Atlantic Richfield Company
(a BP affiliated company)

P.O. Box 1257
San Ramon, CA 94583
Phone: (925) 275-3801
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25 April 2008

Re: First Quarter 2008 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

First Quarter 2008 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

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

1324 Mangrove Avenue, Suite 212
Chico, California 95926
(530) 566-1400
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25 April 2008

Project No. 06-08-615

Broadbent & Associates, Inc.
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BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

25 April 2008

Project No. 06-08-615

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

Attn.: Mr. Paul Supple

Re: First Quarter 2008 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 *First Quarter 2008 Ground-Water Monitoring and Remediation System Status Report* for Atlantic Richfield Company Station #2111 located at 1156 Davis Street, San Leandro, California (Site). This report presents results of ground-water monitoring conducted at the Site during the First Quarter 2008, and summarizes the performance of the remediation system during the same period.

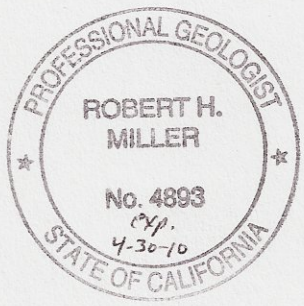
Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Thomas A. Venus, P.E.
Senior Engineer

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



Enclosures

cc: Mr. Paresh Khatri, 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 REMEDIATION SYSTEM STATUS REPORT

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

WORK PERFORMED THIS QUARTER (First Quarter 2008):

1. Prepared and submitted Fourth Quarter 2007 Ground-Water Monitoring and Remediation System Status Report.
2. Conducted ground-water monitoring/sampling for First Quarter 2008. Work performed on 8 January 2008 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 January, February and March 2008 to the City of San Leandro. Work performed by Stratus.

WORK PROPOSED FOR NEXT QUARTER (Second Quarter 2008):

1. Prepared and submitted this First Quarter 2008 Ground-Water Monitoring and Remediation System Status Report (contained herein).
2. Conduct quarterly ground-water monitoring/sampling for Second Quarter 2008.
3. Continue operation, maintenance and performance monitoring of the DPE treatment system.
4. Submit monthly discharge reports for April, May and June 2008.

QUARTERLY RESULTS SUMMARY:

Current phase of project:	**Ground-Water Monitoring/Sampling/DPE Remediation**
Frequency of ground-water monitoring:	**Quarterly: MW-1 through MW-8**
Frequency of ground-water sampling:	**Quarterly: MW-1 through MW-5, MW-7 and MW-8** **Annually (3Q): MW-6**
Is free product (FP) present on-site:	**No**
FP recovered this quarter:	**0 gallons**
Cumulative FP recovered:	**1.44 gallons (MW-2)**
Depth to ground-water (below TOC):	**13.08 ft (MW-6) to 15.97 ft (MW-1)**
General ground-water flow direction:	**West**
Approximate hydraulic gradient:	**0.008 ft/ft**
Current remediation techniques:	**DPE treatment system**
System startup:	**01/29/2007**
Extraction wells:	**SVE: V-1, V-2, V-3, MW-1, MW-3, MW-7, MW-8** **GWE: MW-2**
Frequency of DPE system field monitoring:	**Bi-weekly**
Frequency of DPE system sampling:	**Monthly**

QUARTERLY RESULTS SUMMARY (Continued):

	This Quarter		Cumulative	
Gallons of ground water treated and discharged:	**13,002**		**646,123**	
Total operating hours:	**17**		**1561**	
Mass Removal (pounds)				
Gasoline range organics (GRO):	**0.047 (GWE)**	**2.76 (SVE)**	**4.185 (GWE)**	**360.27 (SVE)**
Benzene:	**0.001 (GWE)**		**0.047 (GWE)**	
Methyl-tert butyl ether (MTBE):	**0.070 (GWE)**		**4.705 (GWE)**	

Ground-water DPE system influent sample results (µg/L):	1/7/2008	2/5/2008	3/5/2008
GRO:	**830**	**<50**	**860**
Benzene:	**12**	**<0.50**	**40**
MTBE:	**1,300**	**98**	**880**
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 (mg/M^3):			
GRO:	**410**	**<50**	**62**
Benzene:	**2.2**	**0.17**	**0.81**
MTBE:	**44**	**3.1**	**26**
Soil vapor DPE system effluent sample results (mg/M^3):			
GRO:	**<50**	**<50**	**<50**
Benzene:	**<0.50**	**<0.0016**	**<0.0016**
MTBE:	**<0.50**	**0.098**	**0.13**

DISCUSSION:

First quarter 2008 ground-water monitoring and sampling was conducted at Station #2111 on 8 January 2008 by Stratus personnel. Water levels were gauged in the eight wells associated with the Site. No irregularities were noted during water level gauging. Depth to water measurements ranged from 13.08 ft at MW-6 to 15.97 ft at MW-1. Resulting ground-water surface elevations ranged from 24.64 ft above mean sea level in well MW-7 to 23.30 ft in well MW-5. Water level elevations were between historic minimum and maximum ranges for each well, as summarized in Table 1. Water level elevations yielded a potentiometric ground-water flow direction and gradient to the west at approximately 0.008 ft/ft, generally consistent with historical data (see Table 3). Ground-water monitoring field data sheets are provided within Appendix A. Measured depths to ground water and respective ground-water elevations are summarized in Table 1. 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-5, MW-7, and MW-8. No irregularities were reported during well 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 concentration for samples collected from wells MW-1, MW-2, 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 seven wells sampled at concentrations up to 5,100 micrograms per liter (µg/L) in well MW-7. Benzene was detected above the laboratory reporting limit in two of the seven wells sampled at concentrations up to 65 µg/L in well MW-2. Ethylbenzene was detected above the laboratory reporting limit in one of the seven wells sampled at a concentration of 37 µg/L in well MW-2. Total Xylenes were detected above the laboratory reporting limit in one of the seven wells sampled at a concentration of 28 µg/L in well MW-2. TAME was detected above the laboratory reporting limit in four of the seven wells sampled at concentrations up to 32 µg/L in well MW-7. TBA was detected above the laboratory reporting limit in five of the seven wells sampled at concentrations up to 2,600 µg/L in well MW-2. MTBE was detected above the laboratory reporting limit in each of the seven wells sampled at concentrations up to 6,100 µg/L in well MW-7. The remaining fuel additives and oxygenates were not detected above their laboratory reporting limits in the seven 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 TBA in well MW-5 reached a historic minimum value of 220 µg/L; the concentration of TAME reached a historic minimum value of 0.80 µg/L in well MW-8; and the MTBE concentration reached a historic minimum value of 49 µg/L in well MW-8. 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 First Quarter 2008 period from 17 December 2007 to 17 March 2008, the DPE system reportedly operated approximately 0.8 percent of the time. During this period, a total of 13,002 gallons of ground water was treated and discharged. During the First Quarter 2008, approximately 0.47 pounds of GRO (0.008 gallons), approximately 0.001 pounds of benzene (0.0001 gallons), and approximately 0.070 pounds of MTBE (0.011 gallons) were 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 17 hours between 17 Decemeber 2007 and 17 March 2008 based on the hour meter reading. Stratus found the system non-operational upon arrival at the Site on 7 January 2008 due to a high water level alarm on the air stripper. The system was restarted momentarily on 7 January 2008 to facilitate sample collection and then shut down pending receipt of the laboratory results. On 15 January 2008, Stratus restarted the system after receiving the analytical results from the samples collected on 7 January 2008. Stratus found the system non-operational upon the next arrival at the site on 5 February 2008 due to a high water level alarm on the air stripper. Additionally, the transfer pump on the DPE system was found to have malfunctioned during this visit. The system was restarted momentarily on 5 February 2008 to facilitate sample collection and then shut down pending receipt of the laboratory results. On 26 February 2008, Stratus replaced the DPE transfer pump and provided oversight for Cornerstone Environmental, the electrical installation contractor. The electrician was onsite to verify and modify the PLC program to enable operation of the submersible pump in well MW-2. The system was restarted prior to departure from the Site on 26 February 2008 after receiving the

analytical results from the samples collected on 5 February 2008. The remediation system was found non-operational upon next arrival at the Site on 5 March 2008 due to a high water level alarm on the air stripper. The system was restarted momentarily to facilitate sample collection and then shut down pending receipt of the laboratory results. The hose for the extraction pump connected to well MW-2 was also replaced during this visit. On 17 March 2008, the remediation was restarted after receiving the analytical results from the samples collected on 5 March 2008. However, due to a float malfunction, the DPE system shutdown immediately. The GWE system was left operational upon departure from the Site on 17 March 2008 and the DPE system will be restarted after replacing the floats. Copies of Stratus' remediation system operation and maintenance data packages for First Quarter 2008 are contained within Appendix C. Copies of Stratus' remediation system monthly discharge reports for First Quarter 2008 are contained within Appendix D.

During preparation of the First Quarter 2008 Ground-Water Monitoring and Remediation System Status Report, it was discovered that incorrect GWE influent concentrations were recorded in Table 5 and Table 6 from Second Quarter 2007 through Fourth Quarter 2007. These tables are used to summarize remediation system concentrations and calculate contaminant removal values and rates. During routine monthly sampling activities, samples entitled DPEWINF and ASWINF are collected from the GWE system. Sample ASWINF represents the cumulative ground-water extracted from both well MW-2 and the DPE wells. Sample DPEWINF represents only ground-water extracted from the DPE wells. Beginning in Second Quarter 2007, sample DPEWINF was inadvertently used as the cumulative GWE influent concentration in Tables 5 and 6. The current tables now reflect the correct GWE influent concentrations and subsequent removal amounts and rates. The effect of these changes did not significantly alter the cumulative contaminant removal values.

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) and Calscience Environmental Laboratories, Inc. (Garden Grove, 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 – 8 January 2008

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

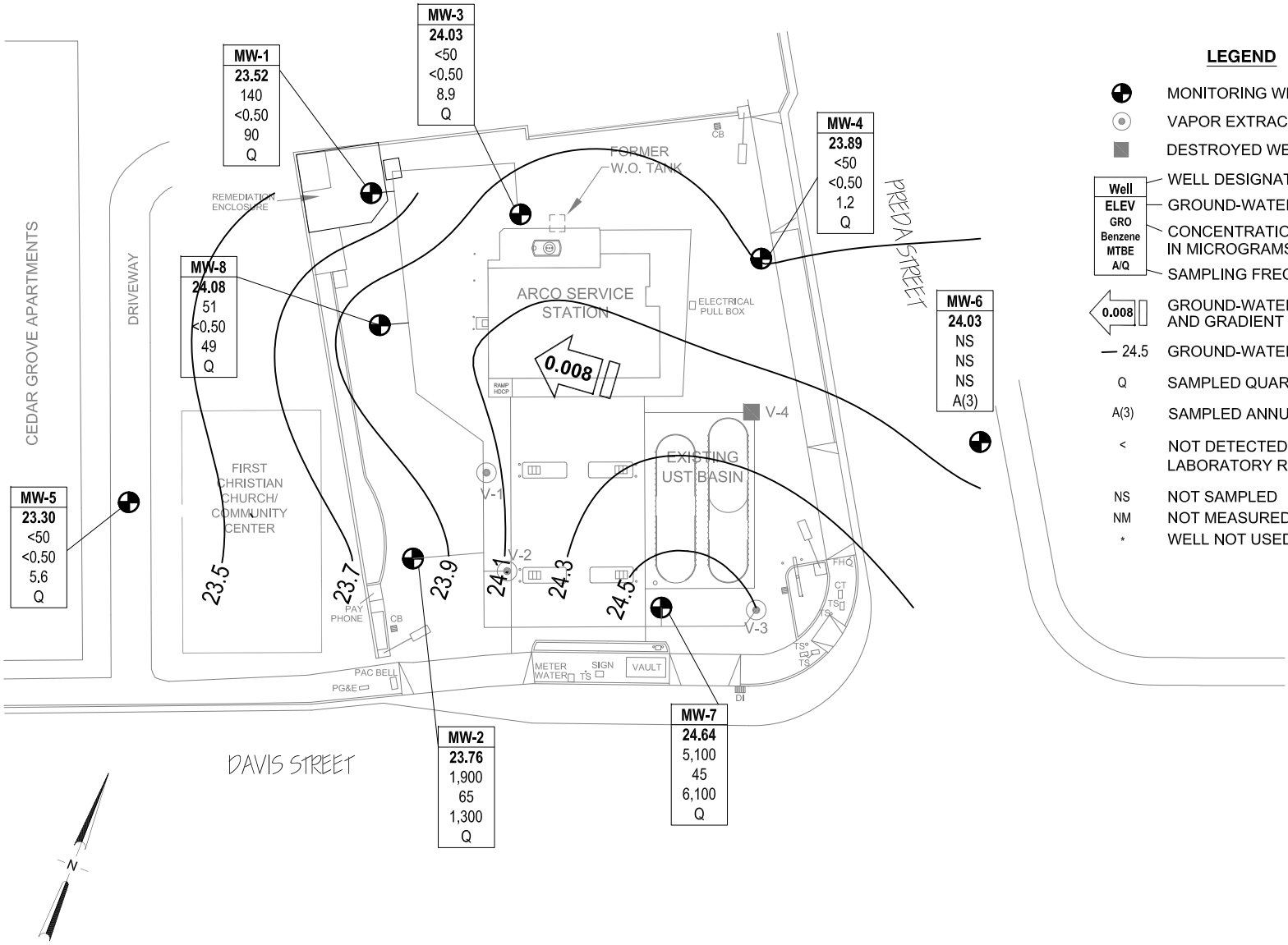
Figure 4. SVE System Cumulative GRO Mass Removed vs. Time

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 — WELL DESIGNATION
- ELEV — GROUND-WATER ELEVATION (FT MSL)
- GRO, Benzene, MTBE — CONCENTRATIONS OF GRO, BENZENE & MTBE IN MICROGRAMS PER LITER (µg/L)
- A/Q — SAMPLING FREQUENCY
- 0.008 — GROUND-WATER FLOW DIRECTION AND GRADIENT (FT/FT)
- 24.5 — 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.

0 40 80
SCALE (ft)

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
1324 Mangrove Ave. Suite 212, Chico, California 95926
Project No.: 06-08-615 Date: 4/3/08

Station #2111
1156 Davis Street
San Leandro, California

Ground-Water Elevation Contours and Analytical Summary Map
8 January 2008

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
10/11/2007	NP		39.49	12.50	26.00	18.10	21.39	66	<0.50	<0.50	<0.50	<0.50	62	1.60	7.00
1/8/2008	**NP**	**n**	**39.49**	**12.50**	**26.00**	**15.97**	**23.52**	**140**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**90**	**1.19**	**5.60**

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															
MW-2															
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	--	--
12/21/2000	--		37.99	12.0	26.00	15.60	22.39	45,900	--	2,130	1,160	9,460	22,400/24,700	--	--
12/21/00	--	b	37.99	12.0	26.00	--	--	5,010	360	189	213	626	54,300/89,200	--	--
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

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.															
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
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
10/11/2007	NP		37.86	12.0	26.00	16.38	21.48	1,800	17	<10	<10	11	1,000	1.52	7.05
1/8/2008	**NP**	**n**	**37.86**	**12.0**	**26.00**	**14.10**	**23.76**	**1,900**	**65**	**<10**	**37**	**28**	**1,300**	**1.06**	**4.22**
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

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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-3 Cont.															
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
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
10/11/2007	NP		39.19	12.00	26.00	17.43	21.76	<50	<0.50	<0.50	<0.50	<0.50	5.3	1.62	7.10
1/8/2008	**NP**		**39.19**	**12.00**	**26.00**	**15.16**	**24.03**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**8.9**	**2.02**	**6.94**
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

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								GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-4 Cont.															
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
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
10/11/2007	NP		37.99	10.0	24.00	16.45	21.54	<50	<0.50	<0.50	<0.50	<0.50	0.81	2.68	7.07
1/8/2008	**NP**		**37.99**	**10.0**	**24.00**	**14.10**	**23.89**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**1.2**	**3.50**	**6.74**
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

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								GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-5 Cont.															
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
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
10/11/2007	NP		37.12	9.50	23.50	15.83	21.29	<50	<0.50	<0.50	<0.50	<0.50	4.8	2.92	7.23
1/8/2008	**NP**		**37.12**	**9.50**	**23.50**	**13.82**	**23.30**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**5.6**	**1.80**	**6.91**
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	--	--	--	--	--	--	--	--

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.															
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	--	--	--	--	--	--	--	--
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
10/11/2007	--		37.11	10.00	25.00	15.28	21.83	--	--	--	--	--	--	--	--
1/8/2008	--		**37.11**	**10.00**	**25.00**	**13.08**	**24.03**	--	--	--	--	--	--	--	--
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	75,000/160,00	--	--
9/18/2001	--		38.68	12.0	**27.00**	17.02	21.66	<100,000	1,900	<1,000	<1,000	2,800	90,000/370,00	--	--
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

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.															
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
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
10/11/2007	NP	t (GRO)	38.54	12.0	27.00	16.18	22.36	210	<2.5	<2.5	<2.5	<2.5	370	2.99	7.33
1/8/2008	**NP**	**n**	**38.54**	**12.0**	**27.00**	**13.90**	**24.64**	**5,100**	**45**	**<25**	**<25**	**<25**	**6,100**	**2.50**	**7.23**
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

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-8 Cont.															
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
10/11/2007	P		38.91	--	--	16.99	21.92	100	0.52	<0.50	<0.50	<0.50	130	1.67	7.18
1/8/2008	**P**	**n**	**38.91**	**--**	**--**	**14.83**	**24.08**	**51**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**49**	**1.30**	**6.88**

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.
t = Initial analysis within holding time but required dilution.

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	
10/11/2007	<300	<20	62	<0.50	<0.50	<0.50	<0.50	<0.50	
1/8/2008	**<300**	**74**	**90**	**<0.50**	**<0.50**	**2.5**	**<0.50**	**<0.50**	**a**
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	

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-2 Cont.									
7/17/2007	<6,000	1,000	1,300	<10	<10	<10	<10	<10	
10/11/2007	<6,000	1,300	1,000	<10	<10	<10	<10	<10	
1/8/2008	**<6,000**	**2,600**	**1,300**	**<10**	**<10**	**<10**	**<10**	**<10**	**a**
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	
10/11/2007	<300	<20	5.3	<0.50	<0.50	<0.50	<0.50	<0.50	
1/8/2008	**<300**	**<20**	**8.9**	**<0.50**	**<0.50**	**0.84**	**<0.50**	**<0.50**	**a**
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	

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.									
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
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	
10/11/2007	<300	<20	0.81	<0.50	<0.50	<0.50	<0.50	<0.50	
1/8/2008	**<300**	**<20**	**1.2**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**a**
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	

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-5 Cont.									
10/11/2007	<300	750	4.8	<0.50	<0.50	<0.50	<0.50	<0.50	
1/8/2008	**<300**	**220**	**5.6**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**a**
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									
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	
10/11/2007	<1,500	150	370	<2.5	<2.5	<2.5	<2.5	<2.5	
1/8/2008	**<15,000**	**1,400**	**6,100**	**<25**	**<25**	**32**	**<25**	**<25**	
MW-8									

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.									
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	
7/17/2007	<300	110	96	<0.50	<0.50	1.2	<0.50	<0.50	
10/11/2007	<300	350	130	<0.50	<0.50	1.7	<0.50	<0.50	
1/8/2008	**<300**	**59**	**49**	**<0.50**	**<0.50**	**0.80**	**<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
10/11/2007	West	0.01
1/8/2008	**West**	**0.008**

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
MW-2	10/11/07	ND	0.00
MW-2	**01/08/08**	**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
	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
1/29/2007										
	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
	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
2/5/2007										
	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
	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
3/5/2007										
	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
	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
4/2/2007										
	GWE-Influent[4]	Water (µg/L)	**850**	<5.0	<5.0	<5.0	**8.5**	**5.7**	**870**	**1,100**
	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
	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
5/1/2007										
	GWE-Influent[4]	Water (µg/L)	**760**	<5.0	<5.0	<5.0	<5.0	**5.0**	**680**	**880**
	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
	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
6/4/2007										
	GWE-Influent[4]	Water (µg/L)	**430**	<5.0	<5.0	**8.5**	**6.7**	<5.0	**340**	**560**
	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
	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
7/2/2007										
	GWE-Influent[4]	Water (µg/L)	**320**	<5.0	<5.0	<5.0	<5.0	<5.0	<200	**430**
	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
	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
8/1/2007										
	GWE-Influent[4]	Water (µg/L)	**440**	**9.4**	<5.0	<5.0	<5.0	<5.0	**590**	**450**
	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
	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
9/5/2007										
	GWE-Influent[4]	Water (µg/L)	**410**	**9.5**	<5.0	**6.3**	**9.9**	<5.0	**960**	**570**
	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

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
	SVE-Influent	Air (mg/m^3)	1,300	1.2	<0.50	2.6	5.2	---	---	14
	SVE A/S-Effluent	Air (mg/m^3)	<10	<0.50	<0.50	<0.50	<0.50	---	---	2.6
	SVE-Effluent	Air (mg/m^3)	<10	<0.50	<0.50	<0.50	<0.50	---	---	2.2
10/1/2007										
	GWE-Influent[4]	Water (µg/L)	**500**	**6.9**	<5.0	**9.1**	**20**	<5.0	**940**	**540**
	GWE A/S-Effluent	Water (µg/L)	60	<0.50	<0.50	<0.50	<0.50	<0.50	970	71
	GWE-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
	SVE-Influent	Air (mg/m^3)	1,000	2.0	<0.50	4.0	5.3	---	---	23
	SVE A/S-Effluent	Air (mg/m^3)	13	<0.50	<0.50	<0.50	<0.50	---	---	15
	SVE-Effluent	Air (mg/m^3)	<10	<0.50	<0.50	<0.50	<0.50	---	---	<0.50
11/6/2007										
	GWE-Influent[4]	Water (µg/L)	**1,100**	**20**	<5.0	**20**	**24**	**6.9**	**1,300**	**920**
	GWE A/S-Effluent	Water (µg/L)	120	<0.50	<0.50	<0.50	<0.50	<0.50	1,100	93
	GWE-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
	SVE-Influent	Air (mg/m^3)	830	<0.50	<0.50	1.0	1.2	---	---	2.5
	SVE A/S-Effluent	Air (mg/m^3)	<10	<0.50	<0.50	<0.50	<0.50	---	---	<0.50
	SVE-Effluent	Air (mg/m^3)	<10	<0.50	<0.50	<0.50	<0.50	---	---	<0.50
12/5/2007										
	GWE-Influent[4]	Water (µg/L)	**80**	**0.69**	<0.50	**1.0**	**1.1**	<0.50	**21**	**74**
	GWE A/S-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	0.61	<20	2.7
	GWE-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
	SVE-Influent	Air (mg/m^3)	**410**	**2.2**	**1.5**	**2.9**	**3.9**	---	---	**44**
	SVE A/S-Effluent	Air (mg/m^3)	<50	<0.50	<0.50	<0.50	<0.50	---	---	**14**
	SVE-Effluent	Air (mg/m^3)	<50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50
1/7/2008										
	GWE-Influent	Water (µg/L)	**830**[1]	**12**	**3.2**	**7.8**	**8.5**	**6.8**	**1,900**	**1,300**
	GWE A/S-Effluent	Water (µg/L)	**83**	<0.50	<0.50	<0.50	<0.50	**0.60**	**590**	**110**
	GWE-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
	SVE-Influent	Air (mg/m^3)	<50	**0.17**	**0.017**	**0.12**	**0.046**	---	---	**3.1**
	SVE A/S-Effluent	Air (mg/m^3)	<50	**0.32**	**0.024**	**0.20**	**0.10**	---	---	**5.1**
	SVE-Effluent	Air (mg/m^3)	<50	<0.0016	**0.0032**	<0.0022	<0.0043	---	---	**0.098**
2/5/2008										
	GWE-Influent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	**18**	**98**
	GWE A/S-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	**3.7**
	GWE-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50
	SVE-Influent	Air (mg/m^3)	**62**	**0.81**	**0.033**	**0.33**	**0.10**	---	---	**26**
	SVE A/S-Effluent	Air (mg/m^3)	<50	**0.0024**	**0.024**	**0.0025**	**0.0055**	---	---	**0.27**
	SVE-Effluent	Air (mg/m^3)	<50	<0.0016	**0.026**	<0.0022	<0.0043	---	---	**0.13**
3/5/2008										
	GWE-Influent	Water (µg/L)	**860**	**40**	<0.50	**39**	**12**	**5.0**	**1,800**	**880**
	GWE A/S-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	**1,500**	**19**
	GWE-Effluent	Water (µg/L)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50

Notes:

SVE	= Soil Vapor Extration
GWE	= Groundwater Extration
mg/m3	= milligrams per meter cubed
mg/L	= milligrams per liter
GRO	= gasoline range organics
MtBE	= methyl teritary 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
[3] = Sample taken from VOA vial with air bubble > 6 millimeters in diameter
[4] = Incorrect GWE influent concentrations were recorded in previously submitted reports

Table 6
Ground-Water Extraction System Performance Data

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

						GRO				Benzene				MTBE			
Sample ID	Date Sampled	Notes	Totalizer Value (gallons)	Monthly Volume (gallons)	Average Discharge Rate (gpm)	Influent Concen-tration (µg/L)	Removal Rate (lbs/day)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concen-tration (µg/L)	Removal Rate (lbs/day)	Net Removed (pounds)	Removed To Date (pounds)	Influent Concen-tration (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	a	170,596	40,031	0.99	850	0.01	0.392	1.998	<5.0	1.3E-04	0.004	0.030	1,100	1.6E-02	0.451	2.115
INFL	05/01/07	a	225,297	54,701	1.31	760	0.01	0.367	2.366	<5.0	2.0E-05	0.001	0.030	880	1.6E-02	0.452	2.567
INFL	06/04/07	a	429,450	204,153	4.17	430	0.03	1.013	3.379	<5.0	1.3E-04	0.004	0.034	560	3.6E-02	1.226	3.792
INFL	07/02/07	a	480,377	50,927	1.26	320	0.01	0.159	3.538	<5.0	3.8E-05	0.001	0.035	430	7.5E-03	0.210	4.003
INFL	08/01/07	a	580,301	99,924	2.31	440	0.01	0.317	3.855	9.4	1.7E-04	0.005	0.040	450	1.2E-02	0.367	4.369
INFL	09/05/07	a	589,944	9,643	0.19	410	0.00	0.034	3.889	9.5	2.2E-05	0.001	0.041	570	1.2E-03	0.041	4.410
INFL	10/01/07	a	592,403	2,459	0.07	500	0.00	0.009	3.898	6.9	6.5E-06	0.000	0.041	540	4.4E-04	0.011	4.422
INFL	11/06/07	a	615,161	22,758	0.44	1,100	0.00	0.152	4.050	20.0	7.1E-05	0.003	0.044	920	3.8E-03	0.139	4.560
INFL	12/05/07	a	633,121	17,960	0.43	80	0.00	0.088	4.138	0.69	5.3E-05	0.002	0.045	74	2.6E-03	0.074	4.635
INFL	**01/07/08**		**635,200**	**2,079**	**0.04**	**830**	**0.00**	**0.008**	**4.146**	**12.0**	**3.3E-06**	**0.000**	**0.046**	**1,300**	**3.6E-04**	**0.012**	**4.647**
INFL	**02/05/08**		**642,841**	**7,641**	**0.18**	**<50**	**0.00**	**0.027**	**4.173**	**<0.50**	**1.3E-05**	**0.000**	**0.046**	**98**	**1.5E-03**	**0.045**	**4.691**
INFL	**03/05/08**		**646,123**	**3,282**	**0.08**	**860**	**0.00**	**0.012**	**4.185**	**40.0**	**1.9E-05**	**0.001**	**0.047**	**880**	**4.6E-04**	**0.013**	**4.705**
REPORTING PERIOD: FIRST QUARTER 2008																	
PERIOD WATER DISCHARGED (gal):				**13,002**	**as of 3/5/2008**												
AVERAGE DISCHARGE RATE (gpm)				**0.16**													
PERIOD POUNDS REMOVED:								**0.047**				**0.001**				**0.070**	
PERIOD GALLONS REMOVED:								**0.008**				**0.000**				**0.011**	
TOTAL POUNDS REMOVED:									**4.185**				**0.047**				**4.705**
TOTAL GALLONS REMOVED:				**646,123**					**0.686**				**0.006**				**0.761**
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

Notes:

a = Influent concentrations were recorded incorrectly in previously submitted reports

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 (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	TBA (µg/L)	MtBE (µg/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
EFFL	10/01/07		592,403	2,459	0.07	<50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
EFFL	11/06/07		615,161	22,758	0.44	<50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
EFFL	12/05/07		633,121	17,960	0.43	<50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
EFFL	**01/07/08**		635,200	2,079	0.04	<50	<0.50	<0.50	<0.50	<0.50	<20	<0.50
EFFL	**02/05/08**		642,841	7,641	0.18	<50	<0.50	<0.50	<0.50	<0.50	<10	<0.50
EFFL	**03/05/08**		646,123	3,282	0.08	<50	<0.50	<0.50	<0.50	<0.50	<10	<0.50

REPORTING PERIOD: FIRST QUARTER 2008
PERIOD WATER DISCHARGED (gal): 13,002 as of 03/05/2008
AVERAGE DISCHARGE RATE (gpm) 0.16

Explanations:

µg/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 OF 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
	Reading	Total Days	Uptime	Days Down	Total Days	Uptime	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%
10/01/07	1466.1	26	0.2	25.8	245	60.5	1%
11/06/07	1500.0	36	1.4	34.6	281	62.0	4%
12/05/07	1544.0	29	1.8	27.2	310	63.8	6%
01/07/08	**1546.0**	**33**	**0.1**	**32.9**	**343**	**63.9**	**0%**
02/05/08	**1556.0**	**29**	**0.4**	**28.6**	**372**	**64.3**	**1%**
03/05/08	**1561.0**	**29**	**0.2**	**28.8**	**401**	**64.5**	**1%**

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
10/01/07	190	NR	Influent	1,300	1.2	<0.50	2.6	5.2	14
			A/S-Effluent	<10	<0.50	<0.50	<0.50	<0.50	2.6
			Effluent	<10	<0.50	<0.50	<0.50	<0.50	2.2
11/06/07	190	NR	Influent	1,000	2.0	<0.50	4.0	5.3	23
			A/S-Effluent	13	<0.50	<0.50	<0.50	<0.50	15
			Effluent	<10	<0.50	<0.50	<0.50	<0.50	<0.50
12/05/07	190	NR	Influent	830	<0.50	<0.50	1.0	1.2	2.5
			A/S-Effluent	<10	<0.50	<0.50	<0.50	<0.50	<0.50
			Effluent	<10	<0.50	<0.50	<0.50	<0.50	<0.50
01/07/08	200	NR	Influent	**410**	**2.2**	**1.5**	**2.9**	**3.9**	**44**
			A/S-Effluent	<50	<0.50	<0.50	<0.50	<0.50	**14**
			Effluent	<50	<0.50	<0.50	<0.50	<0.50	**<0.50**
02/05/08	190	NR	Influent	<50	**0.17**	**0.017**	**0.12**	**0.046**	**3.1**
			A/S-Effluent	<50	**0.32**	**0.024**	**0.20**	**0.10**	**5.1**
			Effluent	<50	<0.0016	**0.0032**	<0.0022	<0.0043	**0.098**
03/05/08	190	NR	Influent	**62**	**0.81**	**0.033**	**0.33**	**0.10**	**26**
			A/S-Effluent	<50	**0.0024**	**0.024**	**0.0025**	**0.0055**	**0.27**
			Effluent	<50	<0.0016	**0.026**	<0.0022	<0.0043	**0.13**

Notes:

mg/m^3	= 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 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
10/1/2007	21.94	0.02	0.08	0.00	99.6%	79.2%	4.22	302.56
11/6/2007	16.87	0.03	0.08	0.00	99.5%	87.5%	27.17	329.72
12/5/2007*	14.01	0.00	0.08	0.00	99.4%	0.0%	27.79	357.51
1/7/2008	**7.28**	**0.04**	**0.44**	**0.00**	**93.9%**	**88.6%**	**1.06**	**358.58**
2/5/2008**	**0.42**	**0.00**	**0.42**	**0.00**	**0.0%**	**99.5%**	**1.54**	**360.12**
3/5/2008**	**1.05**	**0.01**	**0.42**	**0.00**	**59.7%**	**99.9%**	**0.15**	**360.27**

Air Permit Limits

DRE shall be at least 95%

Daily emmission rates will not exceed two lbs. VOC in any one day

Sample Calculations

Ext. Rate from Wells (lbs/day) = $\frac{70 \text{ cuft}}{\text{min}} \times \frac{3100 \text{ mg}}{\text{cu meter}} \times \frac{0.028 \text{ cumeter}}{\text{cuft}} \times \frac{\text{lb}}{454{,}000 \text{ mg}} \times \frac{1{,}440 \text{ min}}{\text{day}}$

= 19.27 lbs/day

Dest. Removal Efficiency, % = $\frac{19.27 - (<0.12)}{19.27} \times 100 = 99.35\%$

Notes

* = Benzene results negligible, DRE not a true representation

** = GRO 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

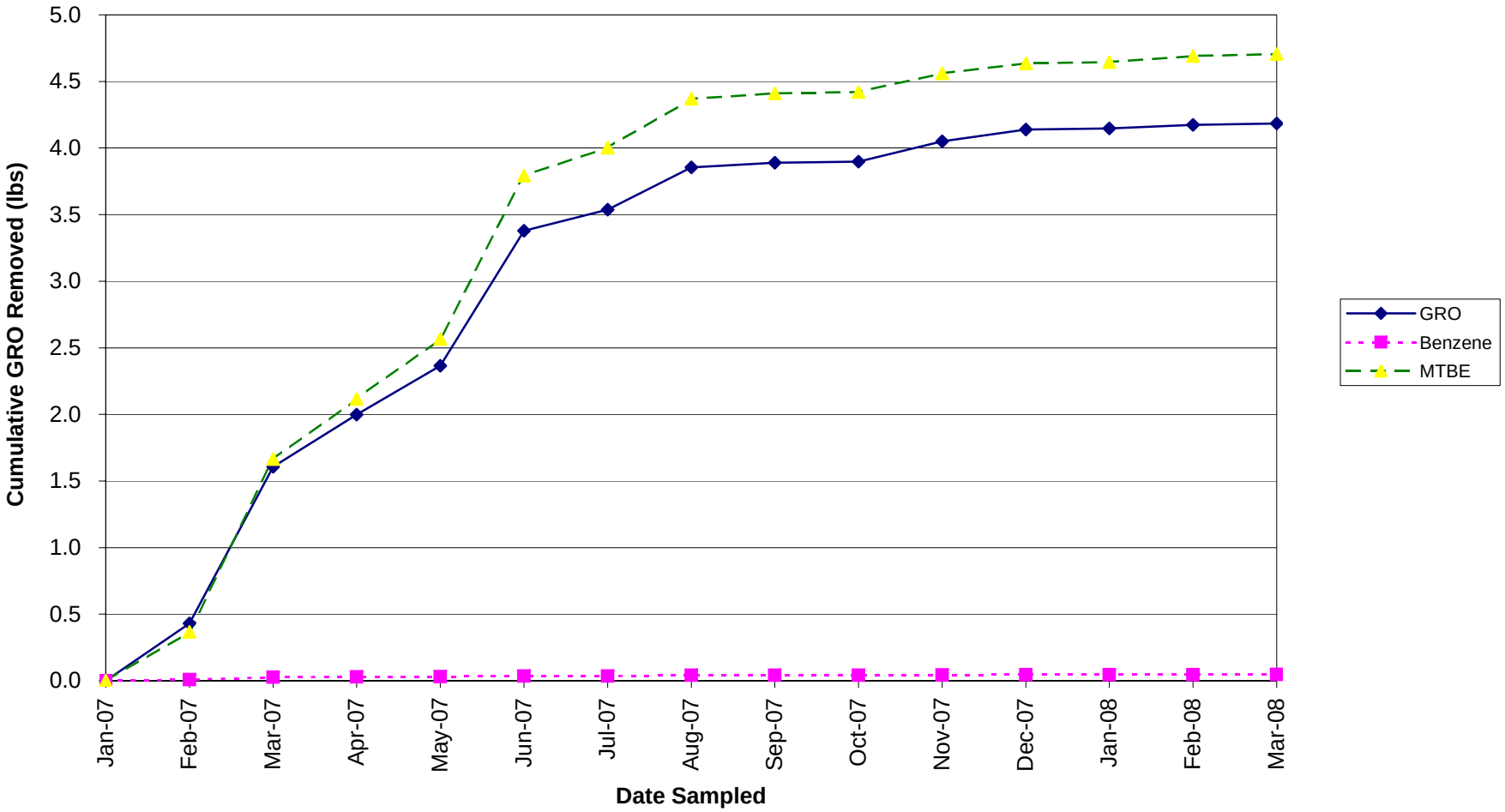


Figure 2
GWE Influent Concentrations for GRO, Benzene, and MTBE
Station #2111, 1156 Davis Street, San Leandro, California

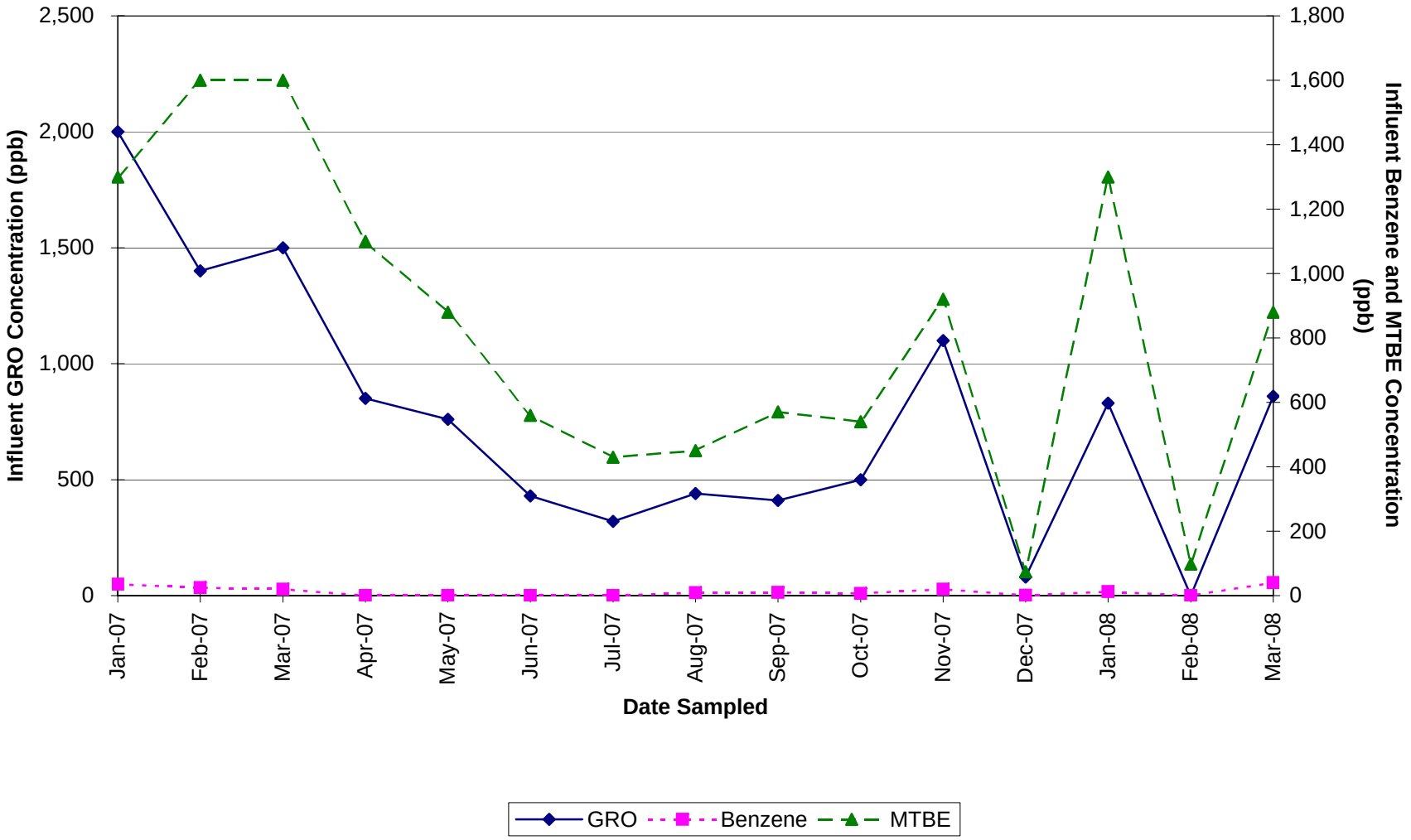


Figure 3
SVE System Influent Concentration vs.Time
Station #2111, 1156 Davis Street, San Leandro, California

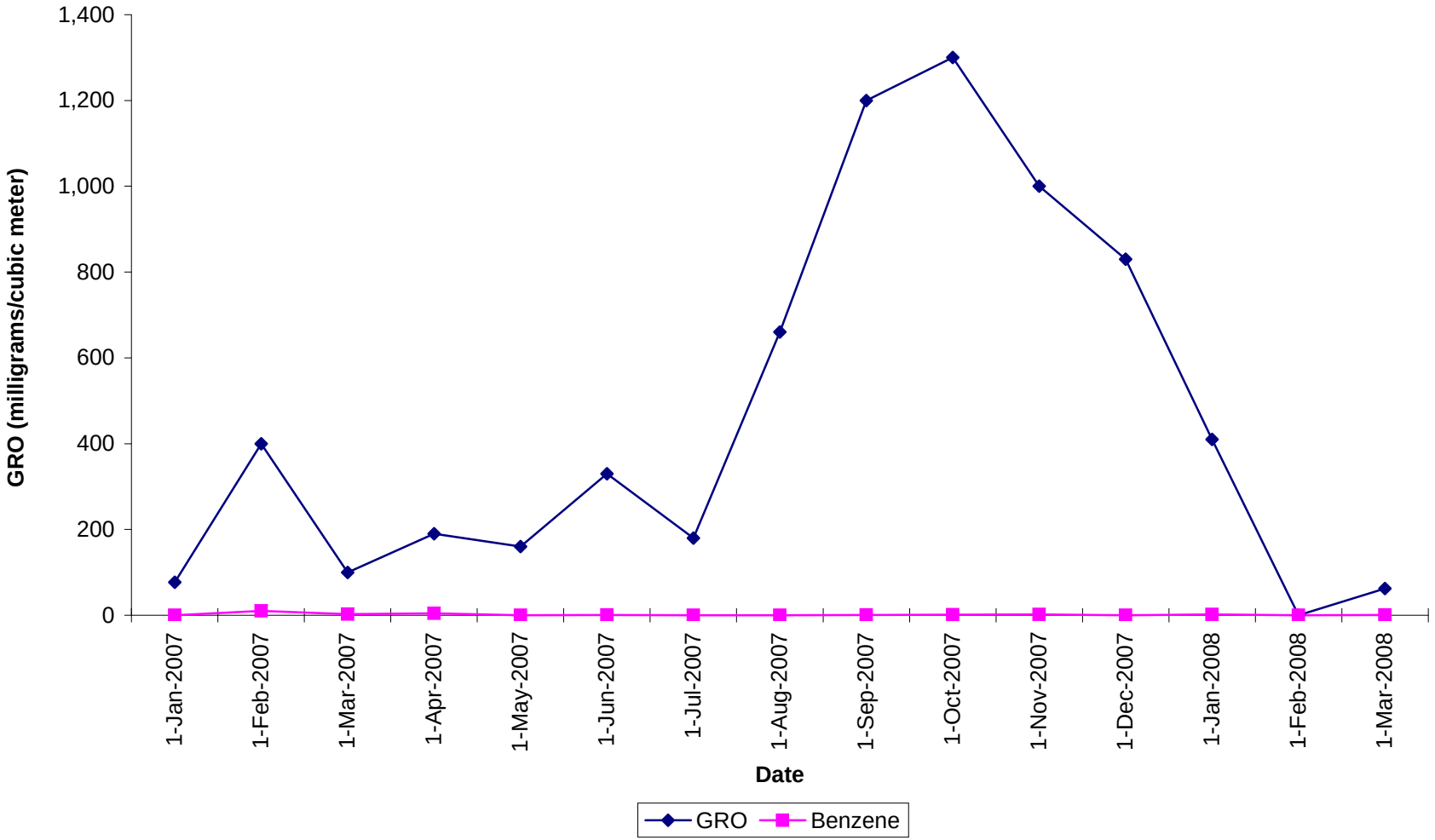
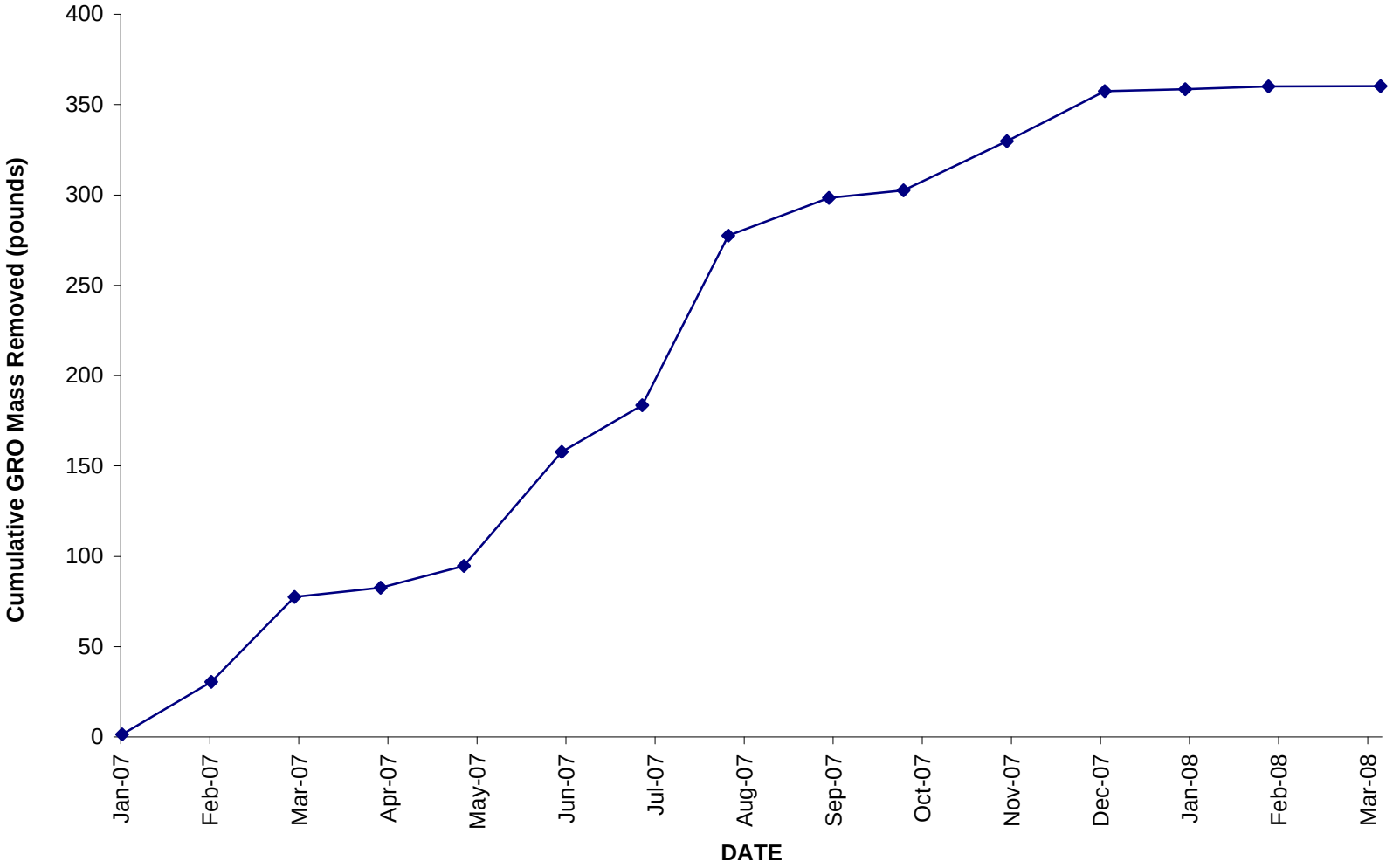


Figure 4
SVE System Cumulative GRO Mass Removed vs. Time
Station #2111, 1156 Davis Street, San Leandro, California



APPENDIX A

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

STRATUS
ENVIRONMENTAL, INC.

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

January 31, 2008

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

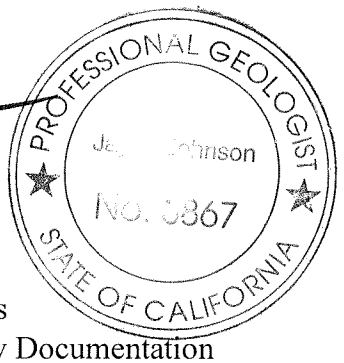
Data Submittal Prepared / Reviewed by: Sandy Hayes / Jay Johnson
Phone Number: (530) 676-6000
On-Site Supplier Representatives: Josh Slater

Date: January 8, 2008
Arrival: 03:30 *Departure:* 08:30
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

STRATOS ENVIRONMENTAL INC.

ORIGINAL

Global ID:
Site Address 1156 DAVIS ST
City SAN LEANDRO, CA
Sampled By: J. SLATER

Site Number ARCO 2111
Project No E2111
Project PM J. JOHNSON
Date 1-8-08

Signature Date: * = 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 (ppm)
MW-1	0725	15.97	12.5	26.03		4	2	SAMPLE ONLY		X				15.97	MW-1	0735	1.19
MW-2	0653	14.10	12	26.52		4	2	SAMPLED @ PORT					X	14.10	MW-2	0801	1.06
MW-3	0701	15.16	12	26.18		4	2	SAMPLE ONLY		X				15.16	MW-3	0710	2.02
MW-4	0553	14.10	10	21.51		4	2	SAMPLE ONLY		X				14.10	MW-4	0601	3.58
MW-5	0414	13.82	9.5	23.61		2	0.5	SAMPLE ONLY		X				13.82	MW-5	0425	1.80 *
MW-6	0405	13.08	10	20.40		2	0.5	NOT SAMPLED THIS QTR							MW-6		
MW-7	0630	13.90	12	26.25		4	2	SAMPLE ONLY		X				13.90	MW-7	0638	2.50
MW-8	0459	14.83	18	38.97	24.14	2	0.5	12.07	12		X			14.85	MW-8	0535	1.30
TB-2111-010808																0418	

* = WATER DUMPED ON SITE

Multiplier Values

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

pH calibration

4.00	7.00	10.00

Make Oakton Model

ENVIRONMENTAL, INC.

City SAN LEANDRO, CA
Site Sampled by J. SLATER

ORIGINAL

Project No. E2111
Project PM J. JOHNSON
Date Sampled 1-8-08

Well ID SAMPLE ONLY MW-1 0735				
purge start time BAILER NO ODOR				
	Temp C	pH	cond	gallons
time	18.1	5.60	683	∅
time				
time				
time				
purge stop time ORP 195				

Well ID SAMPLE ONLY MW-2 0801				
purge start time SAMPLED @ PORT				
	Temp C	pH	cond	gallons
time	14.0	4.22	680	∅
time				
time				
time				
pugre stop time ORP 137				

Well ID SAMPLE ONLY MW-3 0710				
purge start time BAILER NO ODOR				
	Temp C	pH	cond	gallons
time	18.0	6.94	630	∅
time				
time				
time				
purge stop time ORP 207				

Well ID SAMPLE ONLY MW-4 0601				
purge start time BAILER NO ODOR				
	Temp C	pH	cond	gallons
time	18.0	6.74	717	∅
time				
time				
time				
purge stop time ORP 202				

Well ID SAMPLE ONLY MW-5 0425				
purge start time BAILER NO ODOR				
	Temp C	pH	cond	gallons
time	17.0	6.91	566	∅
time				
time				
time				
purge stop time ORP 184				

Well ID SAMPLE ONLY MW-7 0638				
purge start time BAILER NO ODOR				
	Temp C	pH	cond	gallons
time	18.0	7.23	650	∅
time				
time				
time				
purge stop time ORP 194				

Well ID SAMPLE ONLY MW-8 0535				
purge start time BAILER NO ODOR				
	Temp C	pH	cond	gallons
time	17.3	6.91	608	∅
time	17.9	6.77	631	6
time	17.0	6.88	612	12
time				
purge stop time ORP 190				

Well ID				
purge start time				
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time				

Wellhead Observation Form

Account: _____

Sampled by: _____ Date: _____

Well ID	Box in good condition	Lock Missing (Replaced with new)	Water in Box	Bolts Missing	Bolts Stripped	Bolt-Holes Stripped	Cracked or Broken Lid	Cracked Box and/or Bolt - Holes	Misc.	Add'l -- Notes and Other Stuff
MW-1						X				
MW-2	X									
MW-3	X									
MW-4	X									
MW-5				X (2)						
MW-6			X							
MW-7				X						
MW-8	X									

Atlantic Richfield Company
bp
A BP affiliated 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:	0330	Temp:	40's
Off-site Time:	0830	Temp:	50's
Sky Conditions:	CLEAR		
Meteorological Events:			
Wind Speed:		Direction:	

Lab Name:	TestAmerica
Address:	885 Jarvis Drive
	Morgan Hill, CA 95937
Lab PM:	Lisa Race
Tele/Fax:	408-782-8156 408-782-6308 (fax)
BP/AR PM Contact:	Paul Supple
Address:	2010 Crow Canyon Place, Suite 150
	San Ramon, CA
Tele/Fax:	925-275-3506

BP/AR Facility No.:	2111
BP/AR Facility Address:	1156 Davis Street, San Leandro
Site Lat/Long:	
California Global ID No.:	T0600101764
Enfos Project No.:	
Provision or OOC (circle one)	Provision
Phase/WBS:	04-Monitoring
Sub Phase/Task:	03-Analytical
Cost Element:	01-Contractor labor

Consultant/Contractor:	Stratus Environmental, Inc.
Address:	3330 Cameron Park Drive, Suite 550
	Cameron Park, CA 95682
Consultant/Contractor Project No.:	E2111-03
Consultant/Contractor PM:	Jay Johnson
Tele/Fax:	(530) 676-6000 / (530) 676-6005
Report Type & QC Level:	Level 1 with EDF
E-mail EDD To:	shayes@stratusinc.net
Invoice to:	Atlantic Richfield Co.

Lab Bottle Order No:

Item No.	Sample Description	Time	Date 2008	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: 8260 GRO	8260 BTEX	8260 5 Oxy	8260 EDB	8260 1,2 DCA	8260 Ethanol	Sample Point Lat/Long and Comments
1	MW-1	0735	1/8		X			3				X		X	X	X	X	X	X	
2	MW-2	0801						3												
3	MW-3	0710						3												
4	MW-4	0601						3												
5	MW-5	0425						6												
6	MW-7	0638						3												
7	MW-8	0535						3												
8																				
9	TB-2111-010808	0418						2												HOLD
10																				

*Oxy= MTBE,TAME,ETBE,DIPE,TBA

Sampler's Name:	J. STATER
Sampler's Company:	STRATUS ENVIRONMENTAL
Shipment Date:	1-8-08
Shipment Method:	STRATUS
Shipment Tracking No:	

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
J. Stater / STRATUS	1-8-08	1005		1/8/08	1005

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

TestAmerica
ANALYTICAL TESTING CORPORATION

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

29 January, 2008

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

RE: ARCO #2111, San Leandro, CA
Work Order: MRA0414

Enclosed are the results of analyses for samples received by the laboratory on 01/08/08 19:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate # 2682

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.

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0414
3330 Cameron Park Dr., Suite 550	Project Number: N/P	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/29/08 10:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MRA0414-01	Water	01/08/08 07:35	01/08/08 19:50
MW-2	MRA0414-02	Water	01/08/08 08:01	01/08/08 19:50
MW-3	MRA0414-03	Water	01/08/08 07:10	01/08/08 19:50
MW-4	MRA0414-04	Water	01/08/08 06:01	01/08/08 19:50
MW-5	MRA0414-05	Water	01/08/08 04:25	01/08/08 19:50
MW-7	MRA0414-06	Water	01/08/08 06:38	01/08/08 19:50
MW-8	MRA0414-07	Water	01/08/08 05:35	01/08/08 19:50
TB--2111-010808	MRA0414-08	Water	01/08/08 16:18	01/08/08 19:50

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.

TestAmerica
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Morgan Hill, CA 95037
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FAX (408) 782-6308
www.testamericainc.com

Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0414
3330 Cameron Park Dr., Suite 550	Project Number: N/P	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/29/08 10:05

Volatiles Organic Compounds by 8260B/LUFT GC/MS

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MRA0414-01) Water Sampled: 01/08/08 07:35 Received: 01/08/08 19:50									
Gasoline Range Organics (C4-C12)	**140**	50	ug/l	1	8A11007	01/11/08	01/11/08	EPA 8260B/LUFT GC/MS	PV
tert-Amyl methyl ether	**2.5**	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	**74**	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**90**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*60-150*		"	"	"	"	
Surrogate: Toluene-d8		*109 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*	*55-130*		"	"	"	"	
MW-2 (MRA0414-02) Water Sampled: 01/08/08 08:01 Received: 01/08/08 19:50									
Gasoline Range Organics (C4-C12)	**1900**	1000	ug/l	20	8A11007	01/11/08	01/11/08	EPA 8260B/LUFT GC/MS	PV
tert-Amyl methyl ether	ND	10	"	"	"	"	"	"	
Benzene	**65**	10	"	"	"	"	"	"	
tert-Butyl alcohol	**2600**	400	"	"	"	"	"	"	
Di-isopropyl ether	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
Ethanol	ND	6000	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
Ethylbenzene	**37**	10	"	"	"	"	"	"	
Methyl tert-butyl ether	**1300**	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Xylenes (total)	**28**	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*60-150*		"	"	"	"	
Surrogate: Toluene-d8		*112 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*110 %*	*55-130*		"	"	"	"	

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(408) 776-9600
FAX (408) 782-6308
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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0414
3330 Cameron Park Dr., Suite 550	Project Number: N/P	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/29/08 10:05

Volatiles Organic Compounds by 8260B/LUFT GC/MS

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MRA0414-03) Water Sampled: 01/08/08 07:10 Received: 01/08/08 19:50									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	8A11007	01/11/08	01/11/08	EPA 8260B/LUFT GC/MS	
tert-Amyl methyl ether	**0.84**	0.50	"	"	"	"	"	"	
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	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**8.9**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*60-150*		"	"	"	"	
Surrogate: Toluene-d8		*107 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*55-130*		"	"	"	"	
MW-4 (MRA0414-04) Water Sampled: 01/08/08 06:01 Received: 01/08/08 19:50									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	8A11007	01/11/08	01/11/08	EPA 8260B/LUFT GC/MS	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
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	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**1.2**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*60-150*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*55-130*		"	"	"	"	

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Morgan Hill, CA 95037
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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0414
3330 Cameron Park Dr., Suite 550	Project Number: N/P	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/29/08 10:05

Volatiles Organic Compounds by 8260B/LUFT GC/MS

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MRA0414-05) Water Sampled: 01/08/08 04:25 Received: 01/08/08 19:50									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	8A11007	01/11/08	01/11/08	EPA 8260B/LUFT GC/MS	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	**220**	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**5.6**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*101 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*60-150*		"	"	"	"	
Surrogate: Toluene-d8		*108 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*55-130*		"	"	"	"	
MW-7 (MRA0414-06) Water Sampled: 01/08/08 06:38 Received: 01/08/08 19:50									
Gasoline Range Organics (C4-C12)	**5100**	2500	ug/l	50	8A15009	01/15/08	01/15/08	EPA 8260B/LUFT GC/MS	PV
tert-Amyl methyl ether	**32**	25	"	"	"	"	"	"	
Benzene	**45**	25	"	"	"	"	"	"	
tert-Butyl alcohol	**1400**	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	**6100**	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*60-150*		"	"	"	"	
Surrogate: Toluene-d8		*112 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97 %*	*55-130*		"	"	"	"	

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0414
3330 Cameron Park Dr., Suite 550	Project Number: N/P	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/29/08 10:05

Volatiles Organic Compounds by 8260B/LUFT GC/MS

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (MRA0414-07) Water Sampled: 01/08/08 05:35 Received: 01/08/08 19:50									
Gasoline Range Organics (C4-C12)	**51**	50	ug/l	1	8A15009	01/15/08	01/15/08	EPA 8260B/LUFT GC/MS	PV
tert-Amyl methyl ether	**0.80**	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	**59**	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	**49**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*60-150*		"	"	"	"	
Surrogate: Toluene-d8		*107 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99 %*	*55-130*		"	"	"	"	

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0414
3330 Cameron Park Dr., Suite 550	Project Number: N/P	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/29/08 10:05

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A11007 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Blank (8A11007-BLK1)				Prepared & Analyzed: 01/11/08						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
tert-Amyl methyl ether	ND	0.50	"							
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	"							
Surrogate: Dibromofluoromethane	*2.58*		"	*2.50*		*103*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.65*		"	*2.50*		*106*	*60-150*			
Surrogate: Toluene-d8	*2.75*		"	*2.50*		*110*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.59*		"	*2.50*		*104*	*55-130*			
Laboratory Control Sample (8A11007-BS1)				Prepared & Analyzed: 01/11/08						
tert-Amyl methyl ether	10.9	0.50	ug/l	10.0		109	75-125			
Benzene	9.04	0.50	"	10.0		90	75-120			
tert-Butyl alcohol	192	20	"	200		96	80-120			
Di-isopropyl ether	9.19	0.50	"	10.0		92	70-130			
1,2-Dibromoethane (EDB)	10.8	0.50	"	10.0		108	75-130			
1,2-Dichloroethane	9.87	0.50	"	10.0		99	65-130			
Ethanol	158	300	"	200		79	50-150			
Ethyl tert-butyl ether	10.4	0.50	"	10.0		104	75-130			
Ethylbenzene	10.6	0.50	"	10.0		106	80-125			
Methyl tert-butyl ether	10.5	0.50	"	10.0		105	80-130			
Toluene	10.4	0.50	"	10.0		104	80-120			
Xylenes (total)	32.8	0.50	"	30.0		109	80-125			
Surrogate: Dibromofluoromethane	*2.58*		"	*2.50*		*103*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.56*		"	*2.50*		*102*	*60-150*			
Surrogate: Toluene-d8	*2.71*		"	*2.50*		*108*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.70*		"	*2.50*		*108*	*55-130*			

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0414
3330 Cameron Park Dr., Suite 550	Project Number: N/P	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/29/08 10:05

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A11007 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Laboratory Control Sample (8A11007-BS2)				Prepared & Analyzed: 01/11/08						
Gasoline Range Organics (C4-C12)	462	50	ug/l	500		92	55-130			
Surrogate: Dibromofluoromethane	*2.60*		"	*2.50*		*104*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.49*		"	*2.50*		*100*	*60-150*			
Surrogate: Toluene-d8	*2.71*		"	*2.50*		*108*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.77*		"	*2.50*		*111*	*55-130*			
Laboratory Control Sample Dup (8A11007-BSD2)				Prepared & Analyzed: 01/11/08						
Gasoline Range Organics (C4-C12)	449	50	ug/l	500		90	55-130	3	20	
Surrogate: Dibromofluoromethane	*2.52*		"	*2.50*		*101*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.49*		"	*2.50*		*100*	*60-150*			
Surrogate: Toluene-d8	*2.73*		"	*2.50*		*109*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.72*		"	*2.50*		*109*	*55-130*			
Matrix Spike (8A11007-MS1)	**Source: MRA0414-05**			Prepared & Analyzed: 01/11/08						
Gasoline Range Organics (C4-C12)	624	50	ug/l	550	34.8	107	25-150			
tert-Amyl methyl ether	11.1	0.50	"	10.0	ND	111	75-140			
Benzene	10.2	0.50	"	10.0	ND	102	80-120			
tert-Butyl alcohol	417	20	"	200	222	97	80-125			
Di-isopropyl ether	9.54	0.50	"	10.0	ND	95	75-135			
1,2-Dibromoethane (EDB)	11.3	0.50	"	10.0	ND	113	80-135			
1,2-Dichloroethane	10.4	0.50	"	10.0	ND	104	65-145			
Ethanol	135	300	"	200	ND	67	50-150			
Ethyl tert-butyl ether	10.8	0.50	"	10.0	ND	108	80-135			
Ethylbenzene	10.7	0.50	"	10.0	ND	107	75-130			
Methyl tert-butyl ether	16.5	0.50	"	10.0	5.60	109	75-145			
Toluene	11.0	0.50	"	10.0	ND	110	80-125			
Xylenes (total)	33.0	0.50	"	30.0	ND	110	75-125			
Surrogate: Dibromofluoromethane	*2.68*		"	*2.50*		*107*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.54*		"	*2.50*		*102*	*60-150*			
Surrogate: Toluene-d8	*2.74*		"	*2.50*		*110*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.65*		"	*2.50*		*106*	*55-130*			

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0414
3330 Cameron Park Dr., Suite 550	Project Number: N/P	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/29/08 10:05

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A11007 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Matrix Spike Dup (8A11007-MSD1)	**Source: MRA0414-05**			Prepared & Analyzed: 01/11/08						
Gasoline Range Organics (C4-C12)	604	50	ug/l	550	34.8	104	25-150	3	20	
tert-Amyl methyl ether	11.1	0.50	"	10.0	ND	111	75-140	0.7	25	
Benzene	9.87	0.50	"	10.0	ND	99	80-120	3	20	
tert-Butyl alcohol	411	20	"	200	222	95	80-125	1	25	
Di-isopropyl ether	9.59	0.50	"	10.0	ND	96	75-135	0.5	25	
1,2-Dibromoethane (EDB)	11.2	0.50	"	10.0	ND	112	80-135	1	30	
1,2-Dichloroethane	10.4	0.50	"	10.0	ND	104	65-145	0.2	25	
Ethanol	124	300	"	200	ND	62	50-150	9	25	
Ethyl tert-butyl ether	10.7	0.50	"	10.0	ND	107	80-135	0.5	25	
Ethylbenzene	10.4	0.50	"	10.0	ND	104	75-130	3	20	
Methyl tert-butyl ether	16.6	0.50	"	10.0	5.60	110	75-145	0.2	25	
Toluene	10.4	0.50	"	10.0	ND	104	80-125	6	25	
Xylenes (total)	30.8	0.50	"	30.0	ND	102	75-125	7	20	
Surrogate: Dibromofluoromethane	*2.61*		"	*2.50*		*104*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.54*		"	*2.50*		*102*	*60-150*			
Surrogate: Toluene-d8	*2.78*		"	*2.50*		*111*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.68*		"	*2.50*		*107*	*55-130*			
Batch 8A15009 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Blank (8A15009-BLK1)				Prepared & Analyzed: 01/15/08						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
tert-Amyl methyl ether	ND	0.50	"							
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	"							
Surrogate: Dibromofluoromethane	*2.54*		"	*2.50*		*102*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.47*		"	*2.50*		*99*	*60-150*			

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0414
3330 Cameron Park Dr., Suite 550	Project Number: N/P	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/29/08 10:05

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A15009 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Blank (8A15009-BLK1)				Prepared & Analyzed: 01/15/08						
Surrogate: Toluene-d8	*2.70*		*ug/l*	*2.50*		*108*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.43*		"	*2.50*		*97*	*55-130*			
Laboratory Control Sample (8A15009-BS1)				Prepared & Analyzed: 01/15/08						
tert-Amyl methyl ether	11.0	0.50	ug/l	10.0		110	75-125			
Benzene	10.1	0.50	"	10.0		101	75-120			
tert-Butyl alcohol	188	20	"	200		94	80-120			
Di-isopropyl ether	9.57	0.50	"	10.0		96	70-130			
1,2-Dibromoethane (EDB)	11.2	0.50	"	10.0		112	75-130			
1,2-Dichloroethane	10.2	0.50	"	10.0		102	65-130			
Ethanol	154	300	"	200		77	50-150			
Ethyl tert-butyl ether	10.6	0.50	"	10.0		106	75-130			
Ethylbenzene	10.3	0.50	"	10.0		103	80-125			
Methyl tert-butyl ether	11.0	0.50	"	10.0		110	80-130			
Toluene	10.8	0.50	"	10.0		108	80-120			
Xylenes (total)	31.7	0.50	"	30.0		106	80-125			
Surrogate: Dibromofluoromethane	*2.61*		"	*2.50*		*104*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.51*		"	*2.50*		*100*	*60-150*			
Surrogate: Toluene-d8	*2.71*		"	*2.50*		*108*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.62*		"	*2.50*		*105*	*55-130*			
Laboratory Control Sample (8A15009-BS2)				Prepared & Analyzed: 01/15/08						
Gasoline Range Organics (C4-C12)	529	50	ug/l	500		106	55-130			
Surrogate: Dibromofluoromethane	*2.64*		"	*2.50*		*106*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.57*		"	*2.50*		*103*	*60-150*			
Surrogate: Toluene-d8	*2.69*		"	*2.50*		*108*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.73*		"	*2.50*		*109*	*55-130*			

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0414
3330 Cameron Park Dr., Suite 550	Project Number: N/P	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/29/08 10:05

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A15009 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Laboratory Control Sample Dup (8A15009-BSD2)				Prepared & Analyzed: 01/15/08						
Gasoline Range Organics (C4-C12)	516	50	ug/l	500		103	55-130	2	20	
Surrogate: Dibromofluoromethane	*2.50*		"	*2.50*		*100*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.49*		"	*2.50*		*100*	*60-150*			
Surrogate: Toluene-d8	*2.77*		"	*2.50*		*111*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.68*		"	*2.50*		*107*	*55-130*			
Matrix Spike (8A15009-MS1)	**Source: MRA0563-05**			Prepared & Analyzed: 01/15/08						
Gasoline Range Organics (C4-C12)	681	50	ug/l	550	47.6	115	25-150			
tert-Amyl methyl ether	10.8	0.50	"	10.0	ND	108	75-140			
Benzene	10.3	0.50	"	10.0	ND	103	80-120			
tert-Butyl alcohol	192	20	"	200	5.17	93	80-125			
Di-isopropyl ether	9.54	0.50	"	10.0	ND	95	75-135			
1,2-Dibromoethane (EDB)	11.0	0.50	"	10.0	ND	110	80-135			
1,2-Dichloroethane	10.2	0.50	"	10.0	ND	102	65-145			
Ethanol	163	300	"	200	ND	81	50-150			
Ethyl tert-butyl ether	10.5	0.50	"	10.0	ND	105	80-135			
Ethylbenzene	9.57	0.50	"	10.0	ND	96	75-130			
Methyl tert-butyl ether	10.6	0.50	"	10.0	0.140	104	75-145			
Toluene	11.0	0.50	"	10.0	ND	110	80-125			
Xylenes (total)	30.1	0.50	"	30.0	ND	100	75-125			
Surrogate: Dibromofluoromethane	*2.57*		"	*2.50*		*103*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.50*		"	*2.50*		*100*	*60-150*			
Surrogate: Toluene-d8	*2.73*		"	*2.50*		*109*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.45*		"	*2.50*		*98*	*55-130*			
Matrix Spike Dup (8A15009-MSD1)	**Source: MRA0563-05**			Prepared & Analyzed: 01/15/08						
Gasoline Range Organics (C4-C12)	726	50	ug/l	550	47.6	123	25-150	6	20	
tert-Amyl methyl ether	11.4	0.50	"	10.0	ND	114	75-140	6	25	
Benzene	10.7	0.50	"	10.0	ND	107	80-120	4	20	
tert-Butyl alcohol	204	20	"	200	5.17	100	80-125	6	25	
Di-isopropyl ether	10.2	0.50	"	10.0	ND	102	75-135	6	25	
1,2-Dibromoethane (EDB)	11.9	0.50	"	10.0	ND	119	80-135	8	30	
1,2-Dichloroethane	11.0	0.50	"	10.0	ND	110	65-145	8	25	
Ethanol	167	300	"	200	ND	83	50-150	3	25	
Ethyl tert-butyl ether	11.4	0.50	"	10.0	ND	114	80-135	9	25	
Ethylbenzene	10.0	0.50	"	10.0	ND	100	75-130	5	20	

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0414
3330 Cameron Park Dr., Suite 550	Project Number: N/P	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/29/08 10:05

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A15009 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Matrix Spike Dup (8A15009-MSD1)	**Source: MRA0563-05**			Prepared & Analyzed: 01/15/08						
Methyl tert-butyl ether	11.8	0.50	ug/l	10.0	0.140	116	75-145	11	25	
Toluene	11.4	0.50	"	10.0	ND	114	80-125	4	25	
Xylenes (total)	30.6	0.50	"	30.0	ND	102	75-125	1	20	
Surrogate: Dibromofluoromethane	*2.71*		"	*2.50*		*108*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.58*		"	*2.50*		*103*	*60-150*			
Surrogate: Toluene-d8	*2.77*		"	*2.50*		*111*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.43*		"	*2.50*		*97*	*55-130*			

TestAmerica
ANALYTICAL TESTING CORPORATION

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

Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0414
3330 Cameron Park Dr., Suite 550	Project Number: N/P	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/29/08 10:05

Notes and Definitions

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

Atlantic Richfield Company

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:	0330	Temp:	40's
Off-site Time:	0830	Temp:	50's
Sky Conditions:	CLEAR		
Meteorological Events:			
Wind Speed:		Direction:	

Lab Name:	TestAmerica
Address:	885 Jarvis Drive
	Morgan Hill, CA 95937
Lab PM:	Lisa Race
Tele/Fax:	408-782-8156 408-782-6308 (fax)
BP/AR PM Contact:	Paul Supple
Address:	2010 Crow Canyon Place, Suite 150
	San Ramon, CA
Tele/Fax:	925-275-3506

BP/AR Facility No.:	2111
BP/AR Facility Address:	1156 Davis Street, San Leandro
Site Lat/Long:	
California Global ID No.:	T0600101764
Enfos Project No.:	
Provision or OOC (circle one)	Provision
Phase/WBS:	04-Monitoring
Sub Phase/Task:	03-Analytical
Cost Element:	01-Contractor labor

Consultant/Contractor:	Stratus Environmental, Inc.
Address:	3330 Cameron Park Drive, Suite 550
	Cameron Park, CA 95682
Consultant/Contractor Project No.:	E2111-03
Consultant/Contractor PM:	Jay Johnson
Tele/Fax:	(530) 676-6000 / (530) 676-6005
Report Type & QC Level:	Level 1 with EDF
E-mail EDD To:	shayes@stratusinc.net
Invoice to:	Atlantic Richfield Co.

Lab Bottle Order No:

Item No.	Sample Description	Time	Date 2008	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No. MRA0414	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO	Requested Analysis: BTEX	Requested Analysis: 8260 S OXY	Requested Analysis: 8260 EDB	Requested Analysis: 8260 1,2 DCA	Requested Analysis: 8260 Ethanol	Sample Point Lat/Long and Comments
1	MW-1	0735	1/8		X		01	3				X		X	X	X	X	X	X	
2	MW-2	0801					02	3												
3	MW-3	0710					03	3												
4	MW-4	0601					04	3												
5	MW-5	0725					05	6												
6	MW-7	0638					06	3												
7	MW-8	0535					07	3												
8																				
9	TB-2111-010808	0418						2												HOLD
10																				

Sampler's Name:	J. SLATER
Sampler's Company:	STRATUS ENVIRONMENTAL
Shipment Date:	1-8-08
Shipment Method:	STRATUS
Shipment Tracking No:	

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
J. Slater / STRATUS	1-8-08	1005			
	1-8	1610		1/8/08	ASAP
	1-8-08	1950		1/8	1610
				1/8	0951

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

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 4.6 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARUP 2111
REC. BY (PRINT): D.V.
WORKORDER: MRA0414

DATE REC'D AT LAB: 1/8/08
TIME REC'D AT LAB: 1950
DATE LOGGED IN: 1 | 10 | 08

For Regulatory Purposes?
___ DRINKING WATER
___ WASTE WATER
✓ OTHER

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 / Sticker (Present) / Absent								
5. Airbill #:								
6. Sample Labels: (Present) / Absent								
7. Sample IDs: (Listed) / Not Listed on Chain-of-Custody								
8. Sample Condition: (Intact) / Broken* / Leaking*			1/8/08 DJ					
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: 5.6								
Correction Factor: -1.0								
Corrected Temp: 4.6								
Is corrected temp. 0-6°C? (Yes) / No**								
**Exception (If any): Metals / Perchlorate DFF on Ice or Problem COC								

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

APPENDIX B

GEOTRACKER UPLOAD CONFIRMATIONS

Electronic Submittal Information

UPLOADING A GEO_WELL FILE

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

Submittal Title:	**1Q08 GEO_WELL 2111**
Facility Global ID:	**T0600101764**
Facility Name:	**ARCO #2111**
Submittal Date/Time:	**4/9/2008 1:51:33 PM**
Confirmation Number:	**5894198358**

Back to Main Menu

Electronic Submittal Information

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

Your EDF file has been successfully uploaded!

Confirmation Number: 6211782634
Date/Time of Submittal: 4/9/2008 2:09:54 PM
Facility Global ID: T0600101764
Facility Name: ARCO #2111
Submittal Title: 1Q08 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 - **(PK)**

CONF #	TITLE	QUARTER
6211782634	1Q08 GW Monitoring	Q1 2008

SUBMITTED BY	SUBMIT DATE	STATUS
Broadbent & Associates, Inc.	4/9/2008	PENDING REVIEW

SAMPLE DETECTIONS REPORT

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

METHOD QA/QC REPORT

METHODS USED	8260FAB
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	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

SAMPLE	COLLECTED	DETECTIONS > REPDL
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)

STRATUS
ENVIRONMENTAL, INC.

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

February 12, 2008

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: 2 (January 7 and 15, 2008)

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 January 7, 2008.

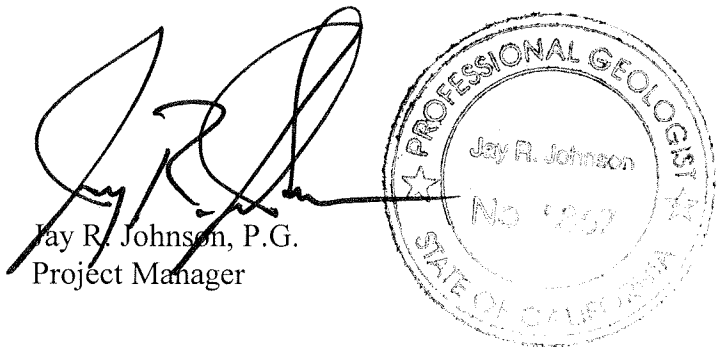
Variations from Scope of Work: The remediation systems were found non-functioning on January 7, 2008, due to high-water level alarm on the air stripper. The remediation systems were re-started momentarily on January 7, 2008 and shutdown after sampling, pending receipt of analytical results. Upon receipt of analytical results and compliance verification, the remediation systems were re-started on January 15, 2008.

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
Project 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: 1-7-08
Onsite Time: 0500
Offsite Time: 0815
Equipment Manufacturer/Model#

Technician: CHILL
Weather Conditions: Rain
Ambient Temperature: 45

System Information

System Status Upon Arrival: Operational ☐ Non-Operational ☒
System Status Upon Departure: Operational ☐ Non-Operational ☒ WENT FOR LABS
Electric Meter Reading: N/M
Hour Meter Reading: 1546
Totalizer Reading Prior to Air Stripper: 24820
PID Calibration Date: 1-7-08
Totalizer Reading After Air Stripper: 653000

Field Measurements

Parameter	Influent (after blower, 2111DPEAINF)	Air Stripper (2111ASAEFF)	System Influent (2111ASYSINF)	Stack Air Flow (2111AEFF)	Comments
Differential Pressure, "wc		20			
Air Velocity, FPM		2467			
Pipe Diameter, inches	3	4	4	3	
Air Flow Rate, cfm			200		
Applied Vacuum, "wc	20"Hg	.20	NA	NA	
Temperature, deg F		112	85		
PID Readings, ppmv	291	.5	86	0	PID for GAC-1: 2

Other Readings/Measurements

Well ID	% Open	Applied Vac., "Hg	Total depth, feet bgs	Stinger Depth, feet bgs			
V-1	25	18					
V-2	25	16					
V-3	25	17					
MW-1	100	15					
MW-3	100	16					
MW-7	100	17					
MW-5	100	15					

Signature: [signature]
Date: 1-7-08

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	1708 0645	02111AGAC1	1708 0632
02111ASAEFF	〃 0650	02111AEFF	〃 0630
02111ASYSINF	0640		
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: 1-7-08

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

ORIGINAL

Date: 1.7.08
Onsite Time: 0500
Offsite Time: 0815

Technician: CHILL
Weather Conditions: Rain
Ambient Temperature 45

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: 635200
No. of Carbon Vessels: 2
Lead Carbon Vessel Pressure (psi): 9

Effluent Water Characteristics
(Quarterly by Field Instrument)
pH: 7.91
Temperature: 8.7

Well ID	Hour Meter Reading	Totalizer Reading	Total Depth	Pump Depth	
MW-2		4090			

Sampling Information

Sample ID	Date & Time	Sample ID	Date & Time
02111DPEWINF	1708 0606	02111MW2WINF	1708 0612
02111ASWINF	0558		
02111ASWEFF	0554		
02111WGAC1	0550		
02111WEFF	0547		
TBZ111708	0630		

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

Notes:

Signature: [signature] Date: 1.7.08

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

ORIGINAL

Date: 1-15-08
Onsite Time: 0700
Offsite Time: 0900
Equipment Manufacturer/Model#

Technician: CHILL
Weather Conditions: Fog
Ambient Temperature: 40

System Information

System Status Upon Arrival: Operational ☐ Non-Operational ☒ Restart LAST OFF
System Status Upon Departure: Operational ☒ Non-Operational ☐
Electric Meter Reading: 395~99
Hour Meter Reading: 1546
Totalizer Reading Prior to Air Stripper: 25688
PID Calibration Date: 1-14-08
Totalizer Reading After Air Stripper: 653830

Field Measurements

Parameter	Influent (after blower, 2111DPEAINF)	Air Stripper (2111ASAEFF)	System Influent (2111ASYSINF)	Stack Air Flow (2111AEFF)	Comments
Differential Pressure, "wc		21			
Air Velocity, FPM					
Pipe Diameter, inches	3	4	4	3	
Air Flow Rate, cfm			180		
Applied Vacuum, ~~"wc~~ "Hg	24 "Hg	.35 "H2O	NA	NA	
Temperature, deg F					
PID Readings, ppmv	No Readings				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: [signature]
Date: 1/15/08

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: 1 1508

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

ORIGINAL

Date: 1-15-08
Onsite Time: 0700
Offsite Time: 0900

Technician: CHILL
Weather Conditions: Fog
Ambient Temperature: 40

System Status Upon Arrival: ☐ Operational ☒ Non-operational Restart After LAB3
System Status At Departure: ☒ Operational ☐ Non-operational
Transfer Pump: ☒ Operational ☐ Non-operational

Transfer Pump Hour Meter Reading: NA

Effluent Flow Totalizer Reading: 636041

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		4385			

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: Clean Air stripper Tower

Signature: [signature]
Date: 11508

ORIGINAL

RUSH

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

On-site Time: 0500	Temp: 45°
Off-site Time: 0515	Temp: 47
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: TestAmerica	
Address: 885 Jarvis Drive	
Morgan Hill, CA 95937	
Lab PM: Lisa Race	
Tele/Fax: 408-782-8156/ 408-782-6308	
BP/AR PM Contact: Paul Supple	
Address: 2010 Crow Canyon Place, Suite 150	
San Ramon, CA	
Tele/Fax: 925-275-3506/925-275-3815	
Lab Bottle Order No:	

BP/AR Facility No.: 2111	
BP/AR Facility Address: 1156 Davis St., San Leandro	
Site Lat/Long:	
California Global ID No.: T0600101764	
Enfos Project No.: G0C28-0023	
Provision or OOC (circle one) Provision	
Phase/WBS: 03-O&M	
Sub Phase/Task: 03-Analytical	
Cost Element: Subcontractor Cost	

Consultant/Contractor: Stratus Environmental, Inc.	
Address: 3330 Cameron Park Drive, Suite 550	
Cameron Park, CA 95682	
Consultant/Contractor Project No.: E2111-03	
Consultant/Contractor PM: Jay Johnson	
Tele/Fax: (530) 676-6000 / (530) 676-6005	
Report Type & QC Level: Level 1 with EDF	
E-mail EDD To: shayes@stratusinc.net	
Invoice to: Atlantic Richfield Co.	

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO by 8015	Requested Analysis: BTEX by 8260	Requested Analysis: MTBE by 8260	Turnaround Time: 24-hours	Turnaround Time: Standard	Sample Point Lat/Long and Comments
1	02111DPEAINF	0645	1-7-08			X		2						X	X	X		X	
2	02111ASAEFF	0650				X		2						X	X	X		X	
3	02111ASYSINF	0640				X		2						X	X	X		X	
4	02111AGAC1	0632				X		2						X	X	X	X		
5	02111AEFF	0630				X		2						X	X	X			
6																			
7																			
8																			
9																			
10																			

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
	1/7/08	0945		1/7/08	09

Sampler's Name: Chris Hill

Sampler's Company: Stratus Environmental, Inc.

Shipment Date: 1-7-08

Shipment Method: Hand

Shipment Tracking No:

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

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

Atlantic Richfield Company
bp
A BP affiliated company

Chain of Custody Record

ORIGINAL RUSH

On-site Time: 0500	Temp: 45
Off-site Time: 1815	Temp: 47
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

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

Lab Name: TestAmerica	BP/AR Facility No.: 2111	Consultant/Contractor: Stratus Environmental, Inc.
Address: 885 Jarvis Drive	BP/AR Facility Address: 1156 Davis St., 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	Enfos Project No.: G0C28-0023	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: 03-O&M	Report Type & QC Level: Level 1 with EDF
San Ramon, CA	Sub Phase/Task: 03-Analytical	E-mail EDD To: shayes@stratusinc.net
Tele/Fax: 925-275-3506/925-275-3815	Cost Element: Subcontractor Cost	Invoice to: Atlantic Richfield Co.

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO by 8260B	Requested Analysis: BTEX by 8260 B	Requested Analysis: 5-oxygenates by 8260 B	Turnaround Time: 24-hours	Turnaround Time: Standard	Sample Point Lat/Long and Comments
1	02111DP~~E~~WINF	0606	1/3/08		x			3				X		x	x	x		x	5-oxygenates requested are MTBE, DIPE, ETBE, TAME, and TBA.
2	02111ASWINF	0558			x			3				X		x	x	x		x	
3	02111ASWEFF	0554			x			3				X		x	x	x		x	
4	02111WGAC1	0550			x			3				X		x	x	x		x	
5	02111WEFF	0547			x			3				X		x	x	x	x		
6	02111MW2WINF 0612	0608	1/3/08		x			3				Y		x	x	x		x	
7																			
8																			
9																			
10	TB21111208	0630	1/3/08					2											Hold

Sampler's Name: Chris Hill	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Time
Sampler's Company: Stratus Environmental, Inc.	Stratus	1/7/08	0945	Client	1/7/08 0945
Shipment Date: 1-7-08					
Shipment Method: Stratus					
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

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22 January, 2008

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

RE: ARCO #2111, San Leandro, CA
Work Order: MRA0310

Enclosed are the results of analyses for samples received by the laboratory on 01/07/08 17:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate # 2682

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.

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0310
3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/22/08 14:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
02111DPEWINF	MRA0310-01	Water	01/07/08 06:06	01/07/08 17:30
02111ASWINF	MRA0310-02	Water	01/07/08 05:58	01/07/08 17:30
02111ASWEFF	MRA0310-03	Water	01/07/08 05:54	01/07/08 17:30
02111WGAC1	MRA0310-04	Water	01/07/08 05:50	01/07/08 17:30
02111WEFF	MRA0310-05	Water	01/07/08 05:47	01/07/08 17:30
02111MW2WINF	MRA0310-06	Water	01/07/08 06:12	01/07/08 17:30
TB21111208	MRA0310-07	Water	01/07/08 06:30	01/07/08 17:30

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.

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3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/22/08 14:13

Volatiles Organic Compounds by 8260B/LUFT GC/MS

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111DPEWINF (MRA0310-01) Water	**Sampled: 01/07/08 06:06**		**Received: 01/07/08 17:30**						
Gasoline Range Organics (C4-C12)	**1200**	50	ug/l	1	8A09017	01/09/08	01/09/08	EPA 8260B/LUFT GC/MS	PV
tert-Amyl methyl ether	**11**	0.50	"	"	"	"	"	"	
Benzene	**15**	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	**2800**	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	**19**	0.50	"	"	"	"	"	"	
Toluene	**13**	0.50	"	"	"	"	"	"	
Xylenes (total)	**29**	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*98 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*60-150*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*55-130*		"	"	"	"	
02111DPEWINF (MRA0310-01RE1) Water	**Sampled: 01/07/08 06:06**		**Received: 01/07/08 17:30**						
Methyl tert-butyl ether	**2100**	25	ug/l	50	8A10021	01/10/08	01/11/08	EPA 8260B/LUFT GC/MS	
Surrogate: Dibromofluoromethane		*100 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*60-150*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94 %*	*55-130*		"	"	"	"	
02111ASWINF (MRA0310-02) Water	**Sampled: 01/07/08 05:58**		**Received: 01/07/08 17:30**						
Gasoline Range Organics (C4-C12)	**830**	50	ug/l	1	8A09017	01/09/08	01/09/08	EPA 8260B/LUFT GC/MS	PV
tert-Amyl methyl ether	**6.8**	0.50	"	"	"	"	"	"	
Benzene	**12**	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	**1900**	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	**7.8**	0.50	"	"	"	"	"	"	
Toluene	**3.2**	0.50	"	"	"	"	"	"	
Xylenes (total)	**8.5**	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*98 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*60-150*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*55-130*		"	"	"	"	

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0310
3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/22/08 14:13

Volatiles Organic Compounds by 8260B/LUFT GC/MS

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111ASWINF (MRA0310-02RE1) Water	**Sampled: 01/07/08 05:58**		**Received: 01/07/08 17:30**						
Methyl tert-butyl ether	**1300**	10	ug/l	20	8A10021	01/10/08	01/11/08	EPA 8260B/LUFT GC/MS	
Surrogate: Dibromofluoromethane		*101 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*60-150*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*55-130*		"	"	"	"	
02111ASWEFF (MRA0310-03) Water	**Sampled: 01/07/08 05:54**		**Received: 01/07/08 17:30**						
Gasoline Range Organics (C4-C12)	**83**	50	ug/l	1	8A10011	01/10/08	01/10/08	EPA 8260B/LUFT GC/MS	
tert-Amyl methyl ether	**0.60**	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	**590**	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**110**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*87 %*	*60-150*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99 %*	*55-130*		"	"	"	"	
02111WGAC1 (MRA0310-04) Water	**Sampled: 01/07/08 05:50**		**Received: 01/07/08 17:30**						
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	8A21014	01/21/08	01/21/08	EPA 8260B/LUFT GC/MS	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
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		*104 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*60-150*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*75-120*		"	"	"	"	

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0310
3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/22/08 14:13

Volatiles Organic Compounds by 8260B/LUFT GC/MS

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111WGAC1 (MRA0310-04) Water Sampled: 01/07/08 05:50 Received: 01/07/08 17:30									
Surrogate: 4-Bromofluorobenzene		*96 %*	*55-130*		*8A21014*	*01/21/08*	*01/21/08*	*EPA 8260B/LUFT GC/MS*	
02111WEFF (MRA0310-05) Water Sampled: 01/07/08 05:47 Received: 01/07/08 17:30									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	8A09008	01/09/08	01/09/08	EPA 8260B/LUFT GC/MS	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
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 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*60-150*		"	"	"	"	
Surrogate: Toluene-d8		*95 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92 %*	*55-130*		"	"	"	"	
02111MW2WINF (MRA0310-06) Water Sampled: 01/07/08 06:12 Received: 01/07/08 17:30									
Gasoline Range Organics (C4-C12)	**5700**	500	ug/l	10	8A10011	01/10/08	01/10/08	EPA 8260B/LUFT GC/MS	
tert-Amyl methyl ether	**13**	5.0	"	"	"	"	"	"	
Benzene	**110**	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	**4100**	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**120**	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**1800**	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	**88**	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*98 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*87 %*	*60-150*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*55-130*		"	"	"	"	

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3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/22/08 14:13

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A09008 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Blank (8A09008-BLK1)				Prepared & Analyzed: 01/09/08						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
tert-Amyl methyl ether	ND	0.50	"							
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	*2.37*		"	*2.50*		*95*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.71*		"	*2.50*		*108*	*60-150*			
Surrogate: Toluene-d8	*2.39*		"	*2.50*		*96*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.25*		"	*2.50*		*90*	*55-130*			
Laboratory Control Sample (8A09008-BS1)				Prepared & Analyzed: 01/09/08						
tert-Amyl methyl ether	11.9	0.50	ug/l	10.0		119	75-125			
Benzene	10.1	0.50	"	10.0		101	75-120			
tert-Butyl alcohol	201	20	"	200		101	80-120			
Di-isopropyl ether	11.1	0.50	"	10.0		111	70-130			
Ethyl tert-butyl ether	10.8	0.50	"	10.0		108	75-130			
Ethylbenzene	11.0	0.50	"	10.0		110	80-125			
Methyl tert-butyl ether	10.7	0.50	"	10.0		107	80-130			
Toluene	10.3	0.50	"	10.0		103	80-120			
Xylenes (total)	34.2	0.50	"	30.0		114	80-125			
Surrogate: Dibromofluoromethane	*2.52*		"	*2.50*		*101*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.56*		"	*2.50*		*102*	*60-150*			
Surrogate: Toluene-d8	*2.55*		"	*2.50*		*102*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.66*		"	*2.50*		*106*	*55-130*			

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3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/22/08 14:13

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A09008 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Laboratory Control Sample (8A09008-BS2)				Prepared & Analyzed: 01/09/08						
Gasoline Range Organics (C4-C12)	513	50	ug/l	500		103	55-130			
Surrogate: Dibromofluoromethane	*2.37*		"	*2.50*		*95*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.65*		"	*2.50*		*106*	*60-150*			
Surrogate: Toluene-d8	*2.63*		"	*2.50*		*105*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.64*		"	*2.50*		*106*	*55-130*			
Laboratory Control Sample Dup (8A09008-BSD2)				Prepared & Analyzed: 01/09/08						
Gasoline Range Organics (C4-C12)	505	50	ug/l	500		101	55-130	2	20	
Surrogate: Dibromofluoromethane	*2.41*		"	*2.50*		*96*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.61*		"	*2.50*		*104*	*60-150*			
Surrogate: Toluene-d8	*2.61*		"	*2.50*		*104*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.65*		"	*2.50*		*106*	*55-130*			
Matrix Spike (8A09008-MS1)	**Source: MRA0285-04**			Prepared & Analyzed: 01/09/08						**BZ**
Gasoline Range Organics (C4-C12)	654	50	ug/l	550	ND	119	25-150			
tert-Amyl methyl ether	11.1	0.50	"	10.0	ND	111	75-140			
Benzene	10.2	0.50	"	10.0	ND	102	80-120			
tert-Butyl alcohol	200	20	"	200	ND	100	80-125			
Di-isopropyl ether	11.1	0.50	"	10.0	ND	111	75-135			
Ethyl tert-butyl ether	10.8	0.50	"	10.0	ND	108	80-135			
Ethylbenzene	11.4	0.50	"	10.0	ND	114	75-130			
Methyl tert-butyl ether	10.6	0.50	"	10.0	ND	106	75-145			
Toluene	10.3	0.50	"	10.0	ND	103	80-125			
Xylenes (total)	35.6	0.50	"	30.0	ND	119	75-125			
Surrogate: Dibromofluoromethane	*2.49*		"	*2.50*		*100*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.56*		"	*2.50*		*102*	*60-150*			
Surrogate: Toluene-d8	*2.48*		"	*2.50*		*99*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.71*		"	*2.50*		*108*	*55-130*			

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0310
3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/22/08 14:13

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A09008 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Matrix Spike Dup (8A09008-MSD1)	**Source: MRA0285-04**			Prepared & Analyzed: 01/09/08						**BZ**
Gasoline Range Organics (C4-C12)	531	50	ug/l	550	ND	97	25-150	21	20	BA
tert-Amyl methyl ether	11.2	0.50	"	10.0	ND	112	75-140	0.2	25	
Benzene	10.3	0.50	"	10.0	ND	103	80-120	1	20	
tert-Butyl alcohol	201	20	"	200	ND	100	80-125	0.3	25	
Di-isopropyl ether	11.1	0.50	"	10.0	ND	111	75-135	0.3	25	
Ethyl tert-butyl ether	10.9	0.50	"	10.0	ND	109	80-135	0.8	25	
Ethylbenzene	10.9	0.50	"	10.0	ND	109	75-130	5	20	
Methyl tert-butyl ether	10.7	0.50	"	10.0	ND	107	75-145	1	25	
Toluene	10.4	0.50	"	10.0	ND	104	80-125	0.7	25	
Xylenes (total)	33.9	0.50	"	30.0	ND	113	75-125	5	20	
Surrogate: Dibromofluoromethane	*2.45*		"	*2.50*		*98*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.57*		"	*2.50*		*103*	*60-150*			
Surrogate: Toluene-d8	*2.49*		"	*2.50*		*100*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.55*		"	*2.50*		*102*	*55-130*			
Batch 8A09017 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Blank (8A09017-BLK1)				Prepared & Analyzed: 01/09/08						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
tert-Amyl methyl ether	ND	0.50	"							
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	*2.35*		"	*2.50*		*94*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.66*		"	*2.50*		*106*	*60-150*			
Surrogate: Toluene-d8	*2.36*		"	*2.50*		*94*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.28*		"	*2.50*		*91*	*55-130*			

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0310
3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/22/08 14:13

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A09017 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Laboratory Control Sample (8A09017-BS1)				Prepared & Analyzed: 01/09/08						
tert-Amyl methyl ether	10.3	0.50	ug/l	10.0		103	75-125			
Benzene	9.47	0.50	"	10.0		95	75-120			
tert-Butyl alcohol	179	20	"	200		90	80-120			
Di-isopropyl ether	10.3	0.50	"	10.0		103	70-130			
Ethyl tert-butyl ether	10.0	0.50	"	10.0		100	75-130			
Ethylbenzene	10.8	0.50	"	10.0		108	80-125			
Methyl tert-butyl ether	9.83	0.50	"	10.0		98	80-130			
Toluene	9.53	0.50	"	10.0		95	80-120			
Xylenes (total)	33.3	0.50	"	30.0		111	80-125			
Surrogate: Dibromofluoromethane	*2.47*		"	*2.50*		*99*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.59*		"	*2.50*		*104*	*60-150*			
Surrogate: Toluene-d8	*2.50*		"	*2.50*		*100*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.74*		"	*2.50*		*110*	*55-130*			
Laboratory Control Sample (8A09017-BS2)				Prepared & Analyzed: 01/09/08						
Gasoline Range Organics (C4-C12)	439	50	ug/l	500		88	55-130			
Surrogate: Dibromofluoromethane	*2.41*		"	*2.50*		*96*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.63*		"	*2.50*		*105*	*60-150*			
Surrogate: Toluene-d8	*2.61*		"	*2.50*		*104*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.68*		"	*2.50*		*107*	*55-130*			
Laboratory Control Sample Dup (8A09017-BSD2)				Prepared & Analyzed: 01/09/08						
Gasoline Range Organics (C4-C12)	450	50	ug/l	500		90	55-130	2	20	
Surrogate: Dibromofluoromethane	*2.37*		"	*2.50*		*95*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.61*		"	*2.50*		*104*	*60-150*			
Surrogate: Toluene-d8	*2.56*		"	*2.50*		*102*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.68*		"	*2.50*		*107*	*55-130*			

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3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/22/08 14:13

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A09017 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Matrix Spike (8A09017-MS1)	**Source: MRA0310-01**			Prepared & Analyzed: 01/09/08						
Gasoline Range Organics (C4-C12)	1730	50	ug/l	550	1220	93	25-150			
tert-Amyl methyl ether	23.2	0.50	"	10.0	11.2	120	75-140			
Benzene	24.5	0.50	"	10.0	15.2	93	80-120			
tert-Butyl alcohol	3010	20	"	200	2780	117	80-125			BB
Di-isopropyl ether	11.5	0.50	"	10.0	ND	115	75-135			
Ethyl tert-butyl ether	11.3	0.50	"	10.0	ND	113	80-135			
Ethylbenzene	28.8	0.50	"	10.0	18.7	101	75-130			
Methyl tert-butyl ether	939	0.50	"	10.0	917	217	75-145			BB, EY
Toluene	23.0	0.50	"	10.0	13.4	96	80-125			
Xylenes (total)	62.2	0.50	"	30.0	29.2	110	75-125			
Surrogate: Dibromofluoromethane	*2.56*		"	*2.50*		*102*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.63*		"	*2.50*		*105*	*60-150*			
Surrogate: Toluene-d8	*2.50*		"	*2.50*		*100*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.73*		"	*2.50*		*109*	*55-130*			
Matrix Spike Dup (8A09017-MSD1)	**Source: MRA0310-01**			Prepared & Analyzed: 01/09/08						
Gasoline Range Organics (C4-C12)	1950	50	ug/l	550	1220	133	25-150	12	20	
tert-Amyl methyl ether	25.6	0.50	"	10.0	11.2	144	75-140	10	25	LM,AY
Benzene	26.1	0.50	"	10.0	15.2	109	80-120	6	20	
tert-Butyl alcohol	3230	20	"	200	2780	224	80-125	7	25	BB
Di-isopropyl ether	12.4	0.50	"	10.0	ND	124	75-135	8	25	
Ethyl tert-butyl ether	12.3	0.50	"	10.0	ND	123	80-135	9	25	
Ethylbenzene	29.3	0.50	"	10.0	18.7	106	75-130	2	20	
Methyl tert-butyl ether	997	0.50	"	10.0	917	796	75-145	6	25	EY, BB
Toluene	24.6	0.50	"	10.0	13.4	112	80-125	7	25	
Xylenes (total)	63.0	0.50	"	30.0	29.2	113	75-125	1	20	
Surrogate: Dibromofluoromethane	*2.54*		"	*2.50*		*102*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.68*		"	*2.50*		*107*	*60-150*			
Surrogate: Toluene-d8	*2.55*		"	*2.50*		*102*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.68*		"	*2.50*		*107*	*55-130*			

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0310
3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/22/08 14:13

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A10011 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Blank (8A10011-BLK1)				Prepared & Analyzed: 01/10/08						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
tert-Amyl methyl ether	ND	0.50	"							
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	*2.38*		"	*2.50*		*95*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.18*		"	*2.50*		*87*	*60-150*			
Surrogate: Toluene-d8	*2.48*		"	*2.50*		*99*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.29*		"	*2.50*		*92*	*55-130*			
Laboratory Control Sample (8A10011-BS1)				Prepared & Analyzed: 01/10/08						
tert-Amyl methyl ether	11.2	0.50	ug/l	10.0		112	75-125			
Benzene	10.8	0.50	"	10.0		108	75-120			
tert-Butyl alcohol	199	20	"	200		100	80-120			
Di-isopropyl ether	10.3	0.50	"	10.0		103	70-130			
Ethyl tert-butyl ether	10.3	0.50	"	10.0		103	75-130			
Ethylbenzene	10.6	0.50	"	10.0		106	80-125			
Methyl tert-butyl ether	10.5	0.50	"	10.0		105	80-130			
Toluene	11.2	0.50	"	10.0		112	80-120			
Xylenes (total)	34.6	0.50	"	30.0		116	80-125			
Surrogate: Dibromofluoromethane	*2.43*		"	*2.50*		*97*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.17*		"	*2.50*		*87*	*60-150*			
Surrogate: Toluene-d8	*2.63*		"	*2.50*		*105*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.53*		"	*2.50*		*101*	*55-130*			

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3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/22/08 14:13

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A10011 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Laboratory Control Sample (8A10011-BS2)				Prepared & Analyzed: 01/10/08						
Gasoline Range Organics (C4-C12)	411	50	ug/l	500		82	55-130			
Surrogate: Dibromofluoromethane	*2.29*		"	*2.50*		*92*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.26*		"	*2.50*		*90*	*60-150*			
Surrogate: Toluene-d8	*2.63*		"	*2.50*		*105*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.55*		"	*2.50*		*102*	*55-130*			
Laboratory Control Sample Dup (8A10011-BSD2)				Prepared & Analyzed: 01/10/08						
Gasoline Range Organics (C4-C12)	403	50	ug/l	500		81	55-130	2	20	
Surrogate: Dibromofluoromethane	*2.30*		"	*2.50*		*92*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.01*		"	*2.50*		*80*	*60-150*			
Surrogate: Toluene-d8	*2.62*		"	*2.50*		*105*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.48*		"	*2.50*		*99*	*55-130*			
Matrix Spike (8A10011-MS1)	**Source: MRA0311-05**			Prepared & Analyzed: 01/10/08						
Gasoline Range Organics (C4-C12)	586	50	ug/l	550	ND	106	25-150			
tert-Amyl methyl ether	11.8	0.50	"	10.0	ND	118	75-140			
Benzene	11.2	0.50	"	10.0	ND	112	80-120			
tert-Butyl alcohol	205	20	"	200	4.52	100	80-125			
Di-isopropyl ether	10.8	0.50	"	10.0	ND	108	75-135			
Ethyl tert-butyl ether	11.0	0.50	"	10.0	ND	110	80-135			
Ethylbenzene	10.9	0.50	"	10.0	ND	109	75-130			
Methyl tert-butyl ether	12.9	0.50	"	10.0	2.07	108	75-145			
Toluene	11.4	0.50	"	10.0	ND	114	80-125			
Xylenes (total)	35.2	0.50	"	30.0	ND	117	75-125			
Surrogate: Dibromofluoromethane	*2.33*		"	*2.50*		*93*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.04*		"	*2.50*		*82*	*60-150*			
Surrogate: Toluene-d8	*2.61*		"	*2.50*		*104*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.58*		"	*2.50*		*103*	*55-130*			

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3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/22/08 14:13

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A10011 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Matrix Spike Dup (8A10011-MSD1)	**Source: MRA0311-05**			Prepared & Analyzed: 01/10/08						
Gasoline Range Organics (C4-C12)	525	50	ug/l	550	ND	95	25-150	11	20	
tert-Amyl methyl ether	11.6	0.50	"	10.0	ND	116	75-140	1	25	
Benzene	11.2	0.50	"	10.0	ND	112	80-120	0.4	20	
tert-Butyl alcohol	199	20	"	200	4.52	97	80-125	3	25	
Di-isopropyl ether	10.5	0.50	"	10.0	ND	105	75-135	3	25	
Ethyl tert-butyl ether	10.7	0.50	"	10.0	ND	107	80-135	2	25	
Ethylbenzene	10.7	0.50	"	10.0	ND	107	75-130	2	20	
Methyl tert-butyl ether	12.7	0.50	"	10.0	2.07	107	75-145	1	25	
Toluene	11.4	0.50	"	10.0	ND	114	80-125	0.3	25	
Xylenes (total)	34.8	0.50	"	30.0	ND	116	75-125	1	20	
Surrogate: Dibromofluoromethane	*2.38*		"	*2.50*		*95*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.07*		"	*2.50*		*83*	*60-150*			
Surrogate: Toluene-d8	*2.62*		"	*2.50*		*105*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.55*		"	*2.50*		*102*	*55-130*			
Batch 8A10021 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Blank (8A10021-BLK1)				Prepared & Analyzed: 01/10/08						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
tert-Amyl methyl ether	ND	0.50	"							
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	*2.56*		"	*2.50*		*102*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.52*		"	*2.50*		*101*	*60-150*			
Surrogate: Toluene-d8	*2.71*		"	*2.50*		*108*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.57*		"	*2.50*		*103*	*55-130*			

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3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/22/08 14:13

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A10021 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Laboratory Control Sample (8A10021-BS1)				Prepared & Analyzed: 01/10/08						
tert-Amyl methyl ether	11.2	0.50	ug/l	10.0		112	75-125			
Benzene	10.3	0.50	"	10.0		103	75-120			
tert-Butyl alcohol	199	20	"	200		99	80-120			
Di-isopropyl ether	9.62	0.50	"	10.0		96	70-130			
Ethyl tert-butyl ether	10.8	0.50	"	10.0		108	75-130			
Ethylbenzene	11.0	0.50	"	10.0		110	80-125			
Methyl tert-butyl ether	11.1	0.50	"	10.0		111	80-130			
Toluene	11.2	0.50	"	10.0		112	80-120			
Xylenes (total)	34.0	0.50	"	30.0		113	80-125			
Surrogate: Dibromofluoromethane	*2.61*		"	*2.50*		*104*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.52*		"	*2.50*		*101*	*60-150*			
Surrogate: Toluene-d8	*2.75*		"	*2.50*		*110*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.65*		"	*2.50*		*106*	*55-130*			
Laboratory Control Sample (8A10021-BS2)				Prepared & Analyzed: 01/10/08						
Gasoline Range Organics (C4-C12)	433	50	ug/l	500		87	55-130			
Surrogate: Dibromofluoromethane	*2.59*		"	*2.50*		*104*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.57*		"	*2.50*		*103*	*60-150*			
Surrogate: Toluene-d8	*2.80*		"	*2.50*		*112*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.79*		"	*2.50*		*112*	*55-130*			
Laboratory Control Sample Dup (8A10021-BSD2)				Prepared & Analyzed: 01/10/08						
Gasoline Range Organics (C4-C12)	427	50	ug/l	500		85	55-130	1	20	
Surrogate: Dibromofluoromethane	*2.52*		"	*2.50*		*101*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.53*		"	*2.50*		*101*	*60-150*			
Surrogate: Toluene-d8	*2.81*		"	*2.50*		*112*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.72*		"	*2.50*		*109*	*55-130*			

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0310
3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/22/08 14:13

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A10021 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Matrix Spike (8A10021-MS1)	**Source: MRA0306-07**			Prepared & Analyzed: 01/10/08						
Gasoline Range Organics (C4-C12)	10600	500	ug/l	5500	2620	144	25-150			
tert-Amyl methyl ether	131	5.0	"	100	ND	131	75-140			
Benzene	1140	5.0	"	100	1000	133	80-120			BB, EY
tert-Butyl alcohol	2260	200	"	2000	ND	113	80-125			
Di-isopropyl ether	115	5.0	"	100	ND	115	75-135			
Ethyl tert-butyl ether	128	5.0	"	100	ND	128	80-135			
Ethylbenzene	371	5.0	"	100	229	142	75-130			LM,AY
Methyl tert-butyl ether	140	5.0	"	100	8.90	131	75-145			
Toluene	143	5.0	"	100	17.1	126	80-125			LM,AY
Xylenes (total)	452	5.0	"	300	67.6	128	75-125			LM,AY
Surrogate: Dibromofluoromethane	*2.60*		"	*2.50*		*104*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.63*		"	*2.50*		*105*	*60-150*			
Surrogate: Toluene-d8	*2.79*		"	*2.50*		*112*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.69*		"	*2.50*		*108*	*55-130*			
Matrix Spike Dup (8A10021-MSD1)	**Source: MRA0306-07**			Prepared & Analyzed: 01/10/08						
Gasoline Range Organics (C4-C12)	8560	500	ug/l	5500	2620	108	25-150	21	20	BA
tert-Amyl methyl ether	114	5.0	"	100	ND	114	75-140	14	25	
Benzene	1130	5.0	"	100	1000	127	80-120	0.5	20	BB, EY
tert-Butyl alcohol	1900	200	"	2000	ND	95	80-125	17	25	
Di-isopropyl ether	98.0	5.0	"	100	ND	98	75-135	16	25	
Ethyl tert-butyl ether	112	5.0	"	100	ND	112	80-135	13	25	
Ethylbenzene	345	5.0	"	100	229	116	75-130	7	20	
Methyl tert-butyl ether	121	5.0	"	100	8.90	112	75-145	15	25	
Toluene	125	5.0	"	100	17.1	108	80-125	14	25	
Xylenes (total)	398	5.0	"	300	67.6	110	75-125	13	20	
Surrogate: Dibromofluoromethane	*2.65*		"	*2.50*		*106*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.62*		"	*2.50*		*105*	*60-150*			
Surrogate: Toluene-d8	*2.75*		"	*2.50*		*110*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.57*		"	*2.50*		*103*	*55-130*			

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0310
3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/22/08 14:13

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A21014 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Blank (8A21014-BLK1)				Prepared & Analyzed: 01/21/08						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
tert-Amyl methyl ether	ND	0.50	"							
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	*2.54*		"	*2.50*		*102*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.62*		"	*2.50*		*105*	*60-150*			
Surrogate: Toluene-d8	*2.66*		"	*2.50*		*106*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.47*		"	*2.50*		*99*	*55-130*			
Laboratory Control Sample (8A21014-BS1)				Prepared & Analyzed: 01/21/08						
tert-Amyl methyl ether	9.56	0.50	ug/l	10.0		96	75-125			
Benzene	9.67	0.50	"	10.0		97	75-120			
tert-Butyl alcohol	188	20	"	200		94	80-120			
Di-isopropyl ether	8.88	0.50	"	10.0		89	70-130			
Ethyl tert-butyl ether	9.45	0.50	"	10.0		94	75-130			
Ethylbenzene	10.4	0.50	"	10.0		104	80-125			
Methyl tert-butyl ether	9.46	0.50	"	10.0		95	80-130			
Toluene	10.4	0.50	"	10.0		104	80-120			
Xylenes (total)	31.4	0.50	"	30.0		105	80-125			
Surrogate: Dibromofluoromethane	*2.48*		"	*2.50*		*99*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.29*		"	*2.50*		*92*	*60-150*			
Surrogate: Toluene-d8	*2.72*		"	*2.50*		*109*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.49*		"	*2.50*		*100*	*55-130*			

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0310
3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/22/08 14:13

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A21014 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Laboratory Control Sample (8A21014-BS2)				Prepared & Analyzed: 01/21/08						
Gasoline Range Organics (C4-C12)	439	50	ug/l	500		88	55-130			
Surrogate: Dibromofluoromethane	*2.55*		"	*2.50*		*102*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.40*		"	*2.50*		*96*	*60-150*			
Surrogate: Toluene-d8	*2.74*		"	*2.50*		*110*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.68*		"	*2.50*		*107*	*55-130*			
Laboratory Control Sample Dup (8A21014-BSD2)				Prepared & Analyzed: 01/21/08						
Gasoline Range Organics (C4-C12)	435	50	ug/l	500		87	55-130	0.9	20	
Surrogate: Dibromofluoromethane	*2.42*		"	*2.50*		*97*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.29*		"	*2.50*		*92*	*60-150*			
Surrogate: Toluene-d8	*2.65*		"	*2.50*		*106*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.60*		"	*2.50*		*104*	*55-130*			
Matrix Spike (8A21014-MS1)	**Source: MRA0686-01**			Prepared & Analyzed: 01/21/08						
Gasoline Range Organics (C4-C12)	814	50	ug/l	550	219	108	25-150			
tert-Amyl methyl ether	9.86	0.50	"	10.0	ND	99	75-140			
Benzene	10.8	0.50	"	10.0	1.18	96	80-120			
tert-Butyl alcohol	471	20	"	200	278	97	80-125			
Di-isopropyl ether	9.25	0.50	"	10.0	0.210	90	75-135			
Ethyl tert-butyl ether	9.64	0.50	"	10.0	ND	96	80-135			
Ethylbenzene	10.1	0.50	"	10.0	ND	101	75-130			
Methyl tert-butyl ether	60.5	0.50	"	10.0	61.1	0	75-145			BB
Toluene	10.2	0.50	"	10.0	ND	102	80-125			
Xylenes (total)	30.9	0.50	"	30.0	0.500	101	75-125			
Surrogate: Dibromofluoromethane	*2.48*		"	*2.50*		*99*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.48*		"	*2.50*		*99*	*60-150*			
Surrogate: Toluene-d8	*2.79*		"	*2.50*		*112*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.51*		"	*2.50*		*100*	*55-130*			

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3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/22/08 14:13

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A21014 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Matrix Spike Dup (8A21014-MSD1)	**Source: MRA0686-01**			Prepared & Analyzed: 01/21/08						
Gasoline Range Organics (C4-C12)	770	50	ug/l	550	219	100	25-150	5	20	
tert-Amyl methyl ether	11.4	0.50	"	10.0	ND	114	75-140	14	25	
Benzene	11.1	0.50	"	10.0	1.18	100	80-120	3	20	
tert-Butyl alcohol	468	20	"	200	278	95	80-125	0.7	25	
Di-isopropyl ether	9.92	0.50	"	10.0	0.210	97	75-135	7	25	
Ethyl tert-butyl ether	11.0	0.50	"	10.0	ND	110	80-135	13	25	
Ethylbenzene	10.1	0.50	"	10.0	ND	101	75-130	0.2	20	
Methyl tert-butyl ether	66.2	0.50	"	10.0	61.1	52	75-145	9	25	BB
Toluene	10.8	0.50	"	10.0	ND	108	80-125	5	25	
Xylenes (total)	30.4	0.50	"	30.0	0.500	100	75-125	2	20	
Surrogate: Dibromofluoromethane	*2.56*		"	*2.50*		*102*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.74*		"	*2.50*		*110*	*60-150*			
Surrogate: Toluene-d8	*2.71*		"	*2.50*		*108*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.55*		"	*2.50*		*102*	*55-130*			

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0310
3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/22/08 14:13

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.
EY	Result exceeds normal dynamic range; reported as a min. est.
BZ	Sample preserved improperly
BB	Sample > 4x spike concentration
BA	Relative percent difference out of control
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

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:	0500	Temp:	45
Off-site Time:	1515	Temp:	47
Sky Conditions:			
Meteorological Events:			
Wind Speed:		Direction:	

Lab Name: TestAmerica	BP/AR Facility No.: 2111	Consultant/Contractor: Stratus Environmental, Inc.
Address: 885 Jarvis Drive	BP/AR Facility Address: 1156 Davis St., 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	Enfos Project No.: G0C28-0023	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: 03-O&M	Report Type & QC Level: Level 1 with EDF
San Ramon, CA	Sub Phase/Task: 03-Analytical	E-mail EDD To: shayes@stratusinc.net
Tele/Fax: 925-275-3506/925-275-3815	Cost Element: Subcontractor Cost	Invoice to: Atlantic Richfield Co.

Lab Bottle Order No: MRA0310

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO by 8260B	Requested Analysis: BTEX by 8260 B	Requested Analysis: 5-oxygenates by 8260 B	Turnaround Time: 24-hours	Turnaround Time: Standard	Sample Point Lat/Long and Comments
1	02111DPEMINF	0600	1/3/08		x		-01	3				X		x	x	x		x	5-oxygenates requested are MTBE, DIPE, ETBE, TAME, and TBA.
2	02111ASWINF	0558			x		-02	3				X		x	x	x		x	
3	02111ASWEFF	0554			x		-03	3				X		x	x	x		x	
4	02111WGAC1	0550			x		-04	3				X		x	x	x		x	
5	02111WEFF	0547			x		-05	3				X		x	x	x	x		
6	02111MW2WINF 0612	0608	1/3/08		x		-06	3				Y		x	x	x		x	
7																			
8																			
9																			
10	TB21111208	0630	1/3/08				-07	2											Hold

Sampler's Name: Chris Hill	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date / Time
Sampler's Company: Stratus Environmental, Inc.	Stratus	1/3/08	0945		1/3/08 0945
Shipment Date: 1-3-08		1/3/08	1445		1-3-08 1445
Shipment Method: Stratus		1-3-08	1730		1/7 1730
Shipment Tracking No:					

Special 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 2111
REC. BY (PRINT) DV
WORKORDER: MRA0310

DATE REC'D AT LAB: 11/7/08
TIME REC'D AT LAB: 1730
DATE LOGGED IN: 11/8/08

For Regulatory Purposes?
___ DRINKING WATER
_✓_ WASTE WATER
___ OTHER

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 / Sticker Present / (Absent)								
5. Airbill #:									
6. Sample Labels:	(Present) / Absent								
7. Sample IDs:	(Listed) / Not Listed on Chain-of-Custody								
8. Sample Condition:	(Intact) / Broken* / 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: 4.3									
Correction Factor: -1.0°									
Corrected Temp: 3.3°									
Is corrected temp. 0-6°C?	(Yes) / No**								

**Exception (if any): Metals / Perchlorate

DFF on Ice or Problem COC

11/7 10:40 P.V.

P.V.

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

ERECEIPTLOG
10/26/07)

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9 January, 2008

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

RE: ARCO #2111, San Leandro, CA
Work Order: MRA0321

Enclosed are the results of analyses for samples received by the laboratory on 01/07/08 17:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate # 2682

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.

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0321
3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/09/08 14:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
02111DPEAINF	MRA0321-01	Vapor	01/07/08 06:45	01/07/08 17:30
02111ASAEFF	MRA0321-02	Vapor	01/07/08 06:50	01/07/08 17:30
02111ASYSINF	MRA0321-03	Vapor	01/07/08 06:40	01/07/08 17:30
02111AGAC1	MRA0321-04	Vapor	01/07/08 06:32	01/07/08 17:30
02111AEFF	MRA0321-05	Vapor	01/07/08 06:30	01/07/08 17:30

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.

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0321
3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/09/08 14:29

Volatiles Organic Compounds by 8260B/LUFT GC/MS

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111DPEAINF (MRA0321-01) Vapor	**Sampled: 01/07/08 06:45**		**Received: 01/07/08 17:30**						
Gasoline Range Organics (C4-C12)	**1700**	50	mg/m³ Air	1	8A08003	01/08/08	01/08/08 13:37	EPA 8260B/LUFT GC/MS	
Methyl tert-butyl ether	**120**	0.50	"	"	"	"	"	"	
Benzene	**7.6**	0.50	"	"	"	"	"	"	
Toluene	**5.9**	0.50	"	"	"	"	"	"	
Ethylbenzene	**15**	0.50	"	"	"	"	"	"	
Xylenes (total)	**19**	0.50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*60-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*119 %*	*55-130*		"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*	*75-130*		"	"	"	"	
Surrogate: Toluene-d8		*107 %*	*75-120*		"	"	"	"	
Gasoline Range Organics (C4-C12)	**490**	14	ppmv	"	"	"	"	"	
Benzene	**2.4**	0.16	"	"	"	"	"	"	
Ethylbenzene	**3.4**	0.12	"	"	"	"	"	"	
Methyl tert-butyl ether	**32**	0.14	"	"	"	"	"	"	
Toluene	**1.6**	0.13	"	"	"	"	"	"	
Xylenes (total)	**4.5**	0.12	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*60-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*119 %*	*55-130*		"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*	*75-130*		"	"	"	"	
Surrogate: Toluene-d8		*107 %*	*75-120*		"	"	"	"	
02111ASAEFF (MRA0321-02) Vapor	**Sampled: 01/07/08 06:50**		**Received: 01/07/08 17:30**						
Gasoline Range Organics (C4-C12)	ND	50	mg/m³ Air	1	8A08003	01/08/08	01/08/08 12:04	EPA 8260B/LUFT GC/MS	
Methyl tert-butyl ether	**14**	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*60-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99 %*	*55-130*		"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*75-130*		"	"	"	"	
Surrogate: Toluene-d8		*97 %*	*75-120*		"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	14	ppmv	"	"	"	"	"	
Benzene	ND	0.16	"	"	"	"	"	"	
Ethylbenzene	ND	0.12	"	"	"	"	"	"	
Methyl tert-butyl ether	**3.9**	0.14	"	"	"	"	"	"	

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0321
3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/09/08 14:29

Volatiles Organic Compounds by 8260B/LUFT GC/MS

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111ASAEFF (MRA0321-02) Vapor	**Sampled: 01/07/08 06:50**		**Received: 01/07/08 17:30**						
Toluene	ND	0.13	ppmv	1	8A08003	01/08/08	01/08/08 12:04	EPA 8260B/LUFT GC/MS	
Xylenes (total)	ND	0.12	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*60-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99 %*	*55-130*		"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*75-130*		"	"	"	"	
Surrogate: Toluene-d8		*97 %*	*75-120*		"	"	"	"	
02111ASYSINF (MRA0321-03) Vapor	**Sampled: 01/07/08 06:40**		**Received: 01/07/08 17:30**						
Gasoline Range Organics (C4-C12)	**410**	50	mg/m³ Air	1	8A08003	01/08/08	01/08/08 12:35	EPA 8260B/LUFT GC/MS	
Methyl tert-butyl ether	**44**	0.50	"	"	"	"	"	"	
Benzene	**2.2**	0.50	"	"	"	"	"	"	
Toluene	**1.5**	0.50	"	"	"	"	"	"	
Ethylbenzene	**2.9**	0.50	"	"	"	"	"	"	
Xylenes (total)	**3.9**	0.50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*60-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*55-130*		"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*	*75-130*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*75-120*		"	"	"	"	
Gasoline Range Organics (C4-C12)	**120**	14	ppmv	"	"	"	"	"	
Benzene	**0.70**	0.16	"	"	"	"	"	"	
Ethylbenzene	**0.67**	0.12	"	"	"	"	"	"	
Methyl tert-butyl ether	**12**	0.14	"	"	"	"	"	"	
Toluene	**0.41**	0.13	"	"	"	"	"	"	
Xylenes (total)	**0.90**	0.12	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*60-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*55-130*		"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*	*75-130*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*75-120*		"	"	"	"	

TestAmerica
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FAX (408) 782-6308
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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0321
3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/09/08 14:29

Volatiles Organic Compounds by 8260B/LUFT GC/MS

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111AGAC1 (MRA0321-04) Vapor Sampled: 01/07/08 06:32 Received: 01/07/08 17:30									
Gasoline Range Organics (C4-C12)	ND	50	mg/m³ Air	1	8A08003	01/08/08	01/08/08 13:06	EPA 8260B/LUFT GC/MS	
Methyl tert-butyl ether	**5.5**	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*60-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*55-130*		"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*	*75-130*		"	"	"	"	
Surrogate: Toluene-d8		*99 %*	*75-120*		"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	14	ppmv	"	"	"	"	"	
Benzene	ND	0.16	"	"	"	"	"	"	
Ethylbenzene	ND	0.12	"	"	"	"	"	"	
Methyl tert-butyl ether	**1.5**	0.14	"	"	"	"	"	"	
Toluene	ND	0.13	"	"	"	"	"	"	
Xylenes (total)	ND	0.12	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*60-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*55-130*		"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*	*75-130*		"	"	"	"	
Surrogate: Toluene-d8		*99 %*	*75-120*		"	"	"	"	
02111AEFF (MRA0321-05) Vapor Sampled: 01/07/08 06:30 Received: 01/07/08 17:30									
Gasoline Range Organics (C4-C12)	ND	50	mg/m³ Air	1	8A08003	01/08/08	01/08/08 11:33	EPA 8260B/LUFT GC/MS	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*60-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*55-130*		"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*	*75-130*		"	"	"	"	
Surrogate: Toluene-d8		*98 %*	*75-120*		"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	14	ppmv	"	"	"	"	"	
Benzene	ND	0.16	"	"	"	"	"	"	
Ethylbenzene	ND	0.12	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.14	"	"	"	"	"	"	

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0321
3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/09/08 14:29

Volatiles Organic Compounds by 8260B/LUFT GC/MS

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02111AEFF (MRA0321-05) Vapor Sampled: 01/07/08 06:30 Received: 01/07/08 17:30									
Toluene	ND	0.13	ppmv	1	8A08003	01/08/08	01/08/08 11:33	EPA 8260B/LUFT GC/MS	
Xylenes (total)	ND	0.12	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*60-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*55-130*		"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*	*75-130*		"	"	"	"	
Surrogate: Toluene-d8		*98 %*	*75-120*		"	"	"	"	

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0321
3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/09/08 14:29

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A08003 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Blank (8A08003-BLK1)				Prepared & Analyzed: 01/08/08						
Gasoline Range Organics (C4-C12)	ND	50	mg/m³ Air							
Gasoline Range Organics (C4-C12)	ND	14	ppmv							
Methyl tert-butyl ether	ND	0.50	mg/m³ Air							
Benzene	ND	0.16	ppmv							
Benzene	ND	0.50	mg/m³ Air							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Ethylbenzene	ND	0.12	ppmv							
Methyl tert-butyl ether	ND	0.14	"							
Toluene	ND	0.13	"							
Xylenes (total)	ND	0.12	"							
Surrogate: 1,2-Dichloroethane-d4	*2.45*		*mg/m³ Air*	*2.50*		*98*	*60-150*			
Surrogate: 1,2-Dichloroethane-d4	*0.582*		*ppmv*	*0.594*		*98*	*60-150*			
Surrogate: 4-Bromofluorobenzene	*2.44*		*mg/m³ Air*	*2.50*		*98*	*55-130*			
Surrogate: 4-Bromofluorobenzene	*0.341*		*ppmv*	*0.349*		*98*	*55-130*			
Surrogate: Dibromofluoromethane	*0.303*		*"*	*0.318*		*95*	*75-130*			
Surrogate: Dibromofluoromethane	*2.38*		*mg/m³ Air*	*2.50*		*95*	*75-130*			
Surrogate: Toluene-d8	*2.48*		*"*	*2.50*		*99*	*75-120*			
Surrogate: Toluene-d8	*0.659*		*ppmv*	*0.665*		*99*	*75-120*			
Laboratory Control Sample (8A08003-BS1)				Prepared & Analyzed: 01/08/08						
Methyl tert-butyl ether	9.25	0.50	mg/m³ Air	10.0		92	80-130			
Benzene	3.12	0.16	ppmv	3.14		100	75-120			
Benzene	9.95	0.50	mg/m³ Air	10.0		100	75-120			
Toluene	11.2	0.50	"	10.0		112	80-120			
Ethylbenzene	12.3	0.50	"	10.0		123	80-125			
Xylenes (total)	37.4	0.50	"	30.0		124	80-125			
Ethylbenzene	2.84	0.12	ppmv	2.31		123	80-125			
Methyl tert-butyl ether	2.57	0.14	"	2.78		92	80-130			
Toluene	2.98	0.13	"	2.66		112	80-120			
Xylenes (total)	8.62	0.12	"	6.92		124	80-125			
Surrogate: 1,2-Dichloroethane-d4	*2.34*		*mg/m³ Air*	*2.50*		*94*	*60-150*			
Surrogate: 1,2-Dichloroethane-d4	*0.556*		*ppmv*	*0.594*		*94*	*60-150*			
Surrogate: 4-Bromofluorobenzene	*2.66*		*mg/m³ Air*	*2.50*		*106*	*55-130*			
Surrogate: 4-Bromofluorobenzene	*0.372*		*ppmv*	*0.349*		*106*	*55-130*			

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0321
3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/09/08 14:29

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A08003 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Laboratory Control Sample (8A08003-BS1)				Prepared & Analyzed: 01/08/08						
Surrogate: Dibromofluoromethane	*2.58*		*mg/m³ Air*	*2.50*		*103*	*75-130*			
Surrogate: Dibromofluoromethane	*0.329*		*ppmv*	*0.318*		*103*	*75-130*			
Surrogate: Toluene-d8	*2.55*		*mg/m³ Air*	*2.50*		*102*	*75-120*			
Surrogate: Toluene-d8	*0.678*		*ppmv*	*0.665*		*102*	*75-120*			
Laboratory Control Sample (8A08003-BS2)				Prepared & Analyzed: 01/08/08						
Gasoline Range Organics (C4-C12)	488	50	mg/m³ Air	500		98	55-130			
Gasoline Range Organics (C4-C12)	138	14	ppmv	142		98	55-130			
Surrogate: 1,2-Dichloroethane-d4	*2.37*		*mg/m³ Air*	*2.50*		*95*	*60-150*			
Surrogate: 1,2-Dichloroethane-d4	*0.563*		*ppmv*	*0.594*		*95*	*60-150*			
Surrogate: 4-Bromofluorobenzene	*2.69*		*mg/m³ Air*	*2.50*		*108*	*55-130*			
Surrogate: 4-Bromofluorobenzene	*0.376*		*ppmv*	*0.349*		*108*	*55-130*			
Surrogate: Dibromofluoromethane	*2.45*		*mg/m³ Air*	*2.50*		*98*	*75-130*			
Surrogate: Dibromofluoromethane	*0.312*		*ppmv*	*0.318*		*98*	*75-130*			
Surrogate: Toluene-d8	*2.63*		*mg/m³ Air*	*2.50*		*105*	*75-120*			
Surrogate: Toluene-d8	*0.699*		*ppmv*	*0.665*		*105*	*75-120*			
Laboratory Control Sample Dup (8A08003-BSD1)				Prepared & Analyzed: 01/08/08						
Methyl tert-butyl ether	9.95	0.50	mg/m³ Air	10.0		100	80-130	7	25	
Benzene	3.04	0.16	ppmv	3.14		97	75-120	3	20	
Benzene	9.69	0.50	mg/m³ Air	10.0		97	75-120	3	20	
Toluene	10.5	0.50	"	10.0		105	80-120	7	25	
Ethylbenzene	11.4	0.50	"	10.0		114	80-125	8	20	
Xylenes (total)	34.8	0.50	"	30.0		116	80-125	7	20	
Ethylbenzene	2.63	0.12	ppmv	2.31		114	80-125	8	20	
Methyl tert-butyl ether	2.77	0.14	"	2.78		100	80-130	7	25	
Toluene	2.79	0.13	"	2.66		105	80-120	7	25	
Xylenes (total)	8.03	0.12	"	6.92		116	80-125	7	20	
Surrogate: 1,2-Dichloroethane-d4	*2.47*		*mg/m³ Air*	*2.50*		*99*	*60-150*			
Surrogate: 1,2-Dichloroethane-d4	*0.587*		*ppmv*	*0.594*		*99*	*60-150*			
Surrogate: 4-Bromofluorobenzene	*2.65*		*mg/m³ Air*	*2.50*		*106*	*55-130*			
Surrogate: 4-Bromofluorobenzene	*0.370*		*ppmv*	*0.349*		*106*	*55-130*			
Surrogate: Dibromofluoromethane	*2.58*		*mg/m³ Air*	*2.50*		*103*	*75-130*			
Surrogate: Dibromofluoromethane	*0.329*		*ppmv*	*0.318*		*103*	*75-130*			
Surrogate: Toluene-d8	*2.47*		*mg/m³ Air*	*2.50*		*99*	*75-120*			
Surrogate: Toluene-d8	*0.657*		*ppmv*	*0.665*		*99*	*75-120*			

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Stratus Environmental Inc. [Arco]	Project: ARCO #2111, San Leandro, CA	MRA0321
3330 Cameron Park Dr., Suite 550	Project Number: G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	01/09/08 14:29

Volatiles Organic Compounds by 8260B/LUFT GC/MS - Quality Control
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8A08003 - EPA 5030B P/T / EPA 8260B/LUFT GC/MS										
Laboratory Control Sample Dup (8A08003-BSD2)				Prepared & Analyzed: 01/08/08						
Gasoline Range Organics (C4-C12)	477	50	mg/m³ Air	500		95	55-130	2	20	
Gasoline Range Organics (C4-C12)	135	14	ppmv	142		95	55-130	2	20	
Surrogate: 1,2-Dichloroethane-d4	*2.46*		*mg/m³ Air*	*2.50*		*98*	*60-150*			
Surrogate: 1,2-Dichloroethane-d4	*0.584*		*ppmv*	*0.594*		*98*	*60-150*			
Surrogate: 4-Bromofluorobenzene	*2.88*		*mg/m³ Air*	*2.50*		*115*	*55-130*			
Surrogate: 4-Bromofluorobenzene	*0.403*		*ppmv*	*0.349*		*115*	*55-130*			
Surrogate: Dibromofluoromethane	*2.42*		*mg/m³ Air*	*2.50*		*97*	*75-130*			
Surrogate: Dibromofluoromethane	*0.308*		*ppmv*	*0.318*		*97*	*75-130*			
Surrogate: Toluene-d8	*2.64*		*mg/m³ Air*	*2.50*		*106*	*75-120*			
Surrogate: Toluene-d8	*0.702*		*ppmv*	*0.665*		*106*	*75-120*			

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Stratus Environmental Inc. [Arco]	Project:	ARCO #2111, San Leandro, CA	MRA0321
3330 Cameron Park Dr., Suite 550	Project Number:	G0C28-0023	**Reported:**
Cameron Park CA, 95682	Project Manager:	Jay Johnson	01/09/08 14:29

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

9

Atlantic Richfield Company
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:	0500	Temp:	45
Off-site Time:	0615	Temp:	47
Sky Conditions:			
Meteorological Events:			
Wind Speed:		Direction:	

Lab Name: TestAmerica	BP/AR Facility No.: 2111	Consultant/Contractor: Stratus Environmental, Inc.
Address: 885 Jarvis Drive	BP/AR Facility Address: 1156 Davis St., 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	Enfos Project No.: G0C28-0023	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: 03-O&M	Report Type & QC Level: Level 1 with EDF
San Ramon, CA	Sub Phase/Task: 03-Analytical	E-mail EDD To: shayes@stratusinc.net
Tele/Fax: 925-275-3506/925-275-3815	Cost Element: Subcontractor Cost	Invoice to: Atlantic Richfield Co.

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO by 8015	Requested Analysis: BTEX by 8260	Requested Analysis: MTBE by 8260	Turnaround Time: 24-hours	Turnaround Time: Standard	Sample Point Lat/Long and Comments
1	02111DPEAINF	0645	1-7-08			x	-01	2						x	x	x		x	
2	02111ASAEFF	0650	"			x	-02	2						x	x	x		x	
3	02111ASYSINF	0640	"			x	-03	2						x	x	x		x	
4	02111AGAC1	0632	"			x	-04	2						x	x	x		x	
5	02111AEFF	0630	"			x	-05	2						x	x	x	x		
6																			
7																			
8																			
9																			
10																			

Lab Bottle Order No: MRA0321 / MRA0322

		Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name:	Chris Hill		1/7/08	0945		1/07/08	0945
Sampler's Company:	Stratus Environmental, Inc.		1/7/08	1445	Ed Martinez	1-7-08	1445
Shipment Date:	1-7-08		1-7-08	1730		1/7/08	178
Shipment Method:	Stratus						
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: APEC 2111
REC. BY (PRINT): DV
WORKORDER: MRA0321

DATE REC'D AT LAB: 1/7/08
TIME REC'D AT LAB: 1730
DATE LOGGED IN: 1/8/08

For Regulatory Purposes?
___ DRINKING WATER
___ WASTE WATER
__✓__ OTHER

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 / Sticker Present / (Absent)								
5. Airbill #:									
6. Sample Labels:	(Present) / Absent								
7. Sample IDs:	(Listed) / Not Listed on Chain-of-Custody								
8. Sample Condition:	(Intact) / Broken* / 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:									
Correction Factor:									
Corrected Temp:									
Is corrected temp. 0-6°C?	Yes / No**								

**Exception (if any): Metals / Perchlorate
DFF on Ice or Problem COC AIR

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

STRATUS
ENVIRONMENTAL, INC.

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

March 6, 2008

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: 2 (February 5 and 26, 2008)

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 February 5, 2008.

Variations from Scope of Work: The remediation systems were found non-functioning on February 5, 2008, due to high-water level alarm in the air stripper tank. Additionally, the transfer pump on the DPE system was found to have malfunctioned during this visit. The remediation systems were re-started momentarily on February 5, 2008 and shutdown after sampling, pending receipt of analytical results and replacement of the transfer pump. The DPE transfer pump was replaced on February 26, 2008. On the same day, Stratus oversaw Electrical Installation Contractor (electrician for Cornerstone Environmental) verify and modify the PLC program to facilitate operation of the submersible pump at well MW-2. The remediation systems were re-started on February 26, 2008.

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
Project 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: 2508
Onsite Time: 0815
Offsite Time: 0930
Equipment Manufacturer/Model#

Technician: Chad
Weather Conditions: Clear
Ambient Temperature: 40

System Information

System Status Upon Arrival: Operational ☐ Non-Operational ☒ High DPE 1340 Tank Pump
System Status Upon Departure: Operational ☐ Non-Operational ☒
Electric Meter Reading: 31652
Hour Meter Reading: 15565
Totalizer Reading Prior to Air Stripper: 32968
PID Calibration Date: 2.4.08
Totalizer Reading After Air Stripper: 60860

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		3000			
Pipe Diameter, inches	3	4	4	3	
Air Flow Rate, cfm			190		
Applied Vacuum, "wc	NM	.45	NA	NA	
Temperature, deg F		105	80		
PID Readings, ppmv	NM	4	2	0	PID for GAC-1: 1

Other Readings/Measurements

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

Signature: Chad
Date: 2508

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	No Sample	02111AGAC1	2508 0547
02111ASAEFF	2508 0555	02111AEFF	0545
02111ASYSINF	0852		
Analyses Required: GRO, BTEX, and MTBE			

Operation & Maintenance Notes

1) Pump motor on DPE Tank BHD Need order New one Volts To motor But No Run

· System left off - order New pump

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: [signature]

Date: 2508

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

ORIGINAL

Date: 2-5-08
Onsite Time: 0815
Offsite Time: 0930

Technician: CHILL
Weather Conditions: Clear
Ambient Temperature 40

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: _____

Effluent Flow Totalizer Reading: 642841

No. of Carbon Vessels: 2

Lead Carbon Vessel Pressure (psi): 8

Effluent Water Characteristics
(Quarterly by Field Instrument)
pH: 7.7
Temperature: 6.1 °C

Well ID	Hour Meter Reading	Totalizer Reading	Total Depth	Pump Depth	
MW-2		4714			

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
02111DPEWINF	No Sample	02111MW2WINF	2508 0835
02111ASWINF	2508 0830		
02111ASWEFF	0827		
02111WGAC1	0825		
02111WEFF	0822		

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

Notes:

Signature: _____ Date: 2508

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

ORIGINAL

Date: 2-26-08
Onsite Time: 0900
Offsite Time: 1100
Equipment Manufacturer/Model#

Technician: CHILL
Weather Conditions: Clear
Ambient Temperature: 42

System Information

System Status Upon Arrival:	Operational	☐	Non-Operational	☒
System Status Upon Departure:	Operational	☒	Non-Operational	☐

Electric Meter Reading: 41665
Hour Meter Reading: 1557
Totalizer Reading Prior to Air Stripper: 33585
PID Calibration Date: 2.25.08
Totalizer Reading After Air Stripper: 661470

Field Measurements

Parameter	Influent (after blower, 2111DPEAINF)	Air Stripper (2111ASAEFF)	System Influent (2111ASYSINF)	Stack Air Flow (2111AEFF)	Comments
Differential Pressure, "wc		21			
Air Velocity, FPM		2555			
Pipe Diameter, inches	3	4	4	3	
Air Flow Rate, cfm			190		
Applied Vacuum, ~~"wc~~ "Hg	24 "Hg	.34	NA	NA	
Temperature, deg F		120			
PID Readings, ppmv	65	8	24	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	25	18					
V-2	25	17					
V-3	25	16					
MW-1	0						
MW-3	0						
MW-7	100	17					
MW-8	100	0					

Signature: [signature]
Date: 2/26/08

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

1) Install New Pump on DPE Tank system up

2) Meet with Conner Store To Try and get MW2 on system will Not Run In Auto-

MW-2 is on system working in Auto - But Needs To have 10' New Hose - Hole in Hose Next Visit will Replace Hose.

System up with DPE Running

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: 22608

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

ORIGINAL

Date: 2-26-08
Onsite Time: 0600
Offsite Time: 1100

Technician: CHILL
Weather Conditions: Clear
Ambient Temperature 42

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

Transfer Pump Hour Meter Reading: N/A

Effluent Flow Totalizer Reading: 643443

No. of Carbon Vessels: 2

Lead Carbon Vessel Pressure (psi): 8

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

Well ID	Hour Meter Reading	Totalizer Reading	Total Depth	Pump Depth	
MW-2		4714			

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: 2/26/08

Atlantic Richfield Company
bp
A BP affiliated company

Chain of Custody Record

RUSH

ORIGINAL

Page 1 of 1

Project Name: ARCO Facility No. 2111
BP BU/AR Region/Enfos Segment: BP > America's West > Retail > Alameda
State or Lead Regulatory Agency: Alameda County Environmental Health
Requested Due Date (mm/dd/yy): 24 hours for Effluent & STD for others

On-site Time: 1815	Temp: 42
Off-site Time: 0930	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: Calscience Environmental Laboratories, Inc.	
Address: 7440 Lincoln Way	
Garden Grove, CA 92841	
Lab PM: Linda Scharpenberg	
Tele/Fax: 714-895-5494/ 714-895-7501	
BP/AR PM Contact: Paul Supple	
Address: 2010 Crow Canyon Place, Suite 150	
San Ramon, CA	
Tele/Fax: 925-275-3506/925-275-3815	
Lab Bottle Order No:	

BP/AR Facility No.: 2111	
BP/AR Facility Address: 1156 Davis St., San Leandro	
Site Lat/Long:	
California Global ID No.: T0600101764	
Enfos Project No.: G0C28-0029	
Provision or OOC (circle one) Provision	
Phase/WBS: 03-O&M	
Sub Phase/Task: 03-Analytical	
Cost Element: Subcontractor Cost	

Consultant/Contractor: Stratus Environmental, Inc.	
Address: 3330 Cameron Park Drive, Suite 550	
Cameron Park, CA 95682	
Consultant/Contractor Project No.: E2111-03	
Consultant/Contractor PM: Jay Johnson	
Tele/Fax: (530) 676-6000 / (530) 676-6005	
Report Type & QC Level: Level 1 with EDF	
E-mail EDD To: shayes@stratusinc.net	
Invoice to: Atlantic Richfield Co.	

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO	Requested Analysis: BTEX	Requested Analysis: MTBE	Requested Analysis: 5-oxygenates	Turnaround Time: 24-hours	Turnaround Time: Standard	Sample Point Lat/Long and Comments
1	~~02111DUPEXTRA~~					~~X~~			~~X~~											
2	02111ASAEFF	0855	2-5-08			X		2	X					X	X	X			X	5-oxygenates requested are MTBE, DIPE, ETBE, TAME, and TBA.
3	02111ASYSINF	0852				X		2	X					X	X	X			X	
4	02111AGAC1	0847				X		2	X					X	X	X			X	
5	02111AEFF	0849				X		2	X					X	X	X			X	
6	~~02111DUPWINF~~				~~X~~									X	X	X		X		
7	02111ASWINF	0830	2-5-08		X			5				~~X~~		~~X~~	~~X~~		~~X~~		~~X~~	
8	02111ASWEFF	0827			X			5				X		X	X		X		X	
9	02111WGAC1	0825			X			5				X		X	X		X		X	
10	02111WEFF	0823			X			5				X		X	X		X		X	
11	02111MW2WINF	0835			X			5				X		X	X		X	X		
								5				X		X	X		X		X	

Sampler's Name:	Chris Hall
Sampler's Company:	Stratus Environmental, Inc.
Shipment Date:	2-5-08
Shipment Method:	GSO
Shipment Tracking No:	

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Chris Hall Stratus	2/5/08	1500			

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

BP COC Rev. 1

Calscience Environmental Laboratories, Inc.

February 13, 2008

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

Subject: **Calscience Work Order No.: 08-02-0282**
Client Reference: ARCO Facility No. 2111

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/6/2008 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Calscience Environmental
Laboratories, Inc.
Linda Scharpenberg
Project Manager

Calscience
Environmental
Laboratories, Inc.

CASE NARRATIVE – 08-02-0282

Data Qualifiers - EPA 8260:

Batch 080209S01:

The RPD for benzene was outside acceptance criteria in the MS/MSD. The % recoveries were within criteria and the RPD was within criteria in the LCS/LCSD. This has been flagged "4" within the report.

"4"= BA, AY

BA = Relative percent difference out of control
AY = Matrix interference suspected

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.		Date Received:	02/06/08
3330 Cameron Park Drive, Suite 550		Work Order No:	08-02-0282
Cameron Park, CA 95682-8861		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ppb (v/v)
Project: ARCO Facility No. 2111			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111ASAEFF	**08-02-0282-1-A**	**02/05/08 08:55**	**Air**	**GC/MS V**	**N/A**	**02/06/08 11:19**	**080206L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	99	20	40		Xylenes (total)	24	1.0	1	
Toluene	6.4	0.50	1		Methyl-t-Butyl Ether (MTBE)	1400	80	40	
Ethylbenzene	46	20	40						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	93	57-129			1,2-Dichloroethane-d4	117	47-137		
Toluene-d8	108	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111ASYSINF	**08-02-0282-2-B**	**02/05/08 08:52**	**Air**	**GC/MS V**	**N/A**	**02/06/08 13:50**	**080206L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	54	1.0	2		Xylenes (total)	11	2.0	2	
Toluene	4.6	1.0	2		Methyl-t-Butyl Ether (MTBE)	860	80	40	
Ethylbenzene	27	1.0	2						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	84	57-129			1,2-Dichloroethane-d4	118	47-137		
Toluene-d8	110	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111AGAC1	**08-02-0282-3-B**	**02/05/08 08:47**	**Air**	**GC/MS V**	**N/A**	**02/06/08 14:39**	**080206L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.0	2		Xylenes (total)	ND	2.0	2	
Toluene	1.1	1.0	2		Methyl-t-Butyl Ether (MTBE)	400	40	20	
Ethylbenzene	ND	1.0	2						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	97	57-129			1,2-Dichloroethane-d4	109	47-137		
Toluene-d8	83	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111AEFF	**08-02-0282-4-A**	**02/05/08 08:45**	**Air**	**GC/MS V**	**N/A**	**02/06/08 12:58**	**080206L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Toluene	0.84	0.50	1		Methyl-t-Butyl Ether (MTBE)	27	2.0	1	
Ethylbenzene	ND	0.50	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	99	57-129			1,2-Dichloroethane-d4	98	47-137		
Toluene-d8	95	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.	Date Received:	02/06/08
3330 Cameron Park Drive, Suite 550	Work Order No:	08-02-0282
Cameron Park, CA 95682-8861	Preparation:	N/A
	Method:	EPA TO-15
	Units:	ppb (v/v)
Project: ARCO Facility No. 2111		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-09-002-6,761**	**N/A**	**Air**	**GC/MS V**	**N/A**	**02/06/08 09:39**	**080206L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Toluene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
Ethylbenzene	ND	0.50	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	100	57-129			1,2-Dichloroethane-d4	112	47-137		
Toluene-d8	100	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/06/08
Work Order No: 08-02-0282
Preparation: N/A
Method: EPA TO-3M

Project: ARCO Facility No. 2111

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111ASAEFF	**08-02-0282-1-A**	**02/05/08 08:55**	**Air**	**GC 38**	**N/A**	**02/06/08 10:52**	**080206L01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	13	1		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111ASYSINF	**08-02-0282-2-A**	**02/05/08 08:52**	**Air**	**GC 38**	**N/A**	**02/06/08 11:48**	**080206L01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	13	1		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111AGAC1	**08-02-0282-3-A**	**02/05/08 08:47**	**Air**	**GC 38**	**N/A**	**02/06/08 13:01**	**080206L01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	13	1		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111AEFF	**08-02-0282-4-A**	**02/05/08 08:45**	**Air**	**GC 38**	**N/A**	**02/06/08 12:25**	**080206L01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	13	1		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-693-7**	**N/A**	**Air**	**GC 38**	**N/A**	**02/06/08 09:14**	**080206L01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	13	1		ppm (v/v)

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/06/08
Work Order No: 08-02-0282
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ARCO Facility No. 2111

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111ASWINF	**08-02-0282-5-E**	**02/05/08 08:30**	**Aqueous**	**GC 4**	**02/05/08**	**02/06/08 15:44**	**080205B02**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	102	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111ASWEFF	**08-02-0282-6-E**	**02/05/08 08:27**	**Aqueous**	**GC 4**	**02/07/08**	**02/07/08 17:45**	**080207B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	115	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111WGAC1	**08-02-0282-7-E**	**02/05/08 08:25**	**Aqueous**	**GC 4**	**02/07/08**	**02/07/08 19:24**	**080207B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111WEFF	**08-02-0282-8-E**	**02/05/08 08:22**	**Aqueous**	**GC 4**	**02/05/08**	**02/06/08 11:20**	**080205B02**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	106	38-134	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.		Date Received:	02/06/08
3330 Cameron Park Drive, Suite 550		Work Order No:	08-02-0282
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: ARCO Facility No. 2111

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111MW2WINF	**08-02-0282-9-E**	**02/05/08 08:35**	**Aqueous**	**GC 4**	**02/05/08**	**02/06/08 16:17**	**080205B02**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	1700	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	108	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-695-3**	**N/A**	**Aqueous**	**GC 4**	**02/05/08**	**02/06/08 02:43**	**080205B02**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	86	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-695-4**	**N/A**	**Aqueous**	**GC 4**	**02/07/08**	**02/07/08 16:06**	**080207B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	107	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/06/08
Work Order No: 08-02-0282
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ARCO Facility No. 2111

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111ASWINF	**08-02-0282-5-A**	**02/05/08 08:30**	**Aqueous**	**GC/MS Z**	**02/08/08**	**02/09/08 07:26**	**080208L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	18	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	98	10	20						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	107	73-157			Dibromofluoromethane	114	82-142		
Toluene-d8	96	82-112			1,4-Bromofluorobenzene	93	75-105		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111ASWEFF	**08-02-0282-6-A**	**02/05/08 08:27**	**Aqueous**	**GC/MS Z**	**02/08/08**	**02/09/08 07:56**	**080208L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	3.7	0.50	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	114	73-157			Dibromofluoromethane	112	82-142		
Toluene-d8	99	82-112			1,4-Bromofluorobenzene	100	75-105		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111WGAC1	**08-02-0282-7-A**	**02/05/08 08:25**	**Aqueous**	**GC/MS Z**	**02/08/08**	**02/09/08 08:26**	**080208L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	108	73-157			Dibromofluoromethane	113	82-142		
Toluene-d8	102	82-112			1,4-Bromofluorobenzene	91	75-105		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.	Date Received:	02/06/08
3330 Cameron Park Drive, Suite 550	Work Order No:	08-02-0282
Cameron Park, CA 95682-8861	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L
Project: ARCO Facility No. 2111		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111WEFF	**08-02-0282-8-A**	**02/05/08 08:22**	**Aqueous**	**GC/MS Z**	**02/06/08**	**02/06/08 12:53**	**080206L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	108	73-157		Dibromofluoromethane	104	82-142	
Toluene-d8	101	82-112		1,4-Bromofluorobenzene	93	75-105	

02111MW2WINF	**08-02-0282-9-A**	**02/05/08 08:35**	**Aqueous**	**GC/MS Z**	**02/09/08**	**02/09/08 12:33**	**080209L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	53	25	50		Tert-Butyl Alcohol (TBA)	2000	500	50	
Ethylbenzene	45	25	50		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Xylenes (total)	21	0.50	1		Tert-Amyl-Methyl Ether (TAME)	5.6	0.50	1	
Methyl-t-Butyl Ether (MTBE)	1000	25	50						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	95	73-157		Dibromofluoromethane	96	82-142	
Toluene-d8	100	82-112		1,4-Bromofluorobenzene	102	75-105	

Method Blank	**099-12-703-5**	**N/A**	**Aqueous**	**GC/MS Z**	**02/06/08**	**02/06/08 11:50**	**080206L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	103	73-157		Dibromofluoromethane	103	82-142	
Toluene-d8	100	82-112		1,4-Bromofluorobenzene	93	75-105	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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

Date Received: 02/06/08
Work Order No: 08-02-0282
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ARCO Facility No. 2111

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-703-9**	**N/A**	**Aqueous**	**GC/MS Z**	**02/08/08**	**02/09/08 03:24**	**080208L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	108	73-157		Dibromofluoromethane	112	82-142	
Toluene-d8	100	82-112		1,4-Bromofluorobenzene	96	75-105	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-703-10**	**N/A**	**Aqueous**	**GC/MS Z**	**02/09/08**	**02/09/08 11:33**	**080209L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	98	73-157		Dibromofluoromethane	105	82-142	
Toluene-d8	100	82-112		1,4-Bromofluorobenzene	96	75-105	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-703-11**	**N/A**	**Aqueous**	**GC/MS Z**	**02/09/08**	**02/10/08 00:08**	**080209L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	106	73-157		Dibromofluoromethane	108	82-142	
Toluene-d8	98	82-112		1,4-Bromofluorobenzene	91	75-105	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

Stratus Environmental, inc.		Date Received:	02/06/08
3330 Cameron Park Drive, Suite 550		Work Order No:	08-02-0282
Cameron Park, CA 95682-8861		Preparation:	N/A
		Method:	EPA TO-3M

Project: ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
08-02-0284-1	**Air**	**GC 38**	**N/A**	**02/06/08**	**080206D01**

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	16	14	11	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.		Date Received:	02/06/08
3330 Cameron Park Drive, Suite 550		Work Order No:	08-02-0282
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-02-0175-3	**Aqueous**	**GC 4**	**02/05/08**	**02/06/08**	**080205S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	112	114	38-134	2	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.		Date Received:	02/06/08
3330 Cameron Park Drive, Suite 550		Work Order No:	08-02-0282
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
02111ASWEFF	**Aqueous**	**GC 4**	**02/07/08**	**02/07/08**	**080207S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	113	117	38-134	3	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/06/08
Work Order No: 08-02-0282
Preparation: EPA 5030B
Method: EPA 8260B

Project ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-02-0106-20	**Aqueous**	**GC/MS Z**	**02/06/08**	**02/06/08**	**080206S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	104	102	86-122	2	0-8	
Carbon Tetrachloride	107	104	78-138	3	0-9	
Chlorobenzene	103	100	90-120	3	0-9	
1,2-Dibromoethane	107	101	70-130	6	0-30	
1,2-Dichlorobenzene	105	103	89-119	2	0-10	
1,1-Dichloroethene	108	105	52-142	3	0-23	
Ethylbenzene	110	107	70-130	2	0-30	
Toluene	105	104	85-127	1	0-12	
Trichloroethene	104	100	78-126	4	0-10	
Vinyl Chloride	97	93	56-140	4	0-21	
Methyl-t-Butyl Ether (MTBE)	100	95	64-136	5	0-28	
Tert-Butyl Alcohol (TBA)	145	136	27-183	6	0-60	
Diisopropyl Ether (DIPE)	102	99	78-126	2	0-16	
Ethyl-t-Butyl Ether (ETBE)	97	94	67-133	3	0-21	
Tert-Amyl-Methyl Ether (TAME)	92	90	63-141	2	0-21	
Ethanol	128	109	11-167	15	0-64	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/06/08
Work Order No: 08-02-0282
Preparation: EPA 5030B
Method: EPA 8260B

Project ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-02-0540-7	**Aqueous**	**GC/MS Z**	**02/08/08**	**02/08/08**	**080208S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	103	86-122	3	0-8	
Carbon Tetrachloride	103	99	78-138	3	0-9	
Chlorobenzene	104	104	90-120	0	0-9	
1,2-Dibromoethane	103	99	70-130	4	0-30	
1,2-Dichlorobenzene	99	103	89-119	4	0-10	
1,1-Dichloroethene	96	100	52-142	4	0-23	
Ethylbenzene	102	106	70-130	4	0-30	
Toluene	98	102	85-127	5	0-12	
Trichloroethene	96	100	78-126	4	0-10	
Vinyl Chloride	97	94	56-140	4	0-21	
Methyl-t-Butyl Ether (MTBE)	105	98	64-136	7	0-28	
Tert-Butyl Alcohol (TBA)	104	108	27-183	4	0-60	
Diisopropyl Ether (DIPE)	105	103	78-126	3	0-16	
Ethyl-t-Butyl Ether (ETBE)	102	102	67-133	0	0-21	
Tert-Amyl-Methyl Ether (TAME)	99	99	63-141	0	0-21	
Ethanol	137	107	11-167	25	0-64	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.		Date Received:	02/06/08
3330 Cameron Park Drive, Suite 550		Work Order No:	08-02-0282
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-02-0279-3	**Aqueous**	**GC/MS Z**	**02/09/08**	**02/09/08**	**080209S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	112	103	86-122	9	0-8	4
Carbon Tetrachloride	105	98	78-138	7	0-9	
Chlorobenzene	102	103	90-120	1	0-9	
1,2-Dibromoethane	102	94	70-130	8	0-30	
1,2-Dichlorobenzene	101	108	89-119	6	0-10	
1,1-Dichloroethene	101	95	52-142	6	0-23	
Ethylbenzene	106	107	70-130	1	0-30	
Toluene	102	100	85-127	2	0-12	
Trichloroethene	98	97	78-126	1	0-10	
Vinyl Chloride	96	95	56-140	1	0-21	
Methyl-t-Butyl Ether (MTBE)	100	105	64-136	5	0-28	
Tert-Butyl Alcohol (TBA)	98	100	27-183	2	0-60	
Diisopropyl Ether (DIPE)	104	103	78-126	1	0-16	
Ethyl-t-Butyl Ether (ETBE)	97	97	67-133	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	98	97	63-141	0	0-21	
Ethanol	111	95	11-167	16	0-64	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/06/08
Work Order No: 08-02-0282
Preparation: EPA 5030B
Method: EPA 8260B

Project ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-02-0279-12	**Aqueous**	**GC/MS Z**	**02/09/08**	**02/10/08**	**080209S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	104	103	86-122	1	0-8	
Carbon Tetrachloride	105	106	78-138	2	0-9	
Chlorobenzene	108	104	90-120	4	0-9	
1,2-Dibromoethane	113	108	70-130	4	0-30	
1,2-Dichlorobenzene	110	104	89-119	5	0-10	
1,1-Dichloroethene	103	100	52-142	2	0-23	
Ethylbenzene	107	105	70-130	2	0-30	
Toluene	102	102	85-127	1	0-12	
Trichloroethene	98	99	78-126	1	0-10	
Vinyl Chloride	95	100	56-140	5	0-21	
Methyl-t-Butyl Ether (MTBE)	110	108	64-136	2	0-28	
Tert-Butyl Alcohol (TBA)	105	110	27-183	5	0-60	
Diisopropyl Ether (DIPE)	112	107	78-126	5	0-16	
Ethyl-t-Butyl Ether (ETBE)	110	103	67-133	6	0-21	
Tert-Amyl-Methyl Ether (TAME)	105	103	63-141	2	0-21	
Ethanol	154	114	11-167	30	0-64	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 08-02-0282
Preparation: N/A
Method: EPA TO-15

Project: ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-09-002-6,761	**Air**	**GC/MS V**	**N/A**	**02/06/08**	**080206L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	93	91	60-156	2	0-40	
Toluene	99	96	56-146	2	0-43	
Ethylbenzene	102	99	52-154	3	0-38	
p/m-Xylene	104	100	42-156	3	0-41	
o-Xylene	107	103	52-148	4	0-38	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.		Date Received:	N/A
3330 Cameron Park Drive, Suite 550		Work Order No:	08-02-0282
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-695-3	**Aqueous**	**GC 4**	**02/05/08**	**02/06/08**	**080205B02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	116	113	78-120	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.		Date Received:	N/A
3330 Cameron Park Drive, Suite 550		Work Order No:	08-02-0282
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-695-4	**Aqueous**	**GC 4**	**02/07/08**	**02/07/08**	**080207B01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	115	119	78-120	4	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.		Date Received:	N/A
3330 Cameron Park Drive, Suite 550		Work Order No:	08-02-0282
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-703-5	**Aqueous**	**GC/MS Z**	**02/06/08**	**02/06/08**	**080206L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	102	87-117	0	0-7	
Carbon Tetrachloride	103	100	78-132	2	0-8	
Chlorobenzene	102	98	88-118	3	0-8	
1,2-Dibromoethane	103	96	80-120	8	0-20	
1,2-Dichlorobenzene	99	100	88-118	0	0-8	
1,1-Dichloroethene	100	100	71-131	0	0-14	
Ethylbenzene	106	106	80-120	0	0-20	
Toluene	102	102	85-127	0	0-7	
Trichloroethene	100	100	85-121	1	0-11	
Vinyl Chloride	86	86	64-136	0	0-10	
Methyl-t-Butyl Ether (MTBE)	96	90	67-133	6	0-16	
Tert-Butyl Alcohol (TBA)	100	98	34-154	2	0-19	
Diisopropyl Ether (DIPE)	99	98	80-122	1	0-8	
Ethyl-t-Butyl Ether (ETBE)	95	93	73-127	3	0-11	
Tert-Amyl-Methyl Ether (TAME)	96	97	69-135	1	0-12	
Ethanol	97	88	34-124	10	0-44	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 08-02-0282
Preparation: EPA 5030B
Method: EPA 8260B

Project: ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-703-9	**Aqueous**	**GC/MS Z**	**02/08/08**	**02/09/08**	**080208L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	100	87-117	0	0-7	
Carbon Tetrachloride	105	101	78-132	4	0-8	
Chlorobenzene	100	100	88-118	0	0-8	
1,2-Dibromoethane	93	98	80-120	5	0-20	
1,2-Dichlorobenzene	100	101	88-118	1	0-8	
1,1-Dichloroethene	102	99	71-131	4	0-14	
Ethylbenzene	102	104	80-120	2	0-20	
Toluene	100	100	85-127	0	0-7	
Trichloroethene	103	102	85-121	1	0-11	
Vinyl Chloride	101	97	64-136	4	0-10	
Methyl-t-Butyl Ether (MTBE)	98	94	67-133	5	0-16	
Tert-Butyl Alcohol (TBA)	90	83	34-154	7	0-19	
Diisopropyl Ether (DIPE)	110	102	80-122	7	0-8	
Ethyl-t-Butyl Ether (ETBE)	103	98	73-127	5	0-11	
Tert-Amyl-Methyl Ether (TAME)	94	97	69-135	3	0-12	
Ethanol	102	104	34-124	2	0-44	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 08-02-0282
Preparation: EPA 5030B
Method: EPA 8260B

Project: ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-703-10	**Aqueous**	**GC/MS Z**	**02/09/08**	**02/09/08**	**080209L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	98	87-117	4	0-7	
Carbon Tetrachloride	100	96	78-132	4	0-8	
Chlorobenzene	105	100	88-118	4	0-8	
1,2-Dibromoethane	99	96	80-120	4	0-20	
1,2-Dichlorobenzene	104	100	88-118	4	0-8	
1,1-Dichloroethene	97	90	71-131	8	0-14	
Ethylbenzene	105	100	80-120	5	0-20	
Toluene	100	97	85-127	3	0-7	
Trichloroethene	99	97	85-121	2	0-11	
Vinyl Chloride	96	95	64-136	1	0-10	
Methyl-t-Butyl Ether (MTBE)	95	92	67-133	3	0-16	
Tert-Butyl Alcohol (TBA)	90	90	34-154	0	0-19	
Diisopropyl Ether (DIPE)	98	100	80-122	2	0-8	
Ethyl-t-Butyl Ether (ETBE)	98	94	73-127	4	0-11	
Tert-Amyl-Methyl Ether (TAME)	97	98	69-135	1	0-12	
Ethanol	96	109	34-124	12	0-44	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 08-02-0282
Preparation: EPA 5030B
Method: EPA 8260B

Project: ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-703-11	**Aqueous**	**GC/MS Z**	**02/09/08**	**02/09/08**	**080209L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	105	104	87-117	0	0-7	
Carbon Tetrachloride	106	108	78-132	3	0-8	
Chlorobenzene	104	105	88-118	0	0-8	
1,2-Dibromoethane	104	98	80-120	6	0-20	
1,2-Dichlorobenzene	103	101	88-118	1	0-8	
1,1-Dichloroethene	106	103	71-131	3	0-14	
Ethylbenzene	105	106	80-120	1	0-20	
Toluene	103	104	85-127	1	0-7	
Trichloroethene	98	99	85-121	2	0-11	
Vinyl Chloride	100	102	64-136	2	0-10	
Methyl-t-Butyl Ether (MTBE)	110	105	67-133	5	0-16	
Tert-Butyl Alcohol (TBA)	86	99	34-154	14	0-19	
Diisopropyl Ether (DIPE)	112	112	80-122	0	0-8	
Ethyl-t-Butyl Ether (ETBE)	112	105	73-127	7	0-11	
Tert-Amyl-Methyl Ether (TAME)	106	99	69-135	7	0-12	
Ethanol	91	99	34-124	9	0-44	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-02-0282

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

Atlantic Richfield Company

bp
A BP affiliated company

Chain of Custody Record

(0282)

Page 1 of 1

RUSH

ORIGINAL

Project Name: ARCO Facility No. 2111

BP BU/AR Region/Enfos Segment: BP > America West > Retail > Alameda

State or Lead Regulatory Agency: Alameda County Environmental Health

Requested Due Date (mm/dd/yy): 24 hours for Effluent & STD for others

On-site Time: 1815	Temp: 42
Off-site Time: 0930	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: Calscience Environmental Laboratories, Inc.	
Address: 7440 Lincoln Way	
Garden Grove, CA 92841	
Lab PM: Linda Scharpenberg	
Tele/Fax: 714-895-5494/ 714-895-7501	
BP/AR PM Contact: Paul Supple	
Address: 2010 Crow Canyon Place, Suite 150	
San Ramon, CA	
Tele/Fax: 925-275-3506/925-275-3815	

BP/AR Facility No.:	2111
BP/AR Facility Address:	1156 Davis St., San Leandro
Site Lat/Long:	
California Global ID No.:	T0600101764
Enfos Project No.:	G0C28-0029
Provision or OOC (circle one)	Provision
Phase/WBS:	03-O&M
Sub Phase/Task:	03-Analytical
Cost Element:	Subcontractor Cost

Consultant/Contractor:	Stratus Environmental, Inc.
Address:	3330 Cameron Park Drive, Suite 550
	Cameron Park, CA 95682
Consultant/Contractor Project No.:	E2111-03
Consultant/Contractor PM:	Jay Johnson
Tele/Fax:	(530) 676-6000 / (530) 676-6005
Report Type & QC Level:	Level 1 with EDF
E-mail EDD To:	shayes@stratusinc.net
Invoice to:	Atlantic Richfield Co.

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO	Requested Analysis: BTEX	Requested Analysis: MTBE	Requested Analysis: 5-oxygenates	Turnaround Time: 24-hours	Turnaround Time: Standard	Sample Point Lat/Long and Comments
1	~~02111DUPEXP~~					~~Air~~			~~Air~~					~~x~~	~~x~~	~~x~~			~~x~~	5-oxygenates requested are MTBE, DIPE, ETBE, TAME, and TBA.
2	02111ASAEFF	0855	2505			x	2	2	x					x	x	x			x	
3	02111ASYSINF	0852				x	2	2	x					x	x	x			x	
4	02111AGAC1	0847				x		2	x					x	x	x			x	
5	02111AEFF	0844				x		2	x					x	x	x		x		
6	~~02111DPWMNT~~				~~Water~~							~~x~~		~~x~~	~~x~~		~~x~~		~~x~~	
7	02111ASWINF	0830	2508		x			5				x		x	x		x		x	
8	02111ASWEFF	0827			x			5				x		x	x		x		x	
9	02111WGAC1	0825			x			5				x		x	x		x		x	
10	02111WEFF	0823			x			5				x		x	x		x	x		
11	02111MW2WINF	0834			x			5				x		x	x		x		x	

Sampler's Name:	Chris Hill
Sampler's Company:	Stratus Environmental, Inc.
Shipment Date:	2-5-08
Shipment Method:	GSO
Shipment Tracking No:	

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Chris Hill Stratus	2/5/08	1500			
GSO	2-6-08	0800	Wbatu ca	2-6-08	0800

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

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08 - 02-0282

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: STRATUS DATE: 2-6-08

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

2.7 °C Temperature blank.
_____ °C IR thermometer.
✓ Ambient temperature.

Initial: WB

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact) : _____ Not Present: _____

Initial: WB

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.	✓		
Tedlar bag(s) free of condensation	✓		

Initial: WB

COMMENTS:

STRATUS
ENVIRONMENTAL, INC.

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

April 4, 2008

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: 2 (March 5 and 17, 2008)

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 March 5, 2008.

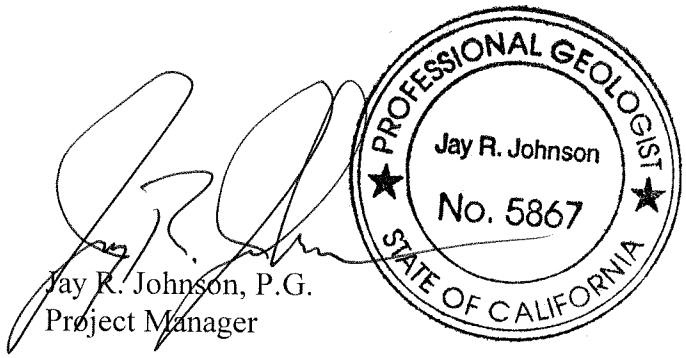
Variations from Scope of Work: The remediation systems were found non-functioning on March 5, 2008, due to high-water level alarm in the air stripper tank. The remediation systems were re-started momentarily on March 5, 2008 and shutdown after sampling, pending receipt of analytical results. Upon receipt of analytical results and compliance verification, the remediation systems were re-started on March 17, 2008, but the DPE system shutdown immediately due to float malfunction of the DPE system. The GETS was left operational on March 17, 2008 and the DPE system will be re-started after replacing the floats.

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
Project Engineer



Jay R. Johnson, P.G.
Project Manager

Attachments:

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

CC: Paul Supple, BP/ARCO

ORIGINAL

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

Date: 3-5-08
Onsite Time: 1400
Offsite Time: 0645
Equipment Manufacturer/Model#

Technician: CHILL
Weather Conditions: clear
Ambient Temperature: 40

System Information

System Status Upon Arrival:	Operational	☐	Non-Operational	☒ High Level Shutdown
System Status Upon Departure:	Operational	☐	Non-Operational	☒
Electric Meter Reading:	NM			
Hour Meter Reading:	1561			
Totalizer Reading Prior to Air Stripper:	36529	PID Calibration Date:	3-3-08	
Totalizer Reading After Air Stripper:	664310			

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		3054			
Pipe Diameter, inches	3	4	4	3	
Air Flow Rate, cfm		NM	150		
Applied Vacuum, "wc		.40	NA	NA	
Temperature, deg F		114	92		
PID Readings, ppmv	20	0	18	0	PID for GAC-1: 1.2

Other Readings/Measurements

Well ID	% Open	Applied Vac., "Hg	Total depth, feet bgs	Stinger Depth, feet bgs			
V-1	25	14					
V-2	25	18					
V-3	25	14					
MW-1	0	0					
MW-3	0	0					
MW-7	100	14					
MW-8	50	18					

Signature: [signature]
Date: 3-5-08

ORIGINAL

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	3508 0603	02111AGAC1	3508 0555
02111ASAEFF	0600	02111AEFF	0550
02111ASYSINF	0603		
Analyses Required: GRO, BTEX, and MTBE			

Operation & Maintenance Notes
Put New Hose on MW-2 Extraction Pump Old one Had Hole

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: 3508

ORIGINAL

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

Date: 3-5-08
Onsite Time: 0402
Offsite Time: 0645

Technician: CHILL
Weather Conditions: Clear
Ambient Temperature 40

System Status Upon Arrival: ☒ Operational ☐ Non-operational DPE Down
System Status At Departure: ☐ Operational ☑ Non-operational
Transfer Pump: ☐ Operational ☑ Non-operational wait for Lab Samples

Transfer Pump Hour Meter Reading: NA

Effluent Flow Totalizer Reading: 646123

No. of Carbon Vessels: 2

Lead Carbon Vessel Pressure (psi): 10

Effluent Water Characteristics
(Quarterly by Field Instrument)
pH: 7.7
Temperature: 1160

Well ID	Hour Meter Reading	Totalizer Reading	Total Depth	Pump Depth	
MW-2		5419			

Sampling Information

Sample ID	Date & Time	Sample ID	Date & Time
02111DPEWINF	3508 0542	02111MW2WINF	3508 0545
02111ASWINF	0538		
02111ASWEFF	0534		
02111WGAC1	0529		
02111WEFF	0526		

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

Notes:

Signature: [signature] Date: 3508

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

ORIGINAL

Date: 31708
Onsite Time: 0430
Offsite Time: 0520
Equipment Manufacturer/Model#

Technician: CHILL
Weather Conditions: Clear
Ambient Temperature: 40

System Information

System Status Upon Arrival: Operational ☐ Non-Operational ☒ LAB Cleaning Restart
System Status Upon Departure: Operational ☐ Non-Operational ☒
Electric Meter Reading: NM
Hour Meter Reading: 1561
Totalizer Reading Prior to Air Stripper: 36647
PID Calibration Date: 3-14-08
Totalizer Reading After Air Stripper: 664430

Just MW-2 Pumping waiting for Floats for DPE Tan

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		3022			
Pipe Diameter, inches	3	4	4	3	
Air Flow Rate, cfm			190		
Applied Vacuum, "wc		.45	NA	NA	
Temperature, deg F		98	60		
PID Readings, ppmv		3	3	0	PID for GAC-1: 8

Other Readings/Measurements

Well ID	% Open	Applied Vac., "Hg	Total depth, feet bgs	Stinger Depth, feet bgs			
V-1	8	0					
V-2							
V-3							
MW-1							
MW-3							
MW-7							
MW-6							

Signature: [signature]
Date: 31708

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: 31708

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

ORIGINAL

Date: 3/7/08
Onsite Time: 0430
Offsite Time: 0520

Technician: CHUC
Weather Conditions: Clear
Ambient Temperature 40

System Status Upon Arrival: ☐ Operational ☒ Non-operational LAB Clean Restart
System Status At Departure: ☒ Operational ☐ Non-operational
Transfer Pump: ☒ Operational ☐ Non-operational

Transfer Pump Hour Meter Reading: NA
Effluent Flow Totalizer Reading: 646221
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		5529			

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: Just Running MW2 -
Waiting for Floats For DPE Tanks

Signature: [signature] Date: 3/7/08

Atlantic Richfield Company

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: Alameda County Environmental Health

Requested Due Date (mm/dd/yy): 24 hours for Effluent & STD for others

On-site Time:	0700	Temp:	40
Off-site Time:	0645	Temp:	42
Sky Conditions:	Clear		
Meteorological Events:			
Wind Speed:		Direction:	

Lab Name:	Calscience Environmental Laboratories, Inc.
Address:	7440 Lincoln Way
	Garden Grove, CA 92841
Lab PM:	Linda Scharpenberg
Tele/Fax:	714-895-5494/ 714-895-7501
BP/AR PM Contact:	Paul Supple
Address:	2010 Crow Canyon Place, Suite 150
	San Ramon, CA
Tele/Fax:	925-275-3506/925-275-3815

BP/AR Facility No.:	2111
BP/AR Facility Address:	1156 Davis St., San Leandro
Site Lat/Long:	
California Global ID No.:	T0600101764
Enfos Project No.:	G0C28-0029
Provision or OOC (circle one)	Provision
Phase/WBS:	03-O&M
Sub Phase/Task:	03-Analytical
Cost Element:	Subcontractor Cost

Consultant/Contractor:	Stratus Environmental, Inc.
Address:	3330 Cameron Park Drive, Suite 550
	Cameron Park, CA 95682
Consultant/Contractor Project No.:	E2111-03
Consultant/Contractor PM:	Jay Johnson
Tele/Fax:	(530) 676-6000 / (530) 676-6005
Report Type & QC Level:	Level 1 with EDF
E-mail EDD To:	shayes@stratusinc.net
Invoice to:	Atlantic Richfield Co.

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO	Requested Analysis: BTEX	Requested Analysis: MTBE	Requested Analysis: 5-oxygenates	Turnaround Time: 24-hours	Turnaround Time: Standard	Sample Point Lat/Long and Comments
1	02111DPEAINF	0603	3508			x		2	x					x	x	x			x	5-oxygenates requested are MTBE, DIPE, ETBE, TAME, and TBA.
2	02111ASAEFF	0600				x		2	x					x	x	x			x	
3	02111ASYSINF	0603				x		2	x					x	x	x			x	
4	02111AGAC1	0555				x		2	x					x	x	x			x	
5	02111AEFF	0550				x		2	x					x	x	x			x	
6	02111DPEWINF	0542			x			6				x		x	x		x		x	
7	02111ASWINF	0538			x			6				x		x	x		x		x	
8	02111ASWEFF	0534			x			6				x		x	x		x		x	
9	02111WGAC1	0529			x			6				x		x	x		x		x	
10	02111WEFF	0526			x			6				x		x	x		x		x	
11	02111MW2WINF	0545	3508		x			6				x		x	x		x	x		
														x	x		x		x	

Sampler's Name:	Chris Hill	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:	Stratus Environmental, Inc.	[signature] Stratus	3508	1500			
Shipment Date:	3508						
Shipment Method:	GSO						
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

Calscience
Environmental
Laboratories, Inc.

March 17, 2008

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

Subject: **Calscience Work Order No.:** **08-03-0424**
Client Reference: **ARCO Facility No. 2111**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 3/6/2008 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Calscience Environmental
Laboratories, Inc.
Linda Scharpenberg
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 03/06/08
Work Order No: 08-03-0424
Preparation: N/A
Method: EPA TO-15
Units: ppm (v/v)

Project: ARCO Facility No. 2111

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111DPEAINF	**08-03-0424-1-A**	**03/05/08 06:03**	**Air**	**GC/MS AA**	**N/A**	**03/06/08 20:02**	**080306L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	0.27	0.050	100		Xylenes (total)	0.0060	0.0040	4	
Toluene	0.0083	0.0020	4		Methyl-t-Butyl Ether (MTBE)	5.3	0.80	400	
Ethylbenzene	0.010	0.0020	4						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	102	57-129			1,2-Dichloroethane-d4	106	47-137		
Toluene-d8	105	78-156							

02111ASAEFF	08-03-0424-2-A	03/05/08 06:00	Air	GC/MS AA	N/A	03/06/08 16:08	080306L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	0.00076	0.00050	1		Xylenes (total)	0.0013	0.0010	1	
Toluene	0.0063	0.00050	1		Methyl-t-Butyl Ether (MTBE)	0.076	0.0050	2.5	
Ethylbenzene	0.00057	0.00050	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	99	57-129			1,2-Dichloroethane-d4	107	47-137		
Toluene-d8	96	78-156							

02111ASYSINF	08-03-0424-3-A	03/05/08 06:05	Air	GC/MS AA	N/A	03/06/08 18:30	080306L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	0.25	0.20	400		Xylenes (total)	0.024	0.0040	4	
Toluene	0.0089	0.0020	4		Methyl-t-Butyl Ether (MTBE)	7.3	0.80	400	
Ethylbenzene	0.075	0.0020	4						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	102	57-129			1,2-Dichloroethane-d4	106	47-137		
Toluene-d8	104	78-156							

02111AGAC1	08-03-0424-4-A	03/05/08 05:55	Air	GC/MS AA	N/A	03/06/08 17:44	080306L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.00050	1		Xylenes (total)	0.0011	0.0010	1	
Toluene	0.0058	0.00050	1		Methyl-t-Butyl Ether (MTBE)	0.52	0.040	20	
Ethylbenzene	ND	0.00050	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	91	57-129			1,2-Dichloroethane-d4	108	47-137		
Toluene-d8	96	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 03/06/08
Work Order No: 08-03-0424
Preparation: N/A
Method: EPA TO-15
Units: ppm (v/v)

Project: ARCO Facility No. 2111

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111AEFF	**08-03-0424-5-A**	**03/05/08 05:50**	**Air**	**GC/MS AA**	**N/A**	**03/06/08 16:57**	**080306L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.00050	1		Xylenes (total)	ND	0.0010	1	
Toluene	0.0069	0.00050	1		Methyl-t-Butyl Ether (MTBE)	0.035	0.0020	1	
Ethylbenzene	ND	0.00050	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	98	57-129			1,2-Dichloroethane-d4	108	47-137		
Toluene-d8	100	78-156							

Method Blank	097-09-002-6,875	N/A	Air	GC/MS AA	N/A	03/06/08 14:30	080306L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.00050	1		Xylenes (total)	ND	0.0010	1	
Toluene	ND	0.00050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0020	1	
Ethylbenzene	ND	0.00050	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	99	57-129			1,2-Dichloroethane-d4	110	47-137		
Toluene-d8	96	78-156							

Method Blank	097-09-002-6,876	N/A	Air	GC/MS NN	N/A	03/07/08 11:00	080307L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.00050	1		Xylenes (total)	ND	0.0010	1	
Toluene	ND	0.00050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0020	1	
Ethylbenzene	ND	0.00050	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	89	57-129			1,2-Dichloroethane-d4	94	47-137		
Toluene-d8	95	78-156							

Method Blank	097-09-002-6,879	N/A	Air	GC/MS AA	N/A	03/07/08 14:48	080307L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.00050	1		Xylenes (total)	ND	0.0010	1	
Toluene	ND	0.00050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0020	1	
Ethylbenzene	ND	0.00050	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	99	57-129			1,2-Dichloroethane-d4	104	47-137		
Toluene-d8	101	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 03/06/08
Work Order No: 08-03-0424
Preparation: N/A
Method: EPA TO-3M

Project: ARCO Facility No. 2111

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111DPEAINF	**08-03-0424-1-A**	**03/05/08 06:03**	**Air**	**GC 38**	**N/A**	**03/06/08 16:27**	**080306L01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	22	13	1		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111ASAEFF	**08-03-0424-2-A**	**03/05/08 06:00**	**Air**	**GC 38**	**N/A**	**03/06/08 14:48**	**080306L01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	13	1		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111ASYSINF	**08-03-0424-3-A**	**03/05/08 06:05**	**Air**	**GC 38**	**N/A**	**03/06/08 17:08**	**080306L01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	16	13	1		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111AGAC1	**08-03-0424-4-A**	**03/05/08 05:55**	**Air**	**GC 38**	**N/A**	**03/06/08 18:43**	**080306L01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	13	1		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111AEFF	**08-03-0424-5-A**	**03/05/08 05:50**	**Air**	**GC 38**	**N/A**	**03/06/08 15:30**	**080306L01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	13	1		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-693-21**	**N/A**	**Air**	**GC 38**	**N/A**	**03/06/08 08:35**	**080306L01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	13	1		ppm (v/v)

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 03/06/08
Work Order No: 08-03-0424
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ARCO Facility No. 2111

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111DPEWINF	**08-03-0424-6-E**	**03/05/08 05:42**	**Aqueous**	**GC 4**	**03/06/08**	**03/07/08 03:22**	**080306B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	107	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111ASWINF	**08-03-0424-7-E**	**03/05/08 05:38**	**Aqueous**	**GC 4**	**03/06/08**	**03/07/08 03:55**	**080306B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	860	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	115	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111ASWEFF	**08-03-0424-8-E**	**03/05/08 05:34**	**Aqueous**	**GC 4**	**03/06/08**	**03/07/08 00:37**	**080306B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	113	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111WGAC1	**08-03-0424-9-E**	**03/05/08 05:29**	**Aqueous**	**GC 4**	**03/06/08**	**03/07/08 02:16**	**080306B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	113	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 03/06/08
Work Order No: 08-03-0424
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ARCO Facility No. 2111

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111WEFF	**08-03-0424-10-E**	**03/05/08 05:26**	**Aqueous**	**GC 4**	**03/05/08**	**03/06/08 13:57**	**080305B02**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	107	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111MW2WINF	**08-03-0424-11-E**	**03/05/08 05:45**	**Aqueous**	**GC 4**	**03/06/08**	**03/07/08 02:49**	**080306B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	1600	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	108	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-695-49**	**N/A**	**Aqueous**	**GC 4**	**03/05/08**	**03/06/08 07:16**	**080305B02**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	99	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-695-50**	**N/A**	**Aqueous**	**GC 4**	**03/06/08**	**03/06/08 00:04**	**080306B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	97	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 03/06/08
Work Order No: 08-03-0424
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ARCO Facility No. 2111

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111DPEWINF	**08-03-0424-6-A**	**03/05/08 05:42**	**Aqueous**	**GC/MS BB**	**03/11/08**	**03/12/08 09:18**	**080311L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	91	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	1.8	0.50	1	
Methyl-t-Butyl Ether (MTBE)	570	20	40						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	100	73-157			Dibromofluoromethane	109	82-142		
Toluene-d8	100	82-112			1,4-Bromofluorobenzene	91	75-105		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111ASWINF	**08-03-0424-7-A**	**03/05/08 05:38**	**Aqueous**	**GC/MS BB**	**03/13/08**	**03/13/08 18:37**	**080313L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	40	40	80		Tert-Butyl Alcohol (TBA)	1800	800	80	
Ethylbenzene	39	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Xylenes (total)	12	0.50	1		Tert-Amyl-Methyl Ether (TAME)	5.0	0.50	1	
Methyl-t-Butyl Ether (MTBE)	880	40	80						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	105	73-157			Dibromofluoromethane	115	82-142		
Toluene-d8	101	82-112			1,4-Bromofluorobenzene	95	75-105		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111ASWEFF	**08-03-0424-8-A**	**03/05/08 05:34**	**Aqueous**	**GC/MS BB**	**03/13/08**	**03/13/08 19:42**	**080313L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	1500	400	40	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	19	0.50	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	112	73-157			Dibromofluoromethane	120	82-142		
Toluene-d8	100	82-112			1,4-Bromofluorobenzene	91	75-105		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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

Date Received: 03/06/08
Work Order No: 08-03-0424
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ARCO Facility No. 2111

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111WGAC1	**08-03-0424-9-B**	**03/05/08 05:29**	**Aqueous**	**GC/MS BB**	**03/13/08**	**03/13/08 20:14**	**080313L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	19	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	106	73-157		Dibromofluoromethane	111	82-142	
Toluene-d8	99	82-112		1,4-Bromofluorobenzene	93	75-105	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111WEFF	**08-03-0424-10-A**	**03/05/08 05:26**	**Aqueous**	**GC/MS BB**	**03/06/08**	**03/06/08 18:29**	**080306L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	93	73-157		Dibromofluoromethane	101	82-142	
Toluene-d8	95	82-112		1,4-Bromofluorobenzene	92	75-105	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
02111MW2WINF	**08-03-0424-11-B**	**03/05/08 05:45**	**Aqueous**	**GC/MS BB**	**03/13/08**	**03/13/08 20:46**	**080313L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	56	40	80		Tert-Butyl Alcohol (TBA)	2100	800	80	
Ethylbenzene	50	40	80		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Xylenes (total)	18	0.50	1		Tert-Amyl-Methyl Ether (TAME)	5.4	0.50	1	
Methyl-t-Butyl Ether (MTBE)	990	40	80						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	98	73-157		Dibromofluoromethane	107	82-142	
Toluene-d8	105	82-112		1,4-Bromofluorobenzene	97	75-105	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 03/06/08
Work Order No: 08-03-0424
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ARCO Facility No. 2111

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-703-73**	**N/A**	**Aqueous**	**GC/MS BB**	**03/06/08**	**03/06/08 16:19**	**080306L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	98	73-157		Dibromofluoromethane	98	82-142	
Toluene-d8	95	82-112		1,4-Bromofluorobenzene	93	75-105	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-703-86**	**N/A**	**Aqueous**	**GC/MS BB**	**03/11/08**	**03/12/08 02:18**	**080311L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	102	73-157		Dibromofluoromethane	102	82-142	
Toluene-d8	99	82-112		1,4-Bromofluorobenzene	91	75-105	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-703-89**	**N/A**	**Aqueous**	**GC/MS BB**	**03/13/08**	**03/13/08 14:18**	**080313L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	108	73-157		Dibromofluoromethane	107	82-142	
Toluene-d8	98	82-112		1,4-Bromofluorobenzene	91	75-105	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 03/06/08
Work Order No: 08-03-0424
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ARCO Facility No. 2111

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-703-91**	**N/A**	**Aqueous**	**GC/MS BB**	**03/14/08**	**03/14/08 14:57**	**080314L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	99	73-157			Dibromofluoromethane	101	82-142		
Toluene-d8	97	82-112			1,4-Bromofluorobenzene	94	75-105		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

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

Date Received: 03/06/08
Work Order No: 08-03-0424
Preparation: N/A
Method: EPA TO-3M

Project: ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
08-03-0421-1	**Air**	**GC 38**	**N/A**	**03/06/08**	**080306D01**

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	200	190	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 03/06/08
Work Order No: 08-03-0424
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-03-0131-9	**Aqueous**	**GC 4**	**03/05/08**	**03/06/08**	**080305S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	107	109	38-134	2	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 03/06/08
Work Order No: 08-03-0424
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
02111ASWEFF	**Aqueous**	**GC 4**	**03/06/08**	**03/07/08**	**080306S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	108	110	38-134	2	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 03/06/08
Work Order No: 08-03-0424
Preparation: EPA 5030B
Method: EPA 8260B

Project ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-03-0420-5	**Aqueous**	**GC/MS BB**	**03/06/08**	**03/06/08**	**080306S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	93	92	86-122	1	0-8	
Carbon Tetrachloride	78	79	78-138	1	0-9	
Chlorobenzene	96	96	90-120	1	0-9	
1,2-Dibromoethane	92	91	70-130	1	0-30	
1,2-Dichlorobenzene	94	95	89-119	1	0-10	
1,1-Dichloroethene	78	89	52-142	13	0-23	
Ethylbenzene	88	90	70-130	2	0-30	
Toluene	90	91	85-127	1	0-12	
Trichloroethene	90	91	78-126	0	0-10	
Vinyl Chloride	86	85	56-140	1	0-21	
Methyl-t-Butyl Ether (MTBE)	88	80	64-136	10	0-28	
Tert-Butyl Alcohol (TBA)	111	95	27-183	16	0-60	
Diisopropyl Ether (DIPE)	91	95	78-126	4	0-16	
Ethyl-t-Butyl Ether (ETBE)	87	87	67-133	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	84	82	63-141	3	0-21	
Ethanol	59	60	11-167	3	0-64	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 03/06/08
Work Order No: 08-03-0424
Preparation: EPA 5030B
Method: EPA 8260B

Project ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-03-0134-8	**Aqueous**	**GC/MS BB**	**03/11/08**	**03/12/08**	**080311S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	95	92	86-122	4	0-8	
Carbon Tetrachloride	90	88	78-138	3	0-9	
Chlorobenzene	96	94	90-120	2	0-9	
1,2-Dibromoethane	106	91	70-130	16	0-30	
1,2-Dichlorobenzene	97	95	89-119	2	0-10	
1,1-Dichloroethene	60	78	52-142	27	0-23	4
Ethylbenzene	81	87	70-130	8	0-30	
Toluene	86	87	85-127	0	0-12	
Trichloroethene	92	87	78-126	5	0-10	
Vinyl Chloride	83	90	56-140	9	0-21	
Methyl-t-Butyl Ether (MTBE)	128	100	64-136	25	0-28	
Tert-Butyl Alcohol (TBA)	98	97	27-183	1	0-60	
Diisopropyl Ether (DIPE)	114	108	78-126	5	0-16	
Ethyl-t-Butyl Ether (ETBE)	119	101	67-133	16	0-21	
Tert-Amyl-Methyl Ether (TAME)	113	94	63-141	18	0-21	
Ethanol	96	88	11-167	8	0-64	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 03/06/08
Work Order No: 08-03-0424
Preparation: EPA 5030B
Method: EPA 8260B

Project ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-03-1083-4	**Aqueous**	**GC/MS BB**	**03/13/08**	**03/13/08**	**080313S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	89	90	86-122	1	0-8	
Carbon Tetrachloride	92	94	78-138	2	0-9	
Chlorobenzene	91	92	90-120	1	0-9	
1,2-Dibromoethane	88	90	70-130	3	0-30	
1,2-Dichlorobenzene	89	91	89-119	2	0-10	
1,1-Dichloroethene	79	80	52-142	0	0-23	
Ethylbenzene	91	91	70-130	0	0-30	
Toluene	87	87	85-127	0	0-12	
Trichloroethene	88	89	78-126	1	0-10	
Vinyl Chloride	90	92	56-140	2	0-21	
Methyl-t-Butyl Ether (MTBE)	88	91	64-136	4	0-28	
Tert-Butyl Alcohol (TBA)	106	104	27-183	2	0-60	
Diisopropyl Ether (DIPE)	96	96	78-126	1	0-16	
Ethyl-t-Butyl Ether (ETBE)	91	92	67-133	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	88	90	63-141	3	0-21	
Ethanol	101	125	11-167	21	0-64	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 03/06/08
Work Order No: 08-03-0424
Preparation: EPA 5030B
Method: EPA 8260B

Project ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-03-0128-5	**Aqueous**	**GC/MS BB**	**03/14/08**	**03/14/08**	**080314S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	97	86-122	2	0-8	
Carbon Tetrachloride	100	102	78-138	2	0-9	
Chlorobenzene	98	97	90-120	1	0-9	
1,2-Dibromoethane	95	94	70-130	1	0-30	
1,2-Dichlorobenzene	98	97	89-119	1	0-10	
1,1-Dichloroethene	97	95	52-142	3	0-23	
Ethylbenzene	98	97	70-130	1	0-30	
Toluene	95	94	85-127	1	0-12	
Trichloroethene	97	94	78-126	3	0-10	
Vinyl Chloride	98	99	56-140	1	0-21	
Methyl-t-Butyl Ether (MTBE)	94	92	64-136	2	0-28	
Tert-Butyl Alcohol (TBA)	116	103	27-183	8	0-60	
Diisopropyl Ether (DIPE)	105	104	78-126	1	0-16	
Ethyl-t-Butyl Ether (ETBE)	101	102	67-133	0	0-21	
Tert-Amyl-Methyl Ether (TAME)	98	95	63-141	3	0-21	
Ethanol	99	114	11-167	13	0-64	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 08-03-0424
Preparation: N/A
Method: EPA TO-15

Project: ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-09-002-6,875	Air	GC/MS AA	N/A	03/06/08	080306L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	105	105	60-156	0	0-40	
Toluene	104	105	56-146	0	0-43	
Ethylbenzene	107	107	52-154	0	0-38	
p/m-Xylene	107	106	42-156	0	0-41	
o-Xylene	106	105	52-148	1	0-38	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 08-03-0424
Preparation: N/A
Method: EPA TO-15

Project: ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-09-002-6,879	Air	GC/MS AA	N/A	03/07/08	080307L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	112	109	60-156	3	0-40	
Toluene	111	109	56-146	2	0-43	
Ethylbenzene	114	109	52-154	5	0-38	
p/m-Xylene	113	108	42-156	5	0-41	
o-Xylene	113	106	52-148	6	0-38	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 08-03-0424
Preparation: N/A
Method: EPA TO-15

Project: ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-09-002-6,876	**Air**	**GC/MS NN**	**N/A**	**03/07/08**	**080307L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	114	122	60-156	6	0-40	
Toluene	120	129	56-146	7	0-43	
Ethylbenzene	117	124	52-154	6	0-38	
p/m-Xylene	111	118	42-156	6	0-41	
o-Xylene	114	121	52-148	6	0-38	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 08-03-0424
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-695-49	**Aqueous**	**GC 4**	**03/05/08**	**03/06/08**	**080305B02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	109	109	78-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 08-03-0424
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-695-50	**Aqueous**	**GC 4**	**03/06/08**	**03/06/08**	**080306B01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	113	112	78-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 08-03-0424
Preparation: EPA 5030B
Method: EPA 8260B

Project: ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-703-73	**Aqueous**	**GC/MS BB**	**03/06/08**	**03/06/08**	**080306L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	97	96	87-117	1	0-7	
Carbon Tetrachloride	82	83	78-132	1	0-8	
Chlorobenzene	99	100	88-118	1	0-8	
1,2-Dibromoethane	99	99	80-120	1	0-20	
1,2-Dichlorobenzene	99	99	88-118	0	0-8	
1,1-Dichloroethene	95	95	71-131	1	0-14	
Ethylbenzene	95	94	80-120	1	0-20	
Toluene	95	96	85-127	1	0-7	
Trichloroethene	99	99	85-121	0	0-11	
Vinyl Chloride	92	92	64-136	1	0-10	
Methyl-t-Butyl Ether (MTBE)	88	87	67-133	1	0-16	
Tert-Butyl Alcohol (TBA)	92	93	34-154	1	0-19	
Diisopropyl Ether (DIPE)	97	95	80-122	2	0-8	
Ethyl-t-Butyl Ether (ETBE)	89	91	73-127	1	0-11	
Tert-Amyl-Methyl Ether (TAME)	88	87	69-135	1	0-12	
Ethanol	67	82	34-124	20	0-44	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 08-03-0424
Preparation: EPA 5030B
Method: EPA 8260B

Project: ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-703-86	**Aqueous**	**GC/MS BB**	**03/11/08**	**03/11/08**	**080311L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	90	92	87-117	2	0-7	
Carbon Tetrachloride	88	90	78-132	2	0-8	
Chlorobenzene	92	92	88-118	1	0-8	
1,2-Dibromoethane	96	95	80-120	1	0-20	
1,2-Dichlorobenzene	94	95	88-118	1	0-8	
1,1-Dichloroethene	83	91	71-131	10	0-14	
Ethylbenzene	92	93	80-120	1	0-20	
Toluene	88	90	85-127	3	0-7	
Trichloroethene	91	92	85-121	1	0-11	
Vinyl Chloride	92	97	64-136	5	0-10	
Methyl-t-Butyl Ether (MTBE)	94	98	67-133	5	0-16	
Tert-Butyl Alcohol (TBA)	102	103	34-154	2	0-19	
Diisopropyl Ether (DIPE)	94	97	80-122	3	0-8	
Ethyl-t-Butyl Ether (ETBE)	93	95	73-127	2	0-11	
Tert-Amyl-Methyl Ether (TAME)	91	95	69-135	5	0-12	
Ethanol	104	112	34-124	7	0-44	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 08-03-0424
Preparation: EPA 5030B
Method: EPA 8260B

Project: ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-703-89	**Aqueous**	**GC/MS BB**	**03/13/08**	**03/13/08**	**080313L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	90	91	87-117	1	0-7	
Carbon Tetrachloride	93	93	78-132	0	0-8	
Chlorobenzene	92	93	88-118	1	0-8	
1,2-Dibromoethane	90	93	80-120	3	0-20	
1,2-Dichlorobenzene	92	93	88-118	0	0-8	
1,1-Dichloroethene	82	89	71-131	9	0-14	
Ethylbenzene	92	92	80-120	0	0-20	
Toluene	89	90	85-127	2	0-7	
Trichloroethene	90	91	85-121	0	0-11	
Vinyl Chloride	91	90	64-136	0	0-10	
Methyl-t-Butyl Ether (MTBE)	89	90	67-133	0	0-16	
Tert-Butyl Alcohol (TBA)	105	101	34-154	5	0-19	
Diisopropyl Ether (DIPE)	91	91	80-122	0	0-8	
Ethyl-t-Butyl Ether (ETBE)	90	90	73-127	0	0-11	
Tert-Amyl-Methyl Ether (TAME)	88	89	69-135	1	0-12	
Ethanol	105	98	34-124	7	0-44	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 08-03-0424
Preparation: EPA 5030B
Method: EPA 8260B

Project: ARCO Facility No. 2111

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-703-91	**Aqueous**	**GC/MS BB**	**03/14/08**	**03/14/08**	**080314L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	96	97	87-117	1	0-7	
Carbon Tetrachloride	99	100	78-132	1	0-8	
Chlorobenzene	97	98	88-118	1	0-8	
1,2-Dibromoethane	93	99	80-120	6	0-20	
1,2-Dichlorobenzene	95	97	88-118	2	0-8	
1,1-Dichloroethene	99	93	71-131	7	0-14	
Ethylbenzene	97	99	80-120	2	0-20	
Toluene	94	95	85-127	1	0-7	
Trichloroethene	94	96	85-121	3	0-11	
Vinyl Chloride	99	99	64-136	0	0-10	
Methyl-t-Butyl Ether (MTBE)	96	98	67-133	2	0-16	
Tert-Butyl Alcohol (TBA)	91	97	34-154	6	0-19	
Diisopropyl Ether (DIPE)	101	101	80-122	0	0-8	
Ethyl-t-Butyl Ether (ETBE)	100	101	73-127	1	0-11	
Tert-Amyl-Methyl Ether (TAME)	96	100	69-135	4	0-12	
Ethanol	89	91	34-124	2	0-44	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-03-0424

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

Atlantic Richfield Company

bp
A BP affiliated company

Chain of Custody Record

RUSH ORIGINAL (0424)

Page 1 of 1

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

On-site Time: 0700	Temp: 40
Off-site Time: 0645	Temp: 42
Sky Conditions: Clear	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: Calscience Environmental Laboratories, Inc.	
Address: 7440 Lincoln Way	
Garden Grove, CA 92841	
Lab PM: Linda Scharpenberg	
Tele/Fax: 714-895-5494/ 714-895-7501	
BP/AR PM Contact: Paul Supple	
Address: 2010 Crow Canyon Place, Suite 150	
San Ramon, CA	
Tele/Fax: 925-275-3506/925-275-3815	

BP/AR Facility No.:	2111
BP/AR Facility Address:	1156 Davis St., San Leandro
Site Lat/Long:	
California Global ID No.:	T0600101764
Enfos Project No.:	G0C28-0029
Provision or OOC (circle one)	Provision
Phase/WBS:	03-O&M
Sub Phase/Task:	03-Analytical
Cost Element:	Subcontractor Cost

Consultant/Contractor:	Stratus Environmental, Inc.
Address:	3330 Cameron Park Drive, Suite 550
	Cameron Park, CA 95682
Consultant/Contractor Project No.:	E2111-03
Consultant/Contractor PM:	Jay Johnson
Tele/Fax:	(530) 676-6000 / (530) 676-6005
Report Type & QC Level:	Level 1 with EDF
E-mail EDD To:	shaves@stratusinc.net
Invoice to:	Atlantic Richfield Co.

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO	Requested Analysis: BTEX	Requested Analysis: MTBE	Requested Analysis: 5-oxygenates	Turnaround Time: 24-hours	Turnaround Time: Standard	Sample Point Lat/Long and Comments
1	02111DPEAINF	0603	3506			x		2	x					x	x	x			x	5-oxygenates requested are MTBE, DIPE, ETBE, TAME, and TBA.
2	02111ASAEFF	0600				x		2	x					x	x	x			x	
3	02111ASYSINF	0603				x		2	x					x	x	x			x	
4	02111AGAC1	0555				x		2	x					x	x	x			x	
5	02111AEFF	0550				x		2	x					x	x	x		x		
6	02111DPEWINF	0542			x			6				x		x	x		x		x	
7	02111ASWINF	0558			x			6				x		x	x		x		x	
8	02111ASWEFF	0554			x			6				x		x	x		x		x	
9	02111WGAC1	0529			x			6				x		x	x		x		x	
10	02111WEFF	0526			x			6				x		x	x		x	x		
11	02111MW2WINF	0545	3506		x			6				x		x	x		x		x	

Sampler's Name:	Chris Hill	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:	Stratus Environmental, Inc.	[signature] Stratus	3506	1500			
Shipment Date:	3506						
Shipment Method:	GSO						
Shipment Tracking No:	925516156 2				[signature]	3/16/06	1000

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

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08 - 03 - 0424

Cooler 1 of 2

SAMPLE RECEIPT FORM

CLIENT: Stratus DATE: 3/6/08

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

4.1 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: [signature]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact) : _____ Not Present: _____

Initial: [signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.	✓		
Tedlar bag(s) free of condensation			✓

Initial: [signature]

COMMENTS:

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08 - 0 3 - 0 4 2 4

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Stratus DATE: 3/6/08

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
_____ °C IR thermometer.
✓ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact) : _____ Not Present: _____

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation	✓		

Initial: [illegible]

COMMENTS:

APPENDIX D

STRATUS REMEDIATION SYSTEM MONTHLY DISCHARGE REPORTS
(INCLUDES BRIEF STATEMENTS SUMMARIZING OPERATIONS AND SEWER DISCHARGE SUMMARY TABLES)

STRATUS
ENVIRONMENTAL, INC.

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

TRANSMITTAL

Date February 4, 2008

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

Item	Description
1	Monthly Discharge Report for January 2008
2	Table 1– Sewer Discharge Summary Report

Comments:

Dear Ms. Treece:

Please find attached for your review the *Monthly Discharge Report* for January 2008, for the remediation system at ARCO Service Station No. 2111, located at 1156 Davis Street, San Leandro, California. A total of approximately 2,918 gallons of treated groundwater were discharged to the sanitary sewer between December 17, 2007 and January 15, 2008.

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

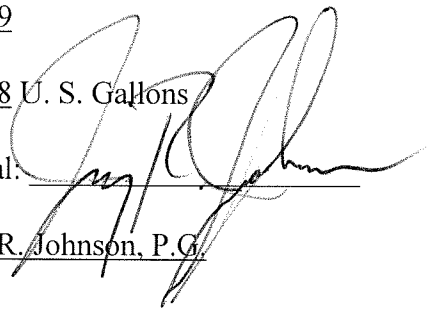
cc: Mr. Rob Miller, Broadbent & Associates, Inc.

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: December 17, 2007 to January 15, 2008. 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: 29

Total monthly discharge: 2,918 U. S. Gallons

Signature of Certifying Official: 

Printed Name of Official: Jay R. Johnson, P.G.

Title: Project Manager

Date: February 4, 2008

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 remediation systems were found non-functioning on January 7, 2008 due to high-water level alarm on the air stripper. The remediation systems were re-started momentarily on January 7, 2008 and shutdown after sampling, pending receipt of analytical results. Upon receipt of analytical results and compliance verification, the remediation systems were re-started on January 15, 2008.

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)	Monthy Discharge (gallons)
January-07	1/29/07 8:00 1/29/07 8:00 1/29/07[1] 12:00 01/30/07 01/31/07	System Start-up 3,000 5,000 6,200 8,560	5,560
February-07	2/1/07 5:15 2/2/07 5:00 2/5/07 5:00 2/20/07 6:30	16,860 25,480 33,400 122,790	114,230
March-07	3/5/07[2] 5:00 3/8/07[3] 4:50 3/14/07[4] 7:00 3/29/07[5] 10:00	130,565 132,951 NM 133,262	10,472
April-07	4/2/07[6] 5:30 4/10/07[7] 5:00 4/23/07[8] 7:00 4/26/07 6:00	170,596 NM 172,210 200,143	66,881
May-07	5/1/2007[9] 4:50 5/15/2007[10] 5:00 5/29/07 8:30	220,892 225,297 410,246	210,103
June-07	6/4/2007[11] 5:00 6/12/2007[12] 5:00 6/26/2007[13] 4:30	429,450 430,092 430,222	19,976

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)	Monthy Discharge (gallons)
July-07	7/2/07 5:30 7/10/2007 [14] 5:45 7/17/2007 [15] 5:00	480,377 523,553 546,094	115,872
August-07	8/1/2007 [15] 5:00 8/7/07 5:00 8/20/2007 [15] 5:00	580,301 580,662 582,706	36,612
September-07	9/5/2007 [16] 5:00 9/11/2007 [17] 9:00 9/17/2007 [18] 5:30	589,944 589,950 591,443	8,737
October-07	10/1/07 [19] 5:00 10/11/07 [20] 8:15 10/23/07 [17] 5:00 10/30/07 [15] 7:10	592,403 NM NM 593,647	2,204
November-07	11/6/07 [11] 4:30 11/14/07 [17] 6:00 11/20/07 [15] 6:50	612,552 612,552 613,537	19,890
December-07	12/5/07 [11] 5:00 12/17/07 [17] 4:30	633,121 633,123	19,586
January-08	1/7/08 [11] 5:00 1/15/08 [17] 7:00	635,200 636,041	2,918

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)	Monthy Discharge (gallons)

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.

[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.

[17] System re-started upon receipt of analytical results and compliance verification.

[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.

[19] System re-started, but shutdown after sampling pending receipt and verification of analytical results.

[20] System re-started briefly but shutdown to verify effluent air results.

STRATUS
ENVIRONMENTAL, INC.

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

TRANSMITTAL

Date March 3, 2008

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

Item	Description
1	Monthly Discharge Report for February 2008
2	Table 1– Sewer Discharge Summary Report

Comments:

Dear Ms. Treece:

Please find attached for your review the *Monthly Discharge Report* for February 2008, for the remediation system at ARCO Service Station No. 2111, located at 1156 Davis Street, San Leandro, California. A total of approximately 7,402 gallons of treated groundwater were discharged to the sanitary sewer between January 15, 2008 and February 26, 2008.

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: January 15, 2008 to February 26, 2008. 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: 42

Total monthly discharge: 7,402 U. S. Gallons

Signature of Certifying Official: _____

Printed Name of Official: Jay R. Johnson, P.G.

Title: Project Manager

Date: March 3, 2008

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 remediation systems were found non-functioning on February 5, 2008, due to high-water level alarm in the air stripper tank. Additionally, the transfer pump on the DPE system was also observed malfunctioning on February 5, 2008. The remediation systems were re-started momentarily on February 5, 2008 and shutdown after sampling, pending receipt of analytical results and replacement of transfer pump. Upon receipt of analytical results and compliance verification and replacement of the transfer pump on the DPE system, the remediation systems were re-started on February 26, 2008.

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)	Monthy Discharge (gallons)
January-07	1/29/07 8:00 1/29/07 8:00 1/29/07[1] 12:00 01/30/07 01/31/07	System Start-up 3,000 5,000 6,200 8,560	5,560
February-07	2/1/07 5:15 2/2/07 5:00 2/5/07 5:00 2/20/07 6:30	16,860 25,480 33,400 122,790	114,230
March-07	3/5/07[2] 5:00 3/8/07[3] 4:50 3/14/07[4] 7:00 3/29/07[5] 10:00	130,565 132,951 NM 133,262	10,472
April-07	4/2/07[6] 5:30 4/10/07[7] 5:00 4/23/07[8] 7:00 4/26/07 6:00	170,596 NM 172,210 200,143	66,881
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June-07	6/4/2007[11] 5:00 6/12/2007[12] 5:00 6/26/2007[13] 4:30	429,450 430,092 430,222	19,976

TABLE 1
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1156 Davis Street
San Leandro, California

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August-07	8/1/2007 [15] 5:00 8/7/07 5:00 8/20/2007 [15] 5:00	580,301 580,662 582,706	36,612
September-07	9/5/2007 [16] 5:00 9/11/2007 [17] 9:00 9/17/2007 [18] 5:30	589,944 589,950 591,443	8,737
October-07	10/1/07 [19] 5:00 10/11/07 [20] 8:15 10/23/07 [17] 5:00 10/30/07 [15] 7:10	592,403 NM NM 593,647	2,204
November-07	11/6/07 [11] 4:30 11/14/07 [17] 6:00 11/20/07 [15] 6:50	612,552 612,552 613,537	19,890
December-07	12/5/07 [11] 5:00 12/17/07 [17] 4:30	633,121 633,123	19,586
January-08	1/7/08 [11] 5:00 1/15/08 [17] 7:00	635,200 636,041	2,918
February-08	2/5/08 [21] 8:15 2/26/08 [22] 6:00	642,841 643,443	7,402

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)	Monthy Discharge (gallons)

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.

[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.

[17] System re-started upon receipt of analytical results and compliance verification.

[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.

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)	Monthy Discharge (gallons)

[19] System re-started, but shutdown after sampling pending receipt and verification of analytical results.

[20] System re-started briefly but shutdown to verify effluent air results.

[21] System observed non-functioning upon arrival due to high water level alarm on air stripper and transfer pump malfunction. System re-started; but shutdown after sampling pending receipt and verification of analytical results and replacement of transfer pump.

[22] System re-started upon receipt of analytical results and compliance verification and replacement of transfer pump.

STRATUS
ENVIRONMENTAL, INC.

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

TRANSMITTAL

Date April 1, 2008

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

Item	Description
1	Monthly Discharge Report for March 2008
2	Table 1– Sewer Discharge Summary Report

Comments:

Dear Ms. Treece:

Please find attached for your review the *Monthly Discharge Report* for March 2008, for the remediation system at ARCO Service Station No. 2111, located at 1156 Davis Street, San Leandro, California. A total of approximately 2,778 gallons of treated groundwater were discharged to the sanitary sewer between February 26, 2008 and March 17, 2008.

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: February 26, 2008 to March 17, 2008. 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: 20

Total monthly discharge: 2,778 U. S. Gallons

Signature of Certifying Official: _____

Printed Name of Official: Jay R. Johnson, P.G.

Title: Project Manager

Date: April 1, 2008

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 remediation systems were found non-functioning on March 5, 2008, due to high-water level alarm in the air stripper tank. The remediation systems were re-started momentarily on March 5, 2008 and shutdown after sampling, pending receipt of analytical results and replacement of transfer pump. Upon receipt of analytical results and compliance verification, the remediation systems were re-started on March 17, 2008. However, the DPE system shutdown immediately due to float malfunction on the DPE system. The GETS was left operational on March 17, 2008 and the DPE system will be re-started in April 2008 after replacing the floats.

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)	Monthy Discharge (gallons)
January-07	1/29/07 8:00 1/29/07 8:00 1/29/07[1] 12:00 01/30/07 01/31/07	System Start-up 3,000 5,000 6,200 8,560	5,560
February-07	2/1/07 5:15 2/2/07 5:00 2/5/07 5:00 2/20/07 6:30	16,860 25,480 33,400 122,790	114,230
March-07	3/5/07[2] 5:00 3/8/07[3] 4:50 3/14/07[4] 7:00 3/29/07[5] 10:00	130,565 132,951 NM 133,262	10,472
April-07	4/2/07[6] 5:30 4/10/07[7] 5:00 4/23/07[8] 7:00 4/26/07 6:00	170,596 NM 172,210 200,143	66,881
May-07	5/1/2007[9] 4:50 5/15/2007[10] 5:00 5/29/07 8:30	220,892 225,297 410,246	210,103
June-07	6/4/2007[11] 5:00 6/12/2007[12] 5:00 6/26/2007[13] 4:30	429,450 430,092 430,222	19,976

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1156 Davis Street
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July-07	7/2/07 5:30 7/10/2007 [14] 5:45 7/17/2007 [15] 5:00	480,377 523,553 546,094	115,872
August-07	8/1/2007 [15] 5:00 8/7/07 5:00 8/20/2007 [15] 5:00	580,301 580,662 582,706	36,612
September-07	9/5/2007 [16] 5:00 9/11/2007 [17] 9:00 9/17/2007 [18] 5:30	589,944 589,950 591,443	8,737
October-07	10/1/07 [19] 5:00 10/11/07 [20] 8:15 10/23/07 [17] 5:00 10/30/07 [15] 7:10	592,403 NM NM 593,647	2,204
November-07	11/6/07 [11] 4:30 11/14/07 [17] 6:00 11/20/07 [15] 6:50	612,552 612,552 613,537	19,890
December-07	12/5/07 [11] 5:00 12/17/07 [17] 4:30	633,121 633,123	19,586
January-08	1/7/08 [11] 5:00 1/15/08 [17] 7:00	635,200 636,041	2,918
February-08	2/5/08 [21] 8:15 2/26/08 [22] 6:00	642,841 643,443	7,402
March-08	3/5/08 [11] 4:00 3/17/08 [23] 4:30	646,123 646,221	2,778

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1156 Davis Street
San Leandro, California

Report Month (month/year)	Date	Effluent Totalizer Reading (gallons)	Monthy Discharge (gallons)

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.

[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.

[17] System re-started upon receipt of analytical results and compliance verification.

[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.

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[21] System observed non-functioning upon arrival due to high water level alarm on air stripper and transfer pump malfunction. System re-started, but shutdown after sampling pending receipt and verification of analytical results and replacement of transfer pump.

[22] System re-started upon receipt of analytical results and compliance verification and replacement of transfer pump.

[23] System re-started upon receipt of analytical results and compliance verification, but DPE system was shutdown due float malfunction.