50	mg/m ³ Air	24.2		93	75-125	0.7	20	
Toluene	5.97	0.13	ppmv	6.43		93	75-125	0.7	20	
Ethylbenzene	4.53	0.50	mg/m ³ Air	5.05		90	75-135	1	25	
Ethylbenzene	1.04	0.12	ppmv	1.17		90	75-135	1	25	
Xylenes (total)	25.5	1.0	mg/m ³ Air	29.0		88	75-135	1	20	
Xylenes (total)	5.89	0.24	ppmv	6.68		88	75-135	1	20	
Methyl tert-butyl ether	5.13	2.5	mg/m ³ Air	4.60		112	60-140	1	25	
Methyl tert-butyl ether	1.43	0.69	ppmv	1.28		112	60-140	1	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>37.5</i>		<i>mg/m³ Air</i>	<i>40.0</i>		<i>94</i>	<i>65-140</i>			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>6.28</i>		<i>ppmv</i>	<i>6.70</i>		<i>94</i>	<i>65-140</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>37.0</i>		<i>mg/m³ Air</i>	<i>40.0</i>		<i>93</i>	<i>70-125</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>5.17</i>		<i>ppmv</i>	<i>5.59</i>		<i>93</i>	<i>70-125</i>			

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQH0019
Reported:
08/15/07 08:09

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



bp
A BP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 2111
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: California Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 24 hours for Effluent & STD for others

RUSH

On-site Time: <u>0500</u>	Temp: <u>60</u>
Off-site Time: <u>0730</u>	Temp: <u>60</u>
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>2111</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>1156 Davis St., San Leandro</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600101764</u>	Consultant/Contractor Project No.: <u>E2111-03</u>
Tele/Fax: <u>408-782-8156/ 408-782-6308</u>	Enfos Project No.: <u>G0C28-0023</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>03-O&M</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-275-3506/925-275-3815</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	CRO by 8015	BTEX by 8260	MTBE by 8260	24-hours	Standard	
1	02111DPEAINF	<u>0632</u>	<u>8/6/07</u>			x	<u>01</u>	<u>2</u>						x	x	x		x	
2	02111ASAEFF	<u>0630</u>	<u>8/6/07</u>			x	<u>02</u>	<u>2</u>						x	x	x		x	
3	02111ASYSINF	<u>0628</u>	<u>8/6/07</u>			x	<u>03</u>	<u>2</u>						x	x	x		x	
4	02111AGACI	<u>0625</u>	<u>8/6/07</u>			x	<u>04</u>	<u>2</u>						x	x	x		x	
5	02111AEFF	<u>0622</u>	<u>8/6/07</u>			x	<u>05</u>	<u>2</u>						x	x	x		x	
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>Chris Hill</u>	Relinquished By / Affiliation: <u>[Signature] Stratus</u>	Date: <u>8/10/07</u>	Time: <u>10:12</u>	Accepted By / Affiliation: <u>JWENG. / TAMH</u>	Date: <u>8/10/07</u>	Time: <u>10:15</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>8-1-07</u>						
Shipment Method: <u>Stratus</u>						
Shipment Tracking No:						

Instructions: Please cc results to bpedf@broadbentinc.com

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

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARCO
 REC. BY (PRINT) JULIENG.
 WORKORDER: M040019

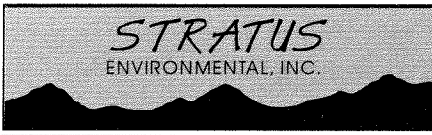
DATE REC'D AT LAB: 8/1/07
 TIME REC'D AT LAB: 1015
 DATE LOGGED IN: 8/1/07

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

YES / NO
 YES / NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*								
2. Chain-of-Custody	Present / Absent*								
3. Traffic Reports or Packing List.	Present / Absent								
4. Airbill.	Airbill / Slicker Present / Absent								
5. Airbill #									
6. Sample Labels:	Present / Absent								
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody								
8. Sample Condition:	Intact / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	Yes / No*								
10. Sample received within hold time?	Yes / No*								
11. Adequate sample volume received?	Yes / No*								
12. Proper preservatives used?	Yes / No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes)	Yes / No*								
14. Read Temp: Corrected Temp: Is corrected temp 4 +/-2°C?	Yes / No**								
Acceptance range for samples requiring thermal pres									
Reception (if any): METALS / DIFF ON ICE									
Problem COC									

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



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

October 5, 2007

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

Re: Remediation System Operation and Maintenance Data Package, ARCO Service Station
No. 2111, located at 1156 Davis Street, San Leandro, California

General Information

Data Submittal Prepared / Reviewed by: Sandy Hayes and Kiran Nagaraju / Jay Johnson

Phone Number: (530) 676-6007 / (530) 676-6000

On-Site Supplier Representatives: Chris Hill

Number of Site Visits: 3 (September 5, 11, and 17, 2007)

System Overview: Dual Phase Extraction System, Air Stripper, and Groundwater Extraction and Treatment System (GETS)

Operational Status: Continuous operation

Scope of Work Performed: Conduct routine system operation and maintenance, and record field measurements. Influent, mid-fluent, and effluent air and water samples were collected on September 5, 2007.

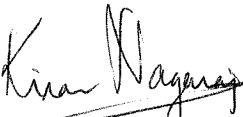
Variations from Scope of Work: The remediation systems were found non-functioning on September 5, 2007 due to high-water level alarm on the oil-water separator. The remediation systems were re-started momentarily on September 5, 2007 and shutdown after sampling, pending receipt of analytical results. Upon receipt of analytical results and compliance verification, the remediation systems were re-started on September 11, 2007.


The remediation systems were again found non-functioning on September 17, 2007 due to high-water level alarm on the oil-water separator. Stratus attempted to re-start the remediation systems after conducting maintenance on the float levels of the oil-water separator but the systems was shutdown again. Stratus will further troubleshoot and re-start the remediation systems during the October 2007.


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

Sincerely,

STRATUS ENVIRONMENTAL, INC.


Kiran Nagaraju
Staff Engineer


Jay R. Johnson, R.G.
Project Manager



Attachments:

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

CC: Paul Supple, BP/ARCO

ARCO FACILITY NO. 2111
 1156 Davis Street
 San Leandro, California
 Dual Phase Extraction and Air Stripper System

ORIGINAL

Date: 9507
 Onsite Time: 0700
 Offsite Time: 0700
 Equipment Manufacturer/Model# _____

Technician: CHILL
 Weather Conditions: Clear
 Ambient Temperature: 50

System Information

System Status Upon Arrival: Operational Non-Operational *High H₂O 0.1/ppm*

System Status Upon Departure: Operational Non-Operational *LAB Results*

Electric Meter Reading: 35646

Hour Meter Reading: 1460.4

Totalizer Reading Prior to Air Stripper: 591363 PID Calibration Date: 9507

Totalizer Reading After Air Stripper: 605850

Field Measurements

Parameter	Influent (after blower, 2111DPEAINF)	Air Stripper (2111ASAEFF)	System Influent (2111ASYSINF)	Stack Air Flow (2111AEFF)	Comments
Differential Pressure, "wc		25			
Air Velocity, FPM	4050	2760			
Pipe Diameter, inches	3	4	4	3	
Air Flow Rate, cfm	190				
Applied Vacuum, "wc	20" Hg	034	NA	NA	
Temperature, deg F	160	130			
PID Readings, ppmv	422	3.5	225	2	PID for GAC-1: 2

Other Readings/Measurements

Well ID	% Open	Applied Vac., "Hg	Total depth, feet bgs	Stinger Depth, feet bgs			
V-1	30	15					
V-2	30	16					
V-3	30	17					
MW-1	100	16					
MW-3	100	16					
MW-7	100	17					
MW-5	100	16					

Signature:

Date: 9507

ARCO FACILITY NO. 2111
 1156 Davis Street
 San Leandro, California
 Groundwater Treatment System

ORIGINAL

Date: 9507
 Onsite Time: 0500
 Offsite Time: 0700

Technician: CHILL
 Weather Conditions: Clear
 Ambient Temperature: 90

System Status Upon Arrival: Operational Non-operational *High H₂O oil/water*
 System Status At Departure: Operational Non-operational *LAB Results*
 Transfer Pump: Operational Non-operational

Transfer Pump Hour Meter Reading: _____

Effluent Flow Totalizer Reading: 589944

No. of Carbon Vessels: 2

Lead Carbon Vessel Pressure (psi): 12

Effluent Water Characteristics (Quarterly by Field Instrument)	
pH:	<u>7.4</u>
Temperature:	<u>21.4</u>

Well ID	Hour Meter Reading	Totalizer Reading	Total Depth	Pump Depth
MW-2		<u>3423</u>		

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
02111DPEWINF	<u>0607</u>	02111MW2WINF	<u>0544</u>
02111ASWINF	<u>0602</u>		
02111ASWEFF	<u>0556</u>		
02111WGAC1	<u>0552</u>		
02111WEFF	<u>0548</u>		
<u>TB2119507</u>	<u>0610</u>		

Lab Parameters	Sampling Frequency	Sample Location	Analytical Method
GRO, BTEX, & 5-Oxys	Monthly	INF& EFF	EPA Method 8260B

Notes: *Ran MW2 while onsite.*
Flotect L6EPB BS3C
Sen. A110
Possible Need New Flout oil/water

Signature: *Chill* Date: 9507

Atlantic Richfield Company

bp
A BP affiliated company

ORIGINAL
RUSH

Chain of Custody Record

Project Name: ARCO Facility No. 2111
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: California Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 24 hours for Effluent & STD for others

On-site Time: <u>0500</u>	Temp: <u>50</u>
Off-site Time: <u>0700</u>	Temp: <u>51</u>
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>2111</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>1156 Davis St., San Leandro</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600101764</u>	Consultant/Contractor Project No.: <u>E2111-03</u>
Tele/Fax: <u>408-782-8156/ 408-782-6308</u>	Enfos Project No.: <u>G0C28-0023</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>03-O&M</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-275-3506/925-275-3815</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	CRO by 8015	BTEX by 8260	5-oxygenates by 8260	24-hours	Standard	
1	02111IDPWINF	0607	9507		x		6			X		x	x	x		x	5-oxygenates requested are MTBE, DIPE, ETBE, TAME, and TBA.		
2	02111ASWINF	0602	}		x		6			X		x	x	x		x			
3	02111ASWEFF	0556			x		6			X		x	x	x		x			
4	02111WGACI	0552			x		6			X		x	x	x		x			
5	02111WEFF	0548			x		6			X		x	x	x	x				
6	02111MW2WINF	0544			x		6			X		x	x	x		x			
9	TB2419507	0610			x			1									Hold		

Sampler's Name: <u>Chris Hill</u>	Requested By / Affiliation: <u>Chris Hill</u>	Date: <u>9507</u>	Time: <u>1355</u>	Accepted By / Affiliation: <u>Chris Hill</u>	Date: <u>9507</u>	Time: <u>1355</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>9507</u>						
Shipment Method:						
Shipment Tracking No:						

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



bp
A BP affiliated company

ORIGINAL

Chain of Custody Record

RUSH

Project Name: ARCO Facility No. 2111
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: California Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 24 hours for Effluent & STD for others

On-site Time: <u>0500</u>	Temp: <u>50</u>
Off-site Time: <u>0700</u>	Temp: <u>57</u>
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>2111</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>1156 Davis St., San Leandro</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600101764</u>	Consultant/Contractor Project No.: <u>E2111-03</u>
Tele/Fax: <u>408-782-8156/408-782-6308</u>	Enfos Project No.: <u>G0C28-0023</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>03-O&M</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-275-3506/925-275-3815</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO by 8015	BTEX by 8260	MTBE by 8260	24-hours	Standard		
1	02111DPEAINF	0616	9507		x			2						x	x	x		x		
2	02111ASAEFF	0627			x			2						x	x	x		x		
3	02111ASYSINF	0625			x			2						x	x	x		x		
4	02111AGAC1	0622			x			2						x	x	x		x		
5	02111AEFF	0620			x			2						x	x	x		x		
6																				
7																				
8																				
9																				
10																				

Sampler's Name: <u>Chris Hill</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>9507</u>	Time: <u>1355</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>9-5-07</u>	Time: <u>1355</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>9-5-07</u>						
Shipment Method:						
Shipment Tracking No:						

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

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

ARCO FACILITY NO. 2111
 1156 Davis Street
 San Leandro, California
 Groundwater Treatment System

ORIGINAL

Date: 9/17/07
 Onsite Time: 0900
 Offsite Time: 1000

Technician: CHILL
 Weather Conditions: Clouds
 Ambient Temperature: 55

System Status Upon Arrival: Operational Non-operational *Restart*
 System Status At Departure: Operational Non-operational
 Transfer Pump: Operational Non-operational

Transfer Pump Hour Meter Reading: _____
 Effluent Flow Totalizer Reading: 589950
 No. of Carbon Vessels: 2
 Lead Carbon Vessel Pressure (psi): 12

Effluent Water Characteristics (Quarterly by Field Instrument) pH: _____ Temperature: _____

Well ID	Hour Meter Reading	Totalizer Reading	Total Depth	Pump Depth
MW-2				

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
02111DPEWINF		02111MW2WINF	
02111ASWINF			
02111ASWEFF			
02111WGAC1			
02111WEFF			

Lab Parameters	Sampling Frequency	Sample Location	Analytical Method
GRO, BTEX, & 5-Oxys	Monthly	INF & EFF	EPA Method 8260B

Notes:

Signature: *[Signature]* Date: 9/11/07

ARCO FACILITY NO. 2111
 1156 Davis Street
 San Leandro, California
 Dual Phase Extraction and Air Stripper System

ORIGINAL

Date: 9-17-09
 Onsite Time: 0900
 Offsite Time: 1000
 Equipment Manufacturer/Model# _____

Technician: CHILL
 Weather Conditions: clouds
 Ambient Temperature: 55

System Information			
System Status Upon Arrival:	Operational	<input type="checkbox"/>	Non-Operational <input checked="" type="checkbox"/> <i>Restart After Samples</i>
System Status Upon Departure:	Operational	<input checked="" type="checkbox"/>	Non-Operational <input type="checkbox"/>
Electric Meter Reading:	<u>NM</u>		
Hour Meter Reading:	<u>1460</u>		
Totalizer Reading Prior to Air Stripper:	<u>591423</u>	PID Calibration Date:	_____
Totalizer Reading After Air Stripper:	<u>605970</u>		

Field Measurements					
Parameter	Influent (after blower, 2111DPEAINF)	Air Stripper (2111ASAEFF)	System Influent (2111ASYSINF)	Stack Air Flow (2111AEFF)	Comments
Differential Pressure, "wc					
Air Velocity, FPM					
Pipe Diameter, inches					
Air Flow Rate, cfm					
Applied Vacuum, "wc			NA	NA	
Temperature, deg F					
PID Readings, ppmv					PID for GAC-1:
Other Readings/Measurements					
Well ID	% Open	Applied Vac., "Hg	Total depth, feet bgs	Stinger Depth, feet bgs	
V-1					
V-2					
V-3					
MW-1					
MW-3					
MW-7					

Signature: *Chill*

Date: 9-17-09

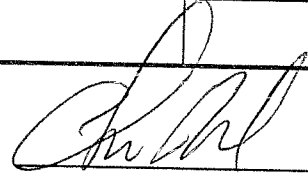
ARCO FACILITY NO. 2111
1156 Davis Street
San Leandro, California
Dual Phase Extraction and Air Stripper System

 ORIGINAL

Sampling Information (monthly)			
Sample ID	Date & Time	Sample ID	Date & Time
02111DPEAINF		02111AGAC1	
02111ASAEFF		02111AEFF	
02111ASYSINF			
Analyses Required: GRO, BTEX, and MTBE			

Operation & Maintenance Notes

Lab Parameters	Sampling Frequency	Sample Location	Analytical Method
GRO	Monthly	02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF	EPA Method 8015
BTEX	Monthly	02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF	EPA Method 8260B
MTBE	Monthly	02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF	EPA Method 8260B

Signature: 

Date: 9 11 0 7

ARCO FACILITY NO. 2111
 1156 Davis Street
 San Leandro, California
 Groundwater Treatment System

ORIGINAL

Date: 91707
 Onsite Time: 0530
 Offsite Time: 0730

Technician: CHILL
 Weather Conditions: Cloudy
 Ambient Temperature: 50

System Status Upon Arrival: Operational Non-operational *High Level*
 System Status At Departure: Operational Non-operational
 Transfer Pump: Operational Non-operational

Transfer Pump Hour Meter Reading: _____

Effluent Flow Totalizer Reading: 591443

No. of Carbon Vessels: 2

Lead Carbon Vessel Pressure (psi): 12

Effluent Water Characteristics (Quarterly by Field Instrument)	
pH:	_____
Temperature:	_____

Well ID	Hour Meter Reading	Totalizer Reading	Total Depth	Pump Depth	
MW-2					

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
02111DPEWINF		02111MW2WINF	
02111ASWINF			
02111ASWEFF			
02111WGAC1			
02111WEFF			

Lab Parameters	Sampling Frequency	Sample Location	Analytical Method
GRO, BTEX, & 5-Oxys	Monthly	INF& EFF	EPA Method 8260B

Notes:

Signature: *Chill*

Date: 91707

ARCO FACILITY NO. 2111
 1156 Davis Street
 San Leandro, California
 Dual Phase Extraction and Air Stripper System

ORIGINAL

Date: 9-17-07
 Onsite Time: 0530
 Offsite Time: 0730
 Equipment Manufacturer/Model# _____

Technician: CHILL
 Weather Conditions: clouds
 Ambient Temperature: 50

System Information

System Status Upon Arrival: Operational Non-Operational *(might leak)*

System Status Upon Departure: Operational Non-Operational

Electric Meter Reading: 45718

Hour Meter Reading: 1464.0

Totalizer Reading Prior to Air Stripper: 592632 PID Calibration Date: 9-17-07

Totalizer Reading After Air Stripper: 607140

Field Measurements

Parameter	Influent (after blower, 2111DPEAINF)	Air Stripper (2111ASAEFF)	System Influent (2111ASYSINF)	Stack Air Flow (2111AEFF)	Comments
Differential Pressure, "wc		25			
Air Velocity, FPM		2206			
Pipe Diameter, inches	93	4	4	3	
Air Flow Rate, cfm	200		200		
Applied Vacuum, "wc		0.35	NA	NA	
Temperature, deg F		120	80		
PID Readings, ppmv	300	4	156	8	PID for GAC-1: 8

Other Readings/Measurements

Well ID	% Open	Applied Vac., "Hg	Total depth, feet bgs	Stinger Depth, feet bgs			
V-1							
V-2							
V-3							
MW-1							
MW-3							
MW-7							

Signature: *Chill*

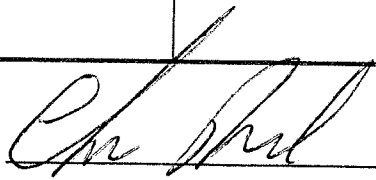
Date: 9-17-07

ORIGINAL

Sampling Information (monthly)			
Sample ID	Date & Time	Sample ID	Date & Time
02111DPEAINF		02111AGAC1	
02111ASAEFF		02111AEFF	
02111ASYSINF			
Analyses Required: GRO, BTEX, and MTBE			

Operation & Maintenance Notes
<p>Replace float switch oil/water separator system cycles twice than High level - float switch working - not sure if problem in PLC -</p> <p>Need to have computer programmer come out</p>

Lab Parameters	Sampling Frequency	Sample Location	Analytical Method
GRO	Monthly	02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF	EPA Method 8015
BTEX	Monthly	02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF	EPA Method 8260B
MTBE	Monthly	02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF	EPA Method 8260B

Signature: 

Date: 9/17/07

20 September, 2007

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

RE: ARCO #2111, San Leandro, CA
Work Order: MQI0086

Enclosed are the results of analyses for samples received by the laboratory on 09/05/07 20:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa Race
Senior Project Manager

CA ELAP Certificate # 1210

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

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0023 Project Manager: Jay Johnson	MQI0086 Reported: 09/20/07 13:40
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
02111DPEWINF	MQI0086-01	Water	09/05/07 06:07	09/05/07 20:10
02111ASWINF	MQI0086-02	Water	09/05/07 06:02	09/05/07 20:10
02111ASWEFF	MQI0086-03	Water	09/05/07 05:56	09/05/07 20:10
02111WGAC1	MQI0086-04	Water	09/05/07 05:52	09/05/07 20:10
02111WEFF	MQI0086-05	Water	09/05/07 05:48	09/05/07 20:10
02111MW2WINF	MQI0086-06	Water	09/05/07 05:44	09/05/07 20:10
TB21119507	MQI0086-07	Water	09/05/07 06:10	09/05/07 20:10

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies.

These samples were received with no custody seals.

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQI0086
Reported:
09/20/07 13:40

Purgeable Hydrocarbons by EPA 8015B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111DPEWINF (MQI0086-01) Water Sampled: 09/05/07 06:07 Received: 09/05/07 20:10									
Gasoline Range Organics (C4-C12)	410	100	ug/l	2	7106013	09/06/07	09/06/07	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		96 %	75-125		"	"	"	"	
02111ASWINF (MQI0086-02) Water Sampled: 09/05/07 06:02 Received: 09/05/07 20:10									
Gasoline Range Organics (C4-C12)	410	100	ug/l	2	7106013	09/06/07	09/06/07	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		98 %	75-125		"	"	"	"	
02111ASWEFF (MQI0086-03) Water Sampled: 09/05/07 05:56 Received: 09/05/07 20:10									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7106013	09/06/07	09/06/07	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		93 %	75-125		"	"	"	"	
02111WGAC1 (MQI0086-04) Water Sampled: 09/05/07 05:52 Received: 09/05/07 20:10									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7106013	09/06/07	09/06/07	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		92 %	75-125		"	"	"	"	
02111WEFF (MQI0086-05) Water Sampled: 09/05/07 05:48 Received: 09/05/07 20:10									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7106013	09/06/07	09/06/07	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		93 %	75-125		"	"	"	"	
02111MW2WINF (MQI0086-06) Water Sampled: 09/05/07 05:44 Received: 09/05/07 20:10									
Gasoline Range Organics (C4-C12)	1400	500	ug/l	10	7106013	09/06/07	09/06/07	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		98 %	75-125		"	"	"	"	

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Project Manager: Jay Johnson

MQI0086
Reported:
09/20/07 13:40

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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02111DPEWINF (MQI0086-01) Water Sampled: 09/05/07 06:07 Received: 09/05/07 20:10

tert-Amyl methyl ether	ND	5.0	ug/l	10	7112029	09/12/07	09/13/07	EPA 8260B	
Benzene	5.6	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	830	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	10	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	580	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	28	5.0	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		102 %		75-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %		60-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94 %		60-135	"	"	"	"	

02111ASWINF (MQI0086-02) Water Sampled: 09/05/07 06:02 Received: 09/05/07 20:10

tert-Amyl methyl ether	ND	5.0	ug/l	10	7112029	09/12/07	09/13/07	EPA 8260B	
Benzene	9.5	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	960	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	6.3	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	570	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	9.9	5.0	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		96 %		75-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94 %		60-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93 %		60-135	"	"	"	"	

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
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Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQ10086
Reported:
09/20/07 13:40

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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02111ASWEFF (MQ10086-03) Water **Sampled: 09/05/07 05:56** **Received: 09/05/07 20:10**

tert-Amyl methyl ether	ND	0.50	ug/l	1	7113029	09/13/07	09/14/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	830	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	37	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %	75-120		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		120 %	60-125		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98 %	60-135		"	"	"	"	

02111WGAC1 (MQ10086-04) Water **Sampled: 09/05/07 05:52** **Received: 09/05/07 20:10**

tert-Amyl methyl ether	ND	0.50	ug/l	1	7113029	09/13/07	09/14/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %	75-120		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		120 %	60-125		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		91 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		90 %	60-135		"	"	"	"	

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MQI0086
Reported:
09/20/07 13:40

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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02111WEFF (MQI0086-05) Water Sampled: 09/05/07 05:48 Received: 09/05/07 20:10

tert-Amyl methyl ether	ND	0.50	ug/l	1	7106030	09/06/07	09/07/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	75-120		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		104 %	60-125		"	"	"	"	
Surrogate: Toluene-d8		95 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91 %	60-135		"	"	"	"	

02111MW2WINF (MQI0086-06) Water Sampled: 09/05/07 05:44 Received: 09/05/07 20:10

tert-Amyl methyl ether	7.0	5.0	ug/l	10	7113029	09/13/07	09/14/07	EPA 8260B	
Benzene	54	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	2000	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	27	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	1200	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	12	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	75-120		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		114 %	60-125		"	"	"	"	
Surrogate: Toluene-d8		95 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95 %	60-135		"	"	"	"	

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MQI0086
Reported:
09/20/07 13:40

Purgeable Hydrocarbons by EPA 8015B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7106013 - EPA 5030B [P/T] / EPA 8015B-VOA

Blank (7106013-BLK1)										
										Prepared & Analyzed: 09/06/07
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	36.7		"	40.0		92	75-125			
Laboratory Control Sample (7106013-BS1)										
										Prepared & Analyzed: 09/06/07
Gasoline Range Organics (C4-C12)	222	50	ug/l	275		81	60-115			
Surrogate: 4-Bromofluorobenzene	39.8		"	40.0		99	75-125			
Matrix Spike (7106013-MS1)										
										Source: MQI0086-03
										Prepared & Analyzed: 09/06/07
Gasoline Range Organics (C4-C12)	235	50	ug/l	275	27.8	76	60-115			
Surrogate: 4-Bromofluorobenzene	39.7		"	40.0		99	75-125			
Matrix Spike Dup (7106013-MSD1)										
										Source: MQI0086-03
										Prepared & Analyzed: 09/06/07
Gasoline Range Organics (C4-C12)	236	50	ug/l	275	27.8	76	60-115	0.1	20	
Surrogate: 4-Bromofluorobenzene	39.5		"	40.0		99	75-125			

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MQI0086
Reported:
09/20/07 13:40

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7I06030 - EPA 5030B P/T / EPA 8260B

Blank (7I06030-BLK1)

Prepared: 09/06/07 Analyzed: 09/07/07

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	2.32		"	2.50		93	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.27		"	2.50		91	60-125			
<i>Surrogate: Toluene-d8</i>	2.41		"	2.50		96	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.27		"	2.50		91	60-135			

Laboratory Control Sample (7I06030-BS1)

Prepared: 09/06/07 Analyzed: 09/07/07

tert-Amyl methyl ether	8.67	0.50	ug/l	10.0		87	65-135			
Benzene	7.62	0.50	"	10.0		76	75-120			
tert-Butyl alcohol	196	20	"	200		98	60-135			
Di-isopropyl ether	8.43	0.50	"	10.0		84	70-130			
Ethyl tert-butyl ether	8.96	0.50	"	10.0		90	65-130			
Ethylbenzene	9.32	0.50	"	10.0		93	75-120			
Methyl tert-butyl ether	8.46	0.50	"	10.0		85	50-140			
Toluene	9.25	0.50	"	10.0		92	75-120			
Xylenes (total)	27.2	0.50	"	30.0		91	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.25		"	2.50		90	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.23		"	2.50		89	60-125			
<i>Surrogate: Toluene-d8</i>	2.40		"	2.50		96	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.43		"	2.50		97	60-135			

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MQI0086
Reported:
09/20/07 13:40

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7106030 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7106030-MS1)	Source: MQI0084-04			Prepared: 09/06/07		Analyzed: 09/07/07				
tert-Amyl methyl ether	10.4	0.50	ug/l	10.0	ND	104	65-135			
Benzene	9.23	0.50	"	10.0	ND	92	75-120			
tert-Butyl alcohol	194	20	"	200	5.63	94	60-135			
Di-isopropyl ether	9.86	0.50	"	10.0	ND	99	70-130			
Ethyl tert-butyl ether	10.4	0.50	"	10.0	ND	104	65-130			
Ethylbenzene	8.79	0.50	"	10.0	ND	88	75-120			
Methyl tert-butyl ether	11.2	0.50	"	10.0	ND	112	50-140			
Toluene	10.2	0.50	"	10.0	ND	102	75-120			
Xylenes (total)	26.8	0.50	"	30.0	ND	89	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.61		"	2.50		104	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.62		"	2.50		105	60-125			
<i>Surrogate: Toluene-d8</i>	2.53		"	2.50		101	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.12		"	2.50		85	60-135			
Matrix Spike Dup (7106030-MSD1)	Source: MQI0084-04			Prepared: 09/06/07		Analyzed: 09/07/07				
tert-Amyl methyl ether	9.33	0.50	ug/l	10.0	ND	93	65-135	11	25	
Benzene	8.39	0.50	"	10.0	ND	84	75-120	10	20	
tert-Butyl alcohol	203	20	"	200	5.63	98	60-135	4	25	
Di-isopropyl ether	9.29	0.50	"	10.0	ND	93	70-130	6	25	
Ethyl tert-butyl ether	8.90	0.50	"	10.0	ND	89	65-130	16	25	
Ethylbenzene	8.37	0.50	"	10.0	ND	84	75-120	5	20	
Methyl tert-butyl ether	9.54	0.50	"	10.0	ND	95	50-140	16	25	
Toluene	9.30	0.50	"	10.0	ND	93	75-120	9	25	
Xylenes (total)	26.0	0.50	"	30.0	ND	87	75-130	3	20	
<i>Surrogate: Dibromofluoromethane</i>	2.31		"	2.50		92	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.32		"	2.50		93	60-125			
<i>Surrogate: Toluene-d8</i>	2.27		"	2.50		91	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.20		"	2.50		88	60-135			

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MQI0086
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09/20/07 13:40

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7112029 - EPA 5030B P/T / EPA 8260B

Blank (7112029-BLK1)

Prepared & Analyzed: 09/12/07

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	2.47		"	2.50		99	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.41		"	2.50		96	60-125			
<i>Surrogate: Toluene-d8</i>	2.49		"	2.50		100	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.40		"	2.50		96	60-135			

Laboratory Control Sample (7112029-BS1)

Prepared & Analyzed: 09/12/07

tert-Amyl methyl ether	9.56	0.50	ug/l	10.0		96	65-135			
Benzene	8.95	0.50	"	10.0		90	75-120			
tert-Butyl alcohol	162	20	"	200		81	60-135			
Di-isopropyl ether	8.47	0.50	"	10.0		85	70-130			
Ethyl tert-butyl ether	9.28	0.50	"	10.0		93	65-130			
Ethylbenzene	9.96	0.50	"	10.0		100	75-120			
Methyl tert-butyl ether	9.41	0.50	"	10.0		94	50-140			
Toluene	9.62	0.50	"	10.0		96	75-120			
Xylenes (total)	30.0	0.50	"	30.0		100	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.52		"	2.50		101	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.39		"	2.50		96	60-125			
<i>Surrogate: Toluene-d8</i>	2.55		"	2.50		102	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.50		"	2.50		100	60-135			

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQI0086
Reported:
09/20/07 13:40

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7112029 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7112029-MS1)	Source: MQI0133-01			Prepared & Analyzed: 09/12/07						
tert-Amyl methyl ether	13.7	0.50	ug/l	10.0	ND	137	65-135			LM
Benzene	11.8	0.50	"	10.0	ND	118	75-120			
tert-Butyl alcohol	217	20	"	200	ND	109	60-135			
Di-isopropyl ether	11.7	0.50	"	10.0	ND	117	70-130			
Ethyl tert-butyl ether	12.7	0.50	"	10.0	ND	127	65-130			
Ethylbenzene	13.2	0.50	"	10.0	ND	132	75-120			LM
Methyl tert-butyl ether	12.7	0.50	"	10.0	ND	127	50-140			
Toluene	12.9	0.50	"	10.0	ND	129	75-120			LM
Xylenes (total)	39.4	0.50	"	30.0	ND	131	75-130			LM
<i>Surrogate: Dibromofluoromethane</i>	2.59		"	2.50		104	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.49		"	2.50		100	60-125			
<i>Surrogate: Toluene-d8</i>	2.58		"	2.50		103	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.76		"	2.50		110	60-135			

Matrix Spike Dup (7112029-MSD1)	Source: MQI0133-01			Prepared & Analyzed: 09/12/07						
tert-Amyl methyl ether	13.3	0.50	ug/l	10.0	ND	133	65-135	3	25	
Benzene	11.1	0.50	"	10.0	ND	111	75-120	6	20	
tert-Butyl alcohol	200	20	"	200	ND	100	60-135	8	25	
Di-isopropyl ether	11.0	0.50	"	10.0	ND	110	70-130	7	25	
Ethyl tert-butyl ether	12.1	0.50	"	10.0	ND	121	65-130	5	25	
Ethylbenzene	12.2	0.50	"	10.0	ND	122	75-120	7	20	LM
Methyl tert-butyl ether	12.4	0.50	"	10.0	ND	124	50-140	2	25	
Toluene	11.9	0.50	"	10.0	ND	119	75-120	8	25	
Xylenes (total)	36.3	0.50	"	30.0	ND	121	75-130	8	20	
<i>Surrogate: Dibromofluoromethane</i>	2.58		"	2.50		103	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.51		"	2.50		100	60-125			
<i>Surrogate: Toluene-d8</i>	2.59		"	2.50		104	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.90		"	2.50		116	60-135			

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Project Number: G0C28-0023
Project Manager: Jay Johnson

MQI0086
Reported:
09/20/07 13:40

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7113029 - EPA 5030B P/T / EPA 8260B

Blank (7113029-BLK1)

Prepared & Analyzed: 09/13/07

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	2.64		"	2.50		106	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.85		"	2.50		114	60-125			
<i>Surrogate: Toluene-d8</i>	2.41		"	2.50		96	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.34		"	2.50		94	60-135			

Laboratory Control Sample (7113029-BS1)

Prepared & Analyzed: 09/13/07

tert-Amyl methyl ether	10.1	0.50	ug/l	10.0		101	65-135			
Benzene	8.85	0.50	"	10.0		88	75-120			
tert-Butyl alcohol	187	20	"	200		93	60-135			
Di-isopropyl ether	9.19	0.50	"	10.0		92	70-130			
Ethyl tert-butyl ether	10.0	0.50	"	10.0		100	65-130			
Ethylbenzene	9.57	0.50	"	10.0		96	75-120			
Methyl tert-butyl ether	9.68	0.50	"	10.0		97	50-140			
Toluene	9.58	0.50	"	10.0		96	75-120			
Xylenes (total)	28.3	0.50	"	30.0		94	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.62		"	2.50		105	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.83		"	2.50		113	60-125			
<i>Surrogate: Toluene-d8</i>	2.48		"	2.50		99	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.45		"	2.50		98	60-135			

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
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Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQI0086
Reported:
09/20/07 13:40

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7113029 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7113029-MS1)	Source: MQI0042-03			Prepared & Analyzed: 09/13/07						
tert-Amyl methyl ether	10.5	0.50	ug/l	10.0	ND	105	65-135			
Benzene	9.97	0.50	"	10.0	1.06	89	75-120			
tert-Butyl alcohol	198	20	"	200	ND	99	60-135			
Di-isopropyl ether	9.53	0.50	"	10.0	ND	95	70-130			
Ethyl tert-butyl ether	10.2	0.50	"	10.0	ND	102	65-130			
Ethylbenzene	10.1	0.50	"	10.0	0.370	98	75-120			
Methyl tert-butyl ether	46.3	0.50	"	10.0	41.7	46	50-140			BB
Toluene	10.2	0.50	"	10.0	ND	102	75-120			
Xylenes (total)	29.5	0.50	"	30.0	ND	98	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.58		"	2.50		103	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.74		"	2.50		110	60-125			
<i>Surrogate: Toluene-d8</i>	2.45		"	2.50		98	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.54		"	2.50		102	60-135			

Matrix Spike Dup (7113029-MSD1)	Source: MQI0042-03			Prepared & Analyzed: 09/13/07						
tert-Amyl methyl ether	11.1	0.50	ug/l	10.0	ND	111	65-135	5	25	
Benzene	9.88	0.50	"	10.0	1.06	88	75-120	0.9	20	
tert-Butyl alcohol	198	20	"	200	ND	99	60-135	0.3	25	
Di-isopropyl ether	9.94	0.50	"	10.0	ND	99	70-130	4	25	
Ethyl tert-butyl ether	10.9	0.50	"	10.0	ND	109	65-130	7	25	
Ethylbenzene	10.1	0.50	"	10.0	0.370	98	75-120	0.2	20	
Methyl tert-butyl ether	49.6	0.50	"	10.0	41.7	79	50-140	7	25	
Toluene	9.94	0.50	"	10.0	ND	99	75-120	3	25	
Xylenes (total)	29.1	0.50	"	30.0	ND	97	75-130	1	20	
<i>Surrogate: Dibromofluoromethane</i>	2.77		"	2.50		111	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.95		"	2.50		118	60-125			
<i>Surrogate: Toluene-d8</i>	2.49		"	2.50		100	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.56		"	2.50		102	60-135			

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQI0086
Reported:
09/20/07 13:40

Notes and Definitions

LM MS and/or MSD above acceptance limits. See Blank Spike(LCS).
BB Sample > 4x spike concentration
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



bp
A BP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 2111
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: California Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 24 hours for Effluent & STD for others

RUSH

On-site Time: <u>0500</u>	Temp: <u>50</u>
Off-site Time: <u>0700</u>	Temp: <u>51</u>
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>2111</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>1156 Davis St., San Leandro</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600101764</u>	Consultant/Contractor Project No.: <u>E2111-03</u>
Tele/Fax: <u>408-782-8156/ 408-782-6308</u>	Enfos Project No.: <u>GOC28-0023</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>03-O&M</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-275-3506/925-275-3815</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO by 8015	BTEX by 8260	5-oxygenates by 8260	24-hours	Standard		
1	02111DPEWINF	0607	9507	x			MOI0086	6	1					X			x	x		5-oxygenates requested are MTBE, DIPE, ETBE, TAME, and TBA.
2	02111ASWINF	0602		x				0	2					X			x	x		
3	02111ASWEFF	0556		x				0	3					X			x	x		
4	02111WGACI	0552		x				0	4					X			x	x		
5	02111WEFF	0548		x				0	5					X			x	x		
6	02111MW2WINF	0544		x				0	6					X			x	x		
7																				Hold
8																				
9	TB2419507	0610		x				0	7											
10																				

Sampler's Name: <u>Chris Hill</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>9-5-07</u>	Time: <u>1355</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>9-5-07</u>	Time: <u>1355</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>9-5-07</u>						
Shipment Method:						
Shipment Tracking No:						

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

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

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: Agw
 REC. BY (PRINT) DV
 WORKORDER: MOI0086

DATE REC'D AT LAB: 9/5/07
 TIME REC'D AT LAB: 200
 DATE LOGGED IN: 9/05/07

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

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <u>Absent</u> Intact / Broken*								/
2. Chain-of-Custody <u>Present</u> / Absent*								
3. Traffic Reports or Packing List: Present / <u>Absent</u>								
4. Airbill: Airbill / <u>Sticker</u> Present / <u>Absent</u>								
5. Airbill #:								
6. Sample Labels: <u>Present</u> / Absent								
7. Sample IDs: <u>Listed</u> / Not Listed on Chain-of-Custody								
8. Sample Condition: <u>Intact</u> / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree? <u>Yes</u> / No*			see col 9/5/06 DV					
10. Sample received within hold time? <u>Yes</u> / No*								
11. Adequate sample volume received? <u>Yes</u> / No*								
12. Proper preservatives used? <u>Yes</u> / No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes) <u>Yes</u> / <u>No</u> *								
14. Read Temp: <u>3.8°</u> Corrected Temp: <u>✓</u> Is corrected temp 4 +/- 2°C? <u>Yes</u> / No** <small>(Acceptance range for samples requiring thermal pres.)</small>								
**Exception (if any): METALS / DFF ON ICE or Problem COC								

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

11 September, 2007

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

RE: ARCO #2111, San Leandro, CA
Work Order: MQI0081

Enclosed are the results of analyses for samples received by the laboratory on 09/05/07 20:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa Race
Senior Project Manager

CA ELAP Certificate # 1210

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

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQI0081
Reported:
09/11/07 12:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
02111DPEAINF	MQI0081-01	Vapor	09/05/07 06:16	09/05/07 20:10
02111ASAEFF	MQI0081-02	Vapor	09/05/07 06:27	09/05/07 20:10
02111ASYSINF	MQI0081-03	Vapor	09/05/07 06:25	09/05/07 20:10
02111AGACI	MQI0081-04	Vapor	09/05/07 06:22	09/05/07 20:10
02111AEFF	MQI0081-05	Vapor	09/05/07 06:20	09/05/07 20:10

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies. These samples were received with no custody seals.

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQI0081
Reported:
09/11/07 12:12

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111DPEAINF (MQI0081-01) Vapor Sampled: 09/05/07 06:16 Received: 09/05/07 20:10									
Gasoline Range Organics (C4-C12)	2600	50	mg/m ³ Air	1	7106004	09/06/07	09/06/07 15:25	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		111 %	60-125		"	"	"	"	
Gasoline Range Organics (C4-C12)	740	14	ppmv	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		111 %	60-125		"	"	"	"	
02111ASAEFF (MQI0081-02) Vapor Sampled: 09/05/07 06:27 Received: 09/05/07 20:10									
Gasoline Range Organics (C4-C12)	ND	50	mg/m ³ Air	1	7106004	09/06/07	09/06/07 15:55	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		103 %	60-125		"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	14	ppmv	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		103 %	60-125		"	"	"	"	
02111ASYSINF (MQI0081-03) Vapor Sampled: 09/05/07 06:25 Received: 09/05/07 20:10									
Gasoline Range Organics (C4-C12)	1200	50	mg/m ³ Air	1	7106004	09/06/07	09/06/07 17:59	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		105 %	60-125		"	"	"	"	
Gasoline Range Organics (C4-C12)	350	14	ppmv	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		105 %	60-125		"	"	"	"	
02111AGAC1 (MQI0081-04) Vapor Sampled: 09/05/07 06:22 Received: 09/05/07 20:10									
Gasoline Range Organics (C4-C12)	ND	50	mg/m ³ Air	1	7106004	09/06/07	09/06/07 18:29	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		114 %	60-125		"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	14	ppmv	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		114 %	60-125		"	"	"	"	
02111AEFF (MQI0081-05) Vapor Sampled: 09/05/07 06:20 Received: 09/05/07 20:10									
Gasoline Range Organics (C4-C12)	ND	50	mg/m ³ Air	1	7105028	09/05/07	09/06/07 01:09	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		108 %	60-125		"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	14	ppmv	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		108 %	60-125		"	"	"	"	

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Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQI0081
Reported:
09/11/07 12:12

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111DPEAINF (MQI0081-01) Vapor Sampled: 09/05/07 06:16 Received: 09/05/07 20:10									
Methyl tert-butyl ether	20	0.50	mg/m ³ Air	1	7106004	09/06/07	09/06/07 15:25	EPA 8260B	
Benzene	1.4	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	3.2	0.50	"	"	"	"	"	"	
Xylenes (total)	7.9	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	60-125		"	"	"	"	
Methyl tert-butyl ether	5.6	0.14	ppmv	"	"	"	"	"	
Benzene	0.45	0.16	"	"	"	"	"	"	
Toluene	ND	0.13	"	"	"	"	"	"	
Ethylbenzene	0.73	0.12	"	"	"	"	"	"	
Xylenes (total)	1.8	0.12	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	60-125		"	"	"	"	
02111ASAEFF (MQI0081-02) Vapor Sampled: 09/05/07 06:27 Received: 09/05/07 20:10									
Methyl tert-butyl ether	5.1	0.50	mg/m ³ Air	1	7106004	09/06/07	09/06/07 15:55	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	60-125		"	"	"	"	
Methyl tert-butyl ether	1.4	0.14	ppmv	"	"	"	"	"	
Benzene	ND	0.16	"	"	"	"	"	"	
Toluene	ND	0.13	"	"	"	"	"	"	
Ethylbenzene	ND	0.12	"	"	"	"	"	"	
Xylenes (total)	ND	0.12	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	60-125		"	"	"	"	

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQI0081
Reported:
09/11/07 12:12

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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02111ASYSINF (MQI0081-03) Vapor **Sampled: 09/05/07 06:25** **Received: 09/05/07 20:10**

Methyl tert-butyl ether	14	0.50	mg/m ³ Air	1	7106004	09/06/07	09/06/07 17:59	EPA 8260B	
Benzene	0.79	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	1.5	0.50	"	"	"	"	"	"	
Xylenes (total)	3.8	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	60-125		"	"	"	"	
Methyl tert-butyl ether	3.9	0.14	ppmv	"	"	"	"	"	
Benzene	0.25	0.16	"	"	"	"	"	"	
Toluene	ND	0.13	"	"	"	"	"	"	
Ethylbenzene	0.36	0.12	"	"	"	"	"	"	
Xylenes (total)	0.88	0.12	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	60-125		"	"	"	"	

02111AGAC1 (MQI0081-04) Vapor **Sampled: 09/05/07 06:22** **Received: 09/05/07 20:10**

Methyl tert-butyl ether	ND	0.50	mg/m ³ Air	1	7106004	09/06/07	09/06/07 18:29	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		114 %	60-125		"	"	"	"	
Methyl tert-butyl ether	ND	0.14	ppmv	"	"	"	"	"	
Benzene	ND	0.16	"	"	"	"	"	"	
Toluene	ND	0.13	"	"	"	"	"	"	
Ethylbenzene	ND	0.12	"	"	"	"	"	"	
Xylenes (total)	ND	0.12	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		114 %	60-125		"	"	"	"	

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQI0081
Reported:
09/11/07 12:12

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111AEFF (MQI0081-05) Vapor Sampled: 09/05/07 06:20 Received: 09/05/07 20:10									
Methyl tert-butyl ether	ND	0.50	mg/m ³ Air	1	7105028	09/05/07	09/06/07 01:09	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	60-125		"	"	"	"	
Methyl tert-butyl ether	ND	0.14	ppmv	"	"	"	"	"	
Benzene	ND	0.16	"	"	"	"	"	"	
Toluene	ND	0.13	"	"	"	"	"	"	
Ethylbenzene	ND	0.12	"	"	"	"	"	"	
Xylenes (total)	ND	0.12	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	60-125		"	"	"	"	

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MQI0081
Reported:
09/11/07 12:12

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7I05028 - EPA 5030B P/T / LUFT GCMS

Blank (7I05028-BLK1)

Prepared & Analyzed: 09/05/07

Gasoline Range Organics (C4-C12)	ND	14	ppmv							
Gasoline Range Organics (C4-C12)	ND	50	mg/m ³ Air							
Surrogate: 1,2-Dichloroethane-d4	0.625		ppmv	0.594		105	60-125			
Surrogate: 1,2-Dichloroethane-d4	2.63		mg/m ³ Air	2.50		105	60-125			

Laboratory Control Sample (7I05028-BS2)

Prepared & Analyzed: 09/05/07

Gasoline Range Organics (C4-C12)	402	50	mg/m ³ Air	500		80	65-120			
Gasoline Range Organics (C4-C12)	114	14	ppmv	142		80	65-120			
Surrogate: 1,2-Dichloroethane-d4	2.60		mg/m ³ Air	2.50		104	60-125			
Surrogate: 1,2-Dichloroethane-d4	0.617		ppmv	0.594		104	60-125			

Laboratory Control Sample Dup (7I05028-BSD2)

Prepared & Analyzed: 09/05/07

Gasoline Range Organics (C4-C12)	395	50	mg/m ³ Air	500		79	65-120	2	20	
Gasoline Range Organics (C4-C12)	112	14	ppmv	142		79	65-120	2	20	
Surrogate: 1,2-Dichloroethane-d4	2.55		mg/m ³ Air	2.50		102	60-125			
Surrogate: 1,2-Dichloroethane-d4	0.606		ppmv	0.594		102	60-125			

Batch 7I06004 - EPA 5030B P/T / LUFT GCMS

Blank (7I06004-BLK1)

Prepared & Analyzed: 09/06/07

Gasoline Range Organics (C4-C12)	ND	50	mg/m ³ Air							
Gasoline Range Organics (C4-C12)	ND	14	ppmv							
Surrogate: 1,2-Dichloroethane-d4	2.34		mg/m ³ Air	2.50		94	60-125			
Surrogate: 1,2-Dichloroethane-d4	0.556		ppmv	0.594		94	60-125			

Laboratory Control Sample (7I06004-BS2)

Prepared & Analyzed: 09/06/07

Gasoline Range Organics (C4-C12)	460	50	mg/m ³ Air	500		92	65-120			
Gasoline Range Organics (C4-C12)	131	14	ppmv	142		92	65-120			
Surrogate: 1,2-Dichloroethane-d4	2.44		mg/m ³ Air	2.50		98	60-125			
Surrogate: 1,2-Dichloroethane-d4	0.579		ppmv	0.594		98	60-125			

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
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Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQI0081
Reported:
09/11/07 12:12

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7106004 - EPA 5030B P/T / LUFT GCMS

Laboratory Control Sample Dup (7106004-BSD2)

Prepared & Analyzed: 09/06/07

Gasoline Range Organics (C4-C12)	442	50	mg/m ³ Air	500		88	65-120	4	20	
Gasoline Range Organics (C4-C12)	126	14	ppmv	142		88	65-120	4	20	
Surrogate: 1,2-Dichloroethane-d4	2.40		mg/m ³ Air	2.50		96	60-125			
Surrogate: 1,2-Dichloroethane-d4	0.570		ppmv	0.594		96	60-125			

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MQI0081
Reported:
09/11/07 12:12

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7105028 - EPA 5030B P/T / EPA 8260B

Blank (7105028-BLK1)										
Prepared & Analyzed: 09/05/07										
Methyl tert-butyl ether	ND	0.14	ppmv							
Methyl tert-butyl ether	ND	0.50	mg/m ³ Air							
Benzene	ND	0.50	"							
Benzene	ND	0.16	ppmv							
Toluene	ND	0.13	"							
Toluene	ND	0.50	mg/m ³ Air							
Ethylbenzene	ND	0.12	ppmv							
Ethylbenzene	ND	0.50	mg/m ³ Air							
Xylenes (total)	ND	0.12	ppmv							
Xylenes (total)	ND	0.50	mg/m ³ Air							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.63		"	2.50		105	60-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.625		ppmv	0.594		105	60-125			

Laboratory Control Sample (7105028-BS1)										
Prepared & Analyzed: 09/05/07										
Methyl tert-butyl ether	2.62	0.14	ppmv	2.78		94	50-140			
Methyl tert-butyl ether	9.41	0.50	mg/m ³ Air	10.0		94	50-140			
Benzene	2.69	0.16	ppmv	3.14		86	75-120			
Benzene	8.58	0.50	mg/m ³ Air	10.0		86	75-120			
Toluene	2.29	0.13	ppmv	2.66		86	75-120			
Toluene	8.61	0.50	mg/m ³ Air	10.0		86	75-120			
Ethylbenzene	2.02	0.12	ppmv	2.31		88	75-120			
Ethylbenzene	8.77	0.50	mg/m ³ Air	10.0		88	75-120			
Xylenes (total)	6.36	0.12	ppmv	6.92		92	75-130			
Xylenes (total)	27.6	0.50	mg/m ³ Air	30.0		92	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.620		ppmv	0.594		104	60-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.61		mg/m ³ Air	2.50		104	60-125			

Laboratory Control Sample Dup (7105028-BSD1)										
Prepared & Analyzed: 09/05/07										
Methyl tert-butyl ether	3.00	0.14	ppmv	2.78		108	50-140	14	25	
Methyl tert-butyl ether	10.8	0.50	mg/m ³ Air	10.0		108	50-140	14	25	
Benzene	3.15	0.16	ppmv	3.14		100	75-120	16	20	
Benzene	10.0	0.50	mg/m ³ Air	10.0		100	75-120	16	20	
Toluene	2.74	0.13	ppmv	2.66		103	75-120	18	25	
Toluene	10.3	0.50	mg/m ³ Air	10.0		103	75-120	18	25	
Ethylbenzene	2.48	0.12	ppmv	2.31		107	75-120	20	20	
Ethylbenzene	10.7	0.50	mg/m ³ Air	10.0		107	75-120	20	20	

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Project Number: G0C28-0023
Project Manager: Jay Johnson

MQI0081
Reported:
09/11/07 12:12

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7105028 - EPA 5030B P/T / EPA 8260B

Laboratory Control Sample Dup (7105028-BSD1)

Prepared & Analyzed: 09/05/07

Xylenes (total)	7.72	0.12	ppmv	6.92		111	75-130	19	20	
Xylenes (total)	33.4	0.50	mg/m ³ Air	30.0		111	75-130	19	20	
Surrogate: 1,2-Dichloroethane-d4	0.603		ppmv	0.594		102	60-125			
Surrogate: 1,2-Dichloroethane-d4	2.54		mg/m ³ Air	2.50		102	60-125			

Batch 7106004 - EPA 5030B P/T / EPA 8260B

Blank (7106004-BLK1)

Prepared & Analyzed: 09/06/07

Methyl tert-butyl ether	ND	0.14	ppmv							
Methyl tert-butyl ether	ND	0.50	mg/m ³ Air							
Benzene	ND	0.16	ppmv							
Benzene	ND	0.50	mg/m ³ Air							
Toluene	ND	0.13	ppmv							
Toluene	ND	0.50	mg/m ³ Air							
Ethylbenzene	ND	0.12	ppmv							
Ethylbenzene	ND	0.50	mg/m ³ Air							
Xylenes (total)	ND	0.50	"							
Xylenes (total)	ND	0.12	ppmv							
Surrogate: 1,2-Dichloroethane-d4	0.556		"	0.594		94	60-125			
Surrogate: 1,2-Dichloroethane-d4	2.34		mg/m ³ Air	2.50		94	60-125			

Laboratory Control Sample (7106004-BS1)

Prepared & Analyzed: 09/06/07

Methyl tert-butyl ether	2.74	0.14	ppmv	2.78		99	50-140			
Methyl tert-butyl ether	9.87	0.50	mg/m ³ Air	10.0		99	50-140			
Benzene	9.93	0.50	"	10.0		99	75-120			
Benzene	3.11	0.16	ppmv	3.14		99	75-120			
Toluene	10.7	0.50	mg/m ³ Air	10.0		107	75-120			
Toluene	2.85	0.13	ppmv	2.66		107	75-120			
Ethylbenzene	11.4	0.50	mg/m ³ Air	10.0		114	75-120			
Ethylbenzene	2.62	0.12	ppmv	2.31		114	75-120			
Xylenes (total)	8.00	0.12	"	6.92		116	75-130			
Xylenes (total)	34.7	0.50	mg/m ³ Air	30.0		116	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.55		"	2.50		102	60-125			
Surrogate: 1,2-Dichloroethane-d4	0.606		ppmv	0.594		102	60-125			

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQI0081
Reported:
09/11/07 12:12

**Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B - Quality Control
TestAmerica - Morgan Hill, CA**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7106004 - EPA 5030B P/T / EPA 8260B

Laboratory Control Sample Dup (7106004-BSD1)

Prepared & Analyzed: 09/06/07

Methyl tert-butyl ether	2.62	0.14	ppmv	2.78		94	50-140	5	25	
Methyl tert-butyl ether	9.42	0.50	mg/m ³ Air	10.0		94	50-140	5	25	
Benzene	9.83	0.50	"	10.0		98	75-120	1	20	
Benzene	3.08	0.16	ppmv	3.14		98	75-120	1	20	
Toluene	10.4	0.50	mg/m ³ Air	10.0		104	75-120	4	25	
Toluene	2.75	0.13	ppmv	2.66		104	75-120	4	25	
Ethylbenzene	11.2	0.50	mg/m ³ Air	10.0		112	75-120	1	20	
Ethylbenzene	2.59	0.12	ppmv	2.31		112	75-120	1	20	
Xylenes (total)	7.92	0.12	"	6.92		114	75-130	1	20	
Xylenes (total)	34.3	0.50	mg/m ³ Air	30.0		114	75-130	1	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.39		"	2.50		96	60-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.568		ppmv	0.594		96	60-125			

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

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0023
Project Manager: Jay Johnson

MQI0081
Reported:
09/11/07 12:12

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Lisa Race

From: Kiran Nagaraju [knagaraju@stratusinc.net]
Sent: Thursday, September 06, 2007 11:48 AM
To: Lisa Race; shayes@stratusinc.net
Subject: RE: COC for ARCO#2111 air samples taken 9/5 - MQI0081

Lisa,

GRO by GC/MS should be OK for these air samples.

Thanks,
Kiran Nagaraju
Staff Engineer
Stratus Environmental, Inc.
Ph: (530) 676 6007
Fax: (530) 676 6005

From: Sandy Hayes [mailto:shayes@stratusinc.net]
Sent: Thursday, September 06, 2007 10:34 AM
To: Kiran Nagaraju
Subject: FW: COC for ARCO#2111 air samples taken 9/5 - MQI0081

Kiran,

Can you answer Lisa's question?

Thanks,

Sandy Hayes
Stratus Environmental, Inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682
shayes@stratusinc.net
Phone: 530.313.9964
Fax: 530.676.6005

-----Original Message-----

From: Lisa Race [mailto:lisa.race@testamericainc.com]
Sent: Thursday, September 06, 2007 9:12 AM
To: Sandy Hayes
Subject: COC for ARCO#2111 air samples taken 9/5 - MQI0081

Sandy,

This is the COC that I spoke about in the voice message I left you. In order to meet the hold times and TATs we will need to switch the GRO to GC/MS rather than GC. If these need to be run by GC than we can do that but most likely they will be out of hold. Please let me know if running by GC/MS is OK..

See attached. Feel free to contact me with any questions. Please note new e-mail address:
Lisa.Race@Testamericainc.com

9/6/2007

LISA RACE
Senior Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Morgan Hill, CA 95037
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bp
A BP affiliated company

Chain of Custody Record

RUSH

Project Name: ARCO Facility No. 2111
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: California Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 24 hours for Effluent & STD for others

On-site Time: <u>0500</u>	Temp: <u>50</u>
Off-site Time: <u>0700</u>	Temp: <u>57</u>
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>2111</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>1156 Davis St., San Leandro</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600101764</u>	Consultant/Contractor Project No.: <u>E2111-03</u>
Tele/Fax: <u>408-782-8156/ 408-782-6308</u>	Enfos Project No.: <u>G0C28-0023</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>03-O&M</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-275-3506/925-275-3815</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO by 8015	BTEX by 8260	MTBE by 8260	24-hours	Standard	
1	02111DPEAINF	0616	9/5/07			x	01	2					x	x	x		x		
2	02111ASAEFF	0627	}			x	02	2					x	x	x		x		
3	02111ASYSINF	0629					x	03	2					x	x	x		x	
4	02111AGACI	0622					x	04	2					x	x	x		x	
5	02111AEFF	0620					x	05	2					x	x	x		x	
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>Chris Hill</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>9/5/07</u>	Time: <u>1355</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>9/5/07</u>	Time: <u>1355</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>9-5-07</u>						
Shipment Method:						
Shipment Tracking No:						

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

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

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: Arco
 REC. BY (PRINT) A.M.
 WORKORDER: MGTAW 81

DATE REC'D AT LAB: 9/05/07
 TIME REC'D AT LAB: 2010
 DATE LOGGED IN: 9/05/07

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

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <input checked="" type="radio"/> Absent Intact / Broken*								See Col 9/05/07 A.M.
2. Chain-of-Custody Present / <input checked="" type="radio"/> Absent*								
3. Traffic Reports or Packing List Present / <input checked="" type="radio"/> Absent								
4. Airbill: Airbill / Sticker Present / <input checked="" type="radio"/> Absent								
5. Airbill #:								
6. Sample Labels: Present / <input checked="" type="radio"/> Absent								
7. Sample IDs: Listed / <input checked="" type="radio"/> Not Listed on Chain-of-Custody								
8. Sample Condition: Intact / <input checked="" type="radio"/> Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="radio"/> Yes / <input type="radio"/> No*								
10. Sample received within hold time? <input checked="" type="radio"/> Yes / <input type="radio"/> No*								
11. Adequate sample volume received? <input checked="" type="radio"/> Yes / <input type="radio"/> No*								
12. Proper preservatives used? <input checked="" type="radio"/> Yes / <input type="radio"/> No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / <input checked="" type="radio"/> No*								
14. Read Temp: _____ Corrected Temp: _____ Is corrected temp 4 +/- 2°C? Yes / <input checked="" type="radio"/> No** <small>(Acceptance range for samples requiring thermal pres.)</small>								

**Exception (if any): METALS / DFF ON ICE
Airbags

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

APPENDIX D

**STRATUS REMEDIATION SYSTEM MONTHLY DISCHARGE REPORTS
(INCLUDES BRIEF STATEMENTS SUMMARIZING OPERATIONS AND SEWER
DISCHARGE SUMMARY TABLES)**



RECEIVED
AUG 20 2007
BY: MA

COPY

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

TRANSMITTAL

Date August 3, 2007
Project E2111-03

To:
Ms. Tiffany Treece

City of San Leandro

Civic Center, 835 E. 14th Street

San Leandro, CA 94577

Re: Permit # SD-036, ARCO Service Station No. 2111, 1156 Davis Street, San Leandro

<u>Item</u>	<u>Description</u>
1	Monthly Discharge Report for July 2007
2	Table 1– Sewer Discharge Summary Report

Comments:

Dear Ms. Treece:

Please find attached for your review the *Monthly Discharge Report* for July 2007, for the remediation system at ARCO Service Station No. 2111, located at 1156 Davis Street, San Leandro, California. A total of approximately 115,872 gallons of treated groundwater were discharged to the sanitary sewer between June 26, 2007 and July 17, 2007.

If you have any questions or need any additional information, please call either Kiran Nagaraju at (530) 676 6007 or myself at (530) 676-6000.

Sincerely,
Jay R. Johnson, P.G.
Project Manager

cc: Mr. Rob Miller, Broadbent & Associates, Inc.

MONTHLY DISCHARGE REPORT
ARCO SERVICE STATION #2111, 1156 DAVIS STREET

This form and enclosed documents serve as the remediation activities monthly discharge report to the City of San Leandro for the reporting period of: June 26, 2007 to July 17, 2007. This report is submitted in compliance with 40 CFR 403.12 and Part III (A) of Special Discharge Permit **SD-036**.

The information contained in this report is accurate and complete. For any questions or comments regarding this report, contact Kiran Nagaraju at (530) 676 6007.

Number of days discharged: 21

Total monthly discharge: 115,872 U. S. Gallons

Signature of Certifying Official: _____

Printed Name of Official: Jay R. Johnson, P.G.

Title: Project Manager

Date: August 3, 2007

Include a brief statement summarizing the month's operations:

The operation of the dual phase extraction (DPE) system, air stripper (AS) and the groundwater extraction and treatment system (GETS) was initiated on January 29, 2007. Soil vapors and groundwater were concurrently extracted from wells V-1, V-2, V-3, MW-1, MW-3, MW-7, and MW-8 using the liquid ring pump of the DPE system. In addition, groundwater was also extracted from well MW-2 using the electrical submersible pump. The groundwater extracted by both the DPE and the submersible pump are treated using the air stripper and two 2,000-pound carbon vessels in series prior to the discharge to the sewer. The GETS was found non-functioning on July 10, 2007, due to high-water level alarm on the oil-water separator. The GETS was re-started on July 10, 2007, after replacing the particulate filters on the system. The GETS was again found non-functioning on July 17, 2007 due to high-water level alarm on the air stripper. The GETS was re-started on July 17, 2007, after resetting the air stripper.

Submit reports to: City of San Leandro – Environmental Services Division
835 East 14th Street, San Leandro CA 94577

**TABLE 1
SEWER DISCHARGE SUMMARY REPORT**

ARCO Service Station No. 2111
1156 Davis Street
San Leandro, California

Report Month (month/year)	Date	Effluent Totalizer Reading (gallons)	Monthly Discharge (gallons)
January-07	1/29/07 8:00	System Start-up	5,560
	1/29/07 8:00	3,000	
	1/29/07 ¹ 12:00	5,000	
	01/30/07	6,200	
	01/31/07	8,560	
February-07	2/1/07 5:15	16,860	114,230
	2/2/07 5:00	25,480	
	2/5/07 5:00	33,400	
	2/20/07 6:30	122,790	
March-07	3/5/07 ² 5:00	130,565	10,472
	3/8/07 ³ 4:50	132,951	
	3/14/07 ⁴ 7:00	NM	
	3/29/07 ⁵ 10:00	133,262	
April-07	4/2/07 ⁶ 5:30	170,596	66,881
	4/10/07 ⁷ 5:00	NM	
	4/23/07 ⁸ 7:00	172,210	
	4/26/07 6:00	200,143	
May-07	5/1/2007 ⁹ 4:50	220,892	210,103
	5/15/2007 ¹⁰ 5:00	225,297	
	5/29/07 8:30	410,246	
June-07	6/4/2007 ¹¹ 5:00	429,450	19,976
	6/12/2007 ¹² 5:00	430,092	
	6/26/2007 ¹³ 4:30	430,222	
July-07	7/2/07 5:30	480,377	115,872
	7/10/2007 ¹⁴ 5:45	523,553	
	7/17/2007 ¹⁵ 5:00	546,094	

TABLE 1
SEWER DISCHARGE SUMMARY REPORT

ARCO Service Station No. 2111
1156 Davis Street
San Leandro, California

Report Month (month/year)	Date	Effluent Totalizer Reading (gallons)	Monthly Discharge (gallons)
<p>Notes:</p> <p>NM = Not measured</p> <p>¹ Submersible pump at well MW-2 was shutdown. This pump will be re-started after troubleshooting the level floats/controller malfunction.</p> <p>² System observed non-functioning upon arrival. Re-started by re-setting power supply.</p> <p>³ System shutdown to verify effluent air results.</p> <p>⁴ System shutdown due to float malfunction.</p> <p>⁵ System re-started after replacing the floats.</p> <p>⁶ System shutdown due to high-level in oil-water separator. System restarted after replacing a capacitor on the transfer pump.</p> <p>⁷ System shutdown due to transfer pump malfunction. System could not be restarted pending replacement of transfer pump.</p> <p>⁸ System restarted after replacing transfer pump.</p> <p>⁹ System observed non-functioning upon arrival due to DPE liquid ring pump malfunction. System re-started, but shutdown after sampling pending receipt and verification of analytical results.</p> <p>¹⁰ System re-started upon compliance verification and after conducting maintenance on the liquid ring pump.</p> <p>¹¹ System observed non-functioning upon arrival due to high water level alarm on air stripper. System re-started, but shutdown after sampling pending receipt and verification of analytical results.</p> <p>¹² System re-started momentarily upon compliance verification and to collect carbon sample for profiling and change-out.</p> <p>¹³ System re-started upon receipt of analytical results for carbon profile.</p> <p>¹⁴ System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started after replacing particulate filters on the system.</p> <p>¹⁵ System observed non-functioning upon arrival due to high water level alarm on air stripper. System re-started after re-setting air stripper.</p>			



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

TRANSMITTAL

Date September 5, 2007

Project E2111-03

To:

Ms. Tiffany Treece

City of San Leandro

Civic Center, 835 E. 14th Street

San Leandro, CA 94577

Re: Permit # SD-036, ARCO Service Station No. 2111, 1156 Davis Street, San Leandro

<u>Item</u>	<u>Description</u>
<u>1</u>	<u>Monthly Discharge Report for August 2007</u>
<u>2</u>	<u>Table 1- Sewer Discharge Summary Report</u>

Comments:

Dear Ms. Treece:

Please find attached for your review the *Monthly Discharge Report* for August 2007, for the remediation system at ARCO Service Station No. 2111, located at 1156 Davis Street, San Leandro, California. A total of approximately 36,612 gallons of treated groundwater were discharged to the sanitary sewer between July 17, 2007 and August 20, 2007.

If you have any questions or need any additional information, please call either Kiran Nagaraju at (530) 676 6007 or myself at (530) 676-6000.

Sincerely,

Jay R. Johnson, P.G.
Project Manager

cc: Mr. Rob Miller, Broadbent & Associates, Inc.

MONTHLY DISCHARGE REPORT
ARCO SERVICE STATION #2111, 1156 DAVIS STREET

This form and enclosed documents serve as the remediation activities monthly discharge report to the City of San Leandro for the reporting period of: July 17, 2007 to August 20, 2007. This report is submitted in compliance with 40 CFR 403.12 and Part III (A) of Special Discharge Permit **SD-036**. The information contained in this report is accurate and complete. For any questions or comments regarding this report, contact Kiran Nagaraju at (530) 676 6007.

Number of days discharged: 34

Total monthly discharge: 36,612 U. S. Gallons

Signature of Certifying Official: 

Printed Name of Official: Jay R. Johnson, P.G.

Title: Project Manager

Date: September 4, 2007

Include a brief statement summarizing the month's operations:

The operation of the dual phase extraction (DPE) system, air stripper (AS) and the groundwater extraction and treatment system (GETS) was initiated on January 29, 2007. Soil vapors and groundwater were concurrently extracted from wells V-1, V-2, V-3, MW-1, MW-3, MW-7, and MW-8 using the liquid ring pump of the DPE system. In addition, groundwater was also extracted from well MW-2 using the electrical submersible pump. The groundwater extracted by both the DPE and the submersible pump are treated using the air stripper and two 2,000-pound carbon vessels in series prior to the discharge to the sewer. The GETS was found non-functioning on August 1, 2007, due to high-water level alarm on the oil-water separator. The GETS was re-started on August 1, 2007 by re-setting the transfer pump. The remediation systems were manually shutdown on August 1, 2007, after sample collecting pending compliance verification. Upon receipt of analytical results and compliance verification, the remediation systems were re-started on August 8, 2007. The GETS was again found non-functioning on August 20, 2007 due to high-water level alarm on the air stripper. The GETS was re-started the same day after resetting the air stripper.

Submit reports to: City of San Leandro – Environmental Services Division
835 East 14th Street, San Leandro CA 94577

TABLE 1
SEWER DISCHARGE SUMMARY REPORT

ARCO Service Station No. 2111
1156 Davis Street
San Leandro, California

Report Month (month/year)	Date	Effluent Totalizer Reading (gallons)	Monthly Discharge (gallons)
January-07	1/29/07 8:00	System Start-up	5,560
	1/29/07 8:00	3,000	
	1/29/07 ¹ 12:00	5,000	
	01/30/07	6,200	
	01/31/07	8,560	
February-07	2/1/07 5:15	16,860	114,230
	2/2/07 5:00	25,480	
	2/5/07 5:00	33,400	
	2/20/07 6:30	122,790	
March-07	3/5/07 ² 5:00	130,565	10,472
	3/8/07 ³ 4:50	132,951	
	3/14/07 ⁴ 7:00	NM	
	3/29/07 ⁵ 10:00	133,262	
April-07	4/2/07 ⁶ 5:30	170,596	66,881
	4/10/07 ⁷ 5:00	NM	
	4/23/07 ⁸ 7:00	172,210	
	4/26/07 6:00	200,143	
May-07	5/1/2007 ⁹ 4:50	220,892	210,103
	5/15/2007 ¹⁰ 5:00	225,297	
	5/29/07 8:30	410,246	
June-07	6/4/2007 ¹¹ 5:00	429,450	19,976
	6/12/2007 ¹² 5:00	430,092	
	6/26/2007 ¹³ 4:30	430,222	

TABLE 1
SEWER DISCHARGE SUMMARY REPORT

ARCO Service Station No. 2111
1156 Davis Street
San Leandro, California

Report Month (month/year)	Date	Effluent Totalizer Reading (gallons)	Monthly Discharge (gallons)
July-07	7/2/07 5:30	480,377	115,872
	7/10/2007 ¹⁴ 5:45	523,553	
	7/17/2007 ¹⁵ 5:00	546,094	
August-07	8/1/2007 ¹⁵ 5:00	580,301	36,612
	8/7/07 5:00	580,662	
	8/20/2007 ¹⁵ 5:00	582,706	

Notes:

NM = Not measured

¹ Submersible pump at well MW-2 was shutdown. This pump will be re-started after troubleshooting the level floats/controller malfunction.

² System observed non-functioning upon arrival. Re-started by re-setting power supply.

³ System shutdown to verify effluent air results.

⁴ System shutdown due to float malfunction.

⁵ System re-started after replacing the floats.

⁶ System shutdown due to high-level in oil-water separator. System restarted after replacing a capacitor on the transfer pump.

⁷ System shutdown due to transfer pump malfunction. System could not be restarted pending replacement of transfer pump.

⁸ System restarted after replacing transfer pump.

⁹ System observed non-functioning upon arrival due to DPE liquid ring pump malfunction. System re-started, but shutdown after sampling pending receipt and verification of analytical results.

¹⁰ System re-started upon compliance verification and after conducting maintenance on the liquid ring pump.

¹¹ System observed non-functioning upon arrival due to high water level alarm on air stripper. System re-started, but shutdown after sampling pending receipt and verification of analytical results.

¹² System re-started momentarily upon compliance verification and to collect carbon sample for profiling and change-out.

¹³ System re-started upon receipt of analytical results for carbon profile.

¹⁴ System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started after replacing particulate filters on the system.

¹⁵ System observed non-functioning upon arrival due to high water level alarm on air stripper. System re-started after re-setting air stripper.



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

TRANSMITTAL

Date October 4, 2007
Project E2111-03

To:
Ms. Tiffany Treece

City of San Leandro

Civic Center, 835 E. 14th Street

San Leandro, CA 94577

Re: Permit # SD-036, ARCO Service Station No. 2111, 1156 Davis Street, San Leandro

<u>Item</u>	<u>Description</u>
<u>1</u>	<u>Monthly Discharge Report for September 2007</u>
<u>2</u>	<u>Table 1- Sewer Discharge Summary Report</u>

Comments:

Dear Ms. Treece:

Please find attached for your review the *Monthly Discharge Report* for September 2007, for the remediation system at ARCO Service Station No. 2111, located at 1156 Davis Street, San Leandro, California. A total of approximately 8,737 gallons of treated groundwater were discharged to the sanitary sewer between August 20, 2007 and September 17, 2007.

If you have any questions or need any additional information, please call either Kiran Nagaraju at (530) 676 6007 or myself at (530) 676-6000.

Sincerely,
Jay R. Johnson, P.G.
Project Manager

cc: Mr. Rob Miller, Broadbent & Associates, Inc.

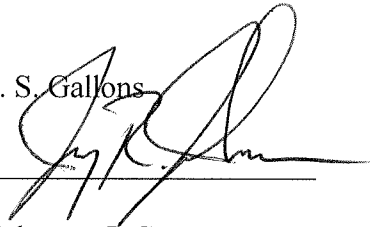
MONTHLY DISCHARGE REPORT
ARCO SERVICE STATION #2111, 1156 DAVIS STREET

This form and enclosed documents serve as the remediation activities monthly discharge report to the City of San Leandro for the reporting period of: August 20, 2007 to September 17, 2007. This report is submitted in compliance with 40 CFR 403.12 and Part III (A) of Special Discharge Permit **SD-036**. The information contained in this report is accurate and complete. For any questions or comments regarding this report, contact Kiran Nagaraju at (530) 676 6007.

Number of days discharged: 28

Total monthly discharge: 8,737 U. S. Gallons

Signature of Certifying Official: _____



Printed Name of Official: Jay R. Johnson, P.G.

Title: Project Manager

Date: October 1, 2007

Include a brief statement summarizing the month's operations:

The operation of the dual phase extraction (DPE) system, air stripper (AS) and the groundwater extraction and treatment system (GETS) was initiated on January 29, 2007. Soil vapors and groundwater were concurrently extracted from wells V-1, V-2, V-3, MW-1, MW-3, MW-7, and MW-8 using the liquid ring pump of the DPE system. In addition, groundwater was also extracted from well MW-2 using the electrical submersible pump. The groundwater extracted by both the DPE and the submersible pump is treated using the air stripper and two 2,000-pound carbon vessels in series prior to the discharge to the sewer. The GETS was found non-functioning on September 5, 2007, due to high-water level alarm on the oil-water separator. The GETS was re-started momentarily on September 5, 2007, and shutdown after sampling, pending receipt of analytical results. Upon receipt of analytical results and compliance verification, the GETS was re-started on September 11, 2007. The GETS was again found non-functioning on September 17, 2007 due to high-water level alarm on the oil-water separator. Stratus attempted to re-start the GETS on September 17, 2007 after conducting maintenance on the oil-water separator but the system was shutdown again. Stratus will further troubleshoot and re-start the remediation systems in October 2007.

Submit reports to: City of San Leandro – Environmental Services Division
835 East 14th Street, San Leandro CA 94577

TABLE 1
SEWER DISCHARGE SUMMARY REPORT

ARCO Service Station No. 2111
1156 Davis Street
San Leandro, California

Report Month (month/year)	Date	Effluent Totalizer Reading (gallons)	Monthly Discharge (gallons)
January-07	1/29/07 8:00	System Start-up	5,560
	1/29/07 8:00	3,000	
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	5/15/2007 ¹⁰ 5:00	225,297	
	5/29/07 8:30	410,246	
June-07	6/4/2007 ¹¹ 5:00	429,450	19,976
	6/12/2007 ¹² 5:00	430,092	
	6/26/2007 ¹³ 4:30	430,222	

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San Leandro, California

Report Month (month/year)	Date	Effluent Totalizer Reading (gallons)	Monthly Discharge (gallons)
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	7/10/2007 ¹⁴ 5:45	523,553	
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August-07	8/1/2007 ¹⁵ 5:00	580,301	36,612
	8/7/07 5:00	580,662	
	8/20/2007 ¹⁵ 5:00	582,706	
September-07	9/5/2007 ¹⁶ 5:00	589,944	8,737
	9/11/2007 ¹⁷ 9:00	589,950	
	9/17/2007 ¹⁸ 5:30	591,443	

Notes:

NM = Not measured

¹ Submersible pump at well MW-2 was shutdown. This pump will be re-started after troubleshooting the level floats/controller malfunction.

² System observed non-functioning upon arrival. Re-started by re-setting power supply.

³ System shutdown to verify effluent air results.

⁴ System shutdown due to float malfunction.

⁵ System re-started after replacing the floats.

⁶ System shutdown due to high-level in oil-water separator. System restarted after replacing a capacitor on the transfer pump.

⁷ System shutdown due to transfer pump malfunction. System could not be restarted pending replacement of transfer pump.

⁸ System restarted after replacing transfer pump.

⁹ System observed non-functioning upon arrival due to DPE liquid ring pump malfunction. System re-started, but shutdown after sampling pending receipt and verification of analytical results.

¹⁰ System re-started upon compliance verification and after conducting maintenance on the liquid ring pump.

¹¹ System observed non-functioning upon arrival due to high water level alarm on air stripper. System re-started, but shutdown after sampling pending receipt and verification of analytical results.

¹² System re-started momentarily upon compliance verification and to collect carbon sample for profiling and change-out.

¹³ System re-started upon receipt of analytical results for carbon profile.

TABLE 1
SEWER DISCHARGE SUMMARY REPORT

ARCO Service Station No. 2111
1156 Davis Street
San Leandro, California

Report Month (month/year)	Date	Effluent Totalizer Reading (gallons)	Monthly Discharge (gallons)
<p>¹⁴ System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started after replacing particulate filters on the system.</p> <p>¹⁵ System observed non-functioning upon arrival due to high water level alarm on air stripper. System re-started after re-setting air stripper.</p> <p>¹⁶ System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started, but shutdown after sampling pending receipt and verification of analytical results.</p> <p>¹⁷ System re-started upon receipt of analytical results and compliance verification.</p> <p>¹⁸ System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started momentarily after conducting maintenance, but shutdown pending further troubleshooting.</p>			