



Atlantic Richfield Company  
(a BP affiliated company)

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

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1:23 pm, Oct 30, 2008

Alameda County  
Environmental Health



30 October 2008

Re: Third 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

**Third 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



1324 Mangrove Avenue, Suite 212  
Chico, California 95926  
(530) 566-1400  
*www.broadbentinc.com*

30 October 2008

Project No. 06-08-615

30 October 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: Third 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:

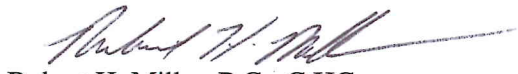
Attached is the *Third Quarter 2008 Ground-Water Monitoring and Remediation System Status Report* for Atlantic Richfield Company Station #2111 located at 1156 Davis Street, San Leandro, California (Site). This report presents results of ground-water monitoring conducted at the Site during the Third Quarter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

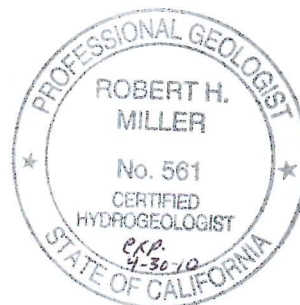
Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (530) 566-1400.

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 14<sup>th</sup> Street,  
San Leandro, California 94577  
Electronic copy uploaded to GeoTracker

## STATION #2111 QUARTERLY GROUND-WATER MONITORING AND REMEDATION 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<br>(530) 566-1400                                   |
| Consultant Project No.:             |          | 06-08-615  |
| Primary Agency/Regulatory ID No.:   |          | Alameda County Environmental Health (ACEH)<br>ACEH Case #RO0000494   |
| Facility Permits/Permitting Agency: |          | City of San Leandro Special Discharge Permit SD-036;<br>Bay Area Air Quality Management District Plant 16189 |

### WORK PERFORMED THIS QUARTER (Third Quarter 2008):

1. Prepared and submitted Second Quarter 2008 Ground-Water Monitoring and Remediation System Status Report.
2. Conducted ground-water monitoring/sampling for Third Quarter 2008. Work performed on 20 August 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 July, August and September 2008 to the City of San Leandro. Work performed by Stratus.

### WORK PROPOSED FOR NEXT QUARTER (Fourth Quarter 2008):

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

### QUARTERLY RESULTS SUMMARY:

|   |  |
|---|--|
| Current phase of project:                 | <b>Ground-Water Monitoring/Sampling/DPE Remediation</b>                    |
| Frequency of ground-water monitoring:     | <b>Quarterly: MW-1 through MW-8</b>  |
| Frequency of ground-water sampling:       | <b>Quarterly: MW-1 through MW-5, MW-7 and MW-8<br/>Annually (3Q): MW-6</b> |
| Is free product (FP) present on-site:     | <b>No</b>  |
| FP recovered this quarter:                | <b>0 gallons</b>   |
| Cumulative FP recovered:                  | <b>1.44 gallons (MW-2)</b>   |
| Depth to ground-water (below TOC):        | <b>15.59 ft (MW-6) to 18.32 ft (MW-1)</b>                                  |
| General ground-water flow direction:      | <b>West</b>  |
| Approximate hydraulic gradient:           | <b>0.006 ft/ft</b>   |
| Current remediation techniques:           | <b>DPE treatment system</b>  |
| System startup:                           | <b>01/29/2007</b>  |
| Extraction wells:                         | <b>SVE: V-1, V-2, V-3, MW-1, MW-3, MW-7, MW-8<br/>GWE: MW-2</b>            |
| Frequency of DPE system field monitoring: | <b>Weekly</b>  |
| Frequency of DPE system sampling:         | <b>Monthly</b>   |



**QUARTERLY RESULTS SUMMARY (Continued):**

|   |                                       |                                       |                                 |
|---|---------------------------------------|---------------------------------------|---------------------------------|
| Gallons of ground water treated and discharged:                     | <b>This Quarter</b><br><b>102,976</b> | <b>Cumulative</b><br><b>1,052,669</b> |                                 |
| Total operating hours:  | <b>75</b>                             | <b>2287</b>                           |                                 |
| Mass Removal (pounds)   |                                       |                                       |                                 |
| Gasoline range organics (GRO):                                      | <b>0.283 (GWE)</b>                    | <b>139.42 (SVE)</b>                   | <b>5.537 (GWE) 664.34 (SVE)</b> |
| Benzene:  | <b>0.005 (GWE)</b>                    |                                       | <b>0.085 (GWE)</b>              |
| Methyl-tert butyl ether (MTBE):                                     | <b>0.319 (GWE)</b>                    |                                       | <b>7.993 (GWE)</b>              |
| Ground-water DPE system influent sample results (µg/L):             | <b>7/1/2008</b>                       | <b>8/5/2008</b>                       | <b>9/2/2008</b>                 |
| GRO:  | <b>660</b>                            | <b>80</b>                             | <b>77</b>                       |
| Benzene:  | <b>9.2</b>                            | <b>&lt;5.0</b>                        | <b>&lt;5.0</b>                  |
| MTBE:   | <b>400</b>                            | <b>370</b>                            | <b>380</b>                      |
| Ground-water DPE system effluent sample results (µg/L):             |                                       |                                       |                                 |
| GRO:  | <b>&lt;50</b>                         | <b>&lt;50</b>                         | <b>&lt;50</b>                   |
| Benzene:  | <b>&lt;0.50</b>                       | <b>&lt;0.50</b>                       | <b>&lt;0.50</b>                 |
| MTBE:   | <b>&lt;0.50</b>                       | <b>&lt;0.50</b>                       | <b>&lt;0.50</b>                 |
| Soil vapor DPE system influent sample results (mg/M <sup>3</sup> ): |                                       |                                       |                                 |
| GRO:  | <b>1,200</b>                          | <b>1,100</b>                          | <b>1,300</b>                    |
| Benzene:  | <b>1.5</b>                            | <b>0.62</b>                           | <b>0.67</b>                     |
| MTBE:   | <b>9.3</b>                            | <b>10</b>                             | <b>13</b>                       |
| Soil vapor DPE system effluent sample results (mg/M <sup>3</sup> ): |                                       |                                       |                                 |
| GRO:  | <b>&lt;50</b>                         | <b>&lt;50</b>                         | <b>&lt;50</b>                   |
| Benzene:  | <b>&lt;0.0016</b>                     | <b>&lt;0.0016</b>                     | <b>&lt;0.0016</b>               |
| MTBE:   | <b>0.39</b>                           | <b>&lt;0.0072</b>                     | <b>&lt;0.0072</b>               |

**DISCUSSION:**

Third quarter 2008 ground-water monitoring and sampling was conducted at Station #2111 on 20 August 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 15.59 ft at MW-6 to 18.32 ft at MW-1. Resulting ground-water surface elevations ranged from 21.97 ft above mean sea level in well MW-7 to 21.01 ft in well MW-5. Water level elevations were between historic minimum and maximum ranges for each well, as summarized in Table 1, with the following exceptions: water level elevations reached historic minimum values in wells MW-4, MW-5, MW-6, and MW-8. Water level elevations yielded a potentiometric ground-water flow direction and gradient to the west at approximately 0.006 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-8. No irregularities were reported during well sampling this quarter. Samples were submitted under chain-of-custody protocol to Calscience Environmental Laboratories, Inc. (Garden Grove, California), for analysis of Gasoline Range Organics (GRO, C6-12) by the EPA Method 8015B; 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. No significant irregularities were encountered during laboratory analysis of the samples. Ground-water sampling field data sheets and the laboratory analytical report, including chain-of-custody documentation, are provided in Appendix A.

Concentrations of GRO were detected above the laboratory reporting limit in one of the eight wells sampled at a concentration of 990 micrograms per liter ( $\mu\text{g/L}$ ) in well MW-2. Benzene was detected above the laboratory reporting limit in one of the eight wells sampled at a concentration of 21  $\mu\text{g/L}$  in well MW-2. TBA was detected above the laboratory reporting limit in four of the eight wells sampled at concentrations up to 520  $\mu\text{g/L}$  in well MW-5. MTBE was detected above the laboratory reporting limit in six of the eight wells sampled at concentrations up to 190  $\mu\text{g/L}$  in well MW-2. The remaining fuel additives and oxygenates were not detected above their laboratory reporting limits in the eight wells sampled this quarter.

Detected analyte concentrations were within the historic minimum and maximum ranges recorded for each well, with the following exceptions: GRO reached a historic minimum concentration in well MW-7 ( $<50 \mu\text{g/L}$ ); ethylbenzene reached a historic minimum concentration in well MW-7 ( $<0.50 \mu\text{g/L}$ ); total xylenes reached a historic minimum concentration in well MW-7 ( $<0.50 \mu\text{g/L}$ ); TAME reached a historic minimum concentration in well MW-7 ( $<0.50 \mu\text{g/L}$ ); TBA reached historic minimum concentrations in wells MW-1 ( $<10 \mu\text{g/L}$ ) and MW-7 (34  $\mu\text{g/L}$ ) and MTBE concentrations reached historic minimum concentrations in wells MW-1 (3.3  $\mu\text{g/L}$ ), MW-2 (190  $\mu\text{g/L}$ ), MW-3 (0.70  $\mu\text{g/L}$ ), MW-5 (3.6  $\mu\text{g/L}$ ), MW-7 (39  $\mu\text{g/L}$ ), and MW-8 (13  $\mu\text{g/L}$ ). Historic laboratory analytical results are summarized in Table 1 and Table 2. The most recent GRO, Benzene, and MTBE concentrations are also presented in Drawing 1. A copy of the laboratory analytical report, including chain-of-custody documentation is provided in Appendix A. Ground-water monitoring data (GEO\_WELL) and laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 database. Upload confirmation pages are provided in Appendix B.

For the Third Quarter 2008 period from 1 July 2008 to 24 September 2008, the DPE system reportedly operated approximately 3.68 percent of the time. During this period, a total of 102,976 gallons of ground water was treated and discharged. During the Third Quarter 2008, approximately 0.283 pounds of GRO (0.046 gallons), approximately 0.005 pounds of benzene (0.001 gallons), and approximately 0.319 pounds of MTBE (0.052 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 75 hours between 1 July 2008 and 24 September 2008 based on the hour meter reading. Stratus found the system non-operational upon arrival at the Site on 1 July 2008 due to a high-water level alarm in the air stripper tank. The system was restarted momentarily on 1 July 2008 to facilitate sample collection and then shut down pending receipt of the laboratory results. GRO and MTBE were detected above laboratory reporting limits in the mid-fluent vapor sample collected on 1 July 2008 at concentrations of 120  $\text{mg/m}^3$  and 12  $\text{mg/m}^3$ , respectively. On 7 July 2008, Stratus visited the Site to collect a vapor-phase carbon sample. The system was left non-operational pending a vapor-phase carbon change-out. On 23 July 2008, Stratus oversaw EnviroSupply and Service, Inc. conduct a vapor-phase carbon change-out. This system was restarted upon departure and left operational. Stratus found the system non-operational upon arrival at the Site on 29 July 2008 due to a high-water level alarm in the air stripper tank. During this visit, Stratus changed the filters and restarted the system, which was left operational upon departure.

Stratus found the system non-operational upon arrival at the Site on 5 August 2008 due to a high-water level alarm. The system was restarted and samples were collected. The system was operational upon departure. Stratus found the system non-operational upon arrival at the Site on 12 August 2008 due to a high-water level alarm. The carbon within the lead vessel was broken up in an attempt to reduce the high pressure observed within the tank. The system was restarted and left operational upon departure. Stratus found the system non-operational upon arrival at the Site on 21 August 2008 due to a high-water level alarm. The system was restarted and left operational upon departure. Stratus found the system non-operational upon arrival at the Site on 27 August 2008 due to a high-water level alarm in the air stripper. Stratus states that the carbon needs to be changed in order to increase the flow through the vessels. The system was restarted and left operational upon departure.

Stratus found the system non-operational upon arrival at the Site on 2 September 2008 due to a high water level in either the air stripper tank or oil-water separator. The system was restarted momentarily on 2 September 2008 to facilitate sample collection and then shut down pending receipt of the laboratory results. The system was restarted on 10 September following receipt of the laboratory analytical results. Due to excessive cementing of the carbon within the liquid-phase carbon vessels that caused back pressure on the transfer pump, a carbon sample was collected during this visit for profiling and disposal purposes. A liquid-phase carbon change out was scheduled for 2 October 2008. The system was left operational upon departure. Stratus found the system non-operational upon arrival at the Site on 17 September 2008 due to a high water level. The system was restarted and left operational upon departure. Stratus found the system non-operational upon arrival at the Site on 24 September 2008 due to a high water level in the air stripper tank. The system was restarted and left operational upon departure. Copies of Stratus' remediation system operation and maintenance data packages for Third Quarter 2008 are contained within Appendix C. Copies of Stratus' remediation system monthly discharge reports for Third Quarter 2008 are contained within Appendix D.

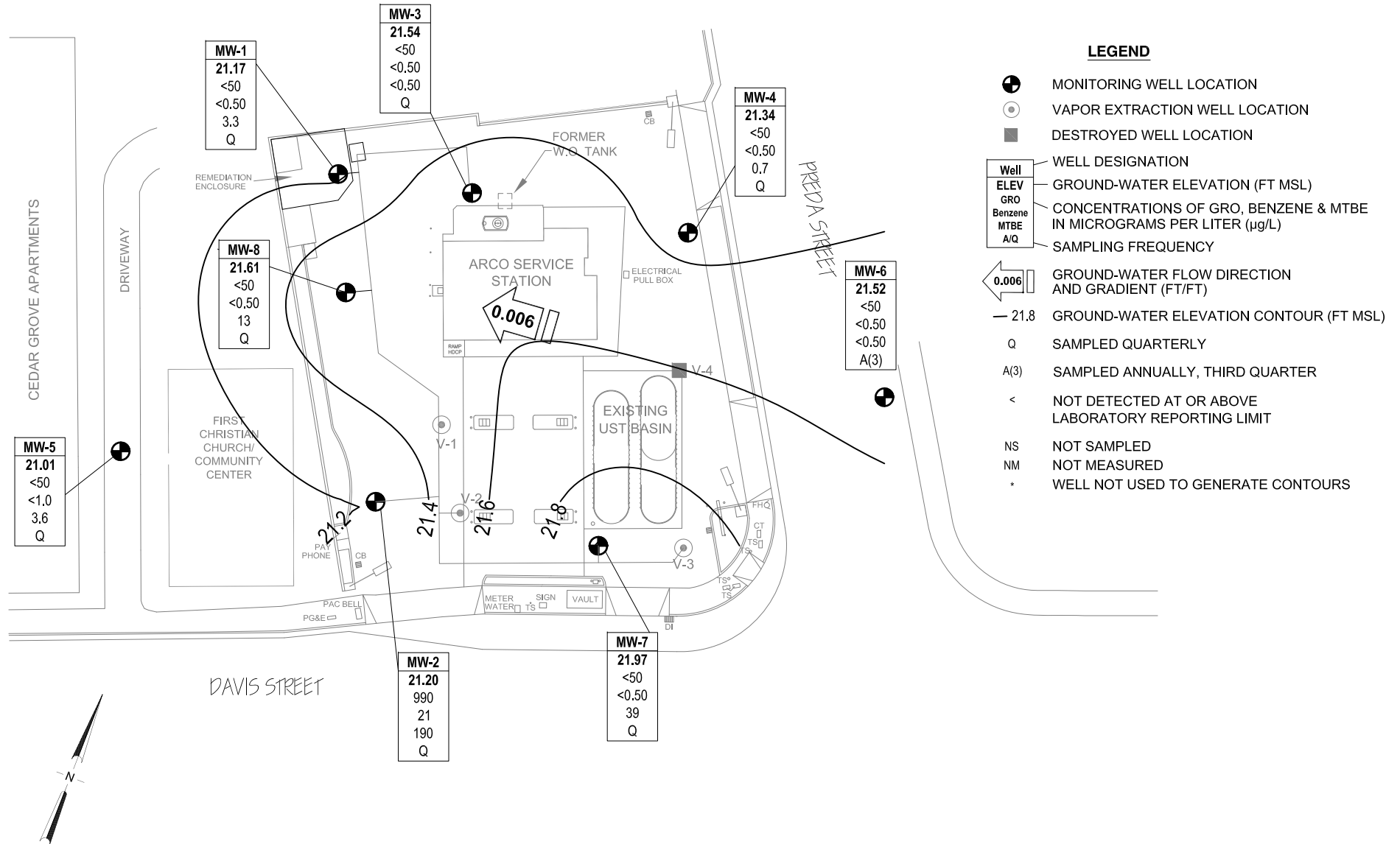
## **CLOSURE:**

The findings presented in this report are based upon: observations of Stratus field personnel (see Appendices A, C, D), the points investigated, and results of laboratory tests performed by 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.

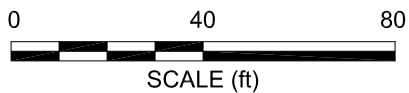
## **ATTACHMENTS:**

- Drawing 1. Ground-Water Elevation Contour and Analytical Summary Map – 20 August 2008
- Drawing 2. DPE Treatment System Process Flow Diagram with Sample Locations
- 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, Laboratory Analytical Report with Chain-of-Custody Documentation and Field Procedures) |
| 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)                           |



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



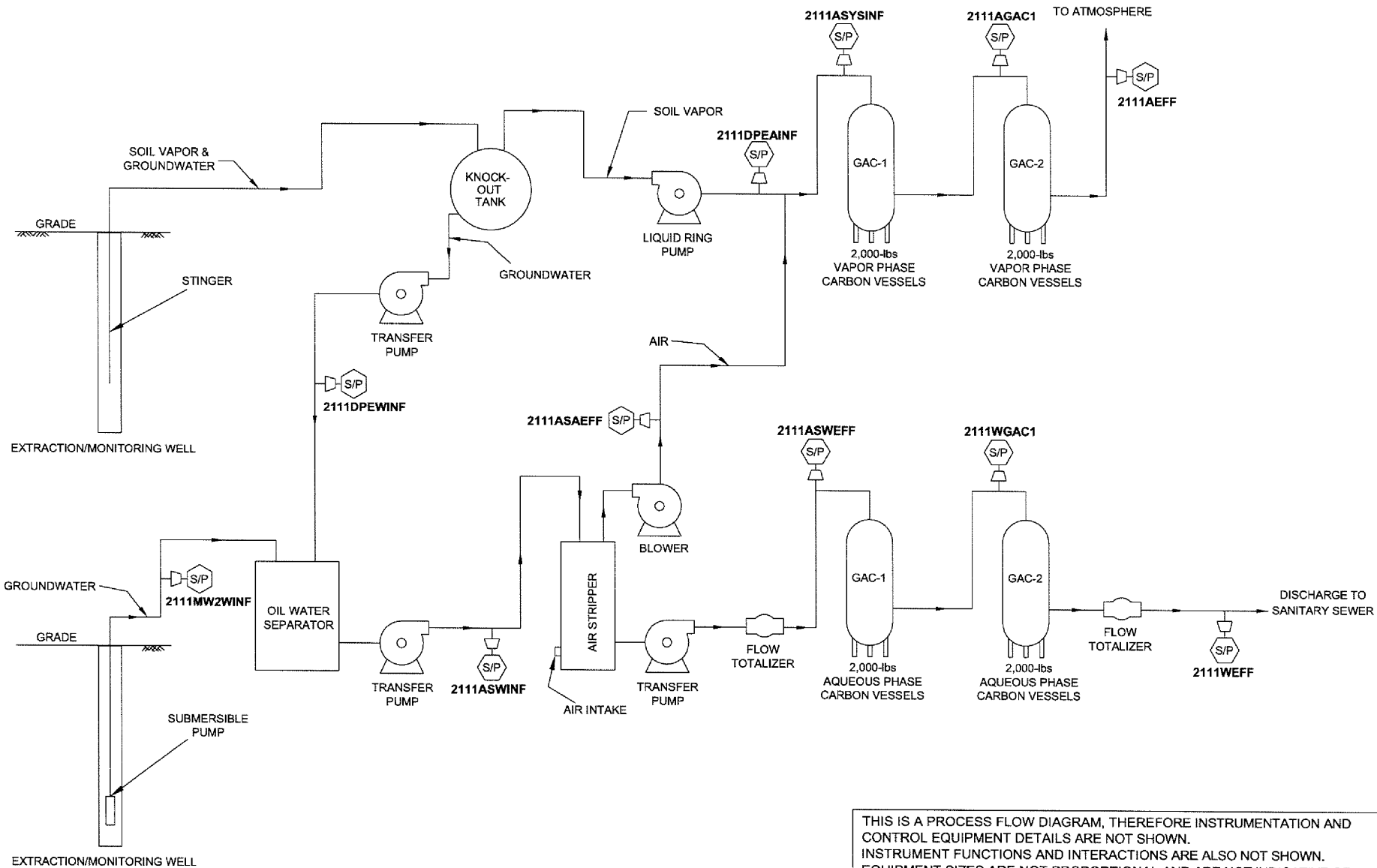
**BROADBENT & ASSOCIATES, INC.**  
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL  
1324 Mangrove Ave. Suite 212, Chico, California 95926  
Project No.: 06-08-615 Date: 9/27/08

Station #2111  
1156 Davis Street  
San Leandro, California

Ground-Water Elevation Contours  
and Analytical Summary Map  
20 August 2008

Drawing

1



THIS IS A PROCESS FLOW DIAGRAM, THEREFORE INSTRUMENTATION AND CONTROL EQUIPMENT DETAILS ARE NOT SHOWN. INSTRUMENT FUNCTIONS AND INTERACTIONS ARE ALSO NOT SHOWN. EQUIPMENT SIZES ARE NOT PROPORTIONAL AND ARE NOT INDICATIVE OF FINAL SIZES.

Diagram from Stratus Environmental Inc.

NOT TO SCALE

**BROADBENT & ASSOCIATES, INC.**  
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL  
 1324 Mangrove Ave, Suite 212, Chico, California 95926  
 Project No.: 06-08-615 Date: 7/28/08

Station #2111  
 1156 Davis Street  
 San Leandro, California

DPE Treatment System  
 Process Flow Diagram  
 with Sample Locations

Drawing

2

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

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

| Well and Sample Date | P/NP | Comments | TOC (feet msl) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (feet bgs) | Water Level Elevation (feet msl) | Concentrations in (µg/L) |         |         |               |               |             | DO (mg/L) | pH   |
|----------------------|------|----------|----------------|------------------------|---------------------------|----------------|----------------------------------|--------------------------|---------|---------|---------------|---------------|-------------|-----------|------|
|                      |      |          |                |                        |                           |                |                                  | GRO/TPHg                 | Benzene | Toluene | Ethyl-Benzene | Total Xylenes | MTBE        |           |      |
| <b>MW-1</b>          |      |          |                |                        |                           |                |                                  |                          |         |         |               |               |             |           |      |
| 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          |             |             |
| <b>MW-1 Cont.</b>    |           |          |                |                        |                           |                |                                  |                          |                 |                 |                 |                 |               |             |             |
| 4/8/2008             | NP        |          | 39.49          | 12.50                  | 26.00                     | 16.53          | 22.96                            | 88                       | <0.50           | <0.50           | <0.50           | <0.50           | 110           | 1.73        | 6.89        |
| <b>8/20/2008</b>     | <b>NP</b> |          | <b>39.49</b>   | <b>12.50</b>           | <b>26.00</b>              | <b>18.32</b>   | <b>21.17</b>                     | <b>&lt;50</b>            | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>3.3</b>    | <b>2.37</b> | <b>6.95</b> |
| <b>MW-2</b>          |           |          |                |                        |                           |                |                                  |                          |                 |                 |                 |                 |               |             |             |
| 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            | --        |          | 37.99          | 12.0                   | 26.00                     | 13.77          | 24.22                            | 3,650                    | 98.1            | <5.0            | <5.0            | 6.42            | 3,590/3,260   | --          | --          |
| 3/13/2001            | --        | b        | 37.99          | 12.0                   | 26.00                     | --             | --                               | <20,000                  | 525             | 466             | 408             | 1,460           | 91,700/76,000 | --          | --          |
| 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         |



**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       |             |             |
| <b>MW-2 Cont.</b>    |           |          |                |                        |                           |                |                                  |                          |           |               |               |               |            |             |             |
| 7/19/2006            | NP        | q        | 37.86          | 12.0                   | 26.00                     | 14.00          | 23.86                            | 4,900                    | 31        | <10           | 98            | 75            | 930        | 1.1         | 6.5         |
| 10/24/2006           | --        | g        | 37.86          | 12.0                   | 26.00                     | 15.38          | 22.48                            | --                       | --        | --            | --            | --            | --         | --          | 6.45        |
| 1/15/2007            | P         |          | 37.86          | 12.0                   | 26.00                     | 15.00          | 22.86                            | 5,000                    | 51        | <10           | 49            | 34            | 1,400      | 1.85        | 7.13        |
| 4/18/2007            | NP        |          | 37.86          | 12.0                   | 26.00                     | 14.82          | 23.04                            | 3,000                    | 39        | <10           | 32            | 22            | 1,100      | 1.95        | 7.10        |
| 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        |
| 4/8/2008             | NP        |          | 37.86          | 12.0                   | 26.00                     | 14.70          | 23.16                            | 200                      | 34        | <0.50         | <0.50         | <0.50         | 690        | 3.24        | 6.95        |
| <b>8/20/2008</b>     | <b>NP</b> |          | <b>37.86</b>   | <b>12.0</b>            | <b>26.00</b>              | <b>16.66</b>   | <b>21.20</b>                     | <b>990</b>               | <b>21</b> | <b>&lt;10</b> | <b>&lt;10</b> | <b>&lt;10</b> | <b>190</b> | <b>1.54</b> | <b>6.91</b> |
| <b>MW-3</b>          |           |          |                |                        |                           |                |                                  |                          |           |               |               |               |            |             |             |
| 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         |

**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            |             |             |
| <b>MW-3 Cont.</b>    |           |          |                |                        |                           |                |                                  |                          |                 |                 |                 |                 |                 |             |             |
| 08/01/2005           | NP        |          | 39.19          | 12.00                  | 26.00                     | 16.29          | 22.90                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 23              | 1.04        | 7.2         |
| 10/21/2005           | NP        |          | 39.19          | 12.00                  | 26.00                     | 17.41          | 21.78                            | 88                       | <0.50           | <0.50           | <0.50           | <0.50           | 19              | 1.9         | 6.6         |
| 01/18/2006           | NP        |          | 39.19          | 12.00                  | 26.00                     | 13.80          | 25.39                            | 73                       | <0.50           | <0.50           | <0.50           | <0.50           | 13              | 1.13        | 6.6         |
| 04/14/2006           | NP        |          | 39.19          | 12.00                  | 26.00                     | 12.55          | 26.64                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 6.7             | 0.71        | 6.6         |
| 7/19/2006            | NP        | q        | 39.19          | 12.00                  | 26.00                     | 15.04          | 24.15                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 11              | 2.0         | 6.6         |
| 10/24/2006           | P         |          | 39.19          | 12.00                  | 26.00                     | 16.45          | 22.74                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 33              | --          | 6.77        |
| 1/15/2007            | P         |          | 39.19          | 12.00                  | 26.00                     | 16.00          | 23.19                            | <50                      | <0.50           | <0.50           | 0.61            | <0.50           | 29              | 1.11        | 7.03        |
| 4/18/2007            | NP        |          | 39.19          | 12.00                  | 26.00                     | 15.87          | 23.32                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 9.5             | 1.67        | 7.07        |
| 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        |
| 4/8/2008             | NP        |          | 39.19          | 12.00                  | 26.00                     | 15.75          | 23.44                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | 1.98        | 6.80        |
| <b>8/20/2008</b>     | <b>NP</b> |          | <b>39.19</b>   | <b>12.00</b>           | <b>26.00</b>              | <b>17.65</b>   | <b>21.54</b>                     | <b>&lt;50</b>            | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>2.85</b> | <b>7.62</b> |
| <b>MW-4</b>          |           |          |                |                        |                           |                |                                  |                          |                 |                 |                 |                 |                 |             |             |
| 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         |

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          |             |             |
| <b>MW-4 Cont.</b>    |           |          |                |                        |                           |                |                                  |                          |                 |                 |                 |                 |               |             |             |
| 07/13/2004           | NP        |          | 37.99          | 10.0                   | 24.00                     | 15.96          | 22.03                            | 77                       | <0.50           | <0.50           | <0.50           | <0.50           | 27            | 0.6         | 6.6         |
| 11/04/2004           | NP        |          | 37.99          | 10.0                   | 24.00                     | 16.02          | 21.97                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 19            | 1.2         | 6.7         |
| 01/20/2005           | NP        |          | 37.99          | 10.0                   | 24.00                     | 13.72          | 24.27                            | 65                       | <0.50           | <0.50           | <0.50           | <0.50           | 18            | 0.6         | 6.1         |
| 04/11/2005           | NP        |          | 37.99          | 10.0                   | 24.00                     | 12.80          | 25.19                            | 51                       | <0.50           | <0.50           | <0.50           | <0.50           | 14            | 0.7         | 6.2         |
| 08/01/2005           | NP        |          | 37.99          | 10.0                   | 24.00                     | 14.88          | 23.11                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 18            | 1.46        | 7.3         |
| 10/21/2005           | NP        |          | 37.99          | 10.0                   | 24.00                     | 15.01          | 22.98                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 15            | 1.24        | 7.6         |
| 01/18/2006           | NP        |          | 37.99          | 10.0                   | 24.00                     | 12.92          | 25.07                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 8.9           | 0.77        | 6.5         |
| 04/14/2006           | NP        |          | 37.99          | 10.0                   | 24.00                     | 11.41          | 26.58                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 4.2           | 0.84        | 6.6         |
| 7/19/2006            | NP        |          | 37.99          | 10.0                   | 24.00                     | 13.86          | 24.13                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 3.4           | 1.0         | 6.7         |
| 10/24/2006           | P         |          | 37.99          | 10.0                   | 24.00                     | 15.35          | 22.64                            | <50                      | <0.50           | <0.50           | 2.0             | <0.50           | 3.5           | --          | 6.90        |
| 1/15/2007            | P         |          | 37.99          | 10.0                   | 24.00                     | 14.96          | 23.03                            | <50                      | <0.50           | <0.50           | 0.96            | <0.50           | 3.8           | --          | 7.04        |
| 4/18/2007            | NP        |          | 37.99          | 10.0                   | 24.00                     | 14.80          | 23.19                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 5.6           | 5.33        | 6.93        |
| 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        |
| 4/8/2008             | NP        |          | 37.99          | 10.0                   | 24.00                     | 14.68          | 23.31                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 1.7           | 2.54        | 6.80        |
| <b>8/20/2008</b>     | <b>NP</b> |          | <b>37.99</b>   | <b>10.0</b>            | <b>24.00</b>              | <b>16.65</b>   | <b>21.34</b>                     | <b>&lt;50</b>            | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>0.70</b>   | <b>2.36</b> | <b>6.90</b> |
| <b>MW-5</b>          |           |          |                |                        |                           |                |                                  |                          |                 |                 |                 |                 |               |             |             |
| 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         |

**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       |             |             |
| <b>MW-5 Cont.</b>    |           |                                |                |                        |                           |                |                                  |                          |                |                |                |                |            |             |             |
| 04/07/03             | NP        |                                | 37.21          | 9.50                   | 23.50                     | 14.42          | 22.79                            | <10,000                  | <100           | <100           | <100           | <100           | 3,700      | 6.8         | 6.8         |
| 7/9/2003             | --        |                                | 37.21          | 9.50                   | 23.50                     | 15.01          | 22.20                            | 11,000                   | <50            | <50            | <50            | <50            | 6,500      | 6.9         | 6.9         |
| 02/05/2004           | NP        | m                              | 37.12          | 9.50                   | 23.50                     | 14.10          | 23.02                            | 8,100                    | <50            | <50            | <50            | <50            | 7,900      | 1.5         | --          |
| 04/05/2004           | NP        |                                | 37.12          | 9.50                   | 23.50                     | 14.14          | 22.98                            | 4,000                    | <25            | <25            | <25            | <25            | 2,000      | 1.0         | 6.6         |
| 07/13/2004           | NP        |                                | 37.12          | 9.50                   | 23.50                     | 15.37          | 21.75                            | <5,000                   | <50            | <50            | <50            | <50            | 4,000      | 0.8         | 6.7         |
| 11/04/2004           | NP        |                                | 37.12          | 9.50                   | 23.50                     | 15.53          | 21.59                            | 7,400                    | <50            | <50            | <50            | <50            | 6,300      | 3.5         | 6.7         |
| 01/20/2005           | NP        | n                              | 37.12          | 9.50                   | 23.50                     | 13.51          | 23.61                            | 6,500                    | <50            | <50            | <50            | <50            | 6,900      | 0.7         | 6.5         |
| 04/11/2005           | NP        |                                | 37.12          | 9.50                   | 23.50                     | 12.75          | 24.37                            | <5,000                   | <50            | <50            | <50            | <50            | 2,600      | 0.5         | 7.0         |
| 08/01/2005           | NP        |                                | 37.12          | 9.50                   | 23.50                     | 14.59          | 22.53                            | 110                      | <1.0           | <1.0           | <1.0           | <1.0           | 130        | 1.36        | 7.5         |
| 10/21/2005           | NP        |                                | 37.12          | 9.50                   | 23.50                     | 15.57          | 21.55                            | <250                     | <2.5           | <2.5           | <2.5           | <2.5           | 86         | 1.53        | 6.8         |
| 01/18/2006           | NP        |                                | 37.12          | 9.50                   | 23.50                     | 12.60          | 24.52                            | <250                     | <2.5           | <2.5           | <2.5           | <2.5           | 100        | 1.2         | 6.7         |
| 04/14/2006           | NP        |                                | 37.12          | 9.50                   | 23.50                     | 11.74          | 25.38                            | 310                      | <2.5           | <2.5           | <2.5           | <2.5           | 240        | 0.93        | 6.6         |
| 7/19/2006            | NP        |                                | 37.12          | 9.50                   | 23.50                     | 13.78          | 23.34                            | <50                      | <2.5           | <2.5           | <2.5           | <2.5           | 84         | 1.2         | 6.6         |
| 10/24/2006           | P         |                                | 37.12          | 9.50                   | 23.50                     | 14.95          | 22.17                            | 61                       | <0.50          | <0.50          | <0.50          | <0.50          | 17         | --          | 6.69        |
| 1/15/2007            | P         |                                | 37.12          | 9.50                   | 23.50                     | 14.63          | 22.49                            | 73                       | <0.50          | <0.50          | <0.50          | <0.50          | 36         | 2.8         | 6.73        |
| 4/18/2007            | NP        | n. EBZ present in method blank | 37.12          | 9.50                   | 23.50                     | 14.50          | 22.62                            | 93                       | <2.5           | <2.5           | <2.5           | <2.5           | 16         | 1.66        | 6.84        |
| 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        |
| 4/8/2008             | NP        |                                | 37.12          | 9.50                   | 23.50                     | 14.38          | 22.74                            | <50                      | <0.50          | <0.50          | <0.50          | <0.50          | 8.0        | 1.14        | 6.76        |
| <b>8/20/2008</b>     | <b>NP</b> |                                | <b>37.12</b>   | <b>9.50</b>            | <b>23.50</b>              | <b>16.11</b>   | <b>21.01</b>                     | <b>&lt;50</b>            | <b>&lt;1.0</b> | <b>&lt;1.0</b> | <b>&lt;1.0</b> | <b>&lt;1.0</b> | <b>3.6</b> | <b>1.65</b> | <b>6.86</b> |
| <b>MW-6</b>          |           |                                |                |                        |                           |                |                                  |                          |                |                |                |                |            |             |             |
| 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       | --          | --          |

**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            |             |             |
| <b>MW-6 Cont.</b>    |           |          |                |                        |                           |                |                                  |                          |                 |                 |                 |                 |                 |             |             |
| 4/23/2002            | --        |          | 37.11          | 10.00                  | 25.00                     | 12.44          | 24.67                            | <50                      | <0.5            | <0.5            | <0.5            | <0.5            | 3.1             | --          | --          |
| 7/17/2002            | NP        |          | 37.11          | 10.00                  | 25.00                     | 14.65          | 22.46                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <2.5            | 7.3         | 7.3         |
| 10/9/2002            | NP        |          | 37.11          | 10.00                  | 25.00                     | 15.51          | 21.60                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <2.5            | 7.1         | 7.1         |
| 1/13/2003            | NP        |          | 37.11          | 10.00                  | 25.00                     | 12.27          | 24.84                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <2.5            | 6.8         | 6.8         |
| 04/07/03             | NP        |          | 37.11          | 10.00                  | 25.00                     | 13.61          | 23.50                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | 6.6         | 6.6         |
| 7/9/2003             | --        |          | 37.11          | 10.00                  | 25.00                     | 14.34          | 22.77                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | 7           | 7.0         |
| 02/05/2004           | --        | m        | 37.11          | 10.00                  | 25.00                     | 13.38          | 23.73                            | --                       | --              | --              | --              | --              | --              | --          | --          |
| 04/05/2004           | --        |          | 37.11          | 10.00                  | 25.00                     | 13.31          | 23.80                            | --                       | --              | --              | --              | --              | --              | --          | --          |
| 07/13/2004           | NP        |          | 37.11          | 10.00                  | 25.00                     | 14.65          | 22.46                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | 2.7         | 6.8         |
| 11/04/2004           | --        |          | 37.11          | 10.00                  | 25.00                     | 14.95          | 22.16                            | --                       | --              | --              | --              | --              | --              | --          | --          |
| 01/20/2005           | --        |          | 37.11          | 10.00                  | 25.00                     | 12.57          | 24.54                            | --                       | --              | --              | --              | --              | --              | --          | --          |
| 04/11/2005           | --        |          | 37.11          | 10.00                  | 25.00                     | 12.05          | 25.06                            | --                       | --              | --              | --              | --              | --              | --          | --          |
| 08/01/2005           | NP        |          | 37.11          | 10.00                  | 25.00                     | 13.79          | 23.32                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | 1.15        | 7.6         |
| 10/21/2005           | --        |          | 37.11          | 10.00                  | 25.00                     | 14.60          | 22.51                            | --                       | --              | --              | --              | --              | --              | --          | --          |
| 01/18/2006           | --        |          | 37.11          | 10.00                  | 25.00                     | 11.80          | 25.31                            | --                       | --              | --              | --              | --              | --              | --          | --          |
| 04/14/2006           | --        |          | 37.11          | 10.00                  | 25.00                     | 10.92          | 26.19                            | --                       | --              | --              | --              | --              | --              | --          | --          |
| 7/19/2006            | NP        |          | 37.11          | 10.00                  | 25.00                     | 12.92          | 24.19                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | 1.3         | 6.9         |
| 10/24/2006           | --        |          | 37.11          | 10.00                  | 25.00                     | 14.23          | 22.88                            | --                       | --              | --              | --              | --              | --              | --          | --          |
| 1/15/2007            | --        |          | 37.11          | 10.00                  | 25.00                     | 13.80          | 23.31                            | --                       | --              | --              | --              | --              | --              | --          | --          |
| 4/18/2007            | --        |          | 37.11          | 10.00                  | 25.00                     | 13.67          | 23.44                            | --                       | --              | --              | --              | --              | --              | --          | --          |
| 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                            | --                       | --              | --              | --              | --              | --              | --          | --          |
| 4/8/2008             | --        |          | 37.11          | 10.00                  | 25.00                     | 13.52          | 23.59                            | --                       | --              | --              | --              | --              | --              | --          | --          |
| <b>8/20/2008</b>     | <b>NP</b> |          | <b>37.11</b>   | <b>10.00</b>           | <b>25.00</b>              | <b>15.59</b>   | <b>21.52</b>                     | <b>&lt;50</b>            | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>1.66</b> | <b>6.83</b> |
| <b>MW-7</b>          |           |          |                |                        |                           |                |                                  |                          |                 |                 |                 |                 |                 |             |             |
| 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                            | --                       | --              | --              | --              | --              | --              | --          | --          |

**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           |             |             |
| <b>MW-7 Cont.</b>    |           |          |                |                        |                           |                |                                  |                          |                 |                 |                 |                 |                |             |             |
| 3/13/2001            | --        |          | 38.68          | 12.0                   | 27.00                     | 14.18          | 24.50                            | <2,000                   | 154             | 63              | 46.3            | 127             | 75,000/160,000 | --          | --          |
| 9/18/2001            | --        |          | 38.68          | 12.0                   | 27.00                     | 17.02          | 21.66                            | <100,000                 | 1,900           | <1,000          | <1,000          | 2,800           | 90,000/370,000 | --          | --          |
| 12/28/2001           | --        |          | 38.68          | 12.0                   | 27.00                     | 14.81          | 23.87                            | <20,000                  | <200            | <200            | <200            | <200            | 84,000/72,000  | --          | --          |
| 3/14/2002            | --        |          | 38.68          | 12.0                   | 27.00                     | 14.60          | 24.08                            | <50,000                  | <500            | <500            | <500            | <500            | 85,000/85,000  | --          | --          |
| 4/23/2002            | --        |          | 38.68          | 12.0                   | 27.00                     | 13.94          | 24.74                            | <20,000                  | 530             | 200             | 220             | 800             | 67,000         | --          | --          |
| 7/17/2002            | NP        | d        | 38.68          | 12.0                   | 27.00                     | 16.27          | 22.41                            | 26,000                   | 720             | <250            | <250            | 860             | 120,000        | 6.9         | 6.9         |
| 10/9/2002            | NP        | d        | 38.68          | 12.0                   | 27.00                     | 17.16          | 21.52                            | 110,000                  | 1,500           | 4,400           | 820             | 5,400           | 97,000/120,000 | 6.8         | 6.8         |
| 1/13/2003            | NP        | f        | 38.68          | 12.0                   | 27.00                     | 13.82          | 24.86                            | <50,000                  | <500            | <500            | <500            | 2,200           | 33,000         | 6.6         | 6.6         |
| 04/07/03             | NP        |          | 38.68          | 12.0                   | 27.00                     | 14.52          | 24.16                            | <2,500                   | 30              | <25             | <25             | <25             | 710            | 7.0         | 7.0         |
| 7/9/2003             | --        |          | 38.68          | 12.0                   | 27.00                     | 15.97          | 22.71                            | 66,000                   | <500            | <500            | <500            | <500            | 36,000         | 6.7         | 6.7         |
| 02/05/2004           | NP        | m        | 38.54          | 12.0                   | 27.00                     | 14.75          | 23.79                            | 55,000                   | 300             | <250            | <250            | <250            | 34,000         | 1.0         | 6.7         |
| 04/05/2004           | NP        |          | 38.54          | 12.0                   | 27.00                     | 14.63          | 23.91                            | 62,000                   | 520             | <250            | <250            | 380             | 37,000         | 1.0         | 6.7         |
| 07/13/2004           | NP        |          | 38.54          | 12.0                   | 27.00                     | 16.31          | 22.23                            | <100,000                 | <1,000          | <1,000          | <1,000          | <1,000          | 56,000         | 0.7         | 6.7         |
| 11/04/2004           | --        |          | 38.54          | 12.0                   | 27.00                     | 16.46          | 22.08                            | 70,000                   | <500            | <500            | <500            | <500            | 71,000         | 2.0         | 6.6         |
| 01/20/2005           | NP        | n        | 38.54          | 12.0                   | 27.00                     | 14.05          | 24.49                            | 34,000                   | <250            | <250            | <250            | <250            | 36,000         | 0.6         | 6.3         |
| 04/11/2005           | NP        |          | 38.54          | 12.0                   | 27.00                     | 12.55          | 25.99                            | <2,500                   | 46              | <25             | <25             | <25             | 1,200          | 0.7         | 6.8         |
| 08/01/2005           | NP        |          | 38.54          | 12.0                   | 27.00                     | 15.11          | 23.43                            | <25,000                  | <250            | <250            | <250            | <250            | 4,800          | 1.78        | 7.3         |
| 10/21/2005           | NP        | p        | 38.54          | 12.0                   | 27.00                     | 15.65          | 22.89                            | 14,000                   | 350             | <100            | <100            | 110             | 12,000         | 1.41        | 6.6         |
| 01/18/2006           | NP        |          | 38.54          | 12.0                   | 27.00                     | 12.60          | 25.94                            | 16,000                   | 310             | <100            | <100            | 110             | 13,000         | 0.87        | 6.7         |
| 04/14/2006           | NP        |          | 38.54          | 12.0                   | 27.00                     | 12.09          | 26.45                            | <10,000                  | <100            | <100            | <100            | <100            | 4,700          | 0.88        | 6.9         |
| 7/19/2006            | NP        | q        | 38.54          | 12.0                   | 27.00                     | 13.58          | 24.96                            | 1,300                    | 23              | <10             | 18              | 26              | 1,600          | 1.1         | 6.8         |
| 10/24/2006           | P         |          | 38.54          | 12.0                   | 27.00                     | 15.13          | 23.41                            | 6,800                    | 100             | <5.0            | 16              | 15              | 14,000         | --          | 6.93        |
| 1/15/2007            | P         | n        | 38.54          | 12.0                   | 27.00                     | 14.43          | 24.11                            | 2,500                    | <100            | <100            | <100            | <100            | 3,900          | 2.12        | 7.44        |
| 4/18/2007            | NP        | n        | 38.54          | 12.0                   | 27.00                     | 14.30          | 24.24                            | 3,000                    | 50              | <50             | <50             | <50             | 2,700          | 4.47        | 7.22        |
| 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        |
| 4/8/2008             | NP        |          | 38.54          | 12.0                   | 27.00                     | 14.22          | 24.32                            | 270                      | 0.50            | <0.50           | 1.2             | 0.66            | 1,200          | 1.67        | 7.17        |
| <b>8/20/2008</b>     | <b>NP</b> |          | <b>38.54</b>   | <b>12.0</b>            | <b>27.00</b>              | <b>16.57</b>   | <b>21.97</b>                     | <b>&lt;50</b>            | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>39</b>      | <b>2.12</b> | <b>7.04</b> |
| <b>MW-8</b>          |           |          |                |                        |                           |                |                                  |                          |                 |                 |                 |                 |                |             |             |

**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      |             |             |
| <b>MW-8 Cont.</b>    |          |          |                |                        |                           |                |                                  |                          |                 |                 |                 |                 |           |             |             |
| 02/05/2004           | P        | m        | 38.91          | --                     | --                        | 15.61          | 23.30                            | 3,600                    | <25             | <25             | <25             | <25             | 1,900     | 6.9         | 6.8         |
| 04/05/2004           | P        |          | 38.91          | --                     | --                        | 15.64          | 23.27                            | 1,900                    | <10             | <10             | <10             | <10             | 1,200     | 3.2         | 6.7         |
| 07/13/2004           | P        |          | 38.91          | --                     | --                        | 17.22          | 21.69                            | <1,000                   | <10             | <10             | <10             | <10             | 760       | 1.6         | 6.7         |
| 11/04/2004           | P        |          | 38.91          | --                     | --                        | 17.19          | 21.72                            | 960                      | <5.0            | <5.0            | <5.0            | <5.0            | 820       | 1.8         | 6.7         |
| 01/20/2005           | P        |          | 38.91          | --                     | --                        | 15.25          | 23.66                            | <2,500                   | <25             | <25             | <25             | <25             | 1,400     | 1.5         | 6.4         |
| 04/11/2005           | P        |          | 38.91          | --                     | --                        | 14.17          | 24.74                            | 700                      | <5.0            | <5.0            | <5.0            | <5.0            | 610       | 1.1         | 7.1         |
| 08/01/2005           | P        |          | 38.91          | --                     | --                        | 16.10          | 22.81                            | <1,000                   | <10             | <10             | <10             | <10             | 900       | 2.58        | 7.7         |
| 10/21/2005           | P        | n        | 38.91          | --                     | --                        | 17.18          | 21.73                            | 530                      | <5.0            | <5.0            | <5.0            | <5.0            | 490       | 1.4         | 6.7         |
| 01/18/2006           | P        |          | 38.91          | --                     | --                        | 13.60          | 25.31                            | <500                     | <5.0            | <5.0            | <5.0            | <5.0            | 500       | 2.28        | 6.6         |
| 04/14/2006           | P        |          | 38.91          | --                     | --                        | 12.36          | 26.55                            | <500                     | <5.0            | <5.0            | <5.0            | <5.0            | 300       | 1.97        | 6.6         |
| 7/19/2006            | P        |          | 38.91          | --                     | --                        | 14.75          | 24.16                            | 4,500                    | <25             | <25             | <25             | <25             | 4,200     | 1.2         | 6.6         |
| 10/24/2006           | --       | s        | --             | --                     | --                        | --             | --                               | --                       | --              | --              | --              | --              | --        | --          | --          |
| 1/15/2007            | P        |          | 38.91          | --                     | --                        | 15.67          | 23.24                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 67        | 1.35        | 6.68        |
| 4/18/2007            | P        | n        | 38.91          | --                     | --                        | 15.53          | 23.38                            | 100                      | 0.51            | <0.50           | <0.50           | <0.50           | 130       | 1.49        | 6.86        |
| 7/17/2007            | NP       | n        | 38.91          | --                     | --                        | 16.76          | 22.15                            | 63                       | <0.50           | <0.50           | <0.50           | <0.50           | 96        | 1.85        | 6.97        |
| 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        |
| 4/8/2008             | P        |          | 38.91          | --                     | --                        | 15.38          | 23.53                            | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 32        | 1.60        | 6.77        |
| <b>8/20/2008</b>     | <b>P</b> |          | <b>38.91</b>   | <b>--</b>              | <b>--</b>                 | <b>17.80</b>   | <b>21.11</b>                     | <b>&lt;50</b>            | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>13</b> | <b>1.18</b> | <b>6.94</b> |

#### 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             |          |
| <b>MW-1</b>          |                          |               |            |                 |                 |                 |                 |                 |          |
| 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        |
| 4/8/2008             | <300                     | 57            | 110        | <0.50           | <0.50           | 2.6             | <0.50           | <0.50           |          |
| <b>8/20/2008</b>     | <b>&lt;300</b>           | <b>&lt;10</b> | <b>3.3</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> |          |
| <b>MW-2</b>          |                          |               |            |                 |                 |                 |                 |                 |          |
| 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             |          |

**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             |          |
| <b>MW-2 Cont.</b>    |                          |               |                 |                 |                 |                 |                 |                 |          |
| 1/15/2007            | <6,000                   | 1,900         | 1,400           | <10             | <10             | <10             | <10             | <10             |          |
| 4/18/2007            | <6,000                   | 1,200         | 1,100           | <10             | <10             | <10             | <10             | <10             |          |
| 7/17/2007            | <6,000                   | 1,000         | 1,300           | <10             | <10             | <10             | <10             | <10             |          |
| 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        |
| 4/8/2008             | <300                     | 970           | 690             | <0.50           | <0.50           | 3.3             | <0.50           | <0.50           |          |
| <b>8/20/2008</b>     | <b>&lt;6,000</b>         | <b>470</b>    | <b>190</b>      | <b>&lt;10</b>   | <b>&lt;10</b>   | <b>&lt;10</b>   | <b>&lt;10</b>   | <b>&lt;10</b>   |          |
| <b>MW-3</b>          |                          |               |                 |                 |                 |                 |                 |                 |          |
| 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        |
| 4/8/2008             | <300                     | <10           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| <b>8/20/2008</b>     | <b>&lt;300</b>           | <b>&lt;10</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> |          |
| <b>MW-4</b>          |                          |               |                 |                 |                 |                 |                 |                 |          |

**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             |          |
| <b>MW-4 Cont.</b>    |                          |               |             |                 |                 |                 |                 |                 |          |
| 4/7/2003             | <100                     | <20           | 24          | <0.50           | <0.50           | 7.3             | --              | --              |          |
| 7/9/2003             | <100                     | <20           | 34          | <0.50           | <0.50           | 9.8             | --              | --              |          |
| 02/05/2004           | <100                     | <20           | 22          | <0.50           | <0.50           | 6.2             | <0.50           | <0.50           |          |
| 04/05/2004           | <100                     | <20           | 27          | <0.50           | <0.50           | 7.2             | <0.50           | <0.50           | a        |
| 07/13/2004           | <100                     | 26            | 27          | <0.50           | <0.50           | 7.4             | <0.50           | <0.50           | a        |
| 11/04/2004           | <100                     | <20           | 19          | <0.50           | <0.50           | 5.1             | <0.50           | <0.50           |          |
| 01/20/2005           | <100                     | <20           | 18          | <0.50           | <0.50           | 5.2             | <0.50           | <0.50           |          |
| 04/11/2005           | <100                     | <20           | 14          | <0.50           | <0.50           | 4.0             | <0.50           | <0.50           |          |
| 08/01/2005           | <100                     | <20           | 18          | <0.50           | <0.50           | 3.9             | <0.50           | <0.50           |          |
| 10/21/2005           | <100                     | <20           | 15          | <0.50           | <0.50           | 4.6             | <0.50           | <0.50           |          |
| 01/18/2006           | <300                     | <20           | 8.9         | <0.50           | <0.50           | 2.5             | <0.50           | <0.50           |          |
| 04/14/2006           | <300                     | <20           | 4.2         | <0.50           | <0.50           | 1.3             | <0.50           | <0.50           |          |
| 7/19/2006            | <300                     | <20           | 3.4         | <0.50           | <0.50           | 0.69            | <0.50           | <0.50           | r        |
| 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        |
| 4/8/2008             | <300                     | <10           | 1.7         | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| <b>8/20/2008</b>     | <b>&lt;300</b>           | <b>&lt;10</b> | <b>0.70</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> |          |
| <b>MW-5</b>          |                          |               |             |                 |                 |                 |                 |                 |          |
| 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            |          |

**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             |          |
| <b>MW-5 Cont.</b>    |                          |               |                 |                 |                 |                 |                 |                 |          |
| 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            |          |
| 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        |
| 4/8/2008             | <300                     | 300           | 8.0             | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| <b>8/20/2008</b>     | <b>&lt;600</b>           | <b>520</b>    | <b>3.6</b>      | <b>&lt;1.0</b>  | <b>&lt;1.0</b>  | <b>&lt;1.0</b>  | <b>&lt;1.0</b>  | <b>&lt;1.0</b>  |          |
| <b>MW-6</b>          |                          |               |                 |                 |                 |                 |                 |                 |          |
| 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           |          |
| <b>8/20/2008</b>     | <b>&lt;300</b>           | <b>&lt;10</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> |          |
| <b>MW-7</b>          |                          |               |                 |                 |                 |                 |                 |                 |          |
| 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            |          |

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

| Well and<br>Sample Date | Concentrations in (µg/L) |           |           |                 |                 |                 |                 |                 | Comments |
|-------------------------|--------------------------|-----------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|----------|
|                         | Ethanol                  | TBA       | MTBE      | DIPE            | ETBE            | TAME            | 1,2-DCA         | EDB             |          |
| <b>MW-7 Cont.</b>       |                          |           |           |                 |                 |                 |                 |                 |          |
| 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             |          |
| 4/8/2008                | <300                     | 700       | 1,200     | <0.50           | <0.50           | 5.1             | <0.50           | <0.50           |          |
| <b>8/20/2008</b>        | <b>&lt;300</b>           | <b>34</b> | <b>39</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> |          |
| <b>MW-8</b>             |                          |           |           |                 |                 |                 |                 |                 |          |
| 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           |          |
| 4/8/2008                | <300                     | 110       | 32        | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| <b>8/20/2008</b>        | <b>&lt;300</b>           | <b>62</b> | <b>13</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> |          |

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**

| <b>Date Sampled</b> | <b>Approximate Flow Direction</b> | <b>Approximate Hydraulic Gradient</b> |
|---------------------|-----------------------------------|---------------------------------------|
| 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                                 |
| 4/8/2008            | West                              | 0.006                                 |
| <b>8/20/2008</b>    | <b>West</b>                       | <b>0.006</b>                          |

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**

| <b>Well Designation</b>   | <b>Product Recovery Field Date</b> | <b>Floating Product Thickness (feet)</b> | <b>Floating Product Recovered (gallons)</b> |
|---|------------------------------------|--|---|
| 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  |
| MW-2  | 04/24/08                           | ND                                       | 0.00  |
| MW-2  | 08/20/08                           | ND                                       | 0.00  |
| <b>Approximate Cumulative Floating Product Recovered (gallons):</b> |                                    |  | <b>1.44</b>                                 |

FOOTNOTES:

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

ND Non-detect

NA Not applicable



Table 5

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

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

| Date Sampled | Sampling Port             | Matrix                   | GRO                | Benzene          | Toluene | Ethylbenzene | Total Xylenes    | TAME  | TBA   | MtBE  |
|--------------|---------------------------|--------------------------|--------------------|------------------|---------|--------------|------------------|-------|-------|-------|
| 1/29/2007    | SVE-Influent              | Air (mg/m <sup>3</sup> ) | 77                 | <0.5             | <0.5    | <0.5         | <0.5             | ---   | ---   | 9.4   |
|              | SVE A/S-Effluent          | Air (mg/m <sup>3</sup> ) | <10                | 0.19             | <0.10   | 0.10         | <0.20            | ---   | ---   | 5.1   |
|              | SVE-Effluent              | Air (mg/m <sup>3</sup> ) | <10                | <0.10            | <0.10   | <0.10        | <0.20            | ---   | ---   | <0.50 |
|              | GWE-Influent              | Water (µg/L)             | 2,000              | 35               | <12     | 23           | 14               | <12   | 1,800 | 1,300 |
|              | GWE A/S-Effluent          | Water (µg/L)             | 92                 | <0.50            | <0.50   | <0.50        | <0.50            | <0.50 | 1,900 | 150   |
|              | GWE-Effluent              | Water (µg/L)             | <50                | <0.50            | <0.50   | <0.50        | <0.50            | <0.50 | <20   | <0.50 |
| 2/5/2007     | SVE-Influent              | Air (mg/m <sup>3</sup> ) | 400                | 10 <sup>2</sup>  | <0.50   | 4.7          | 2.9 <sup>2</sup> | ---   | ---   | 21    |
|              | SVE A/S-Effluent          | Air (mg/m <sup>3</sup> ) | <10                | <0.10            | <0.10   | <0.10        | <0.20            | ---   | ---   | <0.50 |
|              | SVE-Effluent              | Air (mg/m <sup>3</sup> ) | <10                | <0.10            | <0.10   | <0.10        | <0.20            | ---   | ---   | <0.50 |
|              | GWE-Influent              | Water (µg/L)             | 1,400 <sup>1</sup> | 25               | <5.0    | 15           | 7.9              | 7.5   | 1,700 | 1,600 |
|              | GWE A/S-Effluent          | Water (µg/L)             | 320 <sup>1</sup>   | <0.50            | <0.50   | <0.50        | <0.50            | 0.65  | 1,600 | 170   |
|              | GWE-Effluent              | Water (µg/L)             | <50                | <0.50            | <0.50   | <0.50        | <0.50            | <0.50 | <20   | <0.50 |
| 3/5/2007     | SVE-Influent              | Air (mg/m <sup>3</sup> ) | 100                | 2.3 <sup>2</sup> | <0.50   | 1.2          | 1.6              | ---   | ---   | 26    |
|              | SVE A/S-Effluent          | Air (mg/m <sup>3</sup> ) | 11                 | 0.10             | <0.10   | 0.13         | <0.20            | ---   | ---   | 10    |
|              | SVE-Effluent              | Air (mg/m <sup>3</sup> ) | <10                | 0.17             | <0.10   | 0.28         | <0.20            | ---   | ---   | <0.50 |
|              | GWE-Influent              | Water (µg/L)             | 1,500 <sup>1</sup> | 20               | <5.0    | 16           | 15               | 5.6   | 1,600 | 1,600 |
|              | GWE A/S-Effluent          | Water (µg/L)             | 220 <sup>1</sup>   | <0.50            | <0.50   | <0.50        | <0.50            | <0.50 | 1,600 | 200   |
|              | GWE-Effluent              | Water (µg/L)             | <50                | <0.50            | <0.50   | <0.50        | <0.50            | <0.50 | <20   | <0.50 |
| 4/2/2007     | SVE-Influent              | Air (mg/m <sup>3</sup> ) | 190                | 4.3 <sup>2</sup> | <0.50   | 1.1          | 2.5              | ---   | ---   | 30    |
|              | SVE A/S-Effluent          | Air (mg/m <sup>3</sup> ) | <10                | <0.10            | <0.10   | <0.10        | <0.20            | ---   | ---   | 5.2   |
|              | SVE-Effluent              | Air (mg/m <sup>3</sup> ) | <10                | <0.10            | <0.10   | <0.10        | <0.20            | ---   | ---   | <0.50 |
|              | GWE-Influent <sup>4</sup> | 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 <sup>1</sup>    | <5.0             | <5.0    | <5.0         | <5.0             | <5.0  | 710   | 120   |
|              | GWE-Effluent              | Water (µg/L)             | <50                | <0.50            | <0.50   | <0.50        | <0.50            | <0.50 | <20   | <0.50 |
| 5/1/2007     | SVE-Influent              | Air (mg/m <sup>3</sup> ) | 160                | <0.50            | <0.50   | <0.50        | 0.97             | ---   | ---   | 18    |
|              | SVE A/S-Effluent          | Air (mg/m <sup>3</sup> ) | <50                | <0.50            | <0.50   | <0.50        | <0.50            | ---   | ---   | 11    |
|              | SVE-Effluent              | Air (mg/m <sup>3</sup> ) | <50                | <0.50            | <0.50   | <0.50        | <0.50            | ---   | ---   | <0.50 |
|              | GWE-Influent <sup>4</sup> | Water (µg/L)             | 760                | <5.0             | <5.0    | <5.0         | <5.0             | 5.0   | 680   | 880   |
|              | GWE A/S-Effluent          | Water (µg/L)             | 76 <sup>1</sup>    | <0.50            | <0.50   | <0.50        | <0.50            | <0.50 | 640   | 66    |
|              | GWE-Effluent              | Water (µg/L)             | <50                | <0.50            | <0.50   | <0.50        | <0.50            | <0.50 | <20   | <0.50 |
| 6/4/2007     | SVE-Influent              | Air (mg/m <sup>3</sup> ) | 330                | 0.56             | 0.89    | 1.8          | 2.6              | ---   | ---   | 14    |
|              | SVE A/S-Effluent          | Air (mg/m <sup>3</sup> ) | <50                | <0.50            | 0.67    | <0.50        | 1.3              | ---   | ---   | 3.7   |
|              | SVE-Effluent              | Air (mg/m <sup>3</sup> ) | <50                | <0.50            | <0.50   | <0.50        | <0.50            | ---   | ---   | <0.50 |
|              | GWE-Influent <sup>4</sup> | 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 |
| 7/2/2007     | SVE-Influent              | Air (mg/m <sup>3</sup> ) | 180                | <0.50            | <0.50   | <0.50        | <1.0             | ---   | ---   | 11    |
|              | SVE A/S-Effluent          | Air (mg/m <sup>3</sup> ) | <10                | <0.10            | <0.10   | <0.10        | <0.20            | ---   | ---   | 0.87  |
|              | SVE-Effluent              | Air (mg/m <sup>3</sup> ) | <10                | <0.10            | <0.10   | <0.10        | <0.20            | ---   | ---   | <0.50 |
|              | GWE-Influent <sup>4</sup> | 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 |
| 8/1/2007     | SVE-Influent              | Air (mg/m <sup>3</sup> ) | 660                | <1.0             | <1.0    | 1.2          | 2.2              | ---   | ---   | 11    |
|              | SVE A/S-Effluent          | Air (mg/m <sup>3</sup> ) | 11                 | 0.25             | <0.10   | 0.21         | 0.22             | ---   | ---   | 11    |
|              | SVE-Effluent              | Air (mg/m <sup>3</sup> ) | <10                | <0.10            | <0.10   | <0.10        | <0.20            | ---   | ---   | <0.50 |
|              | GWE-Influent <sup>4</sup> | 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 |
| 9/5/2007     | SVE-Influent              | Air (mg/m <sup>3</sup> ) | 1,200              | 0.79             | <0.50   | 1.5          | 3.8              | ---   | ---   | 14    |
|              | SVE A/S-Effluent          | Air (mg/m <sup>3</sup> ) | <50                | <0.50            | <0.50   | <0.50        | <0.50            | ---   | ---   | 5.1   |
|              | SVE-Effluent              | Air (mg/m <sup>3</sup> ) | <50                | <0.50            | <0.50   | <0.50        | <0.50            | ---   | ---   | <0.50 |
|              | GWE-Influent <sup>4</sup> | 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 |
| 10/1/2007    | SVE-Influent              | Air (mg/m <sup>3</sup> ) | 1,300              | 1.2              | <0.50   | 2.6          | 5.2              | ---   | ---   | 14    |
|              | SVE A/S-Effluent          | Air (mg/m <sup>3</sup> ) | <10                | <0.50            | <0.50   | <0.50        | <0.50            | ---   | ---   | 2.6   |
|              | SVE-Effluent              | Air (mg/m <sup>3</sup> ) | <10                | <0.50            | <0.50   | <0.50        | <0.50            | ---   | ---   | 2.2   |
|              | GWE-Influent <sup>4</sup> | 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 |

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        |
|--------------|---------------------------|--------------------------|------------------|---------------|---------------|---------------|---------------|-------|------------|-------------|
| 11/6/2007    | SVE-Influent              | Air (mg/m <sup>3</sup> ) | 1,000            | 2.0           | <0.50         | 4.0           | 5.3           | ---   | ---        | 23          |
|              | SVE A/S-Effluent          | Air (mg/m <sup>3</sup> ) | 13               | <0.50         | <0.50         | <0.50         | <0.50         | ---   | ---        | 15          |
|              | SVE-Effluent              | Air (mg/m <sup>3</sup> ) | <10              | <0.50         | <0.50         | <0.50         | <0.50         | ---   | ---        | <0.50       |
|              | GWE-Influent <sup>4</sup> | 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       |
| 12/5/2007    | SVE-Influent              | Air (mg/m <sup>3</sup> ) | 830              | <0.50         | <0.50         | 1.0           | 1.2           | ---   | ---        | 2.5         |
|              | SVE A/S-Effluent          | Air (mg/m <sup>3</sup> ) | <10              | <0.50         | <0.50         | <0.50         | <0.50         | ---   | ---        | <0.50       |
|              | SVE-Effluent              | Air (mg/m <sup>3</sup> ) | <10              | <0.50         | <0.50         | <0.50         | <0.50         | ---   | ---        | <0.50       |
|              | GWE-Influent <sup>4</sup> | 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       |
| 1/7/2008     | SVE-Influent              | Air (mg/m <sup>3</sup> ) | 410              | 2.2           | 1.5           | 2.9           | 3.9           | ---   | ---        | 44          |
|              | SVE A/S-Effluent          | Air (mg/m <sup>3</sup> ) | <50              | <0.50         | <0.50         | <0.50         | <0.50         | ---   | ---        | 14          |
|              | SVE-Effluent              | Air (mg/m <sup>3</sup> ) | <50              | <0.50         | <0.50         | <0.50         | <0.50         | ---   | ---        | <0.50       |
|              | GWE-Influent              | Water (µg/L)             | 830 <sup>1</sup> | 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       |
| 2/5/2008     | SVE-Influent              | Air (mg/m <sup>3</sup> ) | <50              | 0.17          | 0.017         | 0.12          | 0.046         | ---   | ---        | 3.1         |
|              | SVE A/S-Effluent          | Air (mg/m <sup>3</sup> ) | <50              | 0.32          | 0.024         | 0.20          | 0.10          | ---   | ---        | 5.1         |
|              | SVE-Effluent              | Air (mg/m <sup>3</sup> ) | <50              | <0.0016       | 0.0032        | <0.0022       | <0.0043       | ---   | ---        | 0.098       |
|              | 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       |
| 3/5/2008     | SVE-Influent              | Air (mg/m <sup>3</sup> ) | 62               | 0.81          | 0.033         | 0.33          | 0.10          | ---   | ---        | 26          |
|              | SVE A/S-Effluent          | Air (mg/m <sup>3</sup> ) | <50              | 0.0024        | 0.024         | 0.0025        | 0.0055        | ---   | ---        | 0.27        |
|              | SVE-Effluent              | Air (mg/m <sup>3</sup> ) | <50              | <0.0016       | 0.026         | <0.0022       | <0.0043       | ---   | ---        | 0.13        |
|              | 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       |
| 4/1/2008     | SVE-Influent              | Air (mg/m <sup>3</sup> ) | 620              | 1.6           | 0.037         | 1.3           | 0.61          | ---   | ---        | 21          |
|              | SVE A/S-Effluent          | Air (mg/m <sup>3</sup> ) | <50              | 0.098         | 0.021         | 0.13          | 0.10          | ---   | ---        | 9.7         |
|              | SVE-Effluent              | Air (mg/m <sup>3</sup> ) | <50              | 0.0089        | 0.033         | 0.0052        | 0.024         | ---   | ---        | 0.014       |
|              | GWE-Influent              | Water (µg/L)             | 410              | 16            | <2.5          | 12            | 7.7           | 5.1   | 2,300      | 860         |
|              | GWE A/S-Effluent          | Water (µg/L)             | <50              | <0.50         | <0.50         | <0.50         | <0.50         | <0.50 | 1,700      | 38          |
|              | GWE-Effluent              | Water (µg/L)             | <50              | <0.50         | <0.50         | <0.50         | <0.50         | <0.50 | <10        | <0.50       |
| 5/6/2008     | SVE-Influent              | Air (mg/m <sup>3</sup> ) | 920              | 0.99          | 1.7           | 2.1           | 0.82          | ---   | ---        | 27          |
|              | SVE A/S-Effluent          | Air (mg/m <sup>3</sup> ) | <50              | 0.0046        | 0.0072        | 0.0032        | 0.0054        | ---   | ---        | 5.1         |
|              | SVE-Effluent              | Air (mg/m <sup>3</sup> ) | <50              | <0.0016       | 0.0023        | <0.0022       | <0.0043       | ---   | ---        | 16          |
|              | GWE-Influent              | Water (µg/L)             | 500              | <20           | <20           | <20           | <20           | <20   | 3,800      | 2,000       |
|              | GWE A/S-Effluent          | Water (µg/L)             | <50              | <10           | <10           | <10           | <10           | <10   | 1,200      | 85          |
|              | GWE-Effluent              | Water (µg/L)             | <50              | <0.50         | <0.50         | <0.50         | <0.50         | <0.50 | <10        | <0.50       |
| 6/2/2008     | SVE-Influent              | Air (mg/m <sup>3</sup> ) | 230              | 0.13          | <0.019        | 0.13          | 0.11          | ---   | ---        | 10          |
|              | SVE A/S-Effluent          | Air (mg/m <sup>3</sup> ) | <50              | <0.0016       | 0.015         | <0.0022       | <0.0043       | ---   | ---        | 0.88        |
|              | SVE-Effluent              | Air (mg/m <sup>3</sup> ) | <50              | <0.0016       | <0.0019       | <0.0022       | <0.0043       | ---   | ---        | 1.4         |
|              | GWE-Influent              | Water (µg/L)             | 87               | <5.0          | <5.0          | <5.0          | <5.0          | <5.0  | 310        | 340         |
|              | GWE A/S-Effluent          | Water (µg/L)             | <50              | <0.50         | <0.50         | <0.50         | <0.50         | <0.50 | 250        | 19          |
|              | GWE-Effluent              | Water (µg/L)             | <50              | <0.50         | <0.50         | <0.50         | <0.50         | <0.50 | <10        | <0.50       |
| 7/1/2008     | SVE-Influent              | Air (mg/m <sup>3</sup> ) | <b>1,200</b>     | <b>1.5</b>    | <b>20</b>     | <b>5.8</b>    | <b>36</b>     | ---   | ---        | <b>9.3</b>  |
|              | SVE A/S-Effluent          | Air (mg/m <sup>3</sup> ) | <50              | <b>0.0051</b> | <b>0.046</b>  | <b>0.0081</b> | <b>0.081</b>  | ---   | ---        | <b>0.86</b> |
|              | SVE-Effluent              | Air (mg/m <sup>3</sup> ) | <50              | <0.0016       | <b>0.0047</b> | <0.0022       | <0.0043       | ---   | ---        | <b>0.39</b> |
|              | GWE-Influent              | Water (µg/L)             | <b>660</b>       | <b>9.2</b>    | <b>85</b>     | <b>14</b>     | <b>210</b>    | <5.0  | <b>410</b> | <b>400</b>  |
|              | GWE A/S-Effluent          | Water (µg/L)             | <50              | <1.0          | <1.0          | <1.0          | <1.0          | <1.0  | <b>400</b> | <b>23</b>   |
|              | GWE-Effluent              | Water (µg/L)             | <50              | <0.50         | <0.50         | <0.50         | <0.50         | <0.50 | <10        | <0.50       |
| 8/5/2008     | SVE-Influent              | Air (mg/m <sup>3</sup> ) | <b>1100</b>      | <b>0.62</b>   | <b>0.40</b>   | <b>1.9</b>    | <b>3.5</b>    | ---   | ---        | <b>10</b>   |
|              | SVE A/S-Effluent          | Air (mg/m <sup>3</sup> ) | <50              | <0.0016       | <b>0.0096</b> | <0.0022       | <0.0043       | ---   | ---        | <b>0.40</b> |
|              | SVE-Effluent              | Air (mg/m <sup>3</sup> ) | <50              | <0.0016       | <b>0.0071</b> | <0.0022       | <0.0043       | ---   | ---        | <0.0072     |
|              | GWE-Influent              | Water (µg/L)             | <b>80</b>        | <5.0          | <5.0          | <5.0          | <b>10</b>     | <5.0  | <b>930</b> | <b>370</b>  |
|              | GWE A/S-Effluent          | Water (µg/L)             | <50              | <1.0          | <1.0          | <1.0          | <1.0          | <1.0  | <b>550</b> | <b>12</b>   |
|              | GWE-Effluent              | Water (µg/L)             | <50              | <0.50         | <0.50         | <0.50         | <0.50         | <0.50 | <10        | <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       |
|--------------|------------------|--------------------------|--------------|---------------|---------------|---------------|---------------|-------|--------------|------------|
| 9/2/2008     | SVE-Influent     | Air (mg/m <sup>3</sup> ) | <b>1,300</b> | <b>0.67</b>   | <b>0.31</b>   | <b>1.9</b>    | <b>4.0</b>    | ---   | ---          | <b>13</b>  |
|              | SVE A/S-Effluent | Air (mg/m <sup>3</sup> ) | <50          | <b>0.0043</b> | <b>0.014</b>  | <b>0.0042</b> | <b>0.015</b>  | ---   | ---          | <b>1.1</b> |
|              | SVE-Effluent     | Air (mg/m <sup>3</sup> ) | <50          | <0.0016       | <b>0.0065</b> | <0.0022       | <0.0087       | ---   | ---          | <0.0072    |
|              | GWE-Influent     | Water (µg/L)             | <b>77</b>    | <5.0          | <5.0          | <5.0          | <b>8.6</b>    | <5.0  | <b>1,100</b> | <b>380</b> |
|              | GWE A/S-Effluent | Water (µg/L)             | <50          | <1.0          | <1.0          | <1.0          | <1.0          | <1.0  | <b>450</b>   | <b>16</b>  |
|              | GWE-Effluent     | Water (µg/L)             | <50          | <0.50         | <0.50         | <0.50         | <0.50         | <0.50 | <10          | <0.50      |

Notes:  
 SVE = Soil Vapor Extration <sup>1</sup> = Hydrocarbon result partly due to individual peak(s) in quantitation range  
 GWE = Groundwater Extration <sup>2</sup> = Primary and confirm results varied by > 40% RPL  
 mg/m<sup>3</sup> = milligrams per meter cubed <sup>3</sup> = Sample taken from VOA vial with air bubble > 6 millimeters in diamete  
 mg/L = milligrams per liter <sup>4</sup> = Incorrect GWE influent concentrations were recorded in previously submitted reports  
 GRO = gasoline range organics  
 MtBE = methyl teritary butyl ether  
 TBA = tert-Butyl alcohol  
 -- = Not sampled.

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

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

| Sample ID  | Date Sampled | Notes | Totalizer Value (gallons) | Monthly Volume (gallons) | Average Discharge Rate (gpm) | GRO                           |                        |                      |   | Benzene                       |                        |                      |                          | MTBE                          |                        |                      |                          |              |
|--|--------------|-------|---------------------------|--------------------------|------------------------------|-------------------------------|------------------------|----------------------|---|-------------------------------|------------------------|----------------------|--------------------------|-------------------------------|------------------------|----------------------|--------------------------|--------------|
|  |              |       |                           |                          |                              | Influent Concentration (µg/L) | Removal Rate (lbs/day) | Net Removed (pounds) | Removed To Date (pounds)  | Influent Concentration (µg/L) | Removal Rate (lbs/day) | Net Removed (pounds) | Removed To Date (pounds) | Influent Concentration (µg/L) | Removal Rate (lbs/day) | Net Removed (pounds) | Removed To Date (pounds) |              |
| INFL   | 01/29/07     |       | 3,000                     | NA                       | NA                           | 2,000                         | 0.00                   | 0.000                | 0.000   | 35                            | 0.0E+00                | 0.000                | 0.000                    | 1,300                         | 0.0E+00                | 0.000                | 0.000                    |              |
| INFL   | 02/05/07     |       | 33,400                    | 30,400                   | 3.02                         | 1,400                         | 0.06                   | 0.431                | 0.431   | 25.0                          | 1.1E-03                | 0.008                | 0.008                    | 1,600.00                      | 5.3E-02                | 0.368                | 0.368                    |              |
| INFL   | 03/05/07     |       | 130,565                   | 97,165                   | 2.41                         | 1,500                         | 0.04                   | 1.175                | 1.606   | 20.0                          | 6.5E-04                | 0.018                | 0.026                    | 1,600.00                      | 4.6E-02                | 1.297                | 1.664                    |              |
| INFL   | 04/02/07     | 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                | 4.186   | 40.0                          | 1.9E-05                | 0.001                | 0.047                    | 880                           | 4.6E-04                | 0.013                | 4.705                    |              |
| INFL   | 04/01/08     |       | 719,174                   | 73,051                   | 1.88                         | 410                           | 0.01                   | 0.387                | 4.572   | 16.0                          | 6.3E-04                | 0.017                | 0.064                    | 860                           | 2.0E-02                | 0.530                | 5.235                    |              |
| INFL   | 05/06/08     |       | 806,356                   | 87,182                   | 1.73                         | 500                           | 0.01                   | 0.331                | 4.903   | <20                           | 2.7E-04                | 0.009                | 0.073                    | 2,000                         | 3.0E-02                | 1.040                | 6.274                    |              |
| INFL   | 06/02/08     |       | 949,693                   | 143,337                  | 3.69                         | 87                            | 0.01                   | 0.351                | 5.254   | <5.0                          | 2.8E-04                | 0.007                | 0.081                    | 340                           | 5.2E-02                | 1.399                | 7.673                    |              |
| INFL   | 07/01/08     |       | 1,028,841                 | 79,148                   | 1.90                         | 660                           | 0.01                   | 0.247                | 5.501   | 9.2                           | 1.3E-04                | 0.004                | 0.084                    | 400                           | 8.4E-03                | 0.244                | 7.917                    |              |
| INFL   | 08/05/08     |       | 1,037,580                 | 8,739                    | 0.17                         | 80                            | 0.00                   | 0.027                | 5.528   | <5.0                          | 1.2E-05                | 0.000                | 0.085                    | 370                           | 8.0E-04                | 0.028                | 7.945                    |              |
| INFL   | 09/02/08     |       | 1,052,669                 | 15,089                   | 0.37                         | 77                            | 0.00                   | 0.010                | 5.537   | <5.0                          | 1.1E-05                | 0.000                | 0.085                    | 380                           | 1.7E-03                | 0.047                | 7.993                    |              |
| <b>REPORTING PERIOD: THIRD QUARTER 2008</b>  |              |       |                           |                          |                              |                               |                        |                      |   |                               |                        |                      |                          |                               |                        |                      |                          |              |
| <b>PERIOD WATER DISCHARGED (gal):</b>  |              |       |                           |                          | <b>102,976</b>               | <b>as of 9/2/2008</b>         |                        |                      |   |                               |                        |                      |                          |                               |                        |                      |                          |              |
| <b>AVERAGE DISCHARGE RATE (gpm)</b>  |              |       |                           |                          | <b>1.14</b>                  |                               |                        |                      |   |                               |                        |                      |                          |                               |                        |                      |                          |              |
| <b>PERIOD POUNDS REMOVED:</b>  |              |       |                           |                          |                              |                               |                        | <b>0.283</b>         |   |                               |                        |                      | <b>0.005</b>             |                               |                        |                      |                          | <b>0.319</b> |
| <b>PERIOD GALLONS REMOVED:</b>   |              |       |                           |                          |                              |                               |                        | <b>0.046</b>         |   |                               |                        |                      | <b>0.001</b>             |                               |                        |                      |                          | <b>0.052</b> |
| <b>TOTAL POUNDS REMOVED:</b>   |              |       |                           |                          |                              |                               |                        |                      |   |                               |                        | <b>5.537</b>         |                          |                               |                        |                      | <b>0.085</b>             | <b>7.993</b> |
| <b>TOTAL GALLONS REMOVED:</b>  |              |       |                           |                          |                              |                               |                        |                      |   |                               |                        | <b>0.908</b>         |                          |                               |                        |                      | <b>0.012</b>             | <b>1.293</b> |
| <b>ESTIMATED PERCENT CARBON LOADING:</b>   |              |       |                           |                          | <b>22.7%</b>                 |                               |                        |                      |   |                               |                        |                      |                          |                               |                        |                      |                          |              |
| <b>Explanations:</b>   |              |       |                           |                          |                              |                               |                        |                      | <b>Notes:</b>   |                               |                        |                      |                          |                               |                        |                      |                          |              |
| µg/L = Micrograms per liter  |              |       |                           |                          |                              |                               |                        |                      | a = Influent concentrations were recorded incorrectly in previously submitted reports |                               |                        |                      |                          |                               |                        |                      |                          |              |
| 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  |              |       |                           |                          |                              |                               |                        |                      |   |                               |                        |                      |                          |                               |                        |                      |                          |              |
| <b>Assumptions:</b>  |              |       |                           |                          |                              |                               |                        |                      |   |                               |                        |                      |                          |                               |                        |                      |                          |              |
| 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       |
| EFFL  | 04/01/08        |       | 719,174                   | 73,051                   | 1.88                         | <50                     | <0.50          | <0.50          | <0.50                | <0.50          | <10        | <0.50       |
| EFFL  | 05/06/08        |       | 806,356                   | 87,182                   | 1.73                         | <50                     | <0.50          | <0.50          | <0.50                | <0.50          | <10        | <0.50       |
| EFFL  | 06/02/08        |       | 949,693                   | 143,337                  | 3.69                         | <50                     | <0.50          | <0.50          | <0.50                | <0.50          | <10        | <0.50       |
| <b>EFFL</b>                                 | <b>07/01/08</b> |       | 1,028,841                 | 79,148                   | 1.90                         | <50                     | <0.50          | <0.50          | <0.50                | <0.50          | <10        | <0.50       |
| <b>EFFL</b>                                 | <b>08/05/08</b> |       | 1,037,580                 | 8,739                    | 0.17                         | <50                     | <0.50          | <0.50          | <0.50                | <0.50          | <10        | <0.50       |
| <b>EFFL</b>                                 | <b>09/02/08</b> |       | 1,052,669                 | 15,089                   | 0.37                         | <50                     | <0.50          | <0.50          | <0.50                | <0.50          | <10        | <0.50       |
| <b>REPORTING PERIOD: THIRD QUARTER 2008</b> |                 |       |                           |                          |                              |                         |                |                |                      |                |            |             |
| <b>PERIOD WATER DISCHARGED (gal):</b>       |                 |       |                           |                          | <b>102,976</b>               | <b>as of 09/02/2008</b> |                |                |                      |                |            |             |
| <b>AVERAGE DISCHARGE RATE (gpm)</b>         |                 |       |                           |                          | <b>1.14</b>                  |                         |                |                |                      |                |            |             |
| <b>Explanations:</b>                        |                 |       |                           |                          |                              |                         |                |                |                      |                |            |             |
| 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 Uptime |
|---------------------|---------------|------------------------------------|-------------|-------------|-----------------|-------------|----------------|
|                     | Reading       | Total Days                         | Uptime      | Days Down   | Total Days      | Uptime      |                |
| 01/29/07            | 13.6          | NA                                 | NA          | NA          | NA              | NA          | NA             |
| 02/05/07            | 178.7         | 7                                  | 6.9         | 0.1         | 7               | 6.90        | 98%            |
| 03/05/07            | 437.6         | 28                                 | 10.8        | 17.2        | 35              | 17.7        | 39%            |
| 04/02/07            | 490.7         | 28                                 | 2.2         | 25.8        | 63              | 19.9        | 8%             |
| 05/01/07            | 594.2         | 29                                 | 4.3         | 24.7        | 92              | 24.2        | 15%            |
| 06/04/07            | 981.7         | 34                                 | 16.1        | 17.9        | 126             | 40.4        | 47%            |
| 07/02/07            | 1128.4        | 28                                 | 6.1         | 21.9        | 154             | 46.5        | 22%            |
| 08/01/07            | 1430.1        | 30                                 | 12.6        | 17.4        | 184             | 59.0        | 42%            |
| 09/05/07            | 1460.4        | 35                                 | 1.3         | 33.7        | 219             | 60.3        | 4%             |
| 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%             |
| 04/01/08            | 1562.0        | 27                                 | 0.0         | 27.0        | 428             | 64.5        | 0%             |
| 05/06/08            | 1564.0        | 35                                 | 0.1         | 34.9        | 463             | 64.6        | 0%             |
| 06/02/08            | 1973.0        | 27                                 | 17.0        | 10.0        | 490             | 81.7        | 63%            |
| <b>07/01/08</b>     | <b>2212.0</b> | <b>29</b>                          | <b>10.0</b> | <b>19.0</b> | <b>519</b>      | <b>91.6</b> | <b>34%</b>     |
| <b>08/05/08</b>     | <b>2241.0</b> | <b>35</b>                          | <b>1.2</b>  | <b>33.8</b> | <b>554</b>      | <b>92.8</b> | <b>3%</b>      |
| <b>09/02/08</b>     | <b>2275.0</b> | <b>28</b>                          | <b>1.4</b>  | <b>26.6</b> | <b>582</b>      | <b>94.2</b> | <b>5%</b>      |
| 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 <sup>3</sup> ) |         |         |              |         |       |
|----------|-----------------|----------------|---------------|-------------------------------|---------|---------|--------------|---------|-------|
|          |                 |                |               | 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  |
| 04/01/08 | 180             | NR             | Influent      | 620                           | 1.6     | 0.037   | 1.3          | 0.61    | 21    |
|          |                 |                | A/S-Effluent  | <50                           | 0.098   | 0.021   | 0.13         | 0.10    | 9.7   |
|          |                 |                | Effluent      | <50                           | 0.0089  | 0.033   | 0.0052       | 0.024   | 0.014 |
| 05/06/08 | 190             | NR             | Influent      | 920                           | 0.99    | 1.7     | 2.1          | 0.82    | 27    |
|          |                 |                | A/S-Effluent  | <50                           | 0.0046  | 0.0072  | 0.0032       | 0.0054  | 5.1   |
|          |                 |                | Effluent      | <50                           | <0.0016 | 0.0023  | <0.0022      | <0.0043 | 16    |
| 06/02/08 | 180             | NR             | Influent      | 230                           | 0.13    | <0.019  | 0.13         | 0.11    | 10    |
|          |                 |                | A/S-Effluent  | <50                           | <0.0016 | 0.015   | <0.0022      | <0.0043 | 0.88  |
|          |                 |                | Effluent      | <50                           | <0.0016 | <0.0019 | <0.0022      | <0.0043 | 1.4   |

**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 <sup>3</sup> ) |               |               |               |              |             |
|----------|-----------------|----------------|---------------|-------------------------------|---------------|---------------|---------------|--------------|-------------|
|          |                 |                |               | GRO                           | Benzene       | Toluene       | Ethylbenzene  | Xylenes      | MtBE        |
| 07/01/08 | 140             | NR             | Influent      | <b>1,200</b>                  | <b>1.5</b>    | <b>20</b>     | <b>5.8</b>    | <b>36</b>    | <b>9.3</b>  |
|          |                 |                | A/S-Effluent  | <50                           | <b>0.0051</b> | <b>0.046</b>  | <b>0.0081</b> | <b>0.081</b> | <b>0.86</b> |
|          |                 |                | Effluent      | <50                           | <0.0016       | <b>0.0047</b> | <0.0022       | <0.0043      | <b>0.39</b> |
| 08/05/08 | 180             | NR             | Influent      | <b>1,100</b>                  | <b>0.62</b>   | <b>0.40</b>   | <b>1.9</b>    | <b>3.5</b>   | <b>10</b>   |
|          |                 |                | A/S-Effluent  | <50                           | <0.0016       | <b>0.0096</b> | <0.0022       | <0.0043      | <b>0.40</b> |
|          |                 |                | Effluent      | <50                           | <0.0016       | <b>0.0071</b> | <0.0022       | <0.0043      | <0.0072     |
| 09/02/08 | 180             | NR             | Influent      | <b>1,300</b>                  | <b>0.67</b>   | <b>0.31</b>   | <b>1.9</b>    | <b>4.0</b>   | <b>13</b>   |
|          |                 |                | A/S-Effluent  | <50                           | <b>0.0043</b> | <b>0.014</b>  | <b>0.0042</b> | <b>0.015</b> | <b>1.1</b>  |
|          |                 |                | Effluent      | <50                           | <0.0016       | <b>0.0065</b> | <0.0022       | <0.0087      | <0.0072     |

Notes:

|                   |                               |    |                |
|-------------------|-------------------------------|----|----------------|
| mg/m <sup>3</sup> | = 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        |
| 4/1/2008 <sup>1</sup> | 9.91                                 | 0.03        | 0.40                                   | 0.00        | 96.0%                             | 99.4%        | 0.00                         | 360.27        |
| 5/6/2008 <sup>1</sup> | 15.52                                | 0.02        | 0.42                                   | 0.00        | 97.3%                             | 99.9%        | 1.06                         | 361.33        |
| 6/2/2008 <sup>1</sup> | 3.68                                 | 0.00        | 0.40                                   | 0.00        | 89.1%                             | 99.4%        | 163.61                       | 524.93        |
| <b>7/1/2008</b>       | <b>14.92</b>                         | <b>0.02</b> | <b>0.31</b>                            | <b>0.00</b> | <b>97.9%</b>                      | <b>99.9%</b> | <b>92.60</b>                 | <b>617.53</b> |
| <b>8/5/2008</b>       | <b>17.58</b>                         | <b>0.01</b> | <b>0.40</b>                            | <b>0.00</b> | <b>97.7%</b>                      | <b>99.9%</b> | <b>19.64</b>                 | <b>637.17</b> |
| <b>9/2/2008</b>       | <b>20.78</b>                         | <b>0.01</b> | <b>0.40</b>                            | <b>0.00</b> | <b>98.1%</b>                      | <b>99.9%</b> | <b>27.18</b>                 | <b>664.34</b> |

Air Permit Limits

DRE shall be at least 95%

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

Sample Calculations

$$\text{Ext. Rate from Wells (lbs/day)} = \frac{70 \text{ cuft}}{\text{min}} \times \frac{3100 \text{ mg}}{\text{cu meter}} \times \frac{0.028 \text{ cumeter}}{\text{cuft}} \times \frac{\text{lb}}{454,000 \text{ mg}} \times \frac{1,440 \text{ min}}{\text{day}} = 19.27 \text{ lbs/day}$$

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

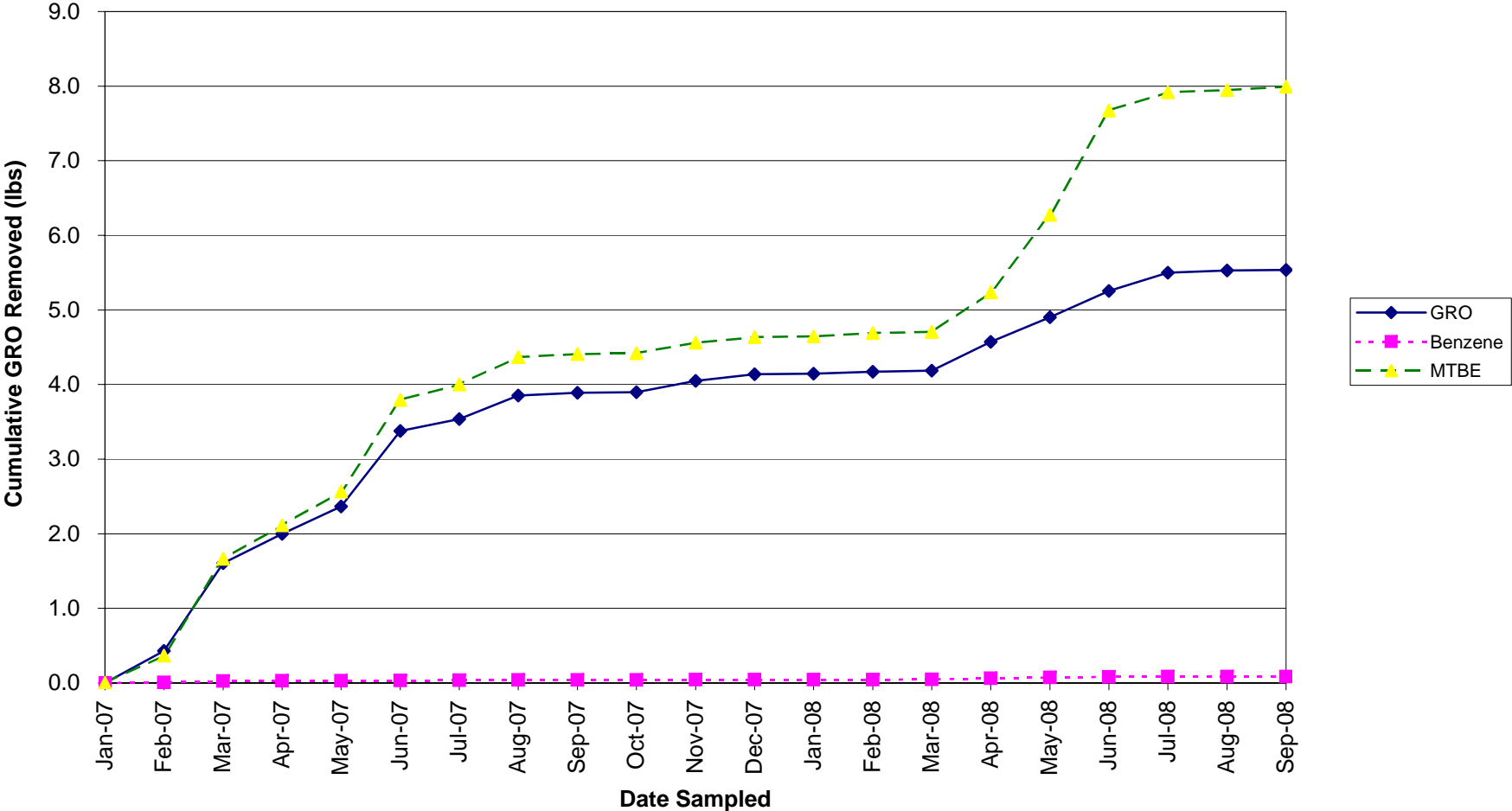
Notes

\* = Benzene results negligible, DRE not a true representation

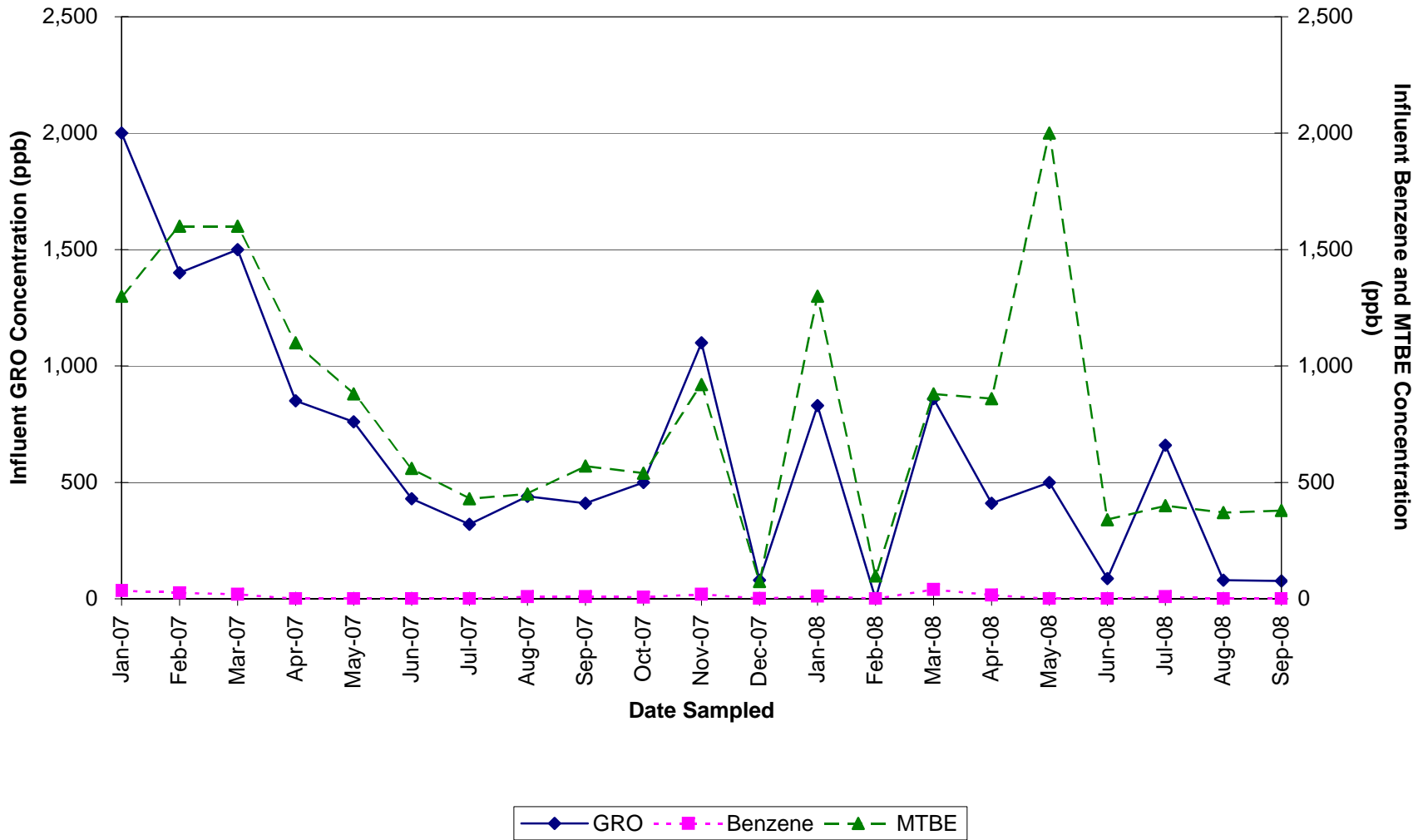
\*\* = GRO results negligible, DRE not a true representation

<sup>1</sup> = Cumulative GRO removed was incorrectly tabulated in the Second Quarter 2008 report. The current values have been corrected.

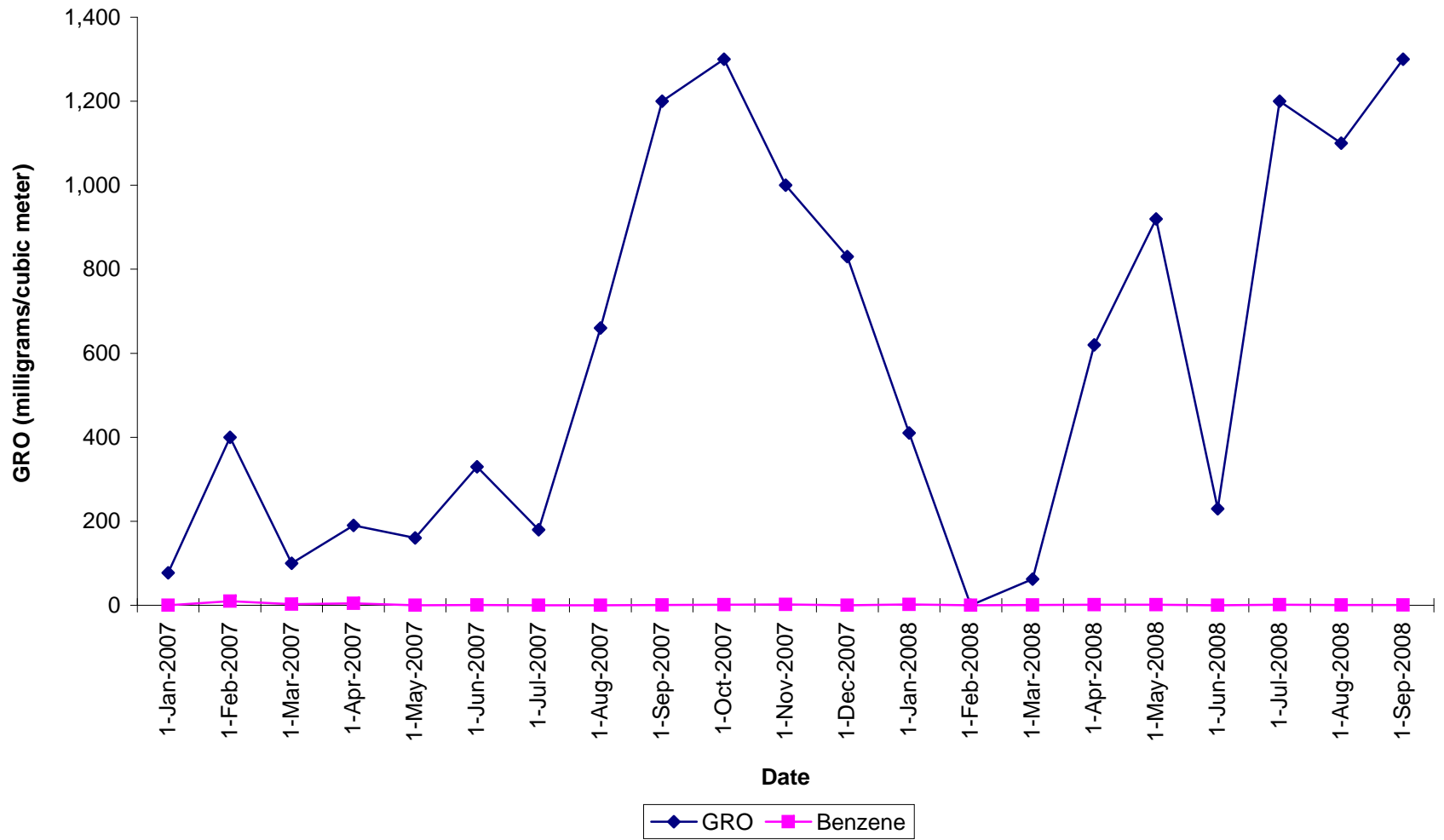
**Figure 1**  
**Cumulative GWE Mass Removal for GRO, Benzene, and MTBE**  
Station #2111, 1156 Davis Street, San Leandro, California



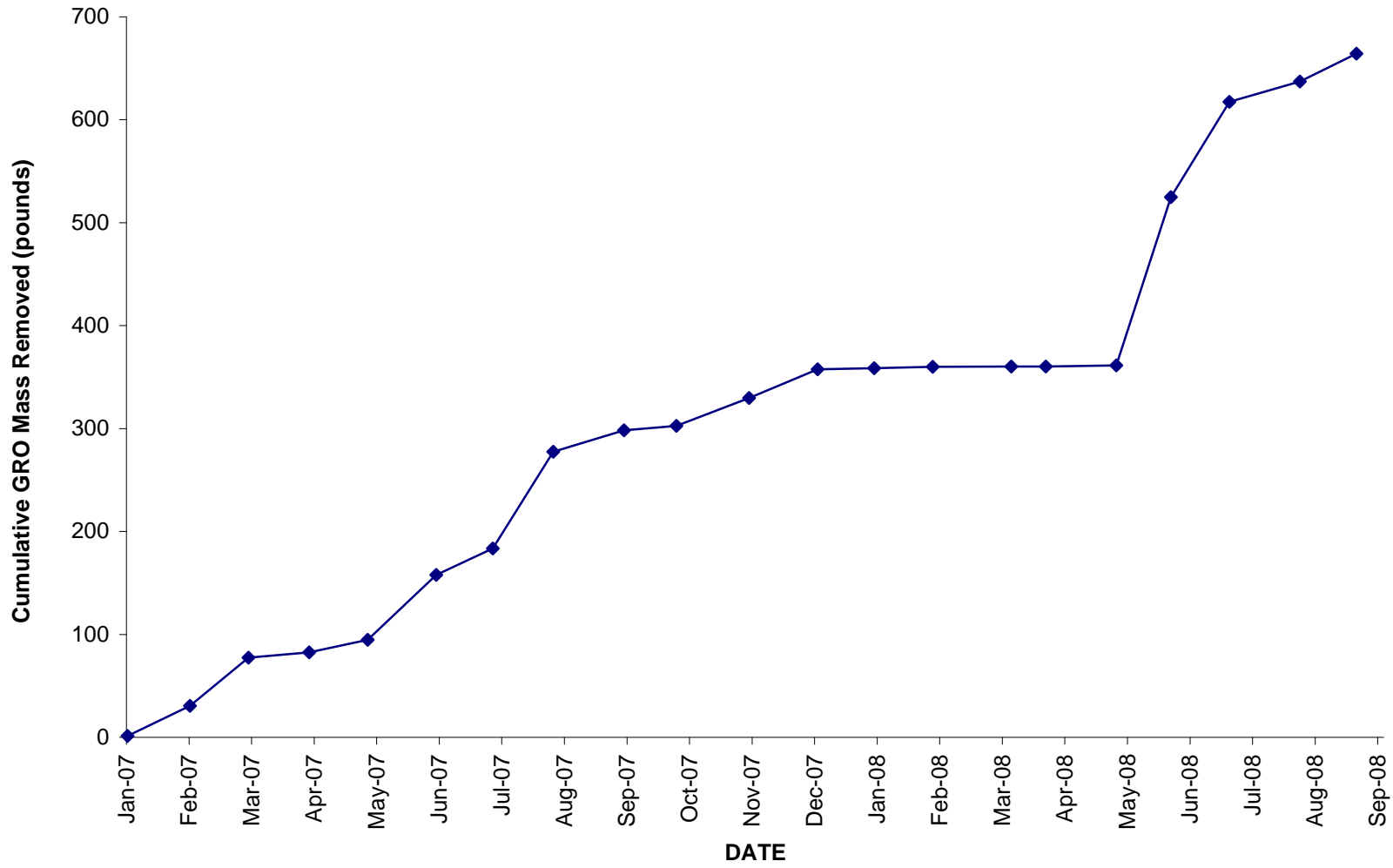
**Figure 2**  
**GWE Influent Concentrations for GRO, Benzene, and MTBE**  
 Station #2111, 1156 Davis Street, San Leandro, California



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

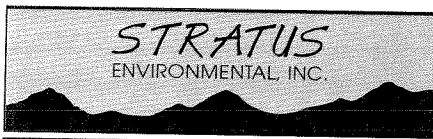


**Figure 4**  
**SVE System Cumulative GRO Mass Removed vs. Time**  
Station #2111, 1156 Davis Street, San Leandro, California



**APPENDIX A**

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



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

September 5, 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:* Becky Carroll / Jay Johnson

*Phone Number:* (530) 676-6000

*On-Site Supplier Representatives:* Chris Grant

*Sampling Date:* August 20, 2008

*Arrival:* 14:00      *Departure:* 17:00

*Weather Conditions:* Clear

*Unusual Field Conditions:* None noted.

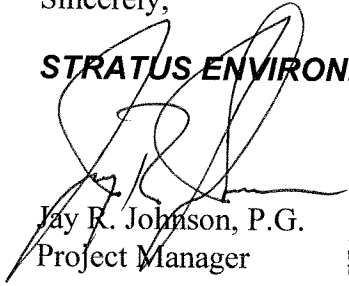
*Scope of Work Performed:* Quarterly monitoring and sampling.

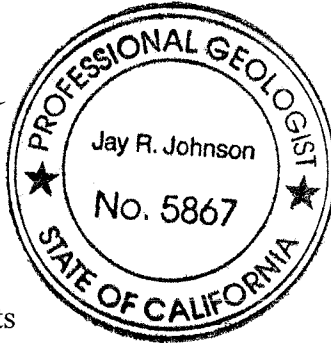
*Variations from Work Scope:* None noted.

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

Sincerely,

**STRATUS ENVIRONMENTAL, INC.**

  
Jay R. Johnson, P.G.  
Project Manager



**Attachments:**

- Field Data Sheets
- Chain of Custody Documentation
- Certified Analytical Results
- Field Procedures for Groundwater sampling

CC: Mr. Paul Supple, BP/ARCO





Site Address 1156 Davis Street  
 City San Leandro  
 Sampled by: CG  
 Signature [Signature]

Site Number Arco 2111  
 Project Number E-2111-03  
 Project PM Jay Johnson  
 DATE 08/20/08

| Water Level Data |      |   |                       |                    | Purge Volume Calculations |                   |            |                            |                               | Purge Method |             |      |       | Sample Record             |            |             | Field Data |
|------------------|------|---|-----------------------|--------------------|---------------------------|-------------------|------------|----------------------------|-------------------------------|--------------|-------------|------|-------|---------------------------|------------|-------------|------------|
| Well ID          | Time | Depth to Product (feet)<br><i>Top of Screen</i> | Depth to Water (feet) | Total Depth (feet) | Water column (feet)       | Diameter (inches) | Multiplier | 3 casing volumes (gallons) | Actual water purged (gallons) | No Purge     | Bailer      | Pump | other | DTW at sample time (feet) | Sample I.D | Sample Time | DO (mg/L)  |
| Mw-1             |      | 12.50   | 18.32                 | 26.06              | —                         | 4                 | 2          | —                          | —                             |              |             |      |       |                           |            |             |            |
| Mw-2             |      | 12.00   | 16.66                 | 26.51              | —                         | 4                 | 2          | —                          | —                             | X            | Sample only |      |       | 18.32                     | Mw-1       | 1447        | 2.37       |
| Mw-3             |      | 12.00   | 17.65                 | 26.22              | —                         | 4                 | 2          | —                          | —                             | R            | Sample only |      |       | 16.66                     | Mw-2       | 1537        | 1.54       |
| Mw-4             |      | 10.00   | 16.65                 | 21.52              | —                         | 4                 | 2          | —                          | —                             | X            | Sample only |      |       | 17.65                     | Mw-3       | 1436        | 2.85       |
| Mw-5             |      | 9.58  | 16.11                 | 23.61              | —                         | 2                 | .5         | —                          | —                             | X            | Sample only |      |       | 16.65                     | Mw-4       | 1614        | 2.36       |
| Mw-6             |      | 10.00   | 15.59                 | 20.45              | —                         | 2                 | .5         | —                          | —                             | R            | Sample only |      |       | 16.11                     | Mw-5       | 1651        | 1.65       |
| Mw-7             |      | 12.00   | 16.57                 | 26.27              | —                         | 4                 | 2          | —                          | —                             | X            | Sample only |      |       | 15.59                     | Mw-6       | 1629        | 1.66       |
| Mw-8             |      | 18.00   | 17.36                 | 39.05              | 21.75                     | 2                 | .5         | 10.86                      | 11                            | X            | Sample only |      |       | 16.57                     | Mw-7       | 1556        | 2.12       |
|                  |      |   |                       |                    |                           |                   |            |                            |                               |              |             |      |       | 17.45                     | Mw-8       | 1521        | 1.18       |

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

Please refer to groundwater sampling field procedures  
 pH/Conductivity/temperature Meter - Oakton Model PC-10  
 DO Meter - Oakton 300 Series (DO is always measured before purge)

CALIBRATION DATE  
 pH 8/13/08 ON  
 Conductivity /  
 DO /

# STRATUS

ENVIRONMENTAL, INC.

Site Address 1156 PAVILION ST  
 City San Leandro  
 Site Sampled by CG

Site Number ARCO 2111  
 Project No. E-2111-02  
 Project PM Jay Johnson  
 Date Sampled 08/20/08

|   |             |             |            |            |   |             |             |            |          |
|---|-------------|-------------|------------|------------|---|-------------|-------------|------------|----------|
| Well ID <u>MW-3</u> <u>1430</u>                   |             |             |            |            | Well ID <u>MW-1</u> <u>1447</u>                   |             |             |            |          |
| purge start time <u>BATLER(NP)</u> <u>no odor</u> |             |             |            |            | purge start time <u>BATLER(NP)</u> <u>no odor</u> |             |             |            |          |
| time  | Temp C      | pH          | cond       | gallons    | time  | Temp C      | pH          | cond       | gallons  |
|   | <u>21.3</u> | <u>7.62</u> | <u>561</u> | <u>Ø</u>   |   | <u>20.6</u> | <u>6.95</u> | <u>587</u> | <u>Ø</u> |
| time  |             |             |            |            | time  |             |             |            |          |
| time  |             |             |            |            | time  |             |             |            |          |
| time  |             |             |            |            | time  |             |             |            |          |
| purge stop time                                   |             |             |            |            | purge stop time                                   |             |             |            |          |
| Well ID <u>MW-8</u> <u>1521</u>                   |             |             |            |            | Well ID <u>MW-2</u> <u>1537</u>                   |             |             |            |          |
| purge start time <u>BATLER</u> <u>no odor</u>     |             |             |            |            | purge start time <u>BATLER(NP)</u> <u>odor</u>    |             |             |            |          |
| time  | Temp C      | pH          | cond       | gallons    | time  | Temp C      | pH          | cond       | gallons  |
|   | <u>19.6</u> | <u>6.96</u> | <u>565</u> | <u>Ø</u>   |   | <u>20.8</u> | <u>6.91</u> | <u>604</u> | <u>Ø</u> |
| time  | <u>19.4</u> | <u>6.93</u> | <u>563</u> | <u>5.5</u> | time  |             |             |            |          |
| time  | <u>20.6</u> | <u>6.94</u> | <u>559</u> | <u>11</u>  | time  |             |             |            |          |
| time  |             |             |            |            | time  |             |             |            |          |
| purge stop time                                   |             |             |            |            | purge stop time                                   |             |             |            |          |
| Well ID <u>MW-7</u> <u>1556</u>                   |             |             |            |            | Well ID <u>MW-4</u> <u>1614</u>                   |             |             |            |          |
| purge start time <u>BATLER(NP)</u> <u>no odor</u> |             |             |            |            | purge start time <u>BATLER(NP)</u> <u>no odor</u> |             |             |            |          |
| time  | Temp C      | pH          | cond       | gallons    | time  | Temp C      | pH          | cond       | gallons  |
|   | <u>21.4</u> | <u>7.01</u> | <u>654</u> | <u>Ø</u>   |   | <u>21.4</u> | <u>6.90</u> | <u>653</u> | <u>Ø</u> |
| time  |             |             |            |            | time  |             |             |            |          |
| time  |             |             |            |            | time  |             |             |            |          |
| time  |             |             |            |            | time  |             |             |            |          |
| purge stop time                                   |             |             |            |            | purge stop time                                   |             |             |            |          |
| Well ID <u>MW-6</u> <u>1629</u>                   |             |             |            |            | Well ID <u>MW-5</u> <u>1651</u>                   |             |             |            |          |
| purge start time <u>BATLER(NP)</u> <u>no odor</u> |             |             |            |            | purge start time <u>BATLER(NP)</u> <u>no odor</u> |             |             |            |          |
| time  | Temp C      | pH          | cond       | gallons    | time  | Temp C      | pH          | cond       | gallons  |
|   | <u>21.9</u> | <u>6.83</u> | <u>680</u> | <u>Ø</u>   |   | <u>21.0</u> | <u>6.86</u> | <u>647</u> | <u>Ø</u> |
| time  |             |             |            |            | time  |             |             |            |          |
| time  |             |             |            |            | time  |             |             |            |          |
| time  |             |             |            |            | time  |             |             |            |          |
| purge stop time                                   |             |             |            |            | purge stop time                                   |             |             |            |          |



NO. 674103

# NON-HAZARDOUS WASTE DATA FORM

SITE:

EPA I.D. NO.

NOT REQUIRED

NAME BP WEST COAST PRODUCTS LLC ARCO # 2111

ADDRESS P.O. BOX 80249

RANCHO SANTA MARGARITA

CITY, STATE, ZIP CA 92688

PROFILE NO.

PHONE NO. ( )

CONTAINERS: No. \_\_\_\_\_ VOLUME 11 gal WEIGHT \_\_\_\_\_

TYPE:  TANK TRUCK  DUMP TRUCK  DRUMS  CARTONS  OTHER \_\_\_\_\_

WASTE DESCRIPTION NON-HAZARDOUS WATER GENERATING PROCESS WELL PURGING/DECON WATER

1. WATER 99-100% PPM %

2. TDH <1% PPM %

3. \_\_\_\_\_ PPM %

4. \_\_\_\_\_ PPM %

5. \_\_\_\_\_ PPM %

6. \_\_\_\_\_ PPM %

7. BEST# PPM %

8. \_\_\_\_\_ PPM %

PROPERTIES: 7-10  SOLID  LIQUID  SLUDGE  SLURRY  OTHER \_\_\_\_\_

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PROTECTIVE CLOTHING

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Larry Moothart BEST for BP  
TYPED OR PRINTED FULL NAME & SIGNATURE

08/24/06  
DATE

TO BE COMPLETED BY GENERATOR

TRANSPORTER

NAME Transporter #1 STRATUS ENVIRONMENTAL Transporter #2

EPA I.D. NO.

ADDRESS 3330 CAMERON PARK DR

SERVICE ORDER NO. \_\_\_\_\_

CITY, STATE, ZIP CAMERON PARK, CA 95682

PICK UP DATE \_\_\_\_\_

PHONE NO. 530-676-2031

Chris Grant  
TYPED OR PRINTED FULL NAME & SIGNATURE

08/20/06  
DATE

TRUCK, UNIT, I.D. NO. \_\_\_\_\_

TSD FACILITY

NAME INSTRAT, INC

EPA I.D. NO.

DISPOSAL METHOD

ADDRESS 1105 AIRPORT RD #C

LANDFILL  OTHER \_\_\_\_\_

CITY, STATE, ZIP RIO VISTA, CA 94571

PHONE NO. 530-753-1829

TYPED OR PRINTED FULL NAME & SIGNATURE

DATE

|       |         |       |      |      |
|-------|---------|-------|------|------|
| GEN   | OLD/NEW | L     | A    | TONS |
| TRANS |         | S     | B    |      |
| C/Q   |         | RT/CD | HWDF | NONE |

DISCREPANCY

## Chain of Custody Record

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

|                              |                  |
|------------------------------|------------------|
| On-site Time: <u>1400</u>    | Temp: <u>88</u>  |
| Off-site Time: <u>1700</u>   | Temp: <u>81</u>  |
| Sky Conditions: <u>Clear</u> |                  |
| Meteorological Events: _____ |                  |
| Wind Speed: _____            | Direction: _____ |

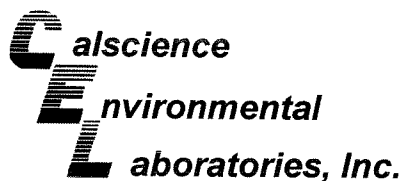
|   |   |   |
|---|---|---|
| Lab Name: <u>Cal Science</u>                      | BP/AR Facility No.: <u>2111</u>                               | Consultant/Contractor: <u>Stratus Environmental, Inc.</u> |
| Address: <u>7440 Lincoln way</u>                  | BP/AR Facility Address: <u>1156 Davis Street, San Leandro</u> | Address: <u>3330 Cameron Park Drive, Suite 550</u>        |
| Garden Grove Ca. <u>92841-1427</u>                | Site Lat/Long: _____  | <u>Cameron Park, CA 95682</u>                             |
| Lab PM: <u>Linda Sharpenberg</u>                  | California Global ID No.: <u>T0600101764</u>                  | Consultant/Contractor Project No.: <u>E2111-03</u>        |
| Tele/Fax: <u>714-895-5494 714-895-7501 (fax)</u>  | Enfos Project No.: <u>GOC28-0029</u>                          | Consultant/Contractor PM: <u>Jay Johnson</u>              |
| BP/AR PM Contact: <u>Paul Supple</u>              | Provision or OOC (circle one) <u>Provision</u>                | Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>          |
| Address: <u>2010 Crow Canyon Place, Suite 150</u> | Phase/WBS: <u>04-Monitoring</u>                               | Report Type & QC Level: <u>Level 1 with EDF</u>           |
| <u>San Ramon, CA</u>                              | Sub Phase/Task: <u>03-Analytical</u>                          | E-mail EDD To: <u>shayes@stratusinc.net</u>               |
| Tele/Fax: <u>925-275-3506</u>                     | Cost Element: <u>01-Contractor labor</u>                      | Invoice to: <u>Atlantic Richfield Co.</u>                 |

| Item No. | Sample Description | Time | Date  | Matrix     |              |     | Laboratory No. | No. of Containers | Preservative |                                |                  |     |          | Requested Analysis |        |           |       |           |           | Sample Point Lat/Long and Comments |  |  |  |                   |
|----------|--------------------|------|-------|------------|--------------|-----|----------------|-------------------|--------------|--------------------------------|------------------|-----|----------|--------------------|--------|-----------|-------|-----------|-----------|------------------------------------|--|--|--|-------------------|
|          |                    |      |       | Soil/Solid | Water/Liquid | Air |                |                   | Unpreserved  | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | Methanol | GPD *              | BTEX * | 5 oxy's * | EDB * | 1,2 DCA * | Ethanol * |                                    |  |  |  |                   |
| 1        | MW-1               | 1447 | 08/20 | X          |              |     |                | 6                 |              |                                |                  |     |          | X                  | X      | X         | X     | X         | X         |                                    |  |  |  |                   |
| 2        | MW-2               | 1537 |       |            |              |     |                |                   |              |                                |                  |     |          |                    |        |           |       |           |           |                                    |  |  |  | *all by B260      |
| 3        | MW-3               | 1430 |       |            |              |     |                |                   |              |                                |                  |     |          |                    |        |           |       |           |           |                                    |  |  |  |                   |
| 4        | MW-4               | 1614 |       |            |              |     |                |                   |              |                                |                  |     |          |                    |        |           |       |           |           |                                    |  |  |  |                   |
| 5        | MW-5               | 1651 |       |            |              |     |                |                   |              |                                |                  |     |          |                    |        |           |       |           |           |                                    |  |  |  |                   |
| 6        | MW-6               | 1629 |       |            |              |     |                |                   |              |                                |                  |     |          |                    |        |           |       |           |           |                                    |  |  |  |                   |
| 7        | MW-7               | 1556 |       |            |              |     |                |                   |              |                                |                  |     |          |                    |        |           |       |           |           |                                    |  |  |  |                   |
| 8        | MW-8               | 1521 |       |            |              |     |                |                   |              |                                |                  |     |          |                    |        |           |       |           |           |                                    |  |  |  |                   |
| 9        |                    |      |       |            |              |     |                |                   |              |                                |                  |     |          |                    |        |           |       |           |           |                                    |  |  |  |                   |
| 10       | TB-2111-08202008   | 1700 | 08/20 | X          |              |     |                | 2                 |              |                                |                  |     |          |                    |        |           |       |           |           |                                    |  |  |  | HOLD on "on hold" |

|  |  |                    |                   |   |                       |                   |
|--|--|--------------------|-------------------|---|-----------------------|-------------------|
| Sampler's Name: <u>C. Grant</u>          | Reinquished By / Affiliation: <u>[Signature] / STRATUS</u> | Date: <u>08/22</u> | Time: <u>1220</u> | Accepted By / Affiliation: <u>[Signature] CEC</u> | Date: <u>08/22/08</u> | Time: <u>1220</u> |
| Sampler's Company: <u>Stratus Envir.</u> |  |                    |                   |   |                       |                   |
| Shipment Date: <u>08/22/08</u>           |  |                    |                   |   |                       |                   |
| Shipment Method: _____                   |  |                    |                   |   |                       |                   |
| Shipment Tracking No: _____              |  |                    |                   |   |                       |                   |

Special Instructions: Please cc results to mlller@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



September 05, 2008

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

Subject: **Calscience Work Order No.: 08-08-2138**  
**Client Reference: ARCO 2111**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/23/2008 and analyzed in accordance with the attached chain-of-custody.

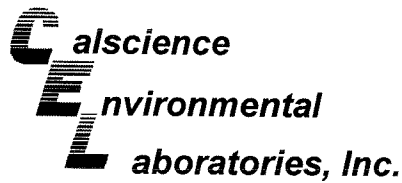
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows 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,

A handwritten signature in black ink that reads "Linda Scharpenberg". The signature is written in a cursive style with a horizontal line underneath.

Calscience Environmental  
Laboratories, Inc.  
Linda Scharpenberg  
Project Manager



Analytical Report



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

Date Received: 08/23/08  
Work Order No: 08-08-2138  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: ARCO 2111

Page 1 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-1                 | 08-08-2138-1-D    | 08/20/08 14:47      | Aqueous | GC 4       | 08/28/08      | 08/29/08 14:03     | 080828B02   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 58             | 38-134                |    |             |       |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-2                 | 08-08-2138-2-D    | 08/20/08 15:37      | Aqueous | GC 4       | 08/28/08      | 08/29/08 14:36     | 080828B02   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | 990            | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 60             | 38-134                |    |             |       |

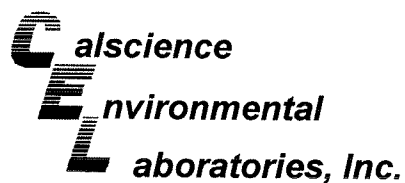
| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-3                 | 08-08-2138-3-D    | 08/20/08 14:30      | Aqueous | GC 4       | 08/28/08      | 08/29/08 15:09     | 080828B02   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 61             | 38-134                |    |             |       |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-4                 | 08-08-2138-4-D    | 08/20/08 16:14      | Aqueous | GC 4       | 08/28/08      | 08/29/08 15:41     | 080828B02   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 54             | 38-134                |    |             |       |

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



## Analytical Report



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

Date Received: 08/23/08  
Work Order No: 08-08-2138  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: ARCO 2111

Page 2 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-5                 | 08-08-2138-5-D    | 08/20/08<br>16:51   | Aqueous | GC 4       | 08/28/08      | 08/29/08<br>16:28  | 080828B02   |

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

|      |                |                   |         |      |          |                   |           |
|------|----------------|-------------------|---------|------|----------|-------------------|-----------|
| MW-6 | 08-08-2138-6-D | 08/20/08<br>16:29 | Aqueous | GC 4 | 08/28/08 | 08/29/08<br>17:01 | 080828B02 |
|------|----------------|-------------------|---------|------|----------|-------------------|-----------|

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 60             | 38-134                |    |             |       |

|      |                |                   |         |      |          |                   |           |
|------|----------------|-------------------|---------|------|----------|-------------------|-----------|
| MW-7 | 08-08-2138-7-D | 08/20/08<br>15:56 | Aqueous | GC 4 | 08/28/08 | 08/29/08<br>17:33 | 080828B02 |
|------|----------------|-------------------|---------|------|----------|-------------------|-----------|

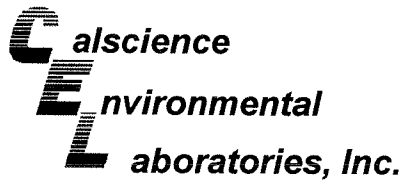
| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 61             | 38-134                |    |             |       |

|      |                |                   |         |      |          |                   |           |
|------|----------------|-------------------|---------|------|----------|-------------------|-----------|
| MW-8 | 08-08-2138-8-D | 08/20/08<br>15:21 | Aqueous | GC 4 | 08/28/08 | 08/29/08<br>18:06 | 080828B02 |
|------|----------------|-------------------|---------|------|----------|-------------------|-----------|

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 51             | 38-134                |    |             |       |

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





Analytical Report



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

Date Received: 08/23/08  
 Work Order No: 08-08-2138  
 Preparation: EPA 5030B  
 Method: EPA 8015B (M)

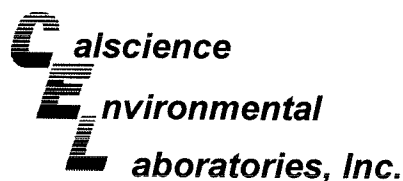
Project: ARCO 2111

Page 3 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank         | 099-12-695-247    | N/A                 | Aqueous | GC 4       | 08/28/08      | 08/29/08<br>04:11  | 080828B02   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 57             | 38-134                |    |             |       |

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



## Analytical Report



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

Date Received: 08/23/08  
Work Order No: 08-08-2138  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: ARCO 2111

Page 1 of 4

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-1                 | 08-08-2138-1-A    | 08/20/08<br>14:47   | Aqueous | GC/MS BB   | 08/29/08      | 08/29/08<br>20:00  | 080829L01   |

| Parameter             | Result         | RL                    | DF | Qual        | Parameter                     | Result         | RL                    | DF | Qual        |
|-----------------------|----------------|-----------------------|----|-------------|-------------------------------|----------------|-----------------------|----|-------------|
| Benzene               | ND             | 0.50                  | 1  |             | Methyl-t-Butyl Ether (MTBE)   | 3.3            | 0.50                  | 1  |             |
| 1,2-Dibromoethane     | ND             | 0.50                  | 1  |             | Tert-Butyl Alcohol (TBA)      | ND             | 10                    | 1  |             |
| 1,2-Dichloroethane    | ND             | 0.50                  | 1  |             | Diisopropyl Ether (DIPE)      | ND             | 0.50                  | 1  |             |
| Ethylbenzene          | ND             | 0.50                  | 1  |             | Ethyl-t-Butyl Ether (ETBE)    | ND             | 0.50                  | 1  |             |
| Toluene               | ND             | 0.50                  | 1  |             | Tert-Amyl-Methyl Ether (TAME) | ND             | 0.50                  | 1  |             |
| Xylenes (total)       | ND             | 0.50                  | 1  |             | Ethanol                       | ND             | 300                   | 1  |             |
| <u>Surrogates:</u>    | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> | <u>Surrogates:</u>            | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |
| 1,2-Dichloroethane-d4 | 96             | 73-157                |    |             | Dibromofluoromethane          | 109            | 82-142                |    |             |
| Toluene-d8            | 102            | 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 |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-2                 | 08-08-2138-2-A    | 08/20/08<br>15:37   | Aqueous | GC/MS BB   | 08/28/08      | 08/29/08<br>08:18  | 080828L02   |

| Parameter             | Result         | RL                    | DF | Qual        | Parameter                     | Result         | RL                    | DF | Qual        |
|-----------------------|----------------|-----------------------|----|-------------|-------------------------------|----------------|-----------------------|----|-------------|
| Benzene               | 21             | 10                    | 20 |             | Methyl-t-Butyl Ether (MTBE)   | 190            | 10                    | 20 |             |
| 1,2-Dibromoethane     | ND             | 10                    | 20 |             | Tert-Butyl Alcohol (TBA)      | 470            | 200                   | 20 |             |
| 1,2-Dichloroethane    | ND             | 10                    | 20 |             | Diisopropyl Ether (DIPE)      | ND             | 10                    | 20 |             |
| Ethylbenzene          | ND             | 10                    | 20 |             | Ethyl-t-Butyl Ether (ETBE)    | ND             | 10                    | 20 |             |
| Toluene               | ND             | 10                    | 20 |             | Tert-Amyl-Methyl Ether (TAME) | ND             | 10                    | 20 |             |
| Xylenes (total)       | ND             | 10                    | 20 |             | Ethanol                       | ND             | 6000                  | 20 |             |
| <u>Surrogates:</u>    | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> | <u>Surrogates:</u>            | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |
| 1,2-Dichloroethane-d4 | 110            | 73-157                |    |             | Dibromofluoromethane          | 117            | 82-142                |    |             |
| Toluene-d8            | 105            | 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 |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-3                 | 08-08-2138-3-A    | 08/20/08<br>14:30   | Aqueous | GC/MS BB   | 08/28/08      | 08/29/08<br>04:57  | 080828L02   |

| Parameter             | Result         | RL                    | DF | Qual        | Parameter                     | Result         | RL                    | DF | Qual        |
|-----------------------|----------------|-----------------------|----|-------------|-------------------------------|----------------|-----------------------|----|-------------|
| Benzene               | ND             | 0.50                  | 1  |             | Methyl-t-Butyl Ether (MTBE)   | ND             | 0.50                  | 1  |             |
| 1,2-Dibromoethane     | ND             | 0.50                  | 1  |             | Tert-Butyl Alcohol (TBA)      | ND             | 10                    | 1  |             |
| 1,2-Dichloroethane    | ND             | 0.50                  | 1  |             | Diisopropyl Ether (DIPE)      | ND             | 0.50                  | 1  |             |
| Ethylbenzene          | ND             | 0.50                  | 1  |             | Ethyl-t-Butyl Ether (ETBE)    | ND             | 0.50                  | 1  |             |
| Toluene               | ND             | 0.50                  | 1  |             | Tert-Amyl-Methyl Ether (TAME) | ND             | 0.50                  | 1  |             |
| Xylenes (total)       | ND             | 0.50                  | 1  |             | Ethanol                       | ND             | 300                   | 1  |             |
| <u>Surrogates:</u>    | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> | <u>Surrogates:</u>            | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |
| 1,2-Dichloroethane-d4 | 98             | 73-157                |    |             | Dibromofluoromethane          | 107            | 82-142                |    |             |
| Toluene-d8            | 103            | 82-112                |    |             | 1,4-Bromofluorobenzene        | 98             | 75-105                |    |             |

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

**Analytical Report**



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

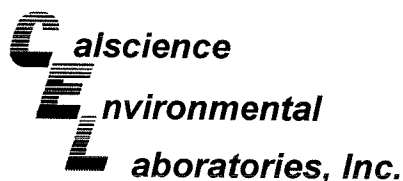
Date Received: 08/23/08  
 Work Order No: 08-08-2138  
 Preparation: EPA 5030B  
 Method: EPA 8260B  
 Units: ug/L

Project: ARCO 2111

Page 2 of 4

| Client Sample Number  | Lab Sample Number     | Date/Time Collected       | Matrix         | Instrument      | Date Prepared                 | Date/Time Analyzed        | QC Batch ID           |           |             |
|-----------------------|-----------------------|---------------------------|----------------|-----------------|-------------------------------|---------------------------|-----------------------|-----------|-------------|
| <b>MW-4</b>           | <b>08-08-2138-4-A</b> | <b>08/20/08<br/>16:14</b> | <b>Aqueous</b> | <b>GC/MS BB</b> | <b>08/28/08</b>               | <b>08/29/08<br/>08:51</b> | <b>080828L02</b>      |           |             |
| <u>Parameter</u>      | <u>Result</u>         | <u>RL</u>                 | <u>DF</u>      | <u>Qual</u>     | <u>Parameter</u>              | <u>Result</u>             | <u>RL</u>             | <u>DF</u> | <u>Qual</u> |
| Benzene               | ND                    | 0.50                      | 1              |                 | Methyl-t-Butyl Ether (MTBE)   | 0.70                      | 0.50                  | 1         |             |
| 1,2-Dibromoethane     | ND                    | 0.50                      | 1              |                 | Tert-Butyl Alcohol (TBA)      | ND                        | 10                    | 1         |             |
| 1,2-Dichloroethane    | ND                    | 0.50                      | 1              |                 | Diisopropyl Ether (DIPE)      | ND                        | 0.50                  | 1         |             |
| Ethylbenzene          | ND                    | 0.50                      | 1              |                 | Ethyl-t-Butyl Ether (ETBE)    | ND                        | 0.50                  | 1         |             |
| Toluene               | ND                    | 0.50                      | 1              |                 | Tert-Amyl-Methyl Ether (TAME) | ND                        | 0.50                  | 1         |             |
| Xylenes (total)       | ND                    | 0.50                      | 1              |                 | Ethanol                       | ND                        | 300                   | 1         |             |
| <u>Surrogates:</u>    | <u>REC (%)</u>        | <u>Control Limits</u>     |                | <u>Qual</u>     | <u>Surrogates:</u>            | <u>REC (%)</u>            | <u>Control Limits</u> |           | <u>Qual</u> |
| 1,2-Dichloroethane-d4 | 105                   | 73-157                    |                |                 | Dibromofluoromethane          | 114                       | 82-142                |           |             |
| Toluene-d8            | 104                   | 82-112                    |                |                 | 1,4-Bromofluorobenzene        | 97                        | 75-105                |           |             |
| <b>MW-5</b>           | <b>08-08-2138-5-A</b> | <b>08/20/08<br/>16:51</b> | <b>Aqueous</b> | <b>GC/MS BB</b> | <b>08/28/08</b>               | <b>08/29/08<br/>09:25</b> | <b>080828L02</b>      |           |             |
| <u>Parameter</u>      | <u>Result</u>         | <u>RL</u>                 | <u>DF</u>      | <u>Qual</u>     | <u>Parameter</u>              | <u>Result</u>             | <u>RL</u>             | <u>DF</u> | <u>Qual</u> |
| Benzene               | ND                    | 1.0                       | 2              |                 | Methyl-t-Butyl Ether (MTBE)   | 3.6                       | 1.0                   | 2         |             |
| 1,2-Dibromoethane     | ND                    | 1.0                       | 2              |                 | Tert-Butyl Alcohol (TBA)      | 520                       | 50                    | 5         |             |
| 1,2-Dichloroethane    | ND                    | 1.0                       | 2              |                 | Diisopropyl Ether (DIPE)      | ND                        | 1.0                   | 2         |             |
| Ethylbenzene          | ND                    | 1.0                       | 2              |                 | Ethyl-t-Butyl Ether (ETBE)    | ND                        | 1.0                   | 2         |             |
| Toluene               | ND                    | 1.0                       | 2              |                 | Tert-Amyl-Methyl Ether (TAME) | ND                        | 1.0                   | 2         |             |
| Xylenes (total)       | ND                    | 1.0                       | 2              |                 | Ethanol                       | ND                        | 600                   | 2         |             |
| <u>Surrogates:</u>    | <u>REC (%)</u>        | <u>Control Limits</u>     |                | <u>Qual</u>     | <u>Surrogates:</u>            | <u>REC (%)</u>            | <u>Control Limits</u> |           | <u>Qual</u> |
| 1,2-Dichloroethane-d4 | 107                   | 73-157                    |                |                 | Dibromofluoromethane          | 112                       | 82-142                |           |             |
| Toluene-d8            | 103                   | 82-112                    |                |                 | 1,4-Bromofluorobenzene        | 96                        | 75-105                |           |             |
| <b>MW-6</b>           | <b>08-08-2138-6-A</b> | <b>08/20/08<br/>16:29</b> | <b>Aqueous</b> | <b>GC/MS BB</b> | <b>08/28/08</b>               | <b>08/29/08<br/>09:58</b> | <b>080828L02</b>      |           |             |
| <u>Parameter</u>      | <u>Result</u>         | <u>RL</u>                 | <u>DF</u>      | <u>Qual</u>     | <u>Parameter</u>              | <u>Result</u>             | <u>RL</u>             | <u>DF</u> | <u>Qual</u> |
| Benzene               | ND                    | 0.50                      | 1              |                 | Methyl-t-Butyl Ether (MTBE)   | ND                        | 0.50                  | 1         |             |
| 1,2-Dibromoethane     | ND                    | 0.50                      | 1              |                 | Tert-Butyl Alcohol (TBA)      | ND                        | 10                    | 1         |             |
| 1,2-Dichloroethane    | ND                    | 0.50                      | 1              |                 | Diisopropyl Ether (DIPE)      | ND                        | 0.50                  | 1         |             |
| Ethylbenzene          | ND                    | 0.50                      | 1              |                 | Ethyl-t-Butyl Ether (ETBE)    | ND                        | 0.50                  | 1         |             |
| Toluene               | ND                    | 0.50                      | 1              |                 | Tert-Amyl-Methyl Ether (TAME) | ND                        | 0.50                  | 1         |             |
| Xylenes (total)       | ND                    | 0.50                      | 1              |                 | Ethanol                       | ND                        | 300                   | 1         |             |
| <u>Surrogates:</u>    | <u>REC (%)</u>        | <u>Control Limits</u>     |                | <u>Qual</u>     | <u>Surrogates:</u>            | <u>REC (%)</u>            | <u>Control Limits</u> |           | <u>Qual</u> |
| 1,2-Dichloroethane-d4 | 112                   | 73-157                    |                |                 | Dibromofluoromethane          | 118                       | 82-142                |           |             |
| Toluene-d8            | 105                   | 82-112                    |                |                 | 1,4-Bromofluorobenzene        | 95                        | 75-105                |           |             |

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



## Analytical Report



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

Date Received: 08/23/08  
Work Order No: 08-08-2138  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: ARCO 2111

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-7                 | 08-08-2138-7-A    | 08/20/08<br>15:56   | Aqueous | GC/MS BB   | 08/29/08      | 08/29/08<br>20:34  | 080829L01   |

| Parameter             | Result         | RL                    | DF | Qual        | Parameter                     | Result         | RL                    | DF | Qual        |
|-----------------------|----------------|-----------------------|----|-------------|-------------------------------|----------------|-----------------------|----|-------------|
| Benzene               | ND             | 0.50                  | 1  |             | Methyl-t-Butyl Ether (MTBE)   | 39             | 25                    | 50 |             |
| 1,2-Dibromoethane     | ND             | 0.50                  | 1  |             | Tert-Butyl Alcohol (TBA)      | 34             | 10                    | 1  |             |
| 1,2-Dichloroethane    | ND             | 0.50                  | 1  |             | Diisopropyl Ether (DIPE)      | ND             | 0.50                  | 1  |             |
| Ethylbenzene          | ND             | 0.50                  | 1  |             | Ethyl-t-Butyl Ether (ETBE)    | ND             | 0.50                  | 1  |             |
| Toluene               | ND             | 0.50                  | 1  |             | Tert-Amyl-Methyl Ether (TAME) | ND             | 0.50                  | 1  |             |
| Xylenes (total)       | ND             | 0.50                  | 1  |             | Ethanol                       | ND             | 300                   | 1  |             |
| <u>Surrogates:</u>    | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> | <u>Surrogates:</u>            | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |
| 1,2-Dichloroethane-d4 | 104            | 73-157                |    |             | Dibromofluoromethane          | 114            | 82-142                |    |             |
| Toluene-d8            | 103            | 82-112                |    |             | 1,4-Bromofluorobenzene        | 97             | 75-105                |    |             |

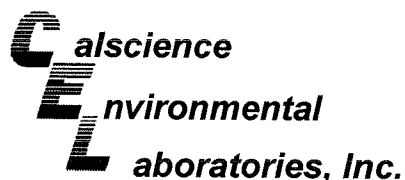
| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-8                 | 08-08-2138-8-A    | 08/20/08<br>15:21   | Aqueous | GC/MS BB   | 08/28/08      | 08/29/08<br>11:05  | 080828L02   |

| Parameter             | Result         | RL                    | DF | Qual        | Parameter                     | Result         | RL                    | DF | Qual        |
|-----------------------|----------------|-----------------------|----|-------------|-------------------------------|----------------|-----------------------|----|-------------|
| Benzene               | ND             | 0.50                  | 1  |             | Methyl-t-Butyl Ether (MTBE)   | 13             | 0.50                  | 1  |             |
| 1,2-Dibromoethane     | ND             | 0.50                  | 1  |             | Tert-Butyl Alcohol (TBA)      | 62             | 10                    | 1  |             |
| 1,2-Dichloroethane    | ND             | 0.50                  | 1  |             | Diisopropyl Ether (DIPE)      | ND             | 0.50                  | 1  |             |
| Ethylbenzene          | ND             | 0.50                  | 1  |             | Ethyl-t-Butyl Ether (ETBE)    | ND             | 0.50                  | 1  |             |
| Toluene               | ND             | 0.50                  | 1  |             | Tert-Amyl-Methyl Ether (TAME) | ND             | 0.50                  | 1  |             |
| Xylenes (total)       | ND             | 0.50                  | 1  |             | Ethanol                       | ND             | 300                   | 1  |             |
| <u>Surrogates:</u>    | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> | <u>Surrogates:</u>            | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |
| 1,2-Dichloroethane-d4 | 102            | 73-157                |    |             | Dibromofluoromethane          | 111            | 82-142                |    |             |
| Toluene-d8            | 103            | 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         | 099-12-703-418    | N/A                 | Aqueous | GC/MS BB   | 08/28/08      | 08/29/08<br>04:24  | 080828L02   |

| Parameter             | Result         | RL                    | DF | Qual        | Parameter                     | Result         | RL                    | DF | Qual        |
|-----------------------|----------------|-----------------------|----|-------------|-------------------------------|----------------|-----------------------|----|-------------|
| Benzene               | ND             | 0.50                  | 1  |             | Methyl-t-Butyl Ether (MTBE)   | ND             | 0.50                  | 1  |             |
| 1,2-Dibromoethane     | ND             | 0.50                  | 1  |             | Tert-Butyl Alcohol (TBA)      | ND             | 10                    | 1  |             |
| 1,2-Dichloroethane    | ND             | 0.50                  | 1  |             | Diisopropyl Ether (DIPE)      | ND             | 0.50                  | 1  |             |
| Ethylbenzene          | ND             | 0.50                  | 1  |             | Ethyl-t-Butyl Ether (ETBE)    | ND             | 0.50                  | 1  |             |
| Toluene               | ND             | 0.50                  | 1  |             | Tert-Amyl-Methyl Ether (TAME) | ND             | 0.50                  | 1  |             |
| Xylenes (total)       | ND             | 0.50                  | 1  |             | Ethanol                       | ND             | 300                   | 1  |             |
| <u>Surrogates:</u>    | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> | <u>Surrogates:</u>            | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |
| 1,2-Dichloroethane-d4 | 99             | 73-157                |    |             | Dibromofluoromethane          | 101            | 82-142                |    |             |
| Toluene-d8            | 103            | 82-112                |    |             | 1,4-Bromofluorobenzene        | 93             | 75-105                |    |             |

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



Analytical Report



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

Date Received: 08/23/08  
Work Order No: 08-08-2138  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

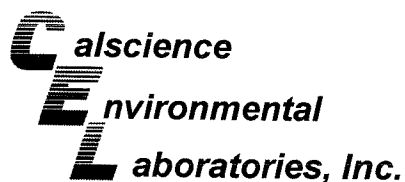
Project: ARCO 2111

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank         | 099-12-703-420    | N/A                 | Aqueous | GC/MS BB   | 08/29/08      | 08/29/08 16:37     | 080829L01   |

| Parameter             | Result         | RL                    | DF | Qual        | Parameter                     | Result         | RL                    | DF | Qual        |
|-----------------------|----------------|-----------------------|----|-------------|-------------------------------|----------------|-----------------------|----|-------------|
| Benzene               | ND             | 0.50                  | 1  |             | Methyl-t-Butyl Ether (MTBE)   | ND             | 0.50                  | 1  |             |
| 1,2-Dibromoethane     | ND             | 0.50                  | 1  |             | Tert-Butyl Alcohol (TBA)      | ND             | 10                    | 1  |             |
| 1,2-Dichloroethane    | ND             | 0.50                  | 1  |             | Diisopropyl Ether (DIPE)      | ND             | 0.50                  | 1  |             |
| Ethylbenzene          | ND             | 0.50                  | 1  |             | Ethyl-t-Butyl Ether (ETBE)    | ND             | 0.50                  | 1  |             |
| Toluene               | ND             | 0.50                  | 1  |             | Tert-Amyl-Methyl Ether (TAME) | ND             | 0.50                  | 1  |             |
| Xylenes (total)       | ND             | 0.50                  | 1  |             | Ethanol                       | ND             | 300                   | 1  |             |
| <u>Surrogates:</u>    | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> | <u>Surrogates:</u>            | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |
| 1,2-Dichloroethane-d4 | 95             | 73-157                |    |             | Dibromofluoromethane          | 101            | 82-142                |    |             |
| Toluene-d8            | 105            | 82-112                |    |             | 1,4-Bromofluorobenzene        | 96             | 75-105                |    |             |

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



## Quality Control - Spike/Spike Duplicate



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

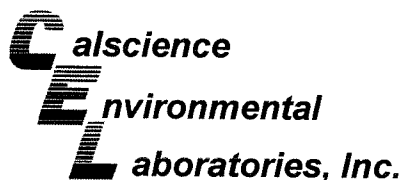
Date Received: 08/23/08  
Work Order No: 08-08-2138  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project ARCO 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 08-08-2136-5              | Aqueous | GC 4       | 08/28/08      | 08/29/08      | 080828S02           |

| <u>Parameter</u>                 | <u>MS %REC</u> | <u>MSD %REC</u> | <u>%REC CL</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
|----------------------------------|----------------|-----------------|----------------|------------|---------------|-------------------|
| Gasoline Range Organics (C6-C12) | 88             | 85              | 38-134         | 3          | 0-25          |                   |

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - Spike/Spike Duplicate



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

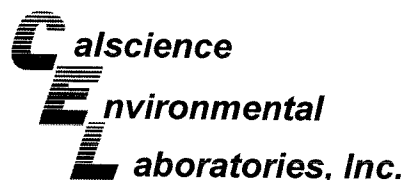
Date Received: 08/23/08  
Work Order No: 08-08-2138  
Preparation: EPA 5030B  
Method: EPA 8260B

Project ARCO 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| MW-3                      | Aqueous | GC/MS BB   | 08/28/08      | 08/29/08      | 080828S02           |

| Parameter                     | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|---------|----------|---------|-----|--------|------------|
| Benzene                       | 106     | 107      | 86-122  | 0   | 0-8    |            |
| Carbon Tetrachloride          | 103     | 95       | 78-138  | 8   | 0-9    |            |
| Chlorobenzene                 | 102     | 104      | 90-120  | 2   | 0-9    |            |
| 1,2-Dibromoethane             | 92      | 92       | 70-130  | 0   | 0-30   |            |
| 1,2-Dichlorobenzene           | 101     | 102      | 89-119  | 1   | 0-10   |            |
| 1,1-Dichloroethene            | 92      | 96       | 52-142  | 4   | 0-23   |            |
| Ethylbenzene                  | 97      | 100      | 70-130  | 3   | 0-30   |            |
| Toluene                       | 105     | 107      | 85-127  | 2   | 0-12   |            |
| Trichloroethene               | 102     | 104      | 78-126  | 2   | 0-10   |            |
| Vinyl Chloride                | 126     | 120      | 56-140  | 5   | 0-21   |            |
| Methyl-t-Butyl Ether (MTBE)   | 101     | 94       | 64-136  | 6   | 0-28   |            |
| Tert-Butyl Alcohol (TBA)      | 106     | 112      | 27-183  | 5   | 0-60   |            |
| Diisopropyl Ether (DIPE)      | 117     | 107      | 78-126  | 9   | 0-16   |            |
| Ethyl-t-Butyl Ether (ETBE)    | 103     | 89       | 67-133  | 14  | 0-21   |            |
| Tert-Amyl-Methyl Ether (TAME) | 93      | 93       | 63-141  | 0   | 0-21   |            |
| Ethanol                       | 103     | 104      | 11-167  | 1   | 0-64   |            |

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - Spike/Spike Duplicate



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

Date Received: 08/23/08  
Work Order No: 08-08-2138  
Preparation: EPA 5030B  
Method: EPA 8260B

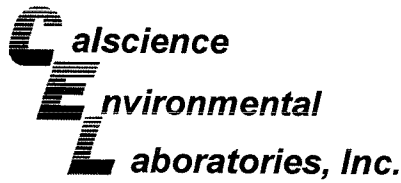
Project ARCO 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 08-08-2136-1              | Aqueous | GC/MS BB   | 08/29/08      | 08/29/08      | 080829S01           |

| Parameter                     | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|---------|----------|---------|-----|--------|------------|
| Benzene                       | 108     | 104      | 86-122  | 4   | 0-8    |            |
| Carbon Tetrachloride          | 99      | 100      | 78-138  | 1   | 0-9    |            |
| Chlorobenzene                 | 104     | 102      | 90-120  | 2   | 0-9    |            |
| 1,2-Dibromoethane             | 98      | 94       | 70-130  | 4   | 0-30   |            |
| 1,2-Dichlorobenzene           | 103     | 101      | 89-119  | 3   | 0-10   |            |
| 1,1-Dichloroethene            | 100     | 103      | 52-142  | 3   | 0-23   |            |
| Ethylbenzene                  | 96      | 98       | 70-130  | 2   | 0-30   |            |
| Toluene                       | 109     | 108      | 85-127  | 0   | 0-12   |            |
| Trichloroethene               | 103     | 97       | 78-126  | 6   | 0-10   |            |
| Vinyl Chloride                | 122     | 122      | 56-140  | 0   | 0-21   |            |
| Methyl-t-Butyl Ether (MTBE)   | 97      | 91       | 64-136  | 5   | 0-28   |            |
| Tert-Butyl Alcohol (TBA)      | 103     | 100      | 27-183  | 3   | 0-60   |            |
| Diisopropyl Ether (DIPE)      | 113     | 97       | 78-126  | 15  | 0-16   |            |
| Ethyl-t-Butyl Ether (ETBE)    | 101     | 98       | 67-133  | 3   | 0-21   |            |
| Tert-Amyl-Methyl Ether (TAME) | 97      | 93       | 63-141  | 4   | 0-21   |            |
| Ethanol                       | 107     | 112      | 11-167  | 5   | 0-64   |            |

RPD - Relative Percent Difference, CL - Control Limit





Quality Control - LCS/LCS Duplicate



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

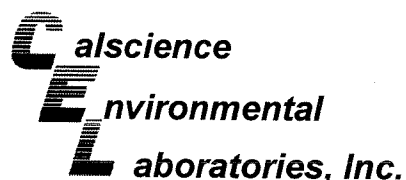
Date Received: N/A  
 Work Order No: 08-08-2138  
 Preparation: EPA 5030B  
 Method: EPA 8015B (M)

Project: ARCO 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 099-12-695-247            | Aqueous | GC 4       | 08/28/08      | 08/29/08      | 080828B02             |

| Parameter                        | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|----------------------------------|----------|-----------|---------|-----|--------|------------|
| Gasoline Range Organics (C6-C12) | 97       | 91        | 78-120  | 7   | 0-20   |            |

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
Work Order No: 08-08-2138  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: ARCO 2111

| Quality Control Sample ID     | Matrix         | Instrument      | Date Prepared   | Date Analyzed   | LCS/LCSD Batch Number |        |            |
|-------------------------------|----------------|-----------------|-----------------|-----------------|-----------------------|--------|------------|
| <b>099-12-703-418</b>         | <b>Aqueous</b> | <b>GC/MS BB</b> | <b>08/28/08</b> | <b>08/29/08</b> | <b>080828L02</b>      |        |            |
| Parameter                     | LCS %REC       | LCSD %REC       | %REC CL         | ME CL           | RPD                   | RPD CL | Qualifiers |
| Benzene                       | 107            | 104             | 87-117          | 82-122          | 3                     | 0-7    |            |
| Carbon Tetrachloride          | 105            | 103             | 78-132          | 69-141          | 1                     | 0-8    |            |
| Chlorobenzene                 | 101            | 102             | 88-118          | 83-123          | 1                     | 0-8    |            |
| 1,2-Dibromoethane             | 94             | 101             | 80-120          | 73-127          | 8                     | 0-20   |            |
| 1,2-Dichlorobenzene           | 99             | 103             | 88-118          | 83-123          | 4                     | 0-8    |            |
| 1,1-Dichloroethene            | 113            | 110             | 71-131          | 61-141          | 3                     | 0-14   |            |
| Ethylbenzene                  | 98             | 100             | 80-120          | 73-127          | 2                     | 0-20   |            |
| Toluene                       | 107            | 107             | 85-127          | 78-134          | 1                     | 0-7    |            |
| Trichloroethene               | 105            | 104             | 85-121          | 79-127          | 1                     | 0-11   |            |
| Vinyl Chloride                | 130            | 131             | 64-136          | 52-148          | 1                     | 0-10   |            |
| Methyl-t-Butyl Ether (MTBE)   | 103            | 103             | 67-133          | 56-144          | 0                     | 0-16   |            |
| Tert-Butyl Alcohol (TBA)      | 101            | 98              | 34-154          | 14-174          | 4                     | 0-19   |            |
| Diisopropyl Ether (DIPE)      | 119            | 117             | 80-122          | 73-129          | 2                     | 0-8    |            |
| Ethyl-t-Butyl Ether (ETBE)    | 109            | 105             | 73-127          | 64-136          | 4                     | 0-11   |            |
| Tert-Amyl-Methyl Ether (TAME) | 98             | 98              | 69-135          | 58-146          | 0                     | 0-12   |            |
| Ethanol                       | 100            | 96              | 34-124          | 19-139          | 4                     | 0-44   |            |

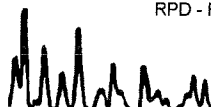
Total number of LCS compounds : 16

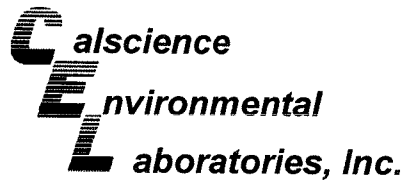
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference, CL - Control Limit





## Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
Work Order No: 08-08-2138  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: ARCO 2111

| Quality Control Sample ID     | Matrix         | Instrument      | Date Prepared   | Date Analyzed   | LCS/LCSD Batch Number |        |            |
|-------------------------------|----------------|-----------------|-----------------|-----------------|-----------------------|--------|------------|
| <b>099-12-703-420</b>         | <b>Aqueous</b> | <b>GC/MS BB</b> | <b>08/29/08</b> | <b>08/29/08</b> | <b>080829L01</b>      |        |            |
| Parameter                     | LCS %REC       | LCSD %REC       | %REC CL         | ME CL           | RPD                   | RPD CL | Qualifiers |
| Benzene                       | 106            | 107             | 87-117          | 82-122          | 0                     | 0-7    |            |
| Carbon Tetrachloride          | 100            | 103             | 78-132          | 69-141          | 2                     | 0-8    |            |
| Chlorobenzene                 | 100            | 104             | 88-118          | 83-123          | 4                     | 0-8    |            |
| 1,2-Dibromoethane             | 91             | 95              | 80-120          | 73-127          | 4                     | 0-20   |            |
| 1,2-Dichlorobenzene           | 100            | 103             | 88-118          | 83-123          | 4                     | 0-8    |            |
| 1,1-Dichloroethene            | 106            | 103             | 71-131          | 61-141          | 3                     | 0-14   |            |
| Ethylbenzene                  | 99             | 101             | 80-120          | 73-127          | 2                     | 0-20   |            |
| Toluene                       | 108            | 111             | 85-127          | 78-134          | 3                     | 0-7    |            |
| Trichloroethene               | 102            | 104             | 85-121          | 79-127          | 2                     | 0-11   |            |
| Vinyl Chloride                | 126            | 122             | 64-136          | 52-148          | 3                     | 0-10   |            |
| Methyl-t-Butyl Ether (MTBE)   | 95             | 100             | 67-133          | 56-144          | 5                     | 0-16   |            |
| Tert-Butyl Alcohol (TBA)      | 103            | 104             | 34-154          | 14-174          | 1                     | 0-19   |            |
| Diisopropyl Ether (DIPE)      | 112            | 113             | 80-122          | 73-129          | 2                     | 0-8    |            |
| Ethyl-t-Butyl Ether (ETBE)    | 101            | 98              | 73-127          | 64-136          | 2                     | 0-11   |            |
| Tert-Amyl-Methyl Ether (TAME) | 95             | 99              | 69-135          | 58-146          | 4                     | 0-12   |            |
| Ethanol                       | 108            | 83              | 34-124          | 19-139          | 26                    | 0-44   |            |

Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 08-08-2138
 

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| <u>Qualifier</u> | <u>Definition</u>  |
|------------------|--|
| AX               | Sample too dilute to quantify surrogate.   |
| AY               | Matrix interference suspected.   |
| BA               | Relative percent difference out of control.  |
| BA,AY            | Relative percent difference out of control, matrix interference suspected.                   |
| BB               | Sample > 4x spike concentration.   |
| BF               | Reporting limits raised due to high hydrocarbon background.                                  |
| BH               | Reporting limits raised due to high level of non-target analytes.                            |
| BU               | Sample analyzed after holding time expired.  |
| BV               | Sample received after holding time expired.  |
| BY               | Sample received at improper temperature.   |
| CL               | Initial analysis within holding time but required dilution.                                  |
| CQ               | Analyte concentration greater than 10 times the blank concentration.                         |
| CU               | Surrogate concentration diluted to not detectable during analysis.                           |
| DF               | Reporting limits elevated due to matrix interferences.                                       |
| ET               | Sample was extracted past end of recommended max. holding time.                              |
| EY               | Result exceeds normal dynamic range; reported as a min est.                                  |
| GN               | Surrogate recovery is outside of control limits.   |
| GS               | Internal standard recovery is outside method recovery limit.                                 |
| IB               | CCV recovery above limit; analyte not detected.  |
| IH               | Calibrtn. verif. recov. below method CL for this analyte.                                    |
| IJ               | Calibrtn. verif. recov. above method CL for this analyte.                                    |
| J,DX             | J=EPA Flag -Estimated value; DX= Value < lowest standard (MQL), but > than MDL.              |
| LA               | Confirmatory analysis was past holding time.   |
| LG               | Surrogate recovery below the acceptance limit.   |
| LH               | Surrogate recovery above the acceptance limit.   |
| LM,AY            | MS and/or MSD above acceptance limits. See Blank Spike (LCS). Matrix interference suspected. |
| LN,AY            | MS and/or MSD below acceptance limits. See Blank Spike (LCS). Matrix interference suspected. |
| LQ               | LCS recovery above method control limits.  |



Work Order Number: 08-08-2138

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| <u>Qualifier</u> | <u>Definition</u>  |
|------------------|--|
| LR               | LCS recovery below method control limits.                      |
| MB               | Analyte present in the method blank.                           |
| MG               | Analyte is a suspected lab contaminate.                        |
| PC               | Sample taken from VOA vial with air bubble > 6mm diameter.     |
| PI               | Primary and confirm results varied by > than 40% RPD.          |
| RB               | RPD exceeded method control limit; % recoveries within limits. |





# Chain of Custody Record

2138

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

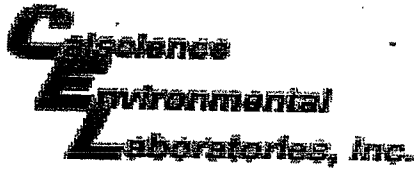
|                              |                  |
|------------------------------|------------------|
| On-site Time: <u>1400</u>    | Temp: <u>80</u>  |
| Off-site Time: <u>1700</u>   | Temp: <u>81</u>  |
| Sky Conditions: <u>Clear</u> |                  |
| Meteorological Events: _____ |                  |
| Wind Speed: _____            | Direction: _____ |

|   |   |   |
|---|---|---|
| Lab Name: <u>Cal Science</u>                      | BP/AR Facility No.: <u>2111</u>                               | Consultant/Contractor: <u>Stratus Environmental, Inc.</u> |
| Address: <u>7440 Lincoln way</u>                  | BP/AR Facility Address: <u>1156 Davis Street, San Leandro</u> | Address: <u>3330 Cameron Park Drive, Suite 550</u>        |
| Garden Grove Ca. <u>92841-1427</u>                | Site Lat/Long: _____  | <u>Cameron Park, CA 95682</u>                             |
| Lab PM: <u>Linda Sharpenberg</u>                  | California Global ID No.: <u>T0600101764</u>                  | Consultant/Contractor Project No.: <u>E2111-03</u>        |
| Tele/Fax: <u>714-895-5494 714-895-7501 (fax)</u>  | Enfos Project No.: <u>GOC28-0029</u>                          | Consultant/Contractor PM: <u>Jay Johnson</u>              |
| BP/AR PM Contact: <u>Paul Supple</u>              | Provision or OOC (circle one) <u>Provision</u>                | Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>          |
| Address: <u>2010 Crow Canyon Place, Suite 150</u> | Phase/WBS: <u>04-Monitoring</u>                               | Report Type & QC Level: <u>Level 1 with EDF</u>           |
| <u>San Ramon, CA</u>                              | Sub Phase/Task: <u>03-Analytical</u>                          | E-mail EDD To: <u>shayes@stratusinc.net</u>               |
| Tele/Fax: <u>925-275-3506</u>                     | Cost Element: <u>01-Contractor labor</u>                      | Invoice to: <u>Atlantic Richfield Co.</u>                 |

| Item No. | Sample Description | Time | Date  | Matrix     |              |     | Laboratory No. | No. of Containers | Preservative |                                |                  |     |          | Requested Analysis |       |          |      |          | Sample Point Lat/Long and Comments |          |  |                   |
|----------|--------------------|------|-------|------------|--------------|-----|----------------|-------------------|--------------|--------------------------------|------------------|-----|----------|--------------------|-------|----------|------|----------|------------------------------------|----------|--|-------------------|
|          |                    |      |       | Soil/Solid | Water/Liquid | Air |                |                   | Unpreserved  | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | Methanol | GRD*               | BTEL* | E Oxy S* | EPB* | 1,2 DCA* |                                    | Ethanol* |  |                   |
| 1        | MW-1               | 1447 | 08/20 | X          |              |     |                | 0                 |              |                                |                  |     |          |                    |       |          |      |          |                                    |          |  |                   |
| 2        | MW-2               | 1537 |       |            |              |     |                |                   |              |                                |                  |     |          |                    |       |          |      |          |                                    |          |  | *all by 8260      |
| 3        | MW-3               | 1430 |       |            |              |     |                |                   |              |                                |                  |     |          |                    |       |          |      |          |                                    |          |  |                   |
| 4        | MW-4               | 1614 |       |            |              |     |                |                   |              |                                |                  |     |          |                    |       |          |      |          |                                    |          |  |                   |
| 5        | MW-5               | 1651 |       |            |              |     |                |                   |              |                                |                  |     |          |                    |       |          |      |          |                                    |          |  |                   |
| 6        | MW-6               | 1629 |       |            |              |     |                |                   |              |                                |                  |     |          |                    |       |          |      |          |                                    |          |  |                   |
| 7        | MW-7               | 1556 |       |            |              |     |                |                   |              |                                |                  |     |          |                    |       |          |      |          |                                    |          |  |                   |
| 8        | MW-8               | 1521 |       |            |              |     |                |                   |              |                                |                  |     |          |                    |       |          |      |          |                                    |          |  |                   |
| 9        | TB-2111-08202008   | 1700 | 08/20 | X          |              |     |                | 2                 |              |                                |                  |     |          |                    |       |          |      |          |                                    |          |  | HOLD on "on hold" |

|                                 |   |  |  |   |                       |                   |
|---------------------------------|---|--|--|---|-----------------------|-------------------|
| Sampler's Name: <u>C. Grant</u> | Relinquished By / Affiliation: <u>[Signature] / Stratus</u> | Date: <u>08/22</u>                     | Time: <u>1220</u>  | Accepted By / Affiliation: <u>[Signature] / CEC</u> | Date: <u>08-22-08</u> | Time: <u>1220</u> |
| Shipment Date: <u>08/22/08</u>  | Shipment Method: _____                                      | Shipment Tracking No: <u>810230709</u> | Special Instructions: <u>Please cc results to rmillar@broadbentinc.com</u> |   |                       |                   |

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



WORK ORDER #: 08 - 08 - 2138

Cooler 1 of 1

### SAMPLE RECEIPT FORM

CLIENT: STATUS

DATE: 08-23-08

#### TEMPERATURE - SAMPLES RECEIVED BY:

##### CALSCIENCE COURIER:

##### LABORATORY (Other than 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 (For Air & Filter Only).
- °C Temperature blank.

- °C Temperature blank.
- 03.2 °C IR Thermometer.
- Ambient temperature (For Air & Filter Only).

Initial: TD

#### CUSTODY SEAL INTACT:

Sample(s): \_\_\_\_\_ Cooler:  No (Not Intact): \_\_\_\_\_ Not Present: \_\_\_\_\_

Initial: TD

#### SAMPLE CONDITION:

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

Initial: TD

#### COMMENTS:

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## ATTACHMENT

### FIELD PROCEDURES FOR GROUNDWATER SAMPLING

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

#### Equipment Calibration

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

#### Groundwater and Liquid-Phase Petroleum Hydrocarbon Depth Assessment

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

#### Subjective Analysis of Groundwater

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

#### Monitoring Well Sampling

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



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

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

#### **Groundwater Sample Labeling and Preservation**

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

#### **Sample Identification and Chain-of-Custody Procedures**

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

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

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

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

#### Equipment Cleaning

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

## **APPENDIX B**

### **GEOTRACKER UPLOAD CONFIRMATIONS**

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STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

UPLOADING A GEO\_WELL FILE

**SUCCESS**

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

|                                    |   |
|------------------------------------|---|
| <b><u>Submittal Type:</u></b>      | <b>GEO_WELL</b>                         |
| <b><u>Submittal Title:</u></b>     | <b>3Q08 GEO_WELL 2111</b>               |
| <b><u>Facility Global ID:</u></b>  | <b>T0600101764</b>                      |
| <b><u>Facility Name:</u></b>       | <b>ARCO #2111</b>                       |
| <b><u>File Name:</u></b>           | <b>GEO_WELL.zip</b>                     |
| <b><u>Organization Name:</u></b>   | <b>Broadbent &amp; Associates, Inc.</b> |
| <b><u>Username:</u></b>            | <b>BROADBENT-C</b>                      |
| <b><u>IP Address:</u></b>          | <b>67.118.40.90</b>                     |
| <b><u>Submittal Date/Time:</u></b> | <b>10/23/2008 11:27:59 AM</b>           |
| <b><u>Confirmation Number:</u></b> | <b>3877919077</b>                       |

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**GEOTRACKER ESI**

UPLOADING A EDF FILE

**SUCCESS**

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|                                    |   |
|------------------------------------|---|
| <b><u>Submittal Type:</u></b>      | <b>GWM_R</b>                            |
| <b><u>Submittal Title:</u></b>     | <b>3Q08 GW Monitoring</b>               |
| <b><u>Facility Global ID:</u></b>  | <b>T0600101764</b>                      |
| <b><u>Facility Name:</u></b>       | <b>ARCO #2111</b>                       |
| <b><u>File Name:</u></b>           | <b>08082138.zip</b>                     |
| <b><u>Organization Name:</u></b>   | <b>Broadbent &amp; Associates, Inc.</b> |
| <b><u>Username:</u></b>            | <b>BROADBENT-C</b>                      |
| <b><u>IP Address:</u></b>          | <b>67.118.40.90</b>                     |
| <b><u>Submittal Date/Time:</u></b> | <b>10/23/2008 11:36:38 AM</b>           |
| <b><u>Confirmation Number:</u></b> | <b>9766178965</b>                       |

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**GEOTRACKER ESI**

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Processing is complete. No errors were found!  
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|                                    |                              |
|------------------------------------|------------------------------|
| <b><u>Submittal Type:</u></b>      | SWI_R                        |
| <b><u>Submittal Title:</u></b>     | Monthly System Sampling 0708 |
| <b><u>Facility Global ID:</u></b>  | T0600101764                  |
| <b><u>Facility Name:</u></b>       | ARCO #2111                   |
| <b><u>File Name:</u></b>           | 08070164a.zip                |
| <b><u>Organization Name:</u></b>   | Broadbent & Associates, Inc. |
| <b><u>Username:</u></b>            | BROADBENT-C                  |
| <b><u>IP Address:</u></b>          | 67.118.40.90                 |
| <b><u>Submittal Date/Time:</u></b> | 10/23/2008 11:49:46 AM       |
| <b><u>Confirmation Number:</u></b> | <b>7560164511</b>            |

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|                                    |                              |
|------------------------------------|------------------------------|
| <b><u>Submittal Type:</u></b>      | SWI_R                        |
| <b><u>Submittal Title:</u></b>     | Monthly System Sampling 0808 |
| <b><u>Facility Global ID:</u></b>  | T0600101764                  |
| <b><u>Facility Name:</u></b>       | ARCO #2111                   |
| <b><u>File Name:</u></b>           | 08080357.zip                 |
| <b><u>Organization Name:</u></b>   | Broadbent & Associates, Inc. |
| <b><u>Username:</u></b>            | BROADBENT-C                  |
| <b><u>IP Address:</u></b>          | 67.118.40.90                 |
| <b><u>Submittal Date/Time:</u></b> | 10/23/2008 11:42:14 AM       |
| <b><u>Confirmation Number:</u></b> | <b>1727077662</b>            |

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Your file has been successfully submitted!

|                                    |   |
|------------------------------------|---|
| <b><u>Submittal Type:</u></b>      | <b>SWI_R</b>                            |
| <b><u>Submittal Title:</u></b>     | <b>Monthly System Sampling 0908</b>     |
| <b><u>Facility Global ID:</u></b>  | <b>T0600101764</b>                      |
| <b><u>Facility Name:</u></b>       | <b>ARCO #2111</b>                       |
| <b><u>File Name:</u></b>           | <b>08090162.zip</b>                     |
| <b><u>Organization Name:</u></b>   | <b>Broadbent &amp; Associates, Inc.</b> |
| <b><u>Username:</u></b>            | <b>BROADBENT-C</b>                      |
| <b><u>IP Address:</u></b>          | <b>67.118.40.90</b>                     |
| <b><u>Submittal Date/Time:</u></b> | <b>10/23/2008 11:43:38 AM</b>           |
| <b><u>Confirmation Number:</u></b> | <b>9892796397</b>                       |

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## **APPENDIX C**

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



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

August 5, 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 and Greg Wilkins

*Number of Site Visits:* 4 (July 1, 7, 23, and 29, 2008)

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

*Operational Status:* Continuous operation

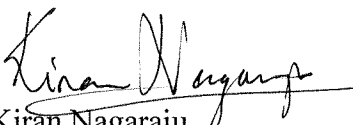
*Scope of Work Performed:* Conduct routine system operation and maintenance, and record field measurements. Influent, mid-fluent, and effluent air and water samples were collected on July 1, 2008. Carbon sample was collected on July 7, 2008.

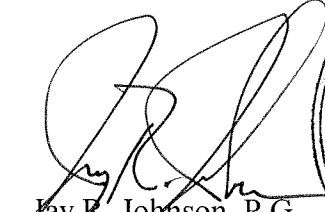
*Variations from Scope of Work:* The remediation systems were found non-functioning on July 1, 2008, due to a high-water level alarm in the air stripper tank. The remediation systems were re-started momentarily on July 1, 2008 and shutdown after sampling, pending receipt of analytical results and compliance verification. GRO (32 parts per million volume [ppmv]) and MTBE (3.4 ppmv) were reported in the mid-fluent air sample collected on July 1, 2008. Hence, a carbon sample (vapor phase) was collected on June 7, 2008, for profiling and disposal purposes. Stratus oversaw EnviroSupply & Service Inc. conduct the carbon change-out on July 23, 2008, and the remediation systems were re-started on the same day.


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: 07-01-08  
 Onsite Time: 0727  
 Offsite Time: 1100  
 Equipment Manufacturer/Model# \_\_\_\_\_

Technician: G. Wilkins  
 Weather Conditions: overcast  
 Ambient Temperature: 50's

| System Information                       |   |
|--|---|
| System Status Upon Arrival:              | Operational <input type="checkbox"/> Non-Operational <input checked="" type="checkbox"/> <i>High H<sub>2</sub>O level</i> |
| System Status Upon Departure:            | Operational <input type="checkbox"/> Non-Operational <input checked="" type="checkbox"/> <i>High PID Readings</i>         |
| Electric Meter Reading:                  | <u>N/A</u>  |
| Hour Meter Reading:                      | <u>02212.0</u>  |
| Totalizer Reading Prior to Air Stripper: | <u>462230</u>   |
| Totalizer Reading After Air Stripper:    | <u>1061760</u>  |
| PID Calibration Date:                    | <u>07-01-08</u>   |

| Field Measurements          |  |                              |                                     |                                 |                    |
|-----------------------------|--|------------------------------|-------------------------------------|---------------------------------|--------------------|
| Parameter                   | Influent<br>(after blower,<br>2111DPEAINF) | Air Stripper<br>(2111ASAEFF) | System<br>Influent<br>(2111ASYSINF) | Stack Air<br>Flow<br>(2111AEFF) | Comments           |
| Differential Pressure, "wc  |  | 24                           |                                     |                                 |                    |
| Air Velocity, FPM           |  | 1474                         |                                     |                                 |                    |
| Pipe Diameter, inches       |  |                              |                                     |                                 |                    |
| Air Flow Rate, cfm          |  |                              | 140                                 |                                 |                    |
| Applied Vacuum, "wc         | 20 Hg                                      | .40                          | NA                                  | NA                              |                    |
| Temperature, deg F          |  | 123.2                        | 107                                 |                                 |                    |
| PID Readings, ppmv          | 351  | <del>21.4</del>              | 183                                 | .20                             | PID for GAC-1: 245 |
| Other Readings/Measurements |  |                              |                                     |                                 |                    |
| Well ID                     | % Open                                     | Applied Vac.,<br>"Hg         | Total depth,<br>feet bgs            | Stinger Depth,<br>feet bgs      |                    |
| V-1                         | 50   | 16                           |                                     |                                 |                    |
| V-2                         | ↓  | 15                           |                                     |                                 |                    |
| V-3                         | ↓  | 15                           |                                     |                                 |                    |
| MW-1                        | Closed                                     |                              |                                     |                                 |                    |
| MW-3                        | 100  | 17                           |                                     |                                 |                    |
| MW-7                        | ↓  | 14                           |                                     |                                 |                    |
| MW-8                        | Closed                                     |                              |                                     |                                 |                    |

Signature: *G. Wilkins*

Date: 07-01-08



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

ORIGINAL

Date: 07-01-08  
 Onsite Time: 0727  
 Offsite Time: 1100

Technician: G. Wilkins  
 Weather Conditions: overcast  
 Ambient Temperature: 50.5

System Status Upon Arrival:  Operational  Non-operational High H<sub>2</sub>O Level  
 System Status At Departure:  Operational  Non-operational High PID readings  
 Transfer Pump:  Operational  Non-operational

Transfer Pump Hour Meter Reading: N/A

Effluent Flow Totalizer Reading: 01028841

No. of Carbon Vessels: 2

Lead Carbon Vessel Pressure (psi): 22

| Effluent Water Characteristics<br>(Quarterly by Field Instrument) |             |
|---|-------------|
| pH:   | <u>7.65</u> |
| Temperature:  | <u>18.2</u> |

| Well ID | Hour Meter Reading | Totalizer Reading | Total Depth | Pump Depth |
|---------|--------------------|-------------------|-------------|------------|
| MW-2    | <u>NA</u>          | <del>282508</del> |             |            |
|         |                    | <u>282508</u>     |             |            |

| TB 1035 Sampling Information |             |              |             |
|------------------------------|-------------|--------------|-------------|
| Sample ID                    | Date & Time | Sample ID    | Date & Time |
| 02111DPEWINF                 | <u>0955</u> | 02111MW2WINF | <u>0940</u> |
| 02111ASWINF                  | <u>0950</u> |              |             |
| 02111ASWEFF                  | <u>0935</u> |              |             |
| 02111WGAC1                   | <u>0945</u> |              |             |
| 02111WEFF                    | <u>0930</u> |              |             |

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

Notes:

Signature: [Signature] Date: 07-01-08

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

ORIGINAL

Date: 07-07-08  
 Onsite Time: 0654  
 Offsite Time: 0812  
 Equipment Manufacturer/Model# \_\_\_\_\_

Technician: C. Wilkins  
 Weather Conditions: Clear  
 Ambient Temperature: 60's

| System Information                       |  |
|--|--|
| System Status Upon Arrival:              | Operational <input type="checkbox"/> Non-Operational <input checked="" type="checkbox"/> |
| System Status Upon Departure:            | Operational <input type="checkbox"/> Non-Operational <input checked="" type="checkbox"/> |
| Electric Meter Reading:                  | <u>N/A</u>   |
| Hour Meter Reading:                      | <u>2214.7</u>  |
| Totalizer Reading Prior to Air Stripper: | <u>463470</u> PID Calibration Date: <u>N/A</u>   |
| Totalizer Reading After Air Stripper:    | <u>1062950</u>   |

| Field Measurements          |  |                              |                                  |                              |                           |  |
|-----------------------------|--|------------------------------|----------------------------------|------------------------------|---------------------------|--|
| Parameter                   | Influent<br>(after blower,<br>2111DPEAINF) | Air Stripper<br>(2111ASAEFF) | System Influent<br>(2111ASYSINF) | Stack Air Flow<br>(2111AEFF) | Comments                  |  |
| Differential Pressure, "wc  |  | <u>N/A</u>                   |                                  |                              |                           |  |
| Air Velocity, FPM           |  | <u>N/A</u>                   |                                  | <u>N/A</u>                   |                           |  |
| Pipe Diameter, inches       |  | <u>4</u>                     | <u>4</u>                         | <u>6</u>                     |                           |  |
| Air Flow Rate, cfm          |  |                              |                                  |                              |                           |  |
| Applied Vacuum, "wc         | <u>N/A</u>                                 | <u>N/A</u>                   | <u>NA</u>                        | <u>NA</u>                    |                           |  |
| Temperature, deg F          |  | <u>N/A</u>                   | <u>N/A</u>                       | <u>N/A</u>                   |                           |  |
| PID Readings, ppmv          | <u>N/A</u>                                 | <u>N/A</u>                   | <u>N/A</u>                       | <u>N/A</u>                   | PID for GAC-1: <u>N/A</u> |  |
| Other Readings/Measurements |  |                              |                                  |                              |                           |  |
| Well ID                     | % Open                                     | Applied Vac.,<br>"Hg         | Total depth,<br>feet bgs         | Stinger Depth,<br>feet bgs   |                           |  |
| V-1                         | <u>50</u>                                  | <u>0</u>                     |                                  |                              |                           |  |
| V-2                         | <u>I</u>                                   |                              |                                  |                              |                           |  |
| V-3                         | <u>I</u>                                   |                              |                                  |                              |                           |  |
| MW-1                        | <u>closed</u>                              |                              |                                  |                              |                           |  |
| MW-3                        | <u>100</u>                                 |                              |                                  |                              |                           |  |
| MW-7                        | <u>I</u>                                   |                              |                                  |                              |                           |  |
| MW-8                        | <u>closed</u>                              |                              |                                  |                              |                           |  |

Signature: *C. Wilkins*      Date: 07-07-08





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

**ORIGINAL**

Date: 07-07-08  
 Onsite Time: 0654  
 Offsite Time: 0812

Technician: B. Williams  
 Weather Conditions: Clear  
 Ambient Temperature: 60's

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

*system shut down  
070108*

Transfer Pump Hour Meter Reading: N/A

Effluent Flow Totalizer Reading: 1029035

No. of Carbon Vessels: 2

Lead Carbon Vessel Pressure (psi): N/A

| Effluent Water Characteristics<br>(Quarterly by Field Instrument) |            |
|---|------------|
| pH:   | <u>N/A</u> |
| Temperature:  | <u>N/A</u> |

| Well ID | Hour Meter Reading | Totalizer Reading | Total Depth | Pump Depth |
|---------|--------------------|-------------------|-------------|------------|
| MW-2    | <u>N/A</u>         | <u>282743</u>     |             |            |
|         |                    |                   |             |            |
|         |                    |                   |             |            |

| Sampling Information |             |              |             |
|----------------------|-------------|--------------|-------------|
| Sample ID            | Date & Time | Sample ID    | Date & Time |
| 02111DPEWINF         | <u>N/A</u>  | 02111MW2WINF | <u>N/A</u>  |
| 02111ASWINF          |             |              |             |
| 02111ASWEFF          |             |              |             |
| 02111WGAC1           |             |              |             |
| 02111WEFF            |             |              |             |

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

Notes:

Signature: *B. Williams* Date: 07-07-08

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

ORIGINAL

Date: 07-23-08  
 Onsite Time: 0730  
 Offsite Time: 1200  
 Equipment Manufacturer/Model# \_\_\_\_\_

Technician: Gr. Williams  
 Weather Conditions: Clear  
 Ambient Temperature: 70'S

| System Information                       |                |                                     |   |
|--|----------------|-------------------------------------|---|
| System Status Upon Arrival:              | Operational    | <input type="checkbox"/>            | Non-Operational <input checked="" type="checkbox"/> |
| System Status Upon Departure:            | Operational    | <input checked="" type="checkbox"/> | Non-Operational <input type="checkbox"/>            |
| Electric Meter Reading:                  | <u>N/A</u>     |                                     |   |
| Hour Meter Reading:                      | <u>2214.7</u>  |                                     |   |
| Totalizer Reading Prior to Air Stripper: | <u>463470</u>  | PID Calibration Date:               | <u>7-21-08</u>                                      |
| Totalizer Reading After Air Stripper:    | <u>1062950</u> |                                     |   |

| Field Measurements          |  |                              |                                     |                                 |                             |
|-----------------------------|--|------------------------------|-------------------------------------|---------------------------------|-----------------------------|
| Parameter                   | Influent<br>(after blower,<br>2111DPEAINF) | Air Stripper<br>(2111ASAEFF) | System<br>Influent<br>(2111ASYSINF) | Stack Air<br>Flow<br>(2111AEFF) | Comments                    |
| Differential Pressure, "wc  |  | 21                           |                                     |                                 |                             |
| Air Velocity, FPM           |  | 1308                         |                                     |                                 |                             |
| Pipe Diameter, inches       |  |                              |                                     |                                 |                             |
| Air Flow Rate, cfm          |  |                              | 120                                 |                                 |                             |
| Applied Vacuum, "wc         | 21   | .42                          | NA                                  | NA                              |                             |
| Temperature, deg F          |  | 129.9                        | 116                                 |                                 |                             |
| PID Readings, ppmv          | 239  | 1.0                          | 95                                  | <del>30</del>                   | PID for GAC-1: <del>0</del> |
| Other Readings/Measurements |  |                              |                                     |                                 |                             |
| Well ID                     | % Open                                     | Applied Vac.,<br>"Hg         | Total depth,<br>feet bgs            | Stinger Depth,<br>feet bgs      |                             |
| V-1                         | 50   | 19                           |                                     |                                 |                             |
| V-2                         | I  | 19                           |                                     |                                 |                             |
| V-3                         | I  | 18                           |                                     |                                 |                             |
| MW-1                        | Closed                                     |                              |                                     |                                 |                             |
| MW-3                        | 100  | 19                           |                                     |                                 |                             |
| MW-7                        | I  | 19                           |                                     |                                 |                             |
| MW-8                        | Closed                                     |                              |                                     |                                 |                             |

Signature: \_\_\_\_\_

Date: 07-23-08



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

ORIGINAL

Date: 07-23-08  
 Onsite Time: 0730  
 Offsite Time: \_\_\_\_\_

Technician: C. Williams  
 Weather Conditions: Clear  
 Ambient Temperature: 70'S

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: 1029035

No. of Carbon Vessels: 2

Lead Carbon Vessel Pressure (psi): 21

**Effluent Water Characteristics**  
 (Quarterly by Field Instrument)  
 pH: N/A  
 Temperature: N/A

| Well ID | Hour Meter Reading | Totalizer Reading | Total Depth | Pump Depth |
|---------|--------------------|-------------------|-------------|------------|
| MW-2    | <u>N/A</u>         | <u>282743</u>     |             |            |
|         |                    |                   |             |            |
|         |                    |                   |             |            |

| Sampling Information |             |              |             |
|----------------------|-------------|--------------|-------------|
| Sample ID            | Date & Time | Sample ID    | Date & Time |
| 02111DPEWINF         | <u>N/A</u>  | 02111MW2WINF | <u>N/A</u>  |
| 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: 07-23-08

Dual Phase Extraction and Air Stripper System



Date: 72908  
 Onsite Time: 0430  
 Offsite Time: 0532  
 Equipment Manufacturer/Model# \_\_\_\_\_

Technician: CHILL  
 Weather Conditions: Cloudy  
 Ambient Temperature: 50

| System Information                       |   |
|--|---|
| System Status Upon Arrival:              | Operational <input type="checkbox"/> Non-Operational <input checked="" type="checkbox"/> <i>High 1125</i> |
| System Status Upon Departure:            | Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>                  |
| Electric Meter Reading:                  | <u>NM</u>   |
| Hour Meter Reading:                      | <u>2216</u>   |
| Totalizer Reading Prior to Air Stripper: | <u>464447</u> PID Calibration Date: <u>7-28-08</u>  |
| Totalizer Reading After Air Stripper:    | <u>1063900</u>  |

| Field Measurements          |  |                              |                                     |                                 |                  |  |
|-----------------------------|--|------------------------------|-------------------------------------|---------------------------------|------------------|--|
| Parameter                   | Influent<br>(after blower,<br>2111DPEAINF) | Air Stripper<br>(2111ASAEFF) | System<br>Influent<br>(2111ASYSINF) | Stack Air<br>Flow<br>(2111AEFF) | Comments         |  |
| Differential Pressure, "wc  |  | 20                           |                                     |                                 |                  |  |
| Air Velocity, FPM           |  | 2688                         |                                     |                                 |                  |  |
| Pipe Diameter, inches       |  |                              |                                     |                                 |                  |  |
| Air Flow Rate, cfm          |  |                              | 180                                 |                                 |                  |  |
| Applied Vacuum, "wc         | 22" Hg                                     | .34                          | NA                                  | NA                              |                  |  |
| Temperature, deg F          |  | 121                          | 90                                  |                                 |                  |  |
| PID Readings, ppmv          | 231  | 1                            | 94                                  | 0                               | PID for GAC-1: 0 |  |
| Other Readings/Measurements |  |                              |                                     |                                 |                  |  |
| Well ID                     | % Open                                     | Applied Vac.,<br>"Hg         | Total depth,<br>feet bgs            | Stinger Depth,<br>feet bgs      |                  |  |
| V-1                         | 50   | 17                           |                                     |                                 |                  |  |
| V-2                         | 50   | 17                           |                                     |                                 |                  |  |
| V-3                         | 50   | 17                           |                                     |                                 |                  |  |
| MW-1                        | 0  |                              |                                     |                                 |                  |  |
| MW-3                        | 100  | 20                           |                                     |                                 |                  |  |
| MW-7                        | 100  | 17                           |                                     |                                 |                  |  |
| MW-5                        | 0  |                              |                                     |                                 |                  |  |

Signature: Chill

Date: 72908



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

 ORIGINAL

Date: 72908  
 Onsite Time: 0430  
 Offsite Time: 0532

Technician: CHILL  
 Weather Conditions: Cloudy  
 Ambient Temperature: 150

System Status Upon Arrival:  Operational  Non-operational *High H<sub>2</sub>O oil/water*  
 System Status At Departure:  Operational  Non-operational  
 Transfer Pump:  Operational  Non-operational

Transfer Pump Hour Meter Reading: \_\_\_\_\_  
 Effluent Flow Totalizer Reading: 1029743  
 No. of Carbon Vessels: 2  
 Lead Carbon Vessel Pressure (psi): 28

|  |       |
|--|-------|
| <b>Effluent Water Characteristics</b><br>(Quarterly by Field Instrument) |       |
| pH:  | _____ |
| Temperature:   | _____ |

| Well ID | Hour Meter Reading | Totalizer Reading | Total Depth | Pump Depth |
|---------|--------------------|-------------------|-------------|------------|
| MW-2    |                    | <u>282996</u>     |             |            |
|         |                    |                   |             |            |
|         |                    |                   |             |            |

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

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

Notes:  
 \_\_\_\_\_  
 \_\_\_\_\_

Signature:  Date: 72908



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### 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: Alameda County Environmental Health  
 Requested Due Date (mm/dd/yy): 24 hours for Effluent & STD for others

ORIGINAL

**RUSH**

|                             |            |
|-----------------------------|------------|
| On-site Time: 0727          | Temp: 50's |
| Off-site Time:              | Temp:      |
| Sky Conditions: overcast    |            |
| Meteorological Events: MIST |            |
| Wind Speed:                 | Direction: |

|  |   |  |
|--|---|--|
| Lab Name: Calscience Environmental Laboratories, Inc.<br>Address: 7440 Lincoln Way<br>Garden Grove, CA 92841<br>Lab PM: Linda Scharpenberg<br>Tele/Fax: 714-895-5494/ 714-895-7501 | BP/AR Facility No.: 2111<br>BP/AR Facility Address: 1156 Davis St., San Leandro<br>Site Lat/Long:<br>California Global ID No.: T0600101764<br>Enfos Project No.: G0C28-0029 | Consultant/Contractor: Stratus Environmental, Inc.<br>Address: 3330 Cameron Park Drive, Suite 550<br>Cameron Park, CA 95682<br>Consultant/Contractor Project No.: E2111-03<br>Consultant/Contractor PM: Jay Johnson<br>Tele/Fax: (530) 676-6000 / (530) 676-6005<br>Report Type & QC Level: Level 1 with EDF<br>E-mail EDD To: shayes@stratusinc.net<br>Invoice to: Atlantic Richfield Co. |
| BP/AR PM Contact: Paul Supple<br>Address: 2010 Crow Canyon Place, Suite 150<br>San Ramon, CA<br>Tele/Fax: 925-275-3506/925-275-3815  | Provision or OOC (circle one) Provision<br>Phase/WBS: 03-O&M<br>Sub Phase/Task: 03-Analytical<br>Cost Element: Subcontractor Cost   |  |

| Item No. | Sample Description | Time | Date  | Matrix     |              |     | Laboratory No. | No. of Containers | Preservative |                                |                  |     |          | Requested Analysis |      |      |              | Turnaround Time |          | Sample Point Lat/Long and Comments |   |  |
|----------|--------------------|------|-------|------------|--------------|-----|----------------|-------------------|--------------|--------------------------------|------------------|-----|----------|--------------------|------|------|--------------|-----------------|----------|------------------------------------|---|--|
|          |                    |      |       | Soil/Solid | Water/Liquid | Air |                |                   | Unpreserved  | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | Methanol | GRO                | BTEX | MTBE | 5-oxygenates | 24-hours        | Standard |                                    |   |  |
| 1        | 02111DPEAINF       | 0919 | 07/01 |            | x            |     |                | 2                 | x            |                                |                  |     |          | x                  | x    | x    |              |                 |          |                                    | 5-oxygenates requested are MTBE, DIPE, ETBE, TAME, and TBA. |  |
| 2        | 02111ASAEFF        | 0925 |       |            | x            |     |                | 2                 | x            |                                |                  |     |          | x                  | x    | x    |              |                 |          |                                    |   |  |
| 3        | 02111ASYSINF       | 0917 |       |            | x            |     |                | 2                 | x            |                                |                  |     |          | x                  | x    | x    |              |                 |          |                                    |   |  |
| 4        | 02111AGACI         | 0921 |       |            | x            |     |                | 2                 | x            |                                |                  |     |          | x                  | x    | x    |              |                 |          |                                    |   |  |
| 5        | 02111AEFF          | 0923 |       |            | x            |     |                | 2                 | x            |                                |                  |     |          | x                  | x    | x    |              |                 |          |                                    |   |  |
| 6        | 02111DPEWINF       | 0955 |       |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            |                 |          |                                    |   |  |
| 7        | 02111ASWINF        | 0950 |       |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            |                 |          |                                    |   |  |
| 8        | 02111ASWEFF        | 0935 |       |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            |                 |          |                                    |   |  |
| 9        | 02111WGACI         | 0945 |       |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            |                 |          |                                    |   |  |
| 10       | 02111WEFF          | 0930 |       |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            |                 |          |                                    |   |  |
| 11       | 02111MW2WINF       | 0940 |       |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            |                 |          |                                    |   |  |
|          | TBZ11107012008     | 1035 | 07/01 |            | x            |     |                | 2                 |              |                                |                  |     |          | x                  | x    |      | x            |                 |          |                                    | ON HOLD   |  |

|  |   |              |            |                            |       |       |
|--|---|--------------|------------|----------------------------|-------|-------|
| Sampler's Name: O. Wilkins                     | Relinquished By / Affiliation: <i>[Signature]</i> | Date: 7/1/08 | Time: 1500 | Accepted By / Affiliation: | Date: | Time: |
| Sampler's Company: Stratus Environmental, Inc. |   |              |            |                            |       |       |
| Shipment Date: 07-01-08                        |   |              |            |                            |       |       |
| 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 |
|----------------------------------|----------------------|------------------------------|----------------------|-----------------------------------|





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# Chain of Custody Record

ORIGINAL

**RUSH**

Page \_\_\_ of \_\_\_

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: 50.5  
 Off-site Time: 0815 Temp: 60.5  
 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 I with EDF  
 E-mail EDD To: shayes@stratusinc.net  
 Invoice to: Atlantic Richfield Co.

Lab Bottle Order No:

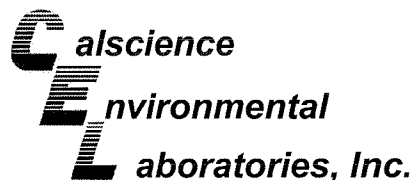
| Item No. | Sample Description | Time | Date   | Matrix     |              |     | Laboratory No. | No. of Containers | Preservative |                                |                  |     |          | Requested Analysis |          |          | Turnaround Time |  | Sample Point Lat/Long and Comments   |
|----------|--------------------|------|--------|------------|--------------|-----|----------------|-------------------|--------------|--------------------------------|------------------|-----|----------|--------------------|----------|----------|-----------------|--|--|
|          |                    |      |        | Soil/Solid | Water/Liquid | Air |                |                   | Unpreserved  | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | Methanol | ICLIP by 8260      | 24-hours | Standard |                 |  |  |
| 1        | 02111 A-CARBON     | 0720 | 7/7/08 | x          |              |     |                | 1                 | x            |                                |                  |     |          | x                  |          |          |                 |  | TCLP includes analysis for vinyl chloride, 1,2-dichloroethene, chloroform, 1,2-dichloroethane, methyl ethyl ketone butanone, carbon tetrachloride, trichloroethene, benzene, tetrachloroethene, and chlorobenzene. |
| 2        |                    |      |        |            |              |     |                |                   |              |                                |                  |     |          |                    |          |          |                 |  |  |
| 3        |                    |      |        |            |              |     |                |                   |              |                                |                  |     |          |                    |          |          |                 |  |  |
| 4        |                    |      |        |            |              |     |                |                   |              |                                |                  |     |          |                    |          |          |                 |  |  |
| 5        |                    |      |        |            |              |     |                |                   |              |                                |                  |     |          |                    |          |          |                 |  |  |
| 6        |                    |      |        |            |              |     |                |                   |              |                                |                  |     |          |                    |          |          |                 |  |  |
| 7        |                    |      |        |            |              |     |                |                   |              |                                |                  |     |          |                    |          |          |                 |  |  |
| 8        |                    |      |        |            |              |     |                |                   |              |                                |                  |     |          |                    |          |          |                 |  |  |
| 9        |                    |      |        |            |              |     |                |                   |              |                                |                  |     |          |                    |          |          |                 |  |  |
| 10       |                    |      |        |            |              |     |                |                   |              |                                |                  |     |          |                    |          |          |                 |  |  |
| 11       |                    |      |        |            |              |     |                |                   |              |                                |                  |     |          |                    |          |          |                 |  |  |

Sampler's Name: Greg Wilkins  
 Sampler's Company: Stratus Environmental, Inc.  
 Shipment Date: 07-07-08  
 Shipment Method: GSD  
 Shipment Tracking No: \_\_\_\_\_

Relinquished By / Affiliation: [Signature]  
 Date: 070708 Time: 1500  
 Accepted By / Affiliation: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

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



July 15, 2008

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

Subject: **Calscience Work Order No.: 08-07-0164**  
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 7/2/2008 and analyzed in accordance with the attached chain-of-custody.

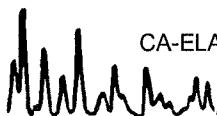
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows 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.

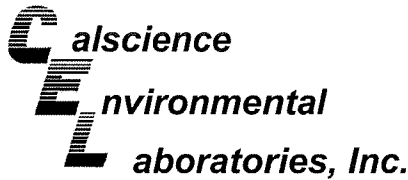
If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Linda Scharpenberg".

Calscience Environmental  
Laboratories, Inc.  
Linda Scharpenberg  
Project Manager





Analytical Report



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

Date Received: 07/02/08  
Work Order No: 08-07-0164  
Preparation: N/A  
Method: EPA TO-15  
Units: ppm (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 |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111DPEAINF         | 08-07-0164-1-A    | 07/01/08 09:19      | Air    | GC/MS DD   | N/A           | 07/02/08 19:41     | 080702L01   |

| Parameter              | Result  | RL             | DF  | Qual | Parameter                   | Result  | RL             | DF  | Qual |
|------------------------|---------|----------------|-----|------|-----------------------------|---------|----------------|-----|------|
| Benzene                | 1.1     | 0.075          | 150 |      | Xylenes (total)             | 18      | 0.15           | 150 |      |
| Toluene                | 8.5     | 0.30           | 600 |      | Methyl-t-Butyl Ether (MTBE) | 4.8     | 0.30           | 150 |      |
| Ethylbenzene           | 2.9     | 0.075          | 150 |      |                             |         |                |     |      |
| Surrogates:            | REC (%) | Control Limits |     | Qual | Surrogates:                 | REC (%) | Control Limits |     | Qual |
| 1,4-Bromofluorobenzene | 94      | 57-129         |     |      | 1,2-Dichloroethane-d4       | 93      | 47-137         |     |      |
| Toluene-d8             | 98      | 78-156         |     |      |                             |         |                |     |      |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111ASAEFF          | 08-07-0164-2-A    | 07/01/08 09:25      | Air    | GC/MS DD   | N/A           | 07/02/08 20:37     | 080702L01   |

| Parameter              | Result  | RL             | DF | Qual | Parameter                   | Result  | RL             | DF | Qual |
|------------------------|---------|----------------|----|------|-----------------------------|---------|----------------|----|------|
| Benzene                | 0.0016  | 0.00050        | 1  |      | Xylenes (total)             | 0.019   | 0.0010         | 1  |      |
| Toluene                | 0.012   | 0.00050        | 1  |      | Methyl-t-Butyl Ether (MTBE) | 0.24    | 0.040          | 20 |      |
| Ethylbenzene           | 0.0019  | 0.00050        | 1  |      |                             |         |                |    |      |
| Surrogates:            | REC (%) | Control Limits |    | Qual | Surrogates:                 | REC (%) | Control Limits |    | Qual |
| 1,4-Bromofluorobenzene | 97      | 57-129         |    |      | 1,2-Dichloroethane-d4       | 92      | 47-137         |    |      |
| Toluene-d8             | 101     | 78-156         |    |      |                             |         |                |    |      |

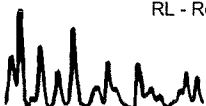
| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111ASYSINF         | 08-07-0164-3-A    | 07/01/08 09:17      | Air    | GC/MS DD   | N/A           | 07/02/08 21:31     | 080702L01   |

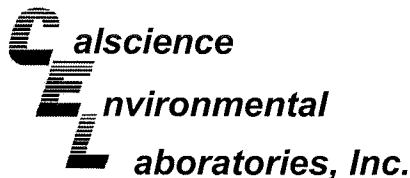
| Parameter              | Result  | RL             | DF  | Qual | Parameter                   | Result  | RL             | DF | Qual |
|------------------------|---------|----------------|-----|------|-----------------------------|---------|----------------|----|------|
| Benzene                | 0.47    | 0.038          | 75  |      | Xylenes (total)             | 8.3     | 0.075          | 75 |      |
| Toluene                | 5.3     | 0.15           | 300 |      | Methyl-t-Butyl Ether (MTBE) | 2.6     | 0.15           | 75 |      |
| Ethylbenzene           | 1.3     | 0.038          | 75  |      |                             |         |                |    |      |
| Surrogates:            | REC (%) | Control Limits |     | Qual | Surrogates:                 | REC (%) | Control Limits |    | Qual |
| 1,4-Bromofluorobenzene | 96      | 57-129         |     |      | 1,2-Dichloroethane-d4       | 92      | 47-137         |    |      |
| Toluene-d8             | 98      | 78-156         |     |      |                             |         |                |    |      |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111AGAC1           | 08-07-0164-4-A    | 07/01/08 09:21      | Air    | GC/MS DD   | N/A           | 07/02/08 22:28     | 080702L01   |

| Parameter              | Result  | RL             | DF | Qual | Parameter                   | Result  | RL             | DF  | Qual |
|------------------------|---------|----------------|----|------|-----------------------------|---------|----------------|-----|------|
| Benzene                | ND      | 0.0050         | 10 |      | Xylenes (total)             | ND      | 0.010          | 10  |      |
| Toluene                | ND      | 0.0050         | 10 |      | Methyl-t-Butyl Ether (MTBE) | 3.4     | 0.40           | 200 |      |
| Ethylbenzene           | ND      | 0.0050         | 10 |      |                             |         |                |     |      |
| Surrogates:            | REC (%) | Control Limits |    | Qual | Surrogates:                 | REC (%) | Control Limits |     | Qual |
| 1,4-Bromofluorobenzene | 97      | 57-129         |    |      | 1,2-Dichloroethane-d4       | 88      | 47-137         |     |      |
| Toluene-d8             | 99      | 78-156         |    |      |                             |         |                |     |      |

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





Analytical Report



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

Date Received: 07/02/08  
Work Order No: 08-07-0164  
Preparation: N/A  
Method: EPA TO-15  
Units: ppm (v/v)

Project: ARCO Facility No. 2111

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111AEFF            | 08-07-0164-5-A    | 07/01/08 09:23      | Air    | GC/MS DD   | N/A           | 07/02/08 17:54     | 080702L01   |

| Parameter              | Result  | RL             | DF | Qual | Parameter                   | Result  | RL             | DF | Qual |
|------------------------|---------|----------------|----|------|-----------------------------|---------|----------------|----|------|
| Benzene                | ND      | 0.00050        | 1  |      | Xylenes (total)             | ND      | 0.0010         | 1  |      |
| Toluene                | 0.0012  | 0.00050        | 1  |      | Methyl-t-Butyl Ether (MTBE) | 0.11    | 0.040          | 20 |      |
| Ethylbenzene           | ND      | 0.00050        | 1  |      |                             |         |                |    |      |
| Surrogates:            | REC (%) | Control Limits |    | Qual | Surrogates:                 | REC (%) | Control Limits |    | Qual |
| 1,4-Bromofluorobenzene | 94      | 57-129         |    |      | 1,2-Dichloroethane-d4       | 92      | 47-137         |    |      |
| Toluene-d8             | 98      | 78-156         |    |      |                             |         |                |    |      |

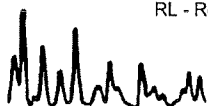
| Method Blank | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|--------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
|              | 097-09-002-7,336  | N/A                 | Air    | GC/MS DD   | N/A           | 07/02/08 16:38     | 080702L01   |

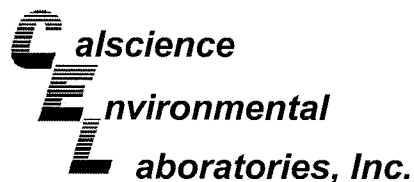
| Parameter              | Result  | RL             | DF | Qual | Parameter                   | Result  | RL             | DF | Qual |
|------------------------|---------|----------------|----|------|-----------------------------|---------|----------------|----|------|
| Benzene                | ND      | 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 | 92      | 57-129         |    |      | 1,2-Dichloroethane-d4       | 92      | 47-137         |    |      |
| Toluene-d8             | 97      | 78-156         |    |      |                             |         |                |    |      |

| Method Blank | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|--------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
|              | 097-09-002-7,343  | N/A                 | Air    | GC/MS DD   | N/A           | 07/03/08 14:09     | 080703L01   |

| 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 | 96      | 57-129         |    |      | 1,2-Dichloroethane-d4       | 92      | 47-137         |    |      |
| Toluene-d8             | 98      | 78-156         |    |      |                             |         |                |    |      |

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





## Analytical Report



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

Date Received: 07/02/08  
Work Order No: 08-07-0164  
Preparation: N/A  
Method: EPA TO-3M

Project: ARCO Facility No. 2111

Page 1 of 1

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111DPEAINF         | 08-07-0164-1-A    | 07/01/08<br>09:19   | Air    | GC 19      | N/A           | 07/02/08<br>14:59  | 080702L01   |

| Parameter                        | Result | RL | DF | Qual | Units     |
|----------------------------------|--------|----|----|------|-----------|
| Gasoline Range Organics (C6-C12) | 740    | 65 | 5  |      | ppm (v/v) |

|             |                |                   |     |       |     |                   |           |
|-------------|----------------|-------------------|-----|-------|-----|-------------------|-----------|
| 02111ASAEFF | 08-07-0164-2-A | 07/01/08<br>09:25 | Air | GC 19 | N/A | 07/02/08<br>11:52 | 080702L01 |
|-------------|----------------|-------------------|-----|-------|-----|-------------------|-----------|

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

|              |                |                   |     |       |     |                   |           |
|--------------|----------------|-------------------|-----|-------|-----|-------------------|-----------|
| 02111ASYSINF | 08-07-0164-3-A | 07/01/08<br>09:17 | Air | GC 19 | N/A | 07/02/08<br>13:43 | 080702L01 |
|--------------|----------------|-------------------|-----|-------|-----|-------------------|-----------|

| Parameter                        | Result | RL | DF | Qual | Units     |
|----------------------------------|--------|----|----|------|-----------|
| Gasoline Range Organics (C6-C12) | 320    | 13 | 1  |      | ppm (v/v) |

|            |                |                   |     |       |     |                   |           |
|------------|----------------|-------------------|-----|-------|-----|-------------------|-----------|
| 02111AGAC1 | 08-07-0164-4-A | 07/01/08<br>09:21 | Air | GC 19 | N/A | 07/02/08<br>14:20 | 080702L01 |
|------------|----------------|-------------------|-----|-------|-----|-------------------|-----------|

| Parameter                        | Result | RL | DF | Qual | Units     |
|----------------------------------|--------|----|----|------|-----------|
| Gasoline Range Organics (C6-C12) | 32     | 13 | 1  |      | ppm (v/v) |

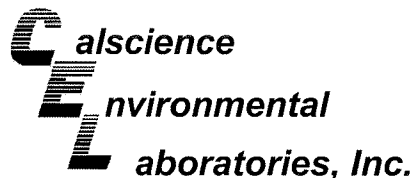
|           |                |                   |     |       |     |                   |           |
|-----------|----------------|-------------------|-----|-------|-----|-------------------|-----------|
| 02111AEFF | 08-07-0164-5-A | 07/01/08<br>09:23 | Air | GC 19 | N/A | 07/02/08<br>12:28 | 080702L01 |
|-----------|----------------|-------------------|-----|-------|-----|-------------------|-----------|

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

|              |               |     |     |       |     |                   |           |
|--------------|---------------|-----|-----|-------|-----|-------------------|-----------|
| Method Blank | 099-12-693-59 | N/A | Air | GC 19 | N/A | 07/02/08<br>08:12 | 080702L01 |
|--------------|---------------|-----|-----|-------|-----|-------------------|-----------|

| 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



## Analytical Report



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

Date Received: 07/02/08  
Work Order No: 08-07-0164  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: ARCO Facility No. 2111

Page 1 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111DPEWINF         | 08-07-0164-6-A    | 07/01/08<br>09:55   | Aqueous | GC/MS BB   | 07/09/08      | 07/10/08<br>05:32  | 080709L02   |

| Parameter                   | Result  | RL             | DF | Qual | Parameter                     | Result  | RL             | DF | Qual |
|-----------------------------|---------|----------------|----|------|-------------------------------|---------|----------------|----|------|
| Benzene                     | ND      | 10             | 20 |      | Tert-Butyl Alcohol (TBA)      | 560     | 200            | 20 |      |
| Ethylbenzene                | 29      | 10             | 20 |      | Diisopropyl Ether (DIPE)      | ND      | 10             | 20 |      |
| Toluene                     | 150     | 10             | 20 |      | Ethyl-t-Butyl Ether (ETBE)    | ND      | 10             | 20 |      |
| Xylenes (total)             | 330     | 10             | 20 |      | Tert-Amyl-Methyl Ether (TAME) | ND      | 10             | 20 |      |
| Methyl-t-Butyl Ether (MTBE) | 390     | 10             | 20 |      |                               |         |                |    |      |
| Surrogates:                 | REC (%) | Control Limits |    | Qual | Surrogates:                   | REC (%) | Control Limits |    | Qual |
| 1,2-Dichloroethane-d4       | 115     | 73-157         |    |      | Dibromofluoromethane          | 111     | 82-142         |    |      |
| Toluene-d8                  | 100     | 82-112         |    |      | 1,4-Bromofluorobenzene        | 99      | 75-105         |    |      |

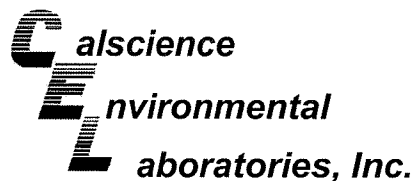
| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111ASWINF          | 08-07-0164-7-A    | 07/01/08<br>09:50   | Aqueous | GC/MS BB   | 07/09/08      | 07/10/08<br>06:04  | 080709L02   |

| Parameter                   | Result  | RL             | DF | Qual | Parameter                     | Result  | RL             | DF | Qual |
|-----------------------------|---------|----------------|----|------|-------------------------------|---------|----------------|----|------|
| Benzene                     | 9.2     | 5.0            | 10 |      | Tert-Butyl Alcohol (TBA)      | 410     | 100            | 10 |      |
| Ethylbenzene                | 14      | 5.0            | 10 |      | Diisopropyl Ether (DIPE)      | ND      | 5.0            | 10 |      |
| Toluene                     | 85      | 5.0            | 10 |      | Ethyl-t-Butyl Ether (ETBE)    | ND      | 5.0            | 10 |      |
| Xylenes (total)             | 210     | 5.0            | 10 |      | Tert-Amyl-Methyl Ether (TAME) | ND      | 5.0            | 10 |      |
| Methyl-t-Butyl Ether (MTBE) | 400     | 5.0            | 10 |      |                               |         |                |    |      |
| Surrogates:                 | REC (%) | Control Limits |    | Qual | Surrogates:                   | REC (%) | Control Limits |    | Qual |
| 1,2-Dichloroethane-d4       | 126     | 73-157         |    |      | Dibromofluoromethane          | 116     | 82-142         |    |      |
| Toluene-d8                  | 100     | 82-112         |    |      | 1,4-Bromofluorobenzene        | 101     | 75-105         |    |      |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111ASWEFF          | 08-07-0164-8-A    | 07/01/08<br>09:35   | Aqueous | GC/MS BB   | 07/09/08      | 07/10/08<br>06:36  | 080709L02   |

| Parameter                   | Result  | RL             | DF | Qual | Parameter                     | Result  | RL             | DF | Qual |
|-----------------------------|---------|----------------|----|------|-------------------------------|---------|----------------|----|------|
| Benzene                     | ND      | 1.0            | 2  |      | Tert-Butyl Alcohol (TBA)      | 400     | 20             | 2  |      |
| Ethylbenzene                | ND      | 1.0            | 2  |      | Diisopropyl Ether (DIPE)      | ND      | 1.0            | 2  |      |
| Toluene                     | ND      | 1.0            | 2  |      | Ethyl-t-Butyl Ether (ETBE)    | ND      | 1.0            | 2  |      |
| Xylenes (total)             | ND      | 1.0            | 2  |      | Tert-Amyl-Methyl Ether (TAME) | ND      | 1.0            | 2  |      |
| Methyl-t-Butyl Ether (MTBE) | 23      | 1.0            | 2  |      |                               |         |                |    |      |
| Surrogates:                 | REC (%) | Control Limits |    | Qual | Surrogates:                   | REC (%) | Control Limits |    | Qual |
| 1,2-Dichloroethane-d4       | 120     | 73-157         |    |      | Dibromofluoromethane          | 113     | 82-142         |    |      |
| Toluene-d8                  | 94      | 82-112         |    |      | 1,4-Bromofluorobenzene        | 97      | 75-105         |    |      |

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



## Analytical Report



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

Date Received: 07/02/08  
Work Order No: 08-07-0164  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: ARCO Facility No. 2111

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111WGAC1           | 08-07-0164-9-A    | 07/01/08<br>09:45   | Aqueous | GC/MS BB   | 07/09/08      | 07/10/08<br>07:08  | 080709L02   |

| 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       | 114     | 73-157         |    |      | Dibromofluoromethane          | 108     | 82-142         |    |      |
| Toluene-d8                  | 100     | 82-112         |    |      | 1,4-Bromofluorobenzene        | 96      | 75-105         |    |      |

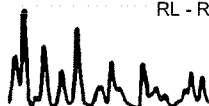
| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111WEFF            | 08-07-0164-10-B   | 07/01/08<br>09:30   | Aqueous | GC/MS BB   | 07/02/08      | 07/02/08<br>14:18  | 080702L01   |

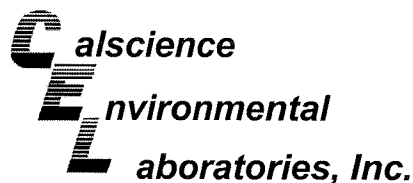
| Parameter                   | Result  | RL             | DF | Qual | Parameter                     | Result  | RL             | DF | Qual |
|-----------------------------|---------|----------------|----|------|-------------------------------|---------|----------------|----|------|
| Benzene                     | 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       | 97      | 73-157         |    |      | Dibromofluoromethane          | 97      | 82-142         |    |      |
| Toluene-d8                  | 100     | 82-112         |    |      | 1,4-Bromofluorobenzene        | 98      | 75-105         |    |      |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111MW2WINF         | 08-07-0164-11-A   | 07/01/08<br>09:40   | Aqueous | GC/MS BB   | 07/09/08      | 07/10/08<br>07:40  | 080709L02   |

| Parameter                   | Result  | RL             | DF | Qual | Parameter                     | Result  | RL             | DF | Qual |
|-----------------------------|---------|----------------|----|------|-------------------------------|---------|----------------|----|------|
| Benzene                     | 17      | 10             | 20 |      | Tert-Butyl Alcohol (TBA)      | 550     | 200            | 20 |      |
| Ethylbenzene                | 10      | 10             | 20 |      | Diisopropyl Ether (DIPE)      | ND      | 10             | 20 |      |
| Toluene                     | ND      | 10             | 20 |      | Ethyl-t-Butyl Ether (ETBE)    | ND      | 10             | 20 |      |
| Xylenes (total)             | ND      | 10             | 20 |      | Tert-Amyl-Methyl Ether (TAME) | ND      | 10             | 20 |      |
| Methyl-t-Butyl Ether (MTBE) | 300     | 10             | 20 |      |                               |         |                |    |      |
| Surrogates:                 | REC (%) | Control Limits |    | Qual | Surrogates:                   | REC (%) | Control Limits |    | Qual |
| 1,2-Dichloroethane-d4       | 120     | 73-157         |    |      | Dibromofluoromethane          | 113     | 82-142         |    |      |
| Toluene-d8                  | 100     | 82-112         |    |      | 1,4-Bromofluorobenzene        | 94      | 75-105         |    |      |

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





## Analytical Report



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

Date Received: 07/02/08  
Work Order No: 08-07-0164  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: ARCO Facility No. 2111

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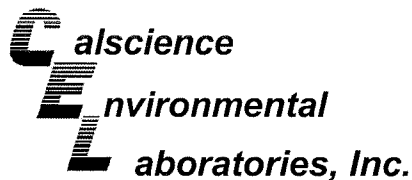
| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank         | 099-12-703-304    | N/A                 | Aqueous | GC/MS BB   | 07/02/08      | 07/02/08<br>13:46  | 080702L01   |

| 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          | 96      | 82-142         |    |      |
| Toluene-d8                  | 99      | 82-112         |    |      | 1,4-Bromofluorobenzene        | 95      | 75-105         |    |      |

| Parameter                   | Result  | RL             | DF | Qual | Parameter                     | Result  | RL             | DF | Qual |
|-----------------------------|---------|----------------|----|------|-------------------------------|---------|----------------|----|------|
| Method Blank                |         |                |    |      | Method Blank                  |         |                |    |      |
| 099-12-703-313              |         |                |    |      | 099-12-703-313                |         |                |    |      |
| N/A                         |         |                |    |      | N/A                           |         |                |    |      |
| Aqueous                     |         |                |    |      | Aqueous                       |         |                |    |      |
| GC/MS BB                    |         |                |    |      | GC/MS BB                      |         |                |    |      |
| 07/09/08                    |         |                |    |      | 07/09/08                      |         |                |    |      |
| 07/10/08                    |         |                |    |      | 07/10/08                      |         |                |    |      |
| 02:53                       |         |                |    |      | 02:53                         |         |                |    |      |
| 080709L02                   |         |                |    |      | 080709L02                     |         |                |    |      |
| 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       | 112     | 73-157         |    |      | Dibromofluoromethane          | 100     | 82-142         |    |      |
| Toluene-d8                  | 98      | 82-112         |    |      | 1,4-Bromofluorobenzene        | 100     | 75-105         |    |      |

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





Analytical Report



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

Date Received: 07/02/08  
Work Order No: 08-07-0164  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

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 |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111DPEWINF         | 08-07-0164-6-E    | 07/01/08 09:55      | Aqueous | GC 4       | 07/05/08      | 07/05/08 19:39     | 080705B01   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | 1100           | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 70             | 38-134                |    |             |       |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111ASWINF          | 08-07-0164-7-E    | 07/01/08 09:50      | Aqueous | GC 4       | 07/05/08      | 07/05/08 20:12     | 080705B01   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | 660            | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 52             | 38-134                |    |             |       |

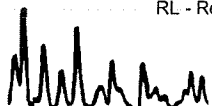
| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111ASWEFF          | 08-07-0164-8-E    | 07/01/08 09:35      | Aqueous | GC 4       | 07/05/08      | 07/05/08 20:45     | 080705B01   |

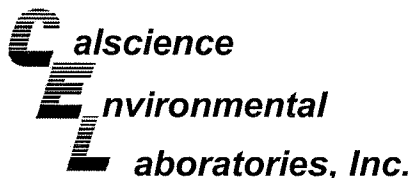
| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 70             | 38-134                |    |             |       |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111WGAC1           | 08-07-0164-9-E    | 07/01/08 09:45      | Aqueous | GC 4       | 07/05/08      | 07/05/08 21:18     | 080705B01   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 70             | 38-134                |    |             |       |

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





Analytical Report



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

Date Received: 07/02/08  
Work Order No: 08-07-0164  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: ARCO Facility No. 2111

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111WEFF            | 08-07-0164-10-E   | 07/01/08 09:30      | Aqueous | GC 4       | 07/02/08      | 07/02/08 17:44     | 080701B02   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1  |             | ug/L  |
| <b>Surrogates:</b>               | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> |       |
| 1,4-Bromofluorobenzene           | 69             | 38-134                |    |             |       |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111MW2WINF         | 08-07-0164-11-E   | 07/01/08 09:40      | Aqueous | GC 4       | 07/05/08      | 07/05/08 21:51     | 080705B01   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | 330            | 50                    | 1  |             | ug/L  |
| <b>Surrogates:</b>               | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> |       |
| 1,4-Bromofluorobenzene           | 61             | 38-134                |    |             |       |

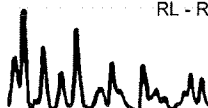
| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank         | 099-12-695-183    | N/A                 | Aqueous | GC 4       | 07/01/08      | 07/02/08 08:17     | 080701B02   |

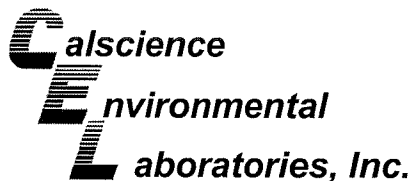
| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1  |             | ug/L  |
| <b>Surrogates:</b>               | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> |       |
| 1,4-Bromofluorobenzene           | 69             | 38-134                |    |             |       |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank         | 099-12-695-185    | N/A                 | Aqueous | GC 4       | 07/05/08      | 07/05/08 10:18     | 080705B01   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1  |             | ug/L  |
| <b>Surrogates:</b>               | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> |       |
| 1,4-Bromofluorobenzene           | 68             | 38-134                |    |             |       |

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





Quality Control - Duplicate



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

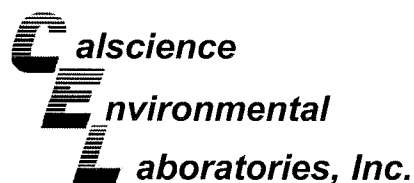
Date Received: 07/02/08  
 Work Order No: 08-07-0164  
 Preparation: N/A  
 Method: EPA TO-3M

Project: ARCO Facility No. 2111

| Quality Control Sample ID | Matrix | Instrument | Date Prepared: | Date Analyzed: | Duplicate Batch Number |
|---------------------------|--------|------------|----------------|----------------|------------------------|
| 02111ASYSINF              | Air    | GC 19      | N/A            | 07/02/08       | 080702D01              |

| Parameter                        | Sample Conc | DUP Conc | RPD | RPD CL | Qualifiers |
|----------------------------------|-------------|----------|-----|--------|------------|
| Gasoline Range Organics (C6-C12) | 320         | 280      | 13  | 0-20   |            |

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - Spike/Spike Duplicate



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

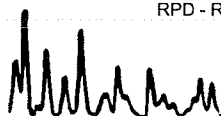
Date Received: 07/02/08  
Work Order No: 08-07-0164  
Preparation: EPA 5030B  
Method: EPA 8260B

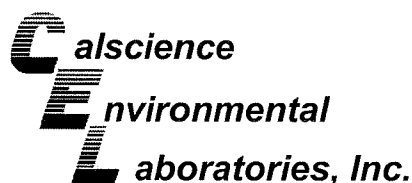
Project ARCO Facility No. 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 02111WEFF                 | Aqueous | GC/MS BB   | 07/02/08      | 07/02/08      | 080702S01           |

| Parameter                     | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|---------|----------|---------|-----|--------|------------|
| Benzene                       | 94      | 96       | 86-122  | 2   | 0-8    |            |
| Carbon Tetrachloride          | 95      | 96       | 78-138  | 1   | 0-9    |            |
| Chlorobenzene                 | 97      | 97       | 90-120  | 1   | 0-9    |            |
| 1,2-Dibromoethane             | 97      | 93       | 70-130  | 4   | 0-30   |            |
| 1,2-Dichlorobenzene           | 97      | 98       | 89-119  | 1   | 0-10   |            |
| 1,1-Dichloroethene            | 87      | 88       | 52-142  | 1   | 0-23   |            |
| Ethylbenzene                  | 96      | 96       | 70-130  | 1   | 0-30   |            |
| Toluene                       | 95      | 98       | 85-127  | 3   | 0-12   |            |
| Trichloroethene               | 98      | 97       | 78-126  | 0   | 0-10   |            |
| Vinyl Chloride                | 95      | 100      | 56-140  | 5   | 0-21   |            |
| Methyl-t-Butyl Ether (MTBE)   | 95      | 86       | 64-136  | 10  | 0-28   |            |
| Tert-Butyl Alcohol (TBA)      | 96      | 97       | 27-183  | 1   | 0-60   |            |
| Diisopropyl Ether (DIPE)      | 91      | 89       | 78-126  | 2   | 0-16   |            |
| Ethyl-t-Butyl Ether (ETBE)    | 93      | 89       | 67-133  | 5   | 0-21   |            |
| Tert-Amyl-Methyl Ether (TAME) | 97      | 94       | 63-141  | 3   | 0-21   |            |
| Ethanol                       | 107     | 129      | 11-167  | 18  | 0-64   |            |

RPD - Relative Percent Difference, CL - Control Limit





## Quality Control - Spike/Spike Duplicate



Stratus Environmental, inc.  
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Cameron Park, CA 95682-8861

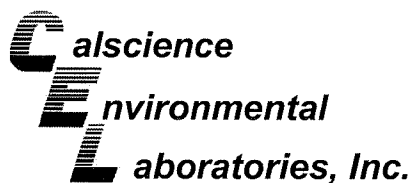
Date Received: 07/02/08  
Work Order No: 08-07-0164  
Preparation: EPA 5030B  
Method: EPA 8260B

Project ARCO Facility No. 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 08-07-0332-3              | Aqueous | GC/MS BB   | 07/09/08      | 07/10/08      | 080709S02           |

| Parameter                     | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|---------|----------|---------|-----|--------|------------|
| Benzene                       | 115     | 113      | 86-122  | 1   | 0-8    |            |
| Carbon Tetrachloride          | 134     | 133      | 78-138  | 0   | 0-9    |            |
| Chlorobenzene                 | 111     | 107      | 90-120  | 4   | 0-9    |            |
| 1,2-Dibromoethane             | 111     | 104      | 70-130  | 6   | 0-30   |            |
| 1,2-Dichlorobenzene           | 110     | 111      | 89-119  | 1   | 0-10   |            |
| 1,1-Dichloroethene            | 122     | 124      | 52-142  | 2   | 0-23   |            |
| Ethylbenzene                  | 116     | 119      | 70-130  | 2   | 0-30   |            |
| Toluene                       | 112     | 112      | 85-127  | 0   | 0-12   |            |
| Trichloroethene               | 118     | 115      | 78-126  | 3   | 0-10   |            |
| Vinyl Chloride                | 96      | 106      | 56-140  | 10  | 0-21   |            |
| Methyl-t-Butyl Ether (MTBE)   | 114     | 120      | 64-136  | 3   | 0-28   |            |
| Tert-Butyl Alcohol (TBA)      | 113     | 96       | 27-183  | 11  | 0-60   |            |
| Diisopropyl Ether (DIPE)      | 108     | 109      | 78-126  | 1   | 0-16   |            |
| Ethyl-t-Butyl Ether (ETBE)    | 112     | 109      | 67-133  | 2   | 0-21   |            |
| Tert-Amyl-Methyl Ether (TAME) | 113     | 109      | 63-141  | 4   | 0-21   |            |
| Ethanol                       | 32      | 88       | 11-167  | 93  | 0-64   | 4          |

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

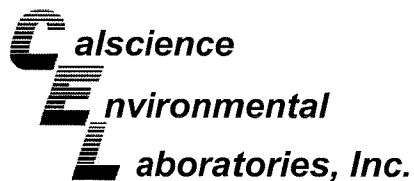
Date Received: 07/02/08  
 Work Order No: 08-07-0164  
 Preparation: EPA 5030B  
 Method: EPA 8015B (M)

Project ARCO Facility No. 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 08-06-2501-12             | Aqueous | GC 4       | 07/01/08      | 07/02/08      | 080701S02           |

| Parameter                        | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|----------------------------------|---------|----------|---------|-----|--------|------------|
| Gasoline Range Organics (C6-C12) | 80      | 79       | 38-134  | 1   | 0-25   |            |

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

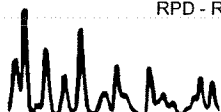
Date Received: 07/02/08  
 Work Order No: 08-07-0164  
 Preparation: EPA 5030B  
 Method: EPA 8015B (M)

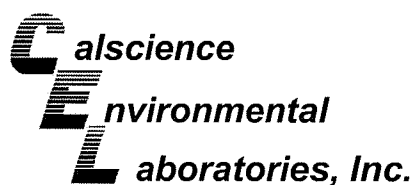
Project ARCO Facility No. 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 08-07-0168-2              | Aqueous | GC 4       | 07/05/08      | 07/05/08      | 080705S01           |

| Parameter                        | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|----------------------------------|---------|----------|---------|-----|--------|------------|
| Gasoline Range Organics (C6-C12) | 78      | 75       | 38-134  | 5   | 0-25   |            |

RPD - Relative Percent Difference, CL - Control Limit





## Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
Work Order No: 08-07-0164  
Preparation: N/A  
Method: EPA TO-15

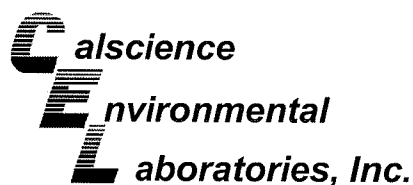
Project: ARCO Facility No. 2111

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|--------|------------|---------------|---------------|-----------------------|
| 097-09-002-7,336          | Air    | GC/MS DD   | N/A           | 07/02/08      | 080702L01             |

| Parameter    | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|--------------|----------|-----------|---------|-----|--------|------------|
| Benzene      | 99       | 108       | 60-156  | 9   | 0-40   |            |
| Toluene      | 98       | 107       | 56-146  | 9   | 0-43   |            |
| Ethylbenzene | 104      | 113       | 52-154  | 9   | 0-38   |            |
| p/m-Xylene   | 94       | 103       | 42-156  | 9   | 0-41   |            |
| o-Xylene     | 96       | 104       | 52-148  | 9   | 0-38   |            |

RPD - Relative Percent Difference, CL - Control Limit





## Quality Control - LCS/LCS Duplicate



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

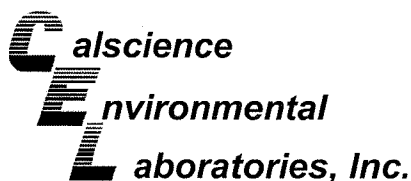
Date Received: N/A  
Work Order No: 08-07-0164  
Preparation: N/A  
Method: EPA TO-15

Project: ARCO Facility No. 2111

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|--------|------------|---------------|---------------|-----------------------|
| 097-09-002-7,343          | Air    | GC/MS DD   | N/A           | 07/03/08      | 080703L01             |

| Parameter    | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|--------------|----------|-----------|---------|-----|--------|------------|
| Benzene      | 99       | 118       | 60-156  | 18  | 0-40   |            |
| Toluene      | 89       | 108       | 56-146  | 19  | 0-43   |            |
| Ethylbenzene | 97       | 118       | 52-154  | 19  | 0-38   |            |
| p/m-Xylene   | 86       | 103       | 42-156  | 19  | 0-41   |            |
| o-Xylene     | 86       | 105       | 52-148  | 19  | 0-38   |            |

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - LCS/LCS Duplicate



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

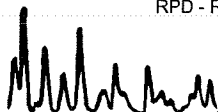
Date Received: N/A  
Work Order No: 08-07-0164  
Preparation: EPA 5030B  
Method: EPA 8260B

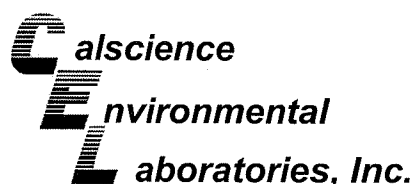
Project: ARCO Facility No. 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 099-12-703-304            | Aqueous | GC/MS BB   | 07/02/08      | 07/02/08      | 080702L01             |

| Parameter                     | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|----------|-----------|---------|-----|--------|------------|
| Benzene                       | 94       | 96        | 87-117  | 2   | 0-7    |            |
| Carbon Tetrachloride          | 95       | 98        | 78-132  | 3   | 0-8    |            |
| Chlorobenzene                 | 98       | 101       | 88-118  | 3   | 0-8    |            |
| 1,2-Dibromoethane             | 94       | 101       | 80-120  | 6   | 0-20   |            |
| 1,2-Dichlorobenzene           | 97       | 97        | 88-118  | 0   | 0-8    |            |
| 1,1-Dichloroethene            | 89       | 88        | 71-131  | 1   | 0-14   |            |
| Ethylbenzene                  | 99       | 102       | 80-120  | 3   | 0-20   |            |
| Toluene                       | 96       | 97        | 85-127  | 1   | 0-7    |            |
| Trichloroethene               | 98       | 100       | 85-121  | 2   | 0-11   |            |
| Vinyl Chloride                | 96       | 98        | 64-136  | 2   | 0-10   |            |
| Methyl-t-Butyl Ether (MTBE)   | 87       | 91        | 67-133  | 3   | 0-16   |            |
| Tert-Butyl Alcohol (TBA)      | 89       | 90        | 34-154  | 1   | 0-19   |            |
| Diisopropyl Ether (DIPE)      | 90       | 88        | 80-122  | 1   | 0-8    |            |
| Ethyl-t-Butyl Ether (ETBE)    | 89       | 91        | 73-127  | 2   | 0-11   |            |
| Tert-Amyl-Methyl Ether (TAME) | 94       | 96        | 69-135  | 1   | 0-12   |            |
| Ethanol                       | 108      | 81        | 34-124  | 28  | 0-44   |            |

RPD - Relative Percent Difference , CL - Control Limit





## Quality Control - LCS/LCS Duplicate



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

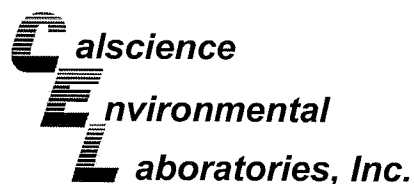
Date Received: N/A  
Work Order No: 08-07-0164  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: ARCO Facility No. 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 099-12-703-313            | Aqueous | GC/MS BB   | 07/09/08      | 07/10/08      | 080709L02             |

| Parameter                     | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|----------|-----------|---------|-----|--------|------------|
| Benzene                       | 107      | 110       | 87-117  | 3   | 0-7    |            |
| Carbon Tetrachloride          | 130      | 129       | 78-132  | 1   | 0-8    |            |
| Chlorobenzene                 | 110      | 106       | 88-118  | 3   | 0-8    |            |
| 1,2-Dibromoethane             | 112      | 114       | 80-120  | 2   | 0-20   |            |
| 1,2-Dichlorobenzene           | 107      | 109       | 88-118  | 2   | 0-8    |            |
| 1,1-Dichloroethene            | 113      | 124       | 71-131  | 9   | 0-14   |            |
| Ethylbenzene                  | 110      | 110       | 80-120  | 0   | 0-20   |            |
| Toluene                       | 109      | 111       | 85-127  | 2   | 0-7    |            |
| Trichloroethene               | 118      | 122       | 85-121  | 3   | 0-11   | X          |
| Vinyl Chloride                | 90       | 98        | 64-136  | 8   | 0-10   |            |
| Methyl-t-Butyl Ether (MTBE)   | 108      | 114       | 67-133  | 5   | 0-16   |            |
| Tert-Butyl Alcohol (TBA)      | 103      | 91        | 34-154  | 12  | 0-19   |            |
| Diisopropyl Ether (DIPE)      | 103      | 104       | 80-122  | 1   | 0-8    |            |
| Ethyl-t-Butyl Ether (ETBE)    | 106      | 109       | 73-127  | 2   | 0-11   |            |
| Tert-Amyl-Methyl Ether (TAME) | 115      | 119       | 69-135  | 3   | 0-12   |            |
| Ethanol                       | 99       | 99        | 34-124  | 0   | 0-44   |            |

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate



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

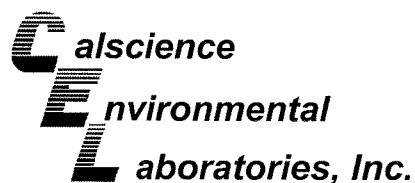
Date Received: N/A  
Work Order No: 08-07-0164  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: ARCO Facility No. 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 099-12-695-183            | Aqueous | GC 4       | 07/01/08      | 07/02/08      | 080701B02             |

| Parameter                        | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|----------------------------------|----------|-----------|---------|-----|--------|------------|
| Gasoline Range Organics (C6-C12) | 83       | 83        | 78-120  | 0   | 0-20   |            |

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
Work Order No: 08-07-0164  
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 |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 099-12-695-185            | Aqueous | GC 4       | 07/05/08      | 07/05/08      | 080705B01             |

| Parameter                        | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|----------------------------------|----------|-----------|---------|-----|--------|------------|
| Gasoline Range Organics (C6-C12) | 81       | 82        | 78-120  | 1   | 0-20   |            |

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 08-07-0164

| <u>Qualifier</u> | <u>Definition</u>   |
|------------------|---|
| *                | See applicable analysis comment.  |
| 1                | Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.  |
| 2                | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.                              |
| 3                | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.     |
| 4                | The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.   |
| 5                | The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required. |
| 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.   |
| ME               | A Marginal Exceedance (ME) is defined as a LCS percent recovery beyond the normal 3 standard deviation Control Limits but still within the marginal exceedance limits (set at 4 standard deviations from the mean)                                      |
| 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.  |



# Chain of Custody Record

**RUSH** 0164

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: <u>0727</u>          | Temp: <u>50's</u>      |
| Off-site Time:                     | Temp:                  |
| Sky Conditions: <u>overcast</u>    |                        |
| Meteorological Events: <u>MIST</u> |                        |
| Wind Speed: <u>    </u>            | Direction: <u>    </u> |

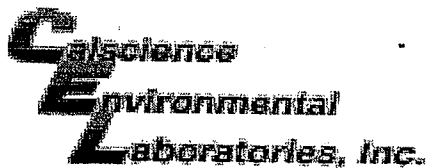
|  |  |   |
|--|--|---|
| Lab Name: <u>Calscience Environmental Laboratories, Inc.</u> | BP/AR Facility No.: <u>2111</u>                            | Consultant/Contractor: <u>Stratus Environmental, Inc.</u> |
| Address: <u>7440 Lincoln Way</u>                             | BP/AR Facility Address: <u>1156 Davis St., San Leandro</u> | Address: <u>3330 Cameron Park Drive, Suite 550</u>        |
| Garden Grove, CA 92841                                       | Site Lat/Long:   | <u>Cameron Park, CA 95682</u>                             |
| Lab PM: <u>Linda Scharpenberg</u>                            | California Global ID No.: <u>T0600101764</u>               | Consultant/Contractor Project No.: <u>E2111-03</u>        |
| Tele/Fax: <u>714-895-5494/ 714-895-7501</u>                  | Enfos Project No.: <u>G0C28-0029</u>                       | Consultant/Contractor PM: <u>Jay Johnson</u>              |
| BP/AR PM Contact: <u>Paul Supple</u>                         | Provision or OOC (circle one) <u>Provision</u>             | Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>          |
| Address: <u>2010 Crow Canyon Place, Suite 150</u>            | Phase/WBS: <u>03-O&amp;M</u>                               | Report Type & QC Level: <u>Level 1 with EDF</u>           |
| <u>San Ramon, CA</u>   | Sub Phase/Task: <u>03-Analytical</u>                       | E-mail EDD To: <u>shaves@stratusinc.net</u>               |
| Tele/Fax: <u>925-275-3506/925-275-3815</u>                   | Cost Element: <u>Subcontractor Cost</u>                    | Invoice to: <u>Atlantic Richfield Co.</u>                 |

| Item No. | Sample Description | Time | Date  | Matrix     |              |     | Laboratory No. | No. of Containers | Preservative |                                |                  |     |          | Requested Analysis |      |      |              | Turnaround Time |          | Sample Point Lat/Long and Comments                          |
|----------|--------------------|------|-------|------------|--------------|-----|----------------|-------------------|--------------|--------------------------------|------------------|-----|----------|--------------------|------|------|--------------|-----------------|----------|---|
|          |                    |      |       | Soil/Solid | Water/Liquid | Air |                |                   | Unpreserved  | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | Methanol | GRO                | ETEX | MTBE | S-oxygenates | 24-hours        | Standard |   |
| 1        | 02111DPEAINF       | 0919 | 07/01 |            | x            |     |                | 2                 | x            |                                |                  |     |          | x                  | x    | x    |              | x               |          | 5-oxygenates requested are MTBE, DIPE, ETBE, TAME, and TBA. |
| 2        | 02111ASAEFF        | 0925 |       |            | x            |     |                | 2                 | x            |                                |                  |     |          | x                  | x    | x    |              | x               |          |   |
| 3        | 02111ASYSINF       | 0917 |       |            | x            |     |                | 2                 | x            |                                |                  |     |          | x                  | x    | x    |              | x               |          |   |
| 4        | 02111AGAC1         | 0921 |       |            | x            |     |                | 2                 | x            |                                |                  |     |          | x                  | x    | x    |              | x               |          |   |
| 5        | 02111AEFF          | 0923 |       |            | x            |     |                | 2                 | x            |                                |                  |     |          | x                  | x    | x    |              | x               |          |   |
| 6        | 02111DPEWINF       | 0955 |       | x          |              |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            | x               |          |   |
| 7        | 02111ASWINF        | 0950 |       | x          |              |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            | x               |          |   |
| 8        | 02111ASWEFF        | 0935 |       | x          |              |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            | x               |          |   |
| 9        | 02111WGAC1         | 0945 |       | x          |              |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            | x               |          |   |
| 10       | 02111WEFF          | 0930 |       | x          |              |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            | x               |          |   |
| 11       | 02111MW2WINF       | 0940 |       | x          |              |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            | x               |          |   |
| 12       | TBZ1110701 2008    | 1035 | 07/01 | x          |              |     |                | 3                 |              |                                |                  |     |          |                    |      |      |              |                 |          | ON HOLD   |

|   |   |                    |                   |   |                     |                   |
|---|---|--------------------|-------------------|---|---------------------|-------------------|
| Sampler's Name: <u>O. Williams</u>                    | Relinquished By / Affiliation: <u>[Signature]</u> | Date: <u>07/08</u> | Time: <u>1500</u> | Accepted By / Affiliation: <u>[Signature]</u> | Date: <u>7/2/08</u> | Time: <u>1030</u> |
| Sampler's Company: <u>Stratus Environmental, Inc.</u> |   |                    |                   |   |                     |                   |
| Shipment Date: <u>07-01-08</u>                        |   |                    |                   |   |                     |                   |
| Shipment Method: <u>GSO</u>                           |   |                    |                   |   |                     |                   |
| Shipment Tracking No: <u>9255391737</u>               |   |                    |                   |   |                     |                   |

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



WORK ORDER #: 08 - 07 - 0164

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Status

DATE: 7/2/05

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. (For Air & Filter Only).
C Temperature blank.

LABORATORY (Other than Calscience Courier):

- 03.8 C Temperature blank.
C IR Thermometer.
Ambient temperature (For Air & Filter Only).

Initial: [Signature]

CUSTODY SEAL INTACT:

Sample(s): Cooler: [checked] No (Not Intact): Not Present:

Initial: [Signature]

SAMPLE CONDITION:

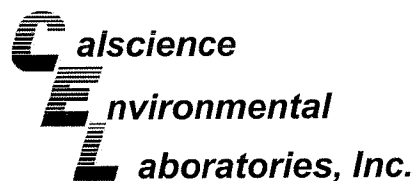
Table with 4 columns: Description, Yes, No, N/A. Rows include Chain-Of-Custody document(s), Sampler's name, Sample container label(s), Sample container(s) intact, Correct containers and volume, Proper preservation, VOA vial(s) free of headspace, Tedlar bag(s) free of condensation.

Initial: [Signature]

COMMENTS:

Multiple horizontal lines for handwritten comments.





July 11, 2008

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

Subject: **Calscience Work Order No.: 08-07-0564**  
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 7/8/2008 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.

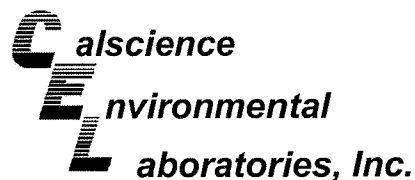
If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Linda Scharpenberg". The signature is written in a cursive style with a horizontal line underneath the name.

Calscience Environmental  
Laboratories, Inc.  
Linda Scharpenberg  
Project Manager

A handwritten signature in black ink, appearing to be a stylized name, located at the bottom left of the page.



## Analytical Report



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

Date Received: 07/08/08  
Work Order No: 08-07-0564  
Preparation: EPA 1311  
Method: EPA 8260B  
Units: ug/L

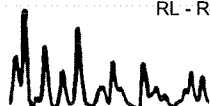
Project: ARCO Facility No. 2111

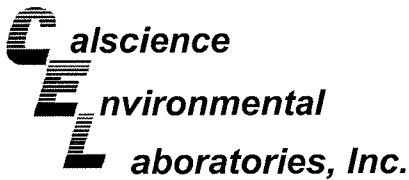
Page 1 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111A CARBON        | 08-07-0564-1-A    | 07/07/08<br>07:20   | Solid  | GC/MS M    | 07/08/08      | 07/10/08<br>15:49  | 080710L01   |

| Parameter            | Result         | RL                    | DF | Qual        | Parameter              | Result         | RL                    | DF | Qual        |
|----------------------|----------------|-----------------------|----|-------------|------------------------|----------------|-----------------------|----|-------------|
| Benzene              | ND             | 50                    | 1  |             | 1,2-Dichloroethane     | ND             | 50                    | 1  |             |
| 2-Butanone           | ND             | 1000                  | 1  |             | 1,1-Dichloroethene     | ND             | 100                   | 1  |             |
| Carbon Tetrachloride | ND             | 50                    | 1  |             | Tetrachloroethene      | ND             | 100                   | 1  |             |
| Chlorobenzene        | ND             | 100                   | 1  |             | Trichloroethene        | ND             | 100                   | 1  |             |
| Chloroform           | ND             | 100                   | 1  |             | Vinyl Chloride         | ND             | 50                    | 1  |             |
| 1,4-Dichlorobenzene  | ND             | 100                   | 1  |             |                        |                |                       |    |             |
| <u>Surrogates:</u>   | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> | <u>Surrogates:</u>     | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |
| Dibromofluoromethane | 109            | 82-130                |    |             | 1,2-Dichloroethane-d4  | 114            | 75-141                |    |             |
| Toluene-d8           | 99             | 83-113                |    |             | 1,4-Bromofluorobenzene | 96             | 70-118                |    |             |

RL - Reporting Limit    DF - Dilution Factor    Qual - Qualifiers





Analytical Report



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

Date Received: 07/08/08  
 Work Order No: 08-07-0564  
 Preparation: EPA 5030B  
 Method: EPA 8260B  
 Units: ug/L

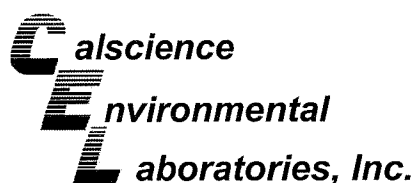
Project: ARCO Facility No. 2111

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank         | 099-10-006-26,202 | N/A                 | Aqueous | GC/MS M    | 07/08/08      | 07/10/08 14:29     | 080710L01   |

| Parameter            | Result  | RL             | DF | Qual | Parameter              | Result  | RL             | DF | Qual |
|----------------------|---------|----------------|----|------|------------------------|---------|----------------|----|------|
| Benzene              | ND      | 50             | 1  |      | 1,2-Dichloroethane     | ND      | 50             | 1  |      |
| 2-Butanone           | ND      | 1000           | 1  |      | 1,1-Dichloroethene     | ND      | 100            | 1  |      |
| Carbon Tetrachloride | ND      | 50             | 1  |      | Tetrachloroethene      | ND      | 100            | 1  |      |
| Chlorobenzene        | ND      | 100            | 1  |      | Trichloroethene        | ND      | 100            | 1  |      |
| Chloroform           | ND      | 100            | 1  |      | Vinyl Chloride         | ND      | 50             | 1  |      |
| 1,4-Dichlorobenzene  | ND      | 100            | 1  |      |                        |         |                |    |      |
| Surrogates:          | REC (%) | Control Limits |    | Qual | Surrogates:            | REC (%) | Control Limits |    | Qual |
| Dibromofluoromethane | 110     | 82-130         |    |      | 1,2-Dichloroethane-d4  | 114     | 75-141         |    |      |
| Toluene-d8           | 99      | 83-113         |    |      | 1,4-Bromofluorobenzene | 94      | 70-118         |    |      |

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



## Quality Control - Spike/Spike Duplicate



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

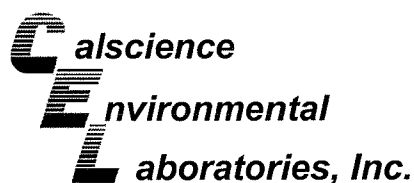
Date Received: 07/08/08  
Work Order No: 08-07-0564  
Preparation: EPA 1311  
Method: EPA 8260B

Project ARCO Facility No. 2111

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|--------|------------|---------------|---------------|---------------------|
| 08-07-0565-1              | Solid  | GC/MS M    | 07/08/08      | 07/10/08      | 080710S01           |

| Parameter                     | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|---------|----------|---------|-----|--------|------------|
| Benzene                       | 111     | 108      | 88-118  | 2   | 0-7    |            |
| Carbon Tetrachloride          | 100     | 95       | 67-145  | 4   | 0-11   |            |
| Chlorobenzene                 | 100     | 105      | 88-118  | 5   | 0-7    |            |
| 1,2-Dibromoethane             | 104     | 103      | 70-130  | 1   | 0-30   |            |
| 1,2-Dichlorobenzene           | 102     | 98       | 86-116  | 4   | 0-8    |            |
| 1,1-Dichloroethene            | 72      | 101      | 70-130  | 34  | 0-25   | BA         |
| Ethylbenzene                  | 107     | 110      | 70-130  | 3   | 0-30   |            |
| Toluene                       | 112     | 108      | 87-123  | 4   | 0-8    |            |
| Trichloroethene               | 98      | 99       | 79-127  | 1   | 0-10   |            |
| Vinyl Chloride                | 111     | 109      | 69-129  | 2   | 0-13   |            |
| Methyl-t-Butyl Ether (MTBE)   | 101     | 97       | 71-131  | 4   | 0-13   |            |
| Tert-Butyl Alcohol (TBA)      | 82      | 86       | 36-168  | 4   | 0-45   |            |
| Diisopropyl Ether (DIPE)      | 118     | 116      | 81-123  | 1   | 0-9    |            |
| Ethyl-t-Butyl Ether (ETBE)    | 114     | 111      | 72-126  | 3   | 0-12   |            |
| Tert-Amyl-Methyl Ether (TAME) | 108     | 106      | 72-126  | 3   | 0-12   |            |
| Ethanol                       | 102     | 104      | 53-149  | 2   | 0-31   |            |

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
Work Order No: 08-07-0564  
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 |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 099-10-006-26,202         | Aqueous | GC/MS M    | 07/10/08      | 07/10/08      | 080710L01             |

| Parameter                     | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|----------|-----------|---------|-----|--------|------------|
| Benzene                       | 107      | 105       | 84-120  | 2   | 0-8    |            |
| Carbon Tetrachloride          | 95       | 96        | 63-147  | 1   | 0-10   |            |
| Chlorobenzene                 | 99       | 100       | 89-119  | 1   | 0-7    |            |
| 1,2-Dibromoethane             | 100      | 109       | 80-120  | 8   | 0-20   |            |
| 1,2-Dichlorobenzene           | 96       | 97        | 89-119  | 1   | 0-9    |            |
| 1,1-Dichloroethene            | 109      | 97        | 77-125  | 12  | 0-16   |            |
| Ethylbenzene                  | 103      | 105       | 80-120  | 1   | 0-20   |            |
| Toluene                       | 107      | 105       | 83-125  | 1   | 0-9    |            |
| Trichloroethene               | 96       | 99        | 89-119  | 4   | 0-8    |            |
| Vinyl Chloride                | 104      | 103       | 63-135  | 1   | 0-13   |            |
| Methyl-t-Butyl Ether (MTBE)   | 99       | 114       | 82-118  | 14  | 0-13   | BA         |
| Tert-Butyl Alcohol (TBA)      | 110      | 110       | 46-154  | 0   | 0-32   |            |
| Diisopropyl Ether (DIPE)      | 108      | 115       | 81-123  | 6   | 0-11   |            |
| Ethyl-t-Butyl Ether (ETBE)    | 108      | 113       | 74-122  | 4   | 0-12   |            |
| Tert-Amyl-Methyl Ether (TAME) | 102      | 107       | 76-124  | 4   | 0-10   |            |
| Ethanol                       | 104      | 112       | 60-138  | 7   | 0-32   |            |

RPD - Relative Percent Difference, CL - Control Limit



Work Order Number: 08-07-0564

| <u>Qualifier</u> | <u>Definition</u>  |
|------------------|--|
| *                | See applicable analysis comment.   |
| 1                | Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.   |
| 2                | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.                             |
| 3                | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.    |
| 4                | The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.  |
| 5                | The PDS/PDS 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.  |
| ME               | A Marginal Exceedance (ME) is defined as a LCS percent recovery beyond the normal 3 standard deviation Control Limits but still within the marginal exceedance limits (set at 4 standard deviations from the mean)                                     |
| 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.   |
| BA               | Relative percent Difference Out Of Control   |



bp  
A BP affiliated company

### Chain of Custody Record

**RUSH**

(0564)

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: <u>0700</u>       | Temp: <u>50'S</u>   |
| Off-site Time: <u>0815</u>      | Temp: <u>60'S</u>   |
| Sky Conditions: <u>Clear</u>    |                     |
| Meteorological Events: <u>—</u> |                     |
| Wind Speed: <u>—</u>            | Direction: <u>—</u> |

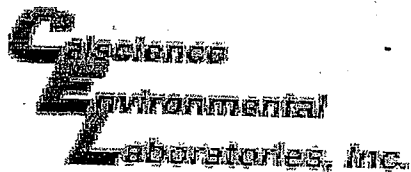
|   |  |   |
|---|--|---|
| Lab Name: <u>Calscience Environmental Laboratories, Inc.</u>    | BP/AR Facility No.: <u>2111</u>                            | Consultant/Contractor: <u>Stratus Environmental, Inc.</u>                 |
| Address: <u>7440 Lincoln Way Garden Grove, CA 92841</u>         | BP/AR Facility Address: <u>1156 Davis St., San Leandro</u> | Address: <u>3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682</u> |
| Lab PM: <u>Linda Scharpenberg</u>                               | Site Lat/Long:   | Consultant/Contractor Project No.: <u>E2111-03</u>                        |
| Tele/Fax: <u>714-895-5494/ 714-895-7501</u>                     | California Global ID No.: <u>T0600101764</u>               | Consultant/Contractor PM: <u>Jay Johnson</u>                              |
| BP/AR PM Contact: <u>Paul Supple</u>                            | Enfos Project No.: <u>G0C28-0029</u>                       | Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>                          |
| Address: <u>2010 Crow Canyon Place, Suite 150 San Ramon, CA</u> | Provision or OOC (circle one) <u>Provision</u>             | Report Type & QC Level: <u>Level 1 with EDF</u>                           |
| Tele/Fax: <u>925-275-3506/925-275-3815</u>                      | Phase/WBS: <u>03-O&amp;M</u>                               | E-mail EDD To: <u>shaves@stratusinc.net</u>                               |
|   | Sub Phase/Task: <u>03-Analytical</u>                       | Invoice to: <u>Atlantic Richfield Co.</u>                                 |
|   | Cost Element: <u>Subcontractor Cost</u>                    |   |

| Item No. | Sample Description | Time | Date   | Matrix     |              |     | Laboratory No. | No. of Containers | Preservative |                                |                  |     |          | Requested Analysis |   | Turnaround Time |          | Sample Point Lat/Long and Comments |  |
|----------|--------------------|------|--------|------------|--------------|-----|----------------|-------------------|--------------|--------------------------------|------------------|-----|----------|--------------------|---|-----------------|----------|------------------------------------|--|
|          |                    |      |        | Soil/Solid | Water/Liquid | Air |                |                   | Unpreserved  | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | Methanol | TCLP by 8260       |   | 24-hours        | Standard |                                    |  |
| 1        | 02111 A-CARBON     | 0720 | 7/7/08 | x          |              |     |                | 1                 | x            |                                |                  |     |          |                    | x |                 | x        |                                    | TCLP includes analysis for vinyl chloride, 1,2-dichloroethene, chloroform, 1,2-dichloroethane, methyl ethyl ketone butanone, carbon tetrachloride, trichloroethene, benzene, tetrachloroethene, and chlorobenzene. |
| 2        |                    |      |        |            |              |     |                |                   |              |                                |                  |     |          |                    |   |                 |          |                                    |  |
| 3        |                    |      |        |            |              |     |                |                   |              |                                |                  |     |          |                    |   |                 |          |                                    |  |
| 4        |                    |      |        |            |              |     |                |                   |              |                                |                  |     |          |                    |   |                 |          |                                    |  |
| 5        |                    |      |        |            |              |     |                |                   |              |                                |                  |     |          |                    |   |                 |          |                                    |  |
| 6        |                    |      |        |            |              |     |                |                   |              |                                |                  |     |          |                    |   |                 |          |                                    |  |
| 7        |                    |      |        |            |              |     |                |                   |              |                                |                  |     |          |                    |   |                 |          |                                    |  |
| 8        |                    |      |        |            |              |     |                |                   |              |                                |                  |     |          |                    |   |                 |          |                                    |  |
| 9        |                    |      |        |            |              |     |                |                   |              |                                |                  |     |          |                    |   |                 |          |                                    |  |
| 10       |                    |      |        |            |              |     |                |                   |              |                                |                  |     |          |                    |   |                 |          |                                    |  |
| 11       |                    |      |        |            |              |     |                |                   |              |                                |                  |     |          |                    |   |                 |          |                                    |  |

|   |                                |               |             |                            |               |             |
|---|--------------------------------|---------------|-------------|----------------------------|---------------|-------------|
| Sampler's Name: <u>Greg Wilkins</u>                   | Relinquished By / Affiliation: | Date:         | Time:       | Accepted By / Affiliation: | Date:         | Time:       |
| Sampler's Company: <u>Stratus Environmental, Inc.</u> |                                | <u>070708</u> | <u>1500</u> |                            | <u>7/8/08</u> | <u>1020</u> |
| Shipment Date: <u>07-07-08</u>                        |                                |               |             |                            |               |             |
| Shipment Method: <u>GSD</u>                           |                                |               |             |                            |               |             |
| Shipment Tracking No: <u>105867101</u>                | <u>GSD</u>                     |               |             |                            |               |             |

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 |
|----------------------------------|----------------------|------------------------------|----------------------|-----------------------------------|



WORK ORDER #: 08 - 07 - 0564

Cooler 1 of 1

### SAMPLE RECEIPT FORM

CLIENT: STATUS

DATE: 7-8-08

#### 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 (For Air & Filter Only).
- °C Temperature blank.

##### LABORATORY (Other than Calscience Courier):

- 2.6 °C Temperature blank.
- °C IR Thermometer.
- Ambient temperature (For Air & Filter Only).

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.....       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Sampler's name indicated on COC.....                          | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Sample container label(s) consistent with custody papers..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Sample container(s) intact and good condition.....            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Correct containers and volume for analyses requested.....     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Proper preservation noted on sample label(s).....             | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| VOA vial(s) free of headspace.....                            | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation.....                       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Initial: WB

#### COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_





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

September 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 and Marty Morgan

*Number of Site Visits:* 4 (August 5, 12, 21, and 27, 2008)

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

*Operational Status:* Continuous operation

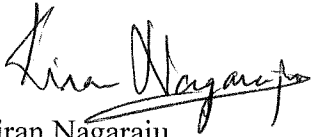
*Scope of Work Performed:* Conduct routine system operation and maintenance, and record field measurements. Influent, mid-fluent, and effluent air and water samples were collected on August 5, 2008.

*Variations from Scope of Work:* During the site visits conducted in August 2008, the remediation systems were found to shutdown frequently due to high water level either in the air-stripper tank or the oil-water separator. These high level shutdowns were due to clogging of the lead carbon vessel.

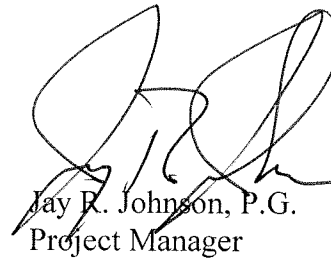
The attachments include field data sheets, chain of custody documentation, and the certified analytical results. The information is being provided to BP-ARCO's Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does 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

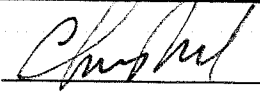
Date: 8508  
 Onsite Time: 0430  
 Offsite Time: 0630  
 Equipment Manufacturer/Model# \_\_\_\_\_

Technician: CHILL  
 Weather Conditions: clouds  
 Ambient Temperature: 40

| System Information                       |   |
|--|---|
| System Status Upon Arrival:              | Operational <input type="checkbox"/> Non-Operational <input checked="" type="checkbox"/> <i>High H<sub>2</sub>O</i> |
| System Status Upon Departure:            | Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>                            |
| Electric Meter Reading:                  | <u>NM</u>   |
| Hour Meter Reading:                      | <u>2241</u>   |
| Totalizer Reading Prior to Air Stripper: | <u>473470</u>   |
| Totalizer Reading After Air Stripper:    | <u>1072140</u>  |
| PID Calibration Date:                    | <u>804108</u>   |

| Field Measurements         |  |                              |                                  |                              |                         |
|----------------------------|--|------------------------------|----------------------------------|------------------------------|-------------------------|
| Parameter                  | Influent<br>(after blower,<br>2111DPEAINF) | Air Stripper<br>(2111ASAEFF) | System Influent<br>(2111ASYSINF) | Stack Air Flow<br>(2111AEFF) | Comments                |
| Differential Pressure, "wc |  | <u>25</u>                    |                                  |                              |                         |
| Air Velocity, FPM          |  | <u>2126</u>                  |                                  |                              |                         |
| Pipe Diameter, inches      |  | <u>4</u>                     |                                  |                              |                         |
| Air Flow Rate, cfm         |  |                              | <u>180</u>                       |                              |                         |
| Applied Vacuum, "wc        | <u>20" H<sub>2</sub>O</u>                  | <u>.38</u>                   | NA                               | NA                           |                         |
| Temperature, deg F         |  | <u>129</u>                   |                                  |                              |                         |
| PID Readings, ppmv         | <u>130</u>                                 | <u>1</u>                     | <u>63</u>                        | <u>8</u>                     | PID for GAC-1: <u>8</u> |

| Other Readings/Measurements |            |                      |                          |                            |  |  |  |
|-----------------------------|------------|----------------------|--------------------------|----------------------------|--|--|--|
| Well ID                     | % Open     | Applied Vac.,<br>"Hg | Total depth,<br>feet bgs | Stinger Depth,<br>feet bgs |  |  |  |
| V-1                         | <u>50</u>  | <u>16</u>            |                          |                            |  |  |  |
| V-2                         | <u>50</u>  | <u>15</u>            |                          |                            |  |  |  |
| V-3                         | <u>50</u>  | <u>15</u>            |                          |                            |  |  |  |
| MW-1                        | <u>8</u>   |                      |                          |                            |  |  |  |
| MW-3                        | <u>100</u> | <u>15</u>            |                          |                            |  |  |  |
| MW-7                        | <u>100</u> | <u>15</u>            |                          |                            |  |  |  |
| <u>MW 8</u>                 | <u>8</u>   |                      |                          |                            |  |  |  |

Signature: 

Date: 8508



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

 ORIGINAL

Date: 8508  
 Onsite Time: 0430  
 Offsite Time: 0630

Technician: CHILL  
 Weather Conditions: cloud  
 Ambient Temperature: 40

System Status Upon Arrival:  Operational  Non-operational High H<sub>2</sub>O Treat  
 System Status At Departure:  Operational  Non-operational  
 Transfer Pump:  Operational  Non-operational

Transfer Pump Hour Meter Reading: \_\_\_\_\_

Effluent Flow Totalizer Reading: 1037580

No. of Carbon Vessels: 2

Lead Carbon Vessel Pressure (psi): 22

| Effluent Water Characteristics<br>(Quarterly by Field Instrument) |             |
|---|-------------|
| pH:   | <u>7.38</u> |
| Temperature:  | <u>18.2</u> |

| Well ID | Hour Meter Reading | Totalizer Reading | Total Depth | Pump Depth |
|---------|--------------------|-------------------|-------------|------------|
| MW-2    |                    | <u>284518</u>     |             |            |
|         |                    |                   |             |            |
|         |                    |                   |             |            |

| Sampling Information |                  |              |                  |
|----------------------|------------------|--------------|------------------|
| Sample ID            | Date & Time      | Sample ID    | Date & Time      |
| 02111DPEWINF         | <u>8508 0545</u> | 02111MW2WINF | <u>8508 0600</u> |
| 02111ASWINF          | <u>0533</u>      |              |                  |
| 02111ASWEFF          | <u>0528</u>      |              |                  |
| 02111WGAC1           | <u>0525</u>      |              |                  |
| 02111WEFF            | <u>0519</u>      |              |                  |
| <u>TB21118508</u>    | <u>0605</u>      |              |                  |

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

Notes:  
Carbon Pressure High will Bring handle next time  
5th carbon

Signature: 

Date: 8508

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



Date: 8/20/08  
 Onsite Time: 0500  
 Offsite Time: 0600  
 Equipment Manufacturer/Model# \_\_\_\_\_

Technician: CHILL  
 Weather Conditions: clouds  
 Ambient Temperature: 50

| System Information                       |   |   |                  |
|--|---|---|------------------|
| System Status Upon Arrival:              | Operational <input type="checkbox"/>            | Non-Operational <input checked="" type="checkbox"/> | <i>High Tank</i> |
| System Status Upon Departure:            | Operational <input checked="" type="checkbox"/> | Non-Operational <input type="checkbox"/>            |                  |
| Electric Meter Reading:                  | <u>NUM</u>                                      |   |                  |
| Hour Meter Reading:                      | <u>2251</u>                                     |   |                  |
| Totalizer Reading Prior to Air Stripper: | <u>477130</u>                                   | PID Calibration Date:                               | <u>8-11-08</u>   |
| Totalizer Reading After Air Stripper:    | <u>1075540</u>                                  |   |                  |

| Field Measurements         |  |                              |                                     |                                 |                         |
|----------------------------|--|------------------------------|-------------------------------------|---------------------------------|-------------------------|
| Parameter                  | Influent<br>(after blower,<br>2111DPEAINF) | Air Stripper<br>(2111ASAEFF) | System<br>Influent<br>(2111ASYSINF) | Stack Air<br>Flow<br>(2111AEFF) | Comments                |
| Differential Pressure, "wc |  | <u>24</u>                    |                                     |                                 |                         |
| Air Velocity, FPM          |  | <u>2170</u>                  |                                     |                                 |                         |
| Pipe Diameter, inches      |  | <u>4</u>                     | <u>4</u>                            |                                 |                         |
| Air Flow Rate, cfm         |  |                              | <u>180</u>                          |                                 |                         |
| Applied Vacuum, "wc        | <u>20 1/4</u>                              | <u>40</u>                    | NA                                  | NA                              |                         |
| Temperature, deg F         |  | <u>124</u>                   | <u>90</u>                           |                                 |                         |
| PID Readings, ppmv         | <u>365</u>                                 | <u>2</u>                     | <u>181</u>                          | <u>8</u>                        | PID for GAC-1: <u>8</u> |

| Other Readings/Measurements |            |                      |                          |                            |  |  |
|-----------------------------|------------|----------------------|--------------------------|----------------------------|--|--|
| Well ID                     | % Open     | Applied Vac.,<br>"Hg | Total depth,<br>feet bgs | Stinger Depth,<br>feet bgs |  |  |
| V-1                         | <u>50</u>  | <u>15</u>            |                          |                            |  |  |
| V-2                         | <u>50</u>  | <u>15</u>            |                          |                            |  |  |
| V-3                         | <u>50</u>  | <u>15</u>            |                          |                            |  |  |
| MW-1                        | <u>0</u>   |                      |                          |                            |  |  |
| MW-3                        | <u>100</u> | <u>15</u>            |                          |                            |  |  |
| MW-7                        | <u>100</u> | <u>15</u>            |                          |                            |  |  |
| MW-5                        | <u>0</u>   |                      |                          |                            |  |  |

Signature: *Chill*

Date: 8/20/08



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

**ORIGINAL**

Date: 81208  
 Onsite Time: 0500  
 Offsite Time: 0600

Technician: CHILL  
 Weather Conditions: Clouds  
 Ambient Temperature: 50

System Status Upon Arrival:  Operational  Non-operational *High H<sub>2</sub>O Oil/water*  
 System Status At Departure:  Operational  Non-operational  
 Transfer Pump:  Operational  Non-operational

Transfer Pump Hour Meter Reading: \_\_\_\_\_

Effluent Flow Totalizer Reading: 1040731

No. of Carbon Vessels: 2

Lead Carbon Vessel Pressure (psi): 20

|   |       |
|---|-------|
| Effluent Water Characteristics<br>(Quarterly by Field Instrument) |       |
| pH:   | _____ |
| Temperature:  | _____ |

| Well ID | Hour Meter Reading | Totalizer Reading | Total Depth | Pump Depth |
|---------|--------------------|-------------------|-------------|------------|
| MW-2    |                    | <u>285201</u>     |             |            |
|         |                    |                   |             |            |
|         |                    |                   |             |            |

| 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: *Carbon In lead getting very Hard Brake up  
 some of it - PSI still 20 PSI*

Signature: *Chill*

Date: 81208



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



Date: 8/21/08  
 Onsite Time: 0845  
 Offsite Time: 0945  
 Equipment Manufacturer/Model# \_\_\_\_\_

Technician: MW Morgan  
 Weather Conditions: overcast  
 Ambient Temperature: 66°

| System Information                       |                |  |  |
|--|----------------|--|--|
| System Status Upon Arrival:              | Operational    | <input type="checkbox"/>               | Non-Operational <input checked="" type="checkbox"/> <i>high tank</i> |
| System Status Upon Departure:            | Operational    | <input checked="" type="checkbox"/>    | Non-Operational <input type="checkbox"/>                             |
| Electric Meter Reading:                  | <u>NM</u>      |  |  |
| Hour Meter Reading:                      | <u>2259.8</u>  |  |  |
| Totalizer Reading Prior to Air Stripper: | <u>482119</u>  | PID Calibration Date:                  | <u>8/21/08</u>   |
| Totalizer Reading After Air Stripper:    | <u>1079990</u> | <i>lead carbon pressure: &gt;30psi</i> |  |

| Field Measurements          |  |                              |                                     |                                 |                         |  |
|-----------------------------|--|------------------------------|-------------------------------------|---------------------------------|-------------------------|--|
| Parameter                   | Influent<br>(after blower,<br>2111DPEAINF) | Air Stripper<br>(2111ASAEFF) | System<br>Influent<br>(2111ASYSINF) | Stack Air<br>Flow<br>(2111AEFF) | Comments                |  |
| Differential Pressure, "wc  |  | <u>.23</u>                   |                                     |                                 |                         |  |
| Air Velocity, FPM           |  | <u>1908</u>                  |                                     |                                 |                         |  |
| Pipe Diameter, inches       |  | <u>4</u>                     | <u>4</u>                            |                                 |                         |  |
| Air Flow Rate, cfm          |  |                              | <u>180</u>                          |                                 |                         |  |
| Applied Vacuum, "wc         | <u>21" Hg</u>                              | <u>.40</u>                   | NA                                  | NA                              |                         |  |
| Temperature, deg F          |  | <u>130</u>                   | <u>100</u>                          |                                 |                         |  |
| PID Readings, ppmv          | <u>239</u>                                 | <u>0</u>                     | <u>129</u>                          | <u>0</u>                        | PID for GAC-1: <u>0</u> |  |
| Other Readings/Measurements |  |                              |                                     |                                 |                         |  |
| Well ID                     | % Open                                     | Applied Vac.,<br>"Hg         | Total depth,<br>feet bgs            | Stinger Depth,<br>feet bgs      |                         |  |
| V-1                         | <u>50</u>                                  | <u>16</u>                    |                                     |                                 |                         |  |
| V-2                         | <u>50</u>                                  | <u>17</u>                    |                                     |                                 |                         |  |
| V-3                         | <u>50</u>                                  | <u>18</u>                    |                                     |                                 |                         |  |
| MW-1                        | <u>0</u>                                   | <u>-</u>                     |                                     |                                 |                         |  |
| MW-3                        | <u>100</u>                                 | <u>19</u>                    |                                     |                                 |                         |  |
| MW-7                        | <u>100</u>                                 | <u>18</u>                    |                                     |                                 |                         |  |

Signature: *[Handwritten Signature]*

Date: 8/21/08



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

ORIGINAL

Date: 82708  
 Onsite Time: 0915  
 Offsite Time: 1015  
 Equipment Manufacturer/Model# \_\_\_\_\_

Technician: CHILL  
 Weather Conditions: Clear  
 Ambient Temperature: 70

Air Str. 100%

**System Information**

System Status Upon Arrival: Operational  Non-Operational  *High H2O*

System Status Upon Departure: Operational  Non-Operational

Electric Meter Reading: NM

Hour Meter Reading: 2270

Totalizer Reading Prior to Air Stripper: 488319 PID Calibration Date: 82508

Totalizer Reading After Air Stripper: 1085950

**Field Measurements**

| Parameter                  | Influent<br>(after blower,<br>2111DPEAINF) | Air Stripper<br>(2111ASAEFF) | System<br>Influent<br>(2111ASYSINF) | Stack Air<br>Flow<br>(2111AEFF) | Comments         |
|----------------------------|--|------------------------------|-------------------------------------|---------------------------------|------------------|
| Differential Pressure, "wc |  | 21" H2O                      |                                     |                                 |                  |
| Air Velocity, FPM          |  | 2513                         |                                     |                                 |                  |
| Pipe Diameter, inches      | 3  | 4                            | 4                                   | 3                               |                  |
| Air Flow Rate, cfm         |  |                              | 180                                 |                                 |                  |
| Applied Vacuum, "wc        | 20" Hg                                     | 30" H2O                      | NA                                  | NA                              |                  |
| Temperature, deg F         |  | 134                          | 110                                 |                                 |                  |
| PID Readings, ppmv         | 70   | 1                            | 44                                  | 8                               | PID for GAC-1: 8 |

**Other Readings/Measurements**

| Well ID | % Open | Applied Vac.,<br>"Hg | Total depth,<br>feet bgs | Stinger Depth,<br>feet bgs |  |  |  |
|---------|--------|----------------------|--------------------------|----------------------------|--|--|--|
| V-1     | 50     | 16                   |                          |                            |  |  |  |
| V-2     | 50     | 16                   |                          |                            |  |  |  |
| V-3     | 50     | 16                   |                          |                            |  |  |  |
| MW-1    | 0      | -                    |                          |                            |  |  |  |
| MW-3    | 100    | 18                   |                          |                            |  |  |  |
| MW-7    | 100    | 18                   |                          |                            |  |  |  |
| MWB     | 0      | -                    |                          |                            |  |  |  |

Signature:

Date: 82708



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

**ORIGINAL**

Date: 82708  
 Onsite Time: 0915  
 Offsite Time: 1015

Technician: CHILL  
 Weather Conditions: Clear  
 Ambient Temperature: 70

System Status Upon Arrival:  Operational  Non-operational High H<sub>2</sub>O  
 System Status At Departure:  Operational  Non-operational  
 Transfer Pump:  Operational  Non-operational

Transfer Pump Hour Meter Reading: \_\_\_\_\_

Effluent Flow Totalizer Reading: 1050359

No. of Carbon Vessels: 2

Lead Carbon Vessel Pressure (psi): 25

|   |       |
|---|-------|
| Effluent Water Characteristics<br>(Quarterly by Field Instrument) |       |
| pH:   | _____ |
| Temperature:  | _____ |

| Well ID | Hour Meter Reading | Totalizer Reading | Total Depth | Pump Depth |
|---------|--------------------|-------------------|-------------|------------|
| MW-2    |                    | <u>290614</u>     |             |            |
|         |                    |                   |             |            |
|         |                    |                   |             |            |

| 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:  
Need To change carbon To Increase Flow  
 OUT Carbon Hard Pack

Signature: [Signature]

Date: 82708

## 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: Alameda County Environmental Health  
 Requested Due Date (mm/dd/yy): 24 hours for Effluent & STD for others

**RUSH**

|                               |                 |
|-------------------------------|-----------------|
| On-site Time: <u>0430</u>     | Temp: <u>40</u> |
| Off-site Time: <u>0630</u>    | Temp:           |
| Sky Conditions: <u>clouds</u> |                 |
| Meteorological Events:        |                 |
| Wind Speed:                   | Direction:      |

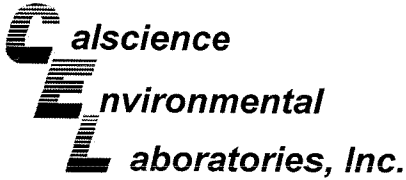
|  |  |   |
|--|--|---|
| Lab Name: <u>Calscience Environmental Laboratories, Inc.</u> | BP/AR Facility No.: <u>2111</u>                            | Consultant/Contractor: <u>Stratus Environmental, Inc.</u> |
| Address: <u>7440 Lincoln Way</u>                             | BP/AR Facility Address: <u>1156 Davis St., San Leandro</u> | Address: <u>3330 Cameron Park Drive, Suite 550</u>        |
| Garden Grove, CA 92841                                       | Site Lat/Long:   | <u>Cameron Park, CA 95682</u>                             |
| Lab PM: <u>Linda Scharpenberg</u>                            | California Global ID No.: <u>T0600101764</u>               | Consultant/Contractor Project No.: <u>E2111-03</u>        |
| Tele/Fax: <u>714-895-5494/ 714-895-7501</u>                  | Enfos Project No.: <u>G0C28-0029</u>                       | Consultant/Contractor PM: <u>Jay Johnson</u>              |
| BP/AR PM Contact: <u>Paul Supple</u>                         | Provision or OOC (circle one) <u>Provision</u>             | Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>          |
| Address: <u>2010 Crow Canyon Place, Suite 150</u>            | Phase/WBS: <u>03-O&amp;M</u>                               | Report Type & QC Level: <u>Level 1 with EDF</u>           |
| <u>San Ramon, CA</u>   | Sub Phase/Task: <u>03-Analytical</u>                       | E-mail EDD To: <u>shayes@stratusinc.net</u>               |
| Tele/Fax: <u>925-275-3506/925-275-3815</u>                   | Cost Element: <u>Subcontractor Cost</u>                    | Invoice to: <u>Atlantic Richfield Co.</u>                 |

| Item No. | Sample Description | Time        | Date | Matrix     |              |     | Laboratory No. | No. of Containers | Preservative |                                |                  |     |          | Requested Analysis |      |      |              | Turnaround Time |          | Sample Point Lat/Long and Comments |  |   |  |
|----------|--------------------|-------------|------|------------|--------------|-----|----------------|-------------------|--------------|--------------------------------|------------------|-----|----------|--------------------|------|------|--------------|-----------------|----------|------------------------------------|--|---|--|
|          |                    |             |      | Soil/Solid | Water/Liquid | Air |                |                   | Unpreserved  | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | Methanol | GRO                | BTEX | MTBE | 5-oxygenates | 24-hours        | Standard |                                    |  |   |  |
| 1        | 02111DPEAINF       | 0617        | 0526 |            | x            |     |                | 2                 | x            |                                |                  |     |          | x                  | x    | x    |              |                 |          |                                    |  | 5-oxygenates requested are MTBE, DIPE, ETBE, TAME, and TBA. |  |
| 2        | 02111ASAEFF        | 0613        |      |            | x            |     |                | 2                 | x            |                                |                  |     |          | x                  | x    | x    |              |                 |          |                                    |  |   |  |
| 3        | 02111ASYSINF       | 0611        |      |            | x            |     |                | 2                 | x            |                                |                  |     |          | x                  | x    | x    |              |                 |          |                                    |  |   |  |
| 4        | 02111AGACI         | 0609        |      |            | x            |     |                | 2                 | x            |                                |                  |     |          | x                  | x    | x    |              |                 |          |                                    |  |   |  |
| 5        | 02111AEFF          | 0607        |      |            | x            |     |                | 2                 | x            |                                |                  |     |          | x                  | x    | x    |              |                 |          |                                    |  |   |  |
| 6        | 02111DPEWINF       | 0515        |      |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      |              |                 |          |                                    |  |   |  |
| 7        | 02111ASWINF        | 0537        |      |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      |              |                 |          |                                    |  |   |  |
| 8        | 02111ASWEFF        | 0528        |      |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      |              |                 |          |                                    |  |   |  |
| 9        | 02111WGACI         | 0525        |      |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      |              |                 |          |                                    |  |   |  |
| 10       | 02111WEFF          | 0519        |      |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      |              |                 |          |                                    |  |   |  |
| 11       | 02111MW2WINF       | 0600        |      |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      |              |                 |          |                                    |  |   |  |
|          | <u>7B2118508</u>   | <u>0605</u> |      |            | x            |     |                | 2                 |              |                                |                  |     |          | x                  | x    |      |              |                 |          |                                    |  |   |  |

|   |  |                   |                   |                            |       |       |
|---|--|-------------------|-------------------|----------------------------|-------|-------|
| Sampler's Name: <u>Chris Hill</u>                     | Relinquished By / Affiliation: <u>Chris Hill Stratus</u> | Date: <u>0508</u> | Time: <u>1600</u> | Accepted By / Affiliation: | Date: | Time: |
| Sampler's Company: <u>Stratus Environmental, Inc.</u> |  |                   |                   |                            |       |       |
| Shipment Date: <u>8:30B</u>                           |  |                   |                   |                            |       |       |
| Shipment Method: <u>CSO</u>                           |  |                   |                   |                            |       |       |
| Shipment Tracking No:                                 |  |                   |                   |                            |       |       |

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

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



August 18, 2008

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

Subject: **Calscience Work Order No.: 08-08-0357**  
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 8/6/2008 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,

A handwritten signature in cursive script that reads "Philip Samelle for".

Calscience Environmental  
Laboratories, Inc.  
Linda Scharpenberg  
Project Manager

A handwritten signature in cursive script, likely belonging to Linda Scharpenberg, located at the bottom left of the page.

## Analytical Report



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

Date Received: 08/06/08  
Work Order No: 08-08-0357  
Preparation: N/A  
Method: EPA TO-15  
Units: mg/m3

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 |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111DPEAINF         | 08-08-0357-1-A    | 08/05/08<br>06:15   | Air    | GC/MS NN   | N/A           | 08/06/08<br>19:52  | 080806L01   |

| Parameter              | Result         | RL                    | DF  | Qual        | Parameter                   | Result         | RL                    | DF  | Qual        |
|------------------------|----------------|-----------------------|-----|-------------|-----------------------------|----------------|-----------------------|-----|-------------|
| Benzene                | 1.5            | 0.16                  | 100 |             | Xylenes (total)             | 9.0            | 0.43                  | 100 |             |
| Toluene                | 0.97           | 0.19                  | 100 |             | Methyl-t-Butyl Ether (MTBE) | 24             | 2.9                   | 400 |             |
| Ethylbenzene           | 4.7            | 0.22                  | 100 |             |                             |                |                       |     |             |
| <u>Surrogates:</u>     | <u>REC (%)</u> | <u>Control Limits</u> |     | <u>Qual</u> | <u>Surrogates:</u>          | <u>REC (%)</u> | <u>Control Limits</u> |     | <u>Qual</u> |
| 1,4-Bromofluorobenzene | 100            | 57-129                |     |             | 1,2-Dichloroethane-d4       | 101            | 47-137                |     |             |
| Toluene-d8             | 107            | 78-156                |     |             |                             |                |                       |     |             |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111ASAEFF          | 08-08-0357-2-A    | 08/05/08<br>06:13   | Air    | GC/MS NN   | N/A           | 08/06/08<br>16:35  | 080806L01   |

| Parameter              | Result         | RL                    | DF | Qual        | Parameter                   | Result         | RL                    | DF | Qual        |
|------------------------|----------------|-----------------------|----|-------------|-----------------------------|----------------|-----------------------|----|-------------|
| Benzene                | ND             | 0.0016                | 1  |             | Xylenes (total)             | ND             | 0.0043                | 1  |             |
| Toluene                | 0.0096         | 0.0019                | 1  |             | Methyl-t-Butyl Ether (MTBE) | 0.40           | 0.072                 | 10 |             |
| Ethylbenzene           | ND             | 0.0022                | 1  |             |                             |                |                       |    |             |
| <u>Surrogates:</u>     | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> | <u>Surrogates:</u>          | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |
| 1,4-Bromofluorobenzene | 96             | 57-129                |    |             | 1,2-Dichloroethane-d4       | 90             | 47-137                |    |             |
| Toluene-d8             | 95             | 78-156                |    |             |                             |                |                       |    |             |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111ASYSINF         | 08-08-0357-3-A    | 08/05/08<br>06:11   | Air    | GC/MS NN   | N/A           | 08/06/08<br>19:03  | 080806L01   |

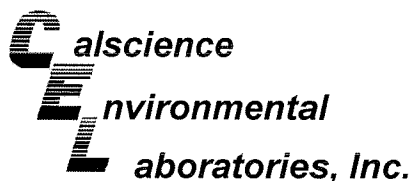
| Parameter              | Result         | RL                    | DF | Qual        | Parameter                   | Result         | RL                    | DF  | Qual        |
|------------------------|----------------|-----------------------|----|-------------|-----------------------------|----------------|-----------------------|-----|-------------|
| Benzene                | 0.62           | 0.080                 | 50 |             | Xylenes (total)             | 3.5            | 0.22                  | 50  |             |
| Toluene                | 0.40           | 0.094                 | 50 |             | Methyl-t-Butyl Ether (MTBE) | 10             | 1.4                   | 200 |             |
| Ethylbenzene           | 1.9            | 0.11                  | 50 |             |                             |                |                       |     |             |
| <u>Surrogates:</u>     | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> | <u>Surrogates:</u>          | <u>REC (%)</u> | <u>Control Limits</u> |     | <u>Qual</u> |
| 1,4-Bromofluorobenzene | 99             | 57-129                |    |             | 1,2-Dichloroethane-d4       | 100            | 47-137                |     |             |
| Toluene-d8             | 107            | 78-156                |    |             |                             |                |                       |     |             |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111AGAC1           | 08-08-0357-4-A    | 08/05/08<br>06:09   | Air    | GC/MS NN   | N/A           | 08/06/08<br>18:14  | 080806L01   |

| Parameter              | Result         | RL                    | DF | Qual        | Parameter                   | Result         | RL                    | DF | Qual        |
|------------------------|----------------|-----------------------|----|-------------|-----------------------------|----------------|-----------------------|----|-------------|
| Benzene                | ND             | 0.0016                | 1  |             | Xylenes (total)             | ND             | 0.0043                | 1  |             |
| Toluene                | 0.0083         | 0.0019                | 1  |             | Methyl-t-Butyl Ether (MTBE) | ND             | 0.0072                | 1  |             |
| Ethylbenzene           | ND             | 0.0022                | 1  |             |                             |                |                       |    |             |
| <u>Surrogates:</u>     | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> | <u>Surrogates:</u>          | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |
| 1,4-Bromofluorobenzene | 97             | 57-129                |    |             | 1,2-Dichloroethane-d4       | 96             | 47-137                |    |             |
| Toluene-d8             | 98             | 78-156                |    |             |                             |                |                       |    |             |

RL - Reporting Limit    DF - Dilution Factor    Qual - Qualifiers





Analytical Report



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

Date Received: 08/06/08  
Work Order No: 08-08-0357  
Preparation: N/A  
Method: EPA TO-15  
Units: mg/m3

Project: ARCO Facility No. 2111

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111AEFF            | 08-08-0357-5-A    | 08/05/08 06:07      | Air    | GC/MS NN   | N/A           | 08/06/08 17:25     | 080806L01   |

| Parameter              | Result         | RL                    | DF | Qual        | Parameter                   | Result         | RL                    | DF | Qual        |
|------------------------|----------------|-----------------------|----|-------------|-----------------------------|----------------|-----------------------|----|-------------|
| Benzene                | ND             | 0.0016                | 1  |             | Xylenes (total)             | ND             | 0.0043                | 1  |             |
| Toluene                | 0.0071         | 0.0019                | 1  |             | Methyl-t-Butyl Ether (MTBE) | ND             | 0.0072                | 1  |             |
| Ethylbenzene           | ND             | 0.0022                | 1  |             |                             |                |                       |    |             |
| <u>Surrogates:</u>     | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> | <u>Surrogates:</u>          | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |
| 1,4-Bromofluorobenzene | 97             | 57-129                |    |             | 1,2-Dichloroethane-d4       | 99             | 47-137                |    |             |
| Toluene-d8             | 99             | 78-156                |    |             |                             |                |                       |    |             |

| Method Blank | 097-09-002-7,460 | N/A | Air | GC/MS NN | N/A | 08/06/08 13:46 | 080806L01 |
|--------------|------------------|-----|-----|----------|-----|----------------|-----------|
|--------------|------------------|-----|-----|----------|-----|----------------|-----------|

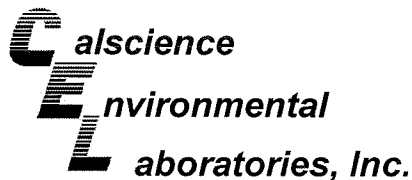
| Parameter              | Result         | RL                    | DF | Qual        | Parameter                   | Result         | RL                    | DF | Qual        |
|------------------------|----------------|-----------------------|----|-------------|-----------------------------|----------------|-----------------------|----|-------------|
| Benzene                | ND             | 0.0016                | 1  |             | Xylenes (total)             | ND             | 0.0043                | 1  |             |
| Toluene                | ND             | 0.0019                | 1  |             | Methyl-t-Butyl Ether (MTBE) | ND             | 0.0072                | 1  |             |
| Ethylbenzene           | ND             | 0.0022                | 1  |             |                             |                |                       |    |             |
| <u>Surrogates:</u>     | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> | <u>Surrogates:</u>          | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |
| 1,4-Bromofluorobenzene | 98             | 57-129                |    |             | 1,2-Dichloroethane-d4       | 102            | 47-137                |    |             |
| Toluene-d8             | 98             | 78-156                |    |             |                             |                |                       |    |             |

| Method Blank | 097-09-002-7,463 | N/A | Air | GC/MS K | N/A | 08/07/08 10:53 | 080807L01 |
|--------------|------------------|-----|-----|---------|-----|----------------|-----------|
|--------------|------------------|-----|-----|---------|-----|----------------|-----------|

| Parameter              | Result         | RL                    | DF | Qual        | Parameter                   | Result         | RL                    | DF | Qual        |
|------------------------|----------------|-----------------------|----|-------------|-----------------------------|----------------|-----------------------|----|-------------|
| Benzene                | ND             | 0.0016                | 1  |             | Xylenes (total)             | ND             | 0.0043                | 1  |             |
| Toluene                | ND             | 0.0019                | 1  |             | Methyl-t-Butyl Ether (MTBE) | ND             | 0.0072                | 1  |             |
| Ethylbenzene           | ND             | 0.0022                | 1  |             |                             |                |                       |    |             |
| <u>Surrogates:</u>     | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> | <u>Surrogates:</u>          | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |
| 1,4-Bromofluorobenzene | 98             | 57-129                |    |             | 1,2-Dichloroethane-d4       | 93             | 47-137                |    |             |
| Toluene-d8             | 104            | 78-156                |    |             |                             |                |                       |    |             |

RL - Reporting Limit    DF - Dilution Factor    Qual - Qualifiers





Analytical Report



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

Date Received: 08/06/08  
Work Order No: 08-08-0357  
Preparation: N/A  
Method: EPA TO-3M

Project: ARCO Facility No. 2111

Page 1 of 1

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111DPEAINF         | 08-08-0357-1-A    | 08/05/08 06:15      | Air    | GC 19      | N/A           | 08/06/08 17:29     | 080806L01   |

| Parameter                        | Result | RL  | DF | Qual | Units |
|----------------------------------|--------|-----|----|------|-------|
| Gasoline Range Organics (C6-C12) | 2600   | 250 | 5  |      | mg/m3 |

|             |                |                |     |       |     |                |           |
|-------------|----------------|----------------|-----|-------|-----|----------------|-----------|
| 02111ASAEFF | 08-08-0357-2-A | 08/05/08 06:13 | Air | GC 19 | N/A | 08/06/08 12:46 | 080806L01 |
|-------------|----------------|----------------|-----|-------|-----|----------------|-----------|

| Parameter                        | Result | RL | DF | Qual | Units |
|----------------------------------|--------|----|----|------|-------|
| Gasoline Range Organics (C6-C12) | ND     | 50 | 1  |      | mg/m3 |

|              |                |                |     |       |     |                |           |
|--------------|----------------|----------------|-----|-------|-----|----------------|-----------|
| 02111ASYSINF | 08-08-0357-3-A | 08/05/08 06:11 | Air | GC 19 | N/A | 08/06/08 15:42 | 080806L01 |
|--------------|----------------|----------------|-----|-------|-----|----------------|-----------|

| Parameter                        | Result | RL | DF | Qual | Units |
|----------------------------------|--------|----|----|------|-------|
| Gasoline Range Organics (C6-C12) | 1100   | 50 | 1  |      | mg/m3 |

|            |                |                |     |       |     |                |           |
|------------|----------------|----------------|-----|-------|-----|----------------|-----------|
| 02111AGAC1 | 08-08-0357-4-A | 08/05/08 06:09 | Air | GC 19 | N/A | 08/06/08 16:20 | 080806L01 |
|------------|----------------|----------------|-----|-------|-----|----------------|-----------|

| Parameter                        | Result | RL | DF | Qual | Units |
|----------------------------------|--------|----|----|------|-------|
| Gasoline Range Organics (C6-C12) | ND     | 50 | 1  |      | mg/m3 |

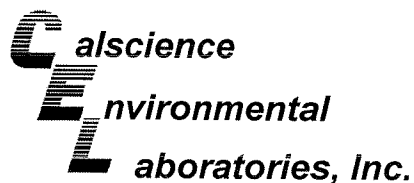
|           |                |                |     |       |     |                |           |
|-----------|----------------|----------------|-----|-------|-----|----------------|-----------|
| 02111AEFF | 08-08-0357-5-A | 08/05/08 06:07 | Air | GC 19 | N/A | 08/06/08 15:04 | 080806L01 |
|-----------|----------------|----------------|-----|-------|-----|----------------|-----------|

| Parameter                        | Result | RL | DF | Qual | Units |
|----------------------------------|--------|----|----|------|-------|
| Gasoline Range Organics (C6-C12) | ND     | 50 | 1  |      | mg/m3 |

|              |               |     |     |       |     |                |           |
|--------------|---------------|-----|-----|-------|-----|----------------|-----------|
| Method Blank | 099-12-693-66 | N/A | Air | GC 19 | N/A | 08/06/08 08:37 | 080806L01 |
|--------------|---------------|-----|-----|-------|-----|----------------|-----------|

| Parameter                        | Result | RL | DF | Qual | Units |
|----------------------------------|--------|----|----|------|-------|
| Gasoline Range Organics (C6-C12) | ND     | 50 | 1  |      | mg/m3 |

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



## Analytical Report



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

Date Received: 08/06/08  
Work Order No: 08-08-0357  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

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 |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111DPEWINF         | 08-08-0357-6-E    | 08/05/08<br>05:45   | Aqueous | GC 4       | 08/06/08      | 08/06/08<br>22:23  | 080806B01   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | 220            | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 67             | 38-134                |    |             |       |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111ASWINF          | 08-08-0357-7-E    | 08/05/08<br>05:33   | Aqueous | GC 4       | 08/06/08      | 08/06/08<br>19:37  | 080806B01   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | 80             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 69             | 38-134                |    |             |       |

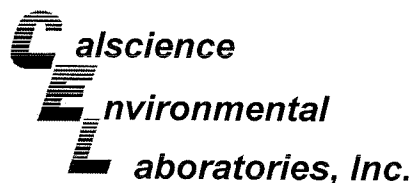
| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111ASWEFF          | 08-08-0357-8-E    | 08/05/08<br>05:28   | Aqueous | GC 4       | 08/06/08      | 08/06/08<br>19:04  | 080806B01   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 72             | 38-134                |    |             |       |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111WGAC1           | 08-08-0357-9-E    | 08/05/08<br>05:25   | Aqueous | GC 4       | 08/06/08      | 08/06/08<br>20:44  | 080806B01   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 66             | 38-134                |    |             |       |

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



## Analytical Report

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

Date Received: 08/06/08  
Work Order No: 08-08-0357  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: ARCO Facility No. 2111

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111WEFF            | 08-08-0357-10-E   | 08/05/08<br>05:19   | Aqueous | GC 4       | 08/06/08      | 08/06/08<br>17:25  | 080806B01   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 64             | 38-134                |    |             |       |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111MW2WINF         | 08-08-0357-11-E   | 08/05/08<br>06:00   | Aqueous | GC 4       | 08/06/08      | 08/06/08<br>20:10  | 080806B01   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | 270            | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 70             | 38-134                |    |             |       |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank         | 099-12-695-223    | N/A                 | Aqueous | GC 4       | 08/06/08      | 08/06/08<br>12:59  | 080806B01   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 76             | 38-134                |    |             |       |

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

**Analytical Report**



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

Date Received: 08/06/08  
 Work Order No: 08-08-0357  
 Preparation: EPA 5030B  
 Method: EPA 8260B  
 Units: ug/L

Project: ARCO Facility No. 2111

Page 1 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111DPEWINF         | 08-08-0357-6-A    | 08/05/08<br>05:45   | Aqueous | GC/MS Z    | 08/13/08      | 08/13/08<br>16:18  | 080813L01   |

| Parameter                   | Result         | RL                    | DF | Qual        | Parameter                     | Result         | RL                    | DF | Qual        |
|-----------------------------|----------------|-----------------------|----|-------------|-------------------------------|----------------|-----------------------|----|-------------|
| Benzene                     | ND             | 10                    | 20 |             | Tert-Butyl Alcohol (TBA)      | 1200           | 200                   | 20 |             |
| Ethylbenzene                | 12             | 10                    | 20 |             | Diisopropyl Ether (DIPE)      | ND             | 10                    | 20 |             |
| Toluene                     | ND             | 10                    | 20 |             | Ethyl-t-Butyl Ether (ETBE)    | ND             | 10                    | 20 |             |
| Xylenes (total)             | 25             | 10                    | 20 |             | Tert-Amyl-Methyl Ether (TAME) | ND             | 10                    | 20 |             |
| Methyl-t-Butyl Ether (MTBE) | 460            | 10                    | 20 |             |                               |                |                       |    |             |
| <b>Surrogates:</b>          | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> | <b>Surrogates:</b>            | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> |
| 1,2-Dichloroethane-d4       | 101            | 73-157                |    |             | Dibromofluoromethane          | 102            | 82-142                |    |             |
| Toluene-d8                  | 100            | 82-112                |    |             | 1,4-Bromofluorobenzene        | 96             | 75-105                |    |             |

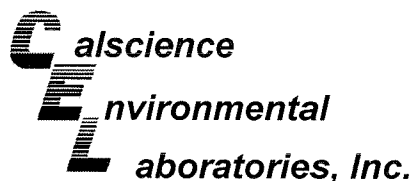
| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111ASWINF          | 08-08-0357-7-C    | 08/05/08<br>05:33   | Aqueous | GC/MS Z    | 08/13/08      | 08/13/08<br>16:50  | 080813L01   |

| Parameter                   | Result         | RL                    | DF | Qual        | Parameter                     | Result         | RL                    | DF | Qual        |
|-----------------------------|----------------|-----------------------|----|-------------|-------------------------------|----------------|-----------------------|----|-------------|
| Benzene                     | ND             | 5.0                   | 10 |             | Tert-Butyl Alcohol (TBA)      | 930            | 100                   | 10 |             |
| Ethylbenzene                | ND             | 5.0                   | 10 |             | Diisopropyl Ether (DIPE)      | ND             | 5.0                   | 10 |             |
| Toluene                     | ND             | 5.0                   | 10 |             | Ethyl-t-Butyl Ether (ETBE)    | ND             | 5.0                   | 10 |             |
| Xylenes (total)             | 10             | 5.0                   | 10 |             | Tert-Amyl-Methyl Ether (TAME) | ND             | 5.0                   | 10 |             |
| Methyl-t-Butyl Ether (MTBE) | 370            | 5.0                   | 10 |             |                               |                |                       |    |             |
| <b>Surrogates:</b>          | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> | <b>Surrogates:</b>            | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> |
| 1,2-Dichloroethane-d4       | 102            | 73-157                |    |             | Dibromofluoromethane          | 101            | 82-142                |    |             |
| Toluene-d8                  | 100            | 82-112                |    |             | 1,4-Bromofluorobenzene        | 97             | 75-105                |    |             |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111ASWEFF          | 08-08-0357-8-A    | 08/05/08<br>05:28   | Aqueous | GC/MS Z    | 08/13/08      | 08/13/08<br>17:22  | 080813L01   |

| Parameter                   | Result         | RL                    | DF | Qual        | Parameter                     | Result         | RL                    | DF | Qual        |
|-----------------------------|----------------|-----------------------|----|-------------|-------------------------------|----------------|-----------------------|----|-------------|
| Benzene                     | ND             | 1.0                   | 2  |             | Tert-Butyl Alcohol (TBA)      | 550            | 100                   | 10 |             |
| Ethylbenzene                | ND             | 1.0                   | 2  |             | Diisopropyl Ether (DIPE)      | ND             | 1.0                   | 2  |             |
| Toluene                     | ND             | 1.0                   | 2  |             | Ethyl-t-Butyl Ether (ETBE)    | ND             | 1.0                   | 2  |             |
| Xylenes (total)             | ND             | 1.0                   | 2  |             | Tert-Amyl-Methyl Ether (TAME) | ND             | 1.0                   | 2  |             |
| Methyl-t-Butyl Ether (MTBE) | 12             | 1.0                   | 2  |             |                               |                |                       |    |             |
| <b>Surrogates:</b>          | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> | <b>Surrogates:</b>            | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> |
| 1,2-Dichloroethane-d4       | 102            | 73-157                |    |             | Dibromofluoromethane          | 102            | 82-142                |    |             |
| Toluene-d8                  | 100            | 82-112                |    |             | 1,4-Bromofluorobenzene        | 95             | 75-105                |    |             |

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



## Analytical Report



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

Date Received: 08/06/08  
Work Order No: 08-08-0357  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: ARCO Facility No. 2111

Page 2 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111WGAC1           | 08-08-0357-9-B    | 08/05/08<br>05:25   | Aqueous | GC/MS Z    | 08/13/08      | 08/13/08<br>17:54  | 080813L01   |

| 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  |             |                               |                |                       |    |             |
| <b>Surrogates:</b>          | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> | <b>Surrogates:</b>            | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> |
| 1,2-Dichloroethane-d4       | 104            | 73-157                |    |             | Dibromofluoromethane          | 101            | 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 |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111WEFF            | 08-08-0357-10-B   | 08/05/08<br>05:19   | Aqueous | GC/MS Z    | 08/07/08      | 08/07/08<br>13:02  | 080807L01   |

| 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  |             |                               |                |                       |    |             |
| <b>Surrogates:</b>          | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> | <b>Surrogates:</b>            | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> |
| 1,2-Dichloroethane-d4       | 100            | 73-157                |    |             | Dibromofluoromethane          | 101            | 82-142                |    |             |
| Toluene-d8                  | 99             | 82-112                |    |             | 1,4-Bromofluorobenzene        | 98             | 75-105                |    |             |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111MW2WINF         | 08-08-0357-11-A   | 08/05/08<br>06:00   | Aqueous | GC/MS Z    | 08/13/08      | 08/13/08<br>18:27  | 080813L01   |

| Parameter                   | Result         | RL                    | DF | Qual        | Parameter                     | Result         | RL                    | DF | Qual        |
|-----------------------------|----------------|-----------------------|----|-------------|-------------------------------|----------------|-----------------------|----|-------------|
| Benzene                     | 15             | 10                    | 20 |             | Tert-Butyl Alcohol (TBA)      | 860            | 200                   | 20 |             |
| Ethylbenzene                | ND             | 10                    | 20 |             | Diisopropyl Ether (DIPE)      | ND             | 10                    | 20 |             |
| Toluene                     | ND             | 10                    | 20 |             | Ethyl-t-Butyl Ether (ETBE)    | ND             | 10                    | 20 |             |
| Xylenes (total)             | ND             | 10                    | 20 |             | Tert-Amyl-Methyl Ether (TAME) | ND             | 10                    | 20 |             |
| Methyl-t-Butyl Ether (MTBE) | 230            | 10                    | 20 |             |                               |                |                       |    |             |
| <b>Surrogates:</b>          | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> | <b>Surrogates:</b>            | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> |
| 1,2-Dichloroethane-d4       | 107            | 73-157                |    |             | Dibromofluoromethane          | 104            | 82-142                |    |             |
| Toluene-d8                  | 101            | 82-112                |    |             | 1,4-Bromofluorobenzene        | 94             | 75-105                |    |             |

RL - Reporting Limit    DF - Dilution Factor    Qual - Qualifiers

## Analytical Report



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

Date Received: 08/06/08  
Work Order No: 08-08-0357  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: ARCO Facility No. 2111

Page 3 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank         | 099-12-703-361    | N/A                 | Aqueous | GC/MS Z    | 08/07/08      | 08/07/08<br>09:46  | 080807L01   |

| 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       | 154     | 73-157         |    |      | Dibromofluoromethane          | 111     | 82-142         |    |      |
| Toluene-d8                  | 99      | 82-112         |    |      | 1,4-Bromofluorobenzene        | 97      | 75-105         |    |      |

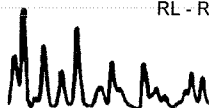
| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank         | 099-12-703-378    | N/A                 | Aqueous | GC/MS Z    | 08/13/08      | 08/13/08<br>11:21  | 080813L01   |

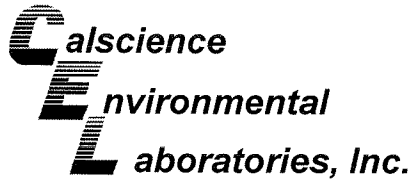
| Parameter                   | Result  | RL             | DF | Qual | Parameter                     | Result  | RL             | DF | Qual |
|-----------------------------|---------|----------------|----|------|-------------------------------|---------|----------------|----|------|
| Benzene                     | 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       | 133     | 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         | 099-12-703-388    | N/A                 | Aqueous | GC/MS Z    | 08/14/08      | 08/14/08<br>17:57  | 080814L01   |

| 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       | 105     | 73-157         |    |      | Dibromofluoromethane          | 101     | 82-142         |    |      |
| Toluene-d8                  | 99      | 82-112         |    |      | 1,4-Bromofluorobenzene        | 97      | 75-105         |    |      |

RL - Reporting Limit    DF - Dilution Factor    Qual - Qualifiers





Quality Control - Duplicate



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

Date Received: 08/06/08  
 Work Order No: 08-08-0357  
 Preparation: N/A  
 Method: EPA TO-3M

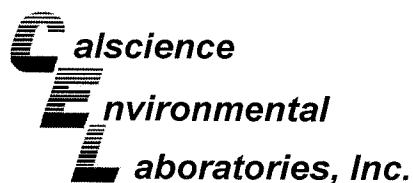
Project: ARCO Facility No. 2111

| Quality Control Sample ID | Matrix | Instrument | Date Prepared: | Date Analyzed: | Duplicate Batch Number |
|---------------------------|--------|------------|----------------|----------------|------------------------|
| 08-08-0355-1              | Air    | GC 19      | N/A            | 08/06/08       | 080806D01              |

| Parameter                        | Sample Conc. | DUP Conc | RPD | RPD CL | Qualifiers |
|----------------------------------|--------------|----------|-----|--------|------------|
| Gasoline Range Organics (C6-C12) | 360          | 360      | 0   | 0-20   |            |

RPD - Relative Percent Difference , CL - Control Limit





## Quality Control - Spike/Spike Duplicate



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

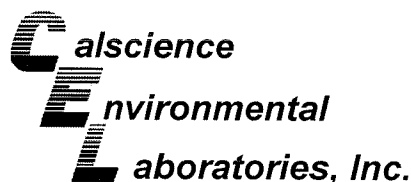
Date Received: 08/06/08  
Work Order No: 08-08-0357  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project ARCO Facility No. 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 08-08-0355-5              | Aqueous | GC 4       | 08/06/08      | 08/06/08      | 080806S01           |

| <u>Parameter</u>                 | <u>MS %REC</u> | <u>MSD %REC</u> | <u>%REC CL</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
|----------------------------------|----------------|-----------------|----------------|------------|---------------|-------------------|
| Gasoline Range Organics (C6-C12) | 86             | 86              | 38-134         | 0          | 0-25          |                   |

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - Spike/Spike Duplicate



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

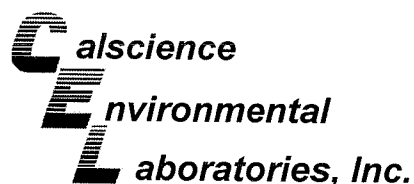
Date Received: 08/06/08  
Work Order No: 08-08-0357  
Preparation: EPA 5030B  
Method: EPA 8260B

Project ARCO Facility No. 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 02111WEFF                 | Aqueous | GC/MS Z    | 08/07/08      | 08/07/08      | 080807S01           |

| Parameter                     | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|---------|----------|---------|-----|--------|------------|
| Benzene                       | 95      | 98       | 86-122  | 4   | 0-8    |            |
| Carbon Tetrachloride          | 99      | 106      | 78-138  | 7   | 0-9    |            |
| Chlorobenzene                 | 94      | 98       | 90-120  | 4   | 0-9    |            |
| 1,2-Dibromoethane             | 93      | 97       | 70-130  | 5   | 0-30   |            |
| 1,2-Dichlorobenzene           | 92      | 95       | 89-119  | 3   | 0-10   |            |
| 1,1-Dichloroethene            | 95      | 99       | 52-142  | 5   | 0-23   |            |
| Ethylbenzene                  | 94      | 99       | 70-130  | 5   | 0-30   |            |
| Toluene                       | 95      | 98       | 85-127  | 3   | 0-12   |            |
| Trichloroethene               | 93      | 97       | 78-126  | 4   | 0-10   |            |
| Vinyl Chloride                | 99      | 102      | 56-140  | 3   | 0-21   |            |
| Methyl-t-Butyl Ether (MTBE)   | 89      | 94       | 64-136  | 6   | 0-28   |            |
| Tert-Butyl Alcohol (TBA)      | 105     | 107      | 27-183  | 2   | 0-60   |            |
| Diisopropyl Ether (DIPE)      | 91      | 95       | 78-126  | 4   | 0-16   |            |
| Ethyl-t-Butyl Ether (ETBE)    | 91      | 95       | 67-133  | 4   | 0-21   |            |
| Tert-Amyl-Methyl Ether (TAME) | 90      | 93       | 63-141  | 4   | 0-21   |            |
| Ethanol                       | 121     | 127      | 11-167  | 5   | 0-64   |            |

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - Spike/Spike Duplicate



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

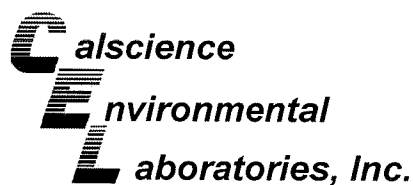
Date Received: 08/06/08  
Work Order No: 08-08-0357  
Preparation: EPA 5030B  
Method: EPA 8260B

Project ARCO Facility No. 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 08-08-0553-1              | Aqueous | GC/MS Z    | 08/13/08      | 08/13/08      | 080813S01           |

| Parameter                     | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|---------|----------|---------|-----|--------|------------|
| Benzene                       | 108     | 106      | 86-122  | 2   | 0-8    |            |
| Carbon Tetrachloride          | 106     | 109      | 78-138  | 3   | 0-9    |            |
| Chlorobenzene                 | 106     | 106      | 90-120  | 0   | 0-9    |            |
| 1,2-Dibromoethane             | 108     | 102      | 70-130  | 6   | 0-30   |            |
| 1,2-Dichlorobenzene           | 106     | 103      | 89-119  | 3   | 0-10   |            |
| 1,1-Dichloroethene            | 101     | 100      | 52-142  | 1   | 0-23   |            |
| Ethylbenzene                  | 109     | 109      | 70-130  | 0   | 0-30   |            |
| Toluene                       | 106     | 105      | 85-127  | 2   | 0-12   |            |
| Trichloroethene               | 105     | 105      | 78-126  | 0   | 0-10   |            |
| Vinyl Chloride                | 108     | 108      | 56-140  | 1   | 0-21   |            |
| Methyl-t-Butyl Ether (MTBE)   | 98      | 91       | 64-136  | 4   | 0-28   |            |
| Tert-Butyl Alcohol (TBA)      | 100     | 101      | 27-183  | 1   | 0-60   |            |
| Diisopropyl Ether (DIPE)      | 103     | 98       | 78-126  | 5   | 0-16   |            |
| Ethyl-t-Butyl Ether (ETBE)    | 107     | 102      | 67-133  | 5   | 0-21   |            |
| Tert-Amyl-Methyl Ether (TAME) | 111     | 104      | 63-141  | 7   | 0-21   |            |
| Ethanol                       | 87      | 93       | 11-167  | 6   | 0-64   |            |

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - Spike/Spike Duplicate



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

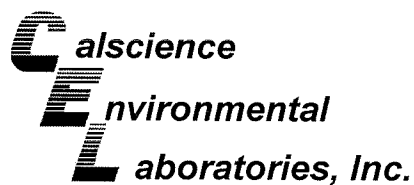
Date Received: 08/06/08  
Work Order No: 08-08-0357  
Preparation: EPA 5030B  
Method: EPA 8260B

Project ARCO Facility No. 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 08-08-0896-1              | Aqueous | GC/MS Z    | 08/14/08      | 08/14/08      | 080814S01           |

| Parameter                     | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|---------|----------|---------|-----|--------|------------|
| Benzene                       | 101     | 106      | 86-122  | 5   | 0-8    |            |
| Carbon Tetrachloride          | 98      | 107      | 78-138  | 9   | 0-9    |            |
| Chlorobenzene                 | 99      | 106      | 90-120  | 7   | 0-9    |            |
| 1,2-Dibromoethane             | 99      | 106      | 70-130  | 7   | 0-30   |            |
| 1,2-Dichlorobenzene           | 100     | 106      | 89-119  | 6   | 0-10   |            |
| 1,1-Dichloroethene            | 95      | 101      | 52-142  | 6   | 0-23   |            |
| Ethylbenzene                  | 101     | 107      | 70-130  | 5   | 0-30   |            |
| Toluene                       | 100     | 106      | 85-127  | 6   | 0-12   |            |
| Trichloroethene               | 96      | 102      | 78-126  | 6   | 0-10   |            |
| Vinyl Chloride                | 98      | 105      | 56-140  | 7   | 0-21   |            |
| Methyl-t-Butyl Ether (MTBE)   | 99      | 107      | 64-136  | 8   | 0-28   |            |
| Tert-Butyl Alcohol (TBA)      | 104     | 103      | 27-183  | 0   | 0-60   |            |
| Diisopropyl Ether (DIPE)      | 98      | 106      | 78-126  | 8   | 0-16   |            |
| Ethyl-t-Butyl Ether (ETBE)    | 100     | 109      | 67-133  | 9   | 0-21   |            |
| Tert-Amyl-Methyl Ether (TAME) | 99      | 104      | 63-141  | 5   | 0-21   |            |
| Ethanol                       | 119     | 115      | 11-167  | 3   | 0-64   |            |

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate



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

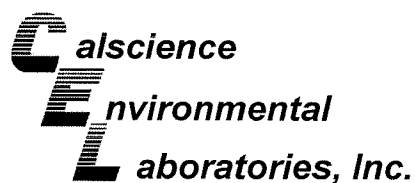
Date Received: N/A  
Work Order No: 08-08-0357  
Preparation: N/A  
Method: EPA TO-15

Project: ARCO Facility No. 2111

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|--------|------------|---------------|---------------|-----------------------|
| 097-09-002-7,460          | Air    | GC/MS NN   | N/A           | 08/06/08      | 080806L01             |

| Parameter    | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|--------------|----------|-----------|---------|-----|--------|------------|
| Benzene      | 115      | 125       | 60-156  | 8   | 0-40   |            |
| Toluene      | 117      | 131       | 56-146  | 11  | 0-43   |            |
| Ethylbenzene | 119      | 133       | 52-154  | 11  | 0-38   |            |
| p/m-Xylene   | 118      | 132       | 42-156  | 11  | 0-41   |            |
| o-Xylene     | 122      | 138       | 52-148  | 12  | 0-38   |            |

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - LCS/LCS Duplicate



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

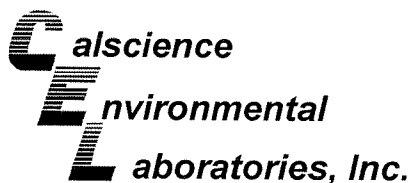
Date Received: N/A  
Work Order No: 08-08-0357  
Preparation: N/A  
Method: EPA TO-15

Project: ARCO Facility No. 2111

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|--------|------------|---------------|---------------|-----------------------|
| 097-09-002-7,463          | Air    | GC/MS K    | N/A           | 08/07/08      | 080807L01             |

| Parameter    | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|--------------|----------|-----------|---------|-----|--------|------------|
| Benzene      | 119      | 117       | 60-156  | 1   | 0-40   |            |
| Toluene      | 110      | 112       | 56-146  | 2   | 0-43   |            |
| Ethylbenzene | 124      | 126       | 52-154  | 2   | 0-38   |            |
| p/m-Xylene   | 115      | 116       | 42-156  | 1   | 0-41   |            |
| o-Xylene     | 120      | 123       | 52-148  | 3   | 0-38   |            |

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

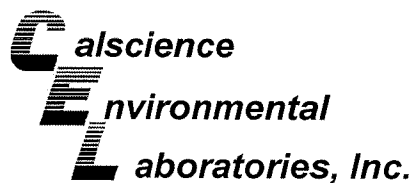
Date Received: N/A  
 Work Order No: 08-08-0357  
 Preparation: EPA 5030B  
 Method: EPA 8015B (M)

Project: ARCO Facility No. 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 099-12-695-223            | Aqueous | GC 4       | 08/06/08      | 08/06/08      | 080806B01             |

| Parameter                        | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|----------------------------------|----------|-----------|---------|-----|--------|------------|
| Gasoline Range Organics (C6-C12) | 85       | 86        | 78-120  | 1   | 0-20   |            |

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
Work Order No: 08-08-0357  
Preparation: EPA 5030B  
Method: EPA 8260B

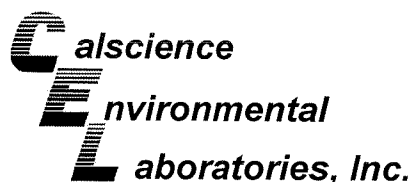
Project: ARCO Facility No. 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 099-12-703-361            | Aqueous | GC/MS Z    | 08/07/08      | 08/07/08      | 080807L01             |

| Parameter                     | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|----------|-----------|---------|-----|--------|------------|
| Benzene                       | 97       | 95        | 87-117  | 2   | 0-7    |            |
| Carbon Tetrachloride          | 102      | 103       | 78-132  | 0   | 0-8    |            |
| Chlorobenzene                 | 97       | 96        | 88-118  | 1   | 0-8    |            |
| 1,2-Dibromoethane             | 99       | 96        | 80-120  | 3   | 0-20   |            |
| 1,2-Dichlorobenzene           | 97       | 95        | 88-118  | 2   | 0-8    |            |
| 1,1-Dichloroethene            | 97       | 97        | 71-131  | 0   | 0-14   |            |
| Ethylbenzene                  | 97       | 97        | 80-120  | 0   | 0-20   |            |
| Toluene                       | 97       | 96        | 85-127  | 1   | 0-7    |            |
| Trichloroethene               | 97       | 98        | 85-121  | 1   | 0-11   |            |
| Vinyl Chloride                | 98       | 99        | 64-136  | 1   | 0-10   |            |
| Methyl-t-Butyl Ether (MTBE)   | 95       | 90        | 67-133  | 6   | 0-16   |            |
| Tert-Butyl Alcohol (TBA)      | 96       | 94        | 34-154  | 2   | 0-19   |            |
| Diisopropyl Ether (DIPE)      | 93       | 92        | 80-122  | 1   | 0-8    |            |
| Ethyl-t-Butyl Ether (ETBE)    | 97       | 92        | 73-127  | 5   | 0-11   |            |
| Tert-Amyl-Methyl Ether (TAME) | 94       | 89        | 69-135  | 5   | 0-12   |            |
| Ethanol                       | 95       | 95        | 34-124  | 0   | 0-44   |            |

RPD - Relative Percent Difference , CL - Control Limit





## Quality Control - LCS/LCS Duplicate



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

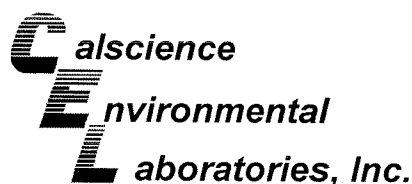
Date Received: N/A  
Work Order No: 08-08-0357  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: ARCO Facility No. 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 099-12-703-378            | Aqueous | GC/MS Z    | 08/13/08      | 08/13/08      | 080813L01             |

| Parameter                     | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|----------|-----------|---------|-----|--------|------------|
| Benzene                       | 108      | 108       | 87-117  | 1   | 0-7    |            |
| Carbon Tetrachloride          | 111      | 109       | 78-132  | 2   | 0-8    |            |
| Chlorobenzene                 | 109      | 108       | 88-118  | 1   | 0-8    |            |
| 1,2-Dibromoethane             | 108      | 114       | 80-120  | 5   | 0-20   |            |
| 1,2-Dichlorobenzene           | 109      | 109       | 88-118  | 1   | 0-8    |            |
| 1,1-Dichloroethene            | 103      | 104       | 71-131  | 1   | 0-14   |            |
| Ethylbenzene                  | 110      | 108       | 80-120  | 1   | 0-20   |            |
| Toluene                       | 109      | 110       | 85-127  | 1   | 0-7    |            |
| Trichloroethene               | 107      | 111       | 85-121  | 4   | 0-11   |            |
| Vinyl Chloride                | 109      | 107       | 64-136  | 2   | 0-10   |            |
| Methyl-t-Butyl Ether (MTBE)   | 107      | 113       | 67-133  | 6   | 0-16   |            |
| Tert-Butyl Alcohol (TBA)      | 109      | 113       | 34-154  | 4   | 0-19   |            |
| Diisopropyl Ether (DIPE)      | 106      | 109       | 80-122  | 2   | 0-8    |            |
| Ethyl-t-Butyl Ether (ETBE)    | 111      | 117       | 73-127  | 5   | 0-11   |            |
| Tert-Amyl-Methyl Ether (TAME) | 112      | 119       | 69-135  | 6   | 0-12   |            |
| Ethanol                       | 97       | 100       | 34-124  | 3   | 0-44   |            |

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate



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

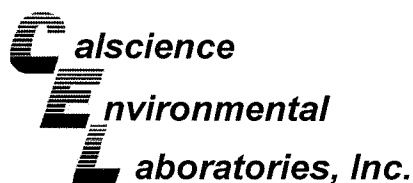
Date Received: N/A  
Work Order No: 08-08-0357  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: ARCO Facility No. 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 099-12-703-388            | Aqueous | GC/MS Z    | 08/14/08      | 08/14/08      | 080814L01             |

| Parameter                     | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|----------|-----------|---------|-----|--------|------------|
| Benzene                       | 101      | 102       | 87-117  | 1   | 0-7    |            |
| Carbon Tetrachloride          | 105      | 104       | 78-132  | 1   | 0-8    |            |
| Chlorobenzene                 | 100      | 101       | 88-118  | 2   | 0-8    |            |
| 1,2-Dibromoethane             | 103      | 102       | 80-120  | 2   | 0-20   |            |
| 1,2-Dichlorobenzene           | 104      | 103       | 88-118  | 0   | 0-8    |            |
| 1,1-Dichloroethene            | 101      | 101       | 71-131  | 1   | 0-14   |            |
| Ethylbenzene                  | 101      | 103       | 80-120  | 2   | 0-20   |            |
| Toluene                       | 100      | 101       | 85-127  | 1   | 0-7    |            |
| Trichloroethene               | 102      | 106       | 85-121  | 4   | 0-11   |            |
| Vinyl Chloride                | 98       | 93        | 64-136  | 5   | 0-10   |            |
| Methyl-t-Butyl Ether (MTBE)   | 112      | 105       | 67-133  | 7   | 0-16   |            |
| Tert-Butyl Alcohol (TBA)      | 103      | 100       | 34-154  | 3   | 0-19   |            |
| Diisopropyl Ether (DIPE)      | 104      | 102       | 80-122  | 2   | 0-8    |            |
| Ethyl-t-Butyl Ether (ETBE)    | 108      | 104       | 73-127  | 4   | 0-11   |            |
| Tert-Amyl-Methyl Ether (TAME) | 105      | 102       | 69-135  | 3   | 0-12   |            |
| Ethanol                       | 101      | 109       | 34-124  | 7   | 0-44   |            |

RPD - Relative Percent Difference , CL - Control Limit



## Glossary of Terms and Qualifiers



Work Order Number: 08-08-0357

| <u>Qualifier</u> | <u>Definition</u>   |
|------------------|---|
| *                | See applicable analysis comment.  |
| 1                | Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.  |
| 2                | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.                              |
| 3                | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.     |
| 4                | The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.   |
| 5                | The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required. |
| 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.   |
| ME               | A Marginal Exceedance (ME) is defined as a LCS percent recovery beyond the normal 3 standard deviation Control Limits but still within the marginal exceedance limits (set at 4 standard deviations from the mean)                                      |
| 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.  |

A handwritten signature in black ink, appearing to be "M. M. M.", is located at the bottom left of the page.



**Chain of Custody Record**

Project Name: **BP Americas > West > Retail > Alameda**  
 BP BU/AR Region/Enfos Segment:  
 State or Lead Regulatory Agency: **Alameda County Environmental Health**  
 Requested Due Date (mm/dd/yy): **24 hours for Effluent & STD for others**

**RUSH**

0357

|                               |                 |
|-------------------------------|-----------------|
| On-site Time: <b>0430</b>     | Temp: <b>40</b> |
| Off-site Time: <b>7630</b>    | Temp:           |
| Sky Conditions: <b>Clouds</b> |                 |
| Meteorological Events:        |                 |
| Wind Speed:                   | Direction:      |

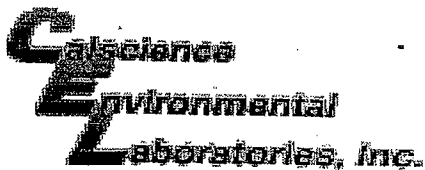
|   |  |   |
|---|--|---|
| Lab Name: <b>Calscience Environmental Laboratories, Inc.</b>    | BP/AR Facility No.: <b>2111</b>                            | Consultant/Contractor: <b>Stratus Environmental, Inc.</b>                 |
| Address: <b>7440 Lincoln Way Garden Grove, CA 92841</b>         | BP/AR Facility Address: <b>1156 Davis St., San Leandro</b> | Address: <b>3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682</b> |
| Lab PM: <b>Linda Scharpenberg</b>                               | Site Lat/Long:   | Consultant/Contractor Project No.: <b>E2111-03</b>                        |
| Tele/Fax: <b>714-895-5494/ 714-895-7501</b>                     | California Global ID No.: <b>T0600101764</b>               | Consultant/Contractor PM: <b>Jay Johnson</b>                              |
| BP/AR PM Contact: <b>Paul Supple</b>                            | Enfos Project No.: <b>G0C28-0029</b>                       | Tele/Fax: <b>(530) 676-6000 / (530) 676-6005</b>                          |
| Address: <b>2010 Crow Canyon Place, Suite 150 San Ramon, CA</b> | Provision or OOC (circle one) <b>Provision</b>             | Report Type & QC Level: <b>Level 1 with EDF</b>                           |
| Tele/Fax: <b>925-275-3506/925-275-3815</b>                      | Phase/WBS: <b>03-O&amp;M</b>                               | E-mail EDD To: <b>shaves@stratusinc.net</b>                               |
|   | Sub Phase/Task: <b>03-Analytical</b>                       | Invoice to: <b>Atlantic Richfield Co.</b>                                 |
|   | Cost Element: <b>Subcontractor Cost</b>                    |   |

| Item No. | Sample Description | Time | Date | Matrix     |              |     | Laboratory No. | No. of Containers | Preservative |                                |                  |     |          | Requested Analysis |      |      |              | Turnaround Time |          | Sample Point Lat/Long and Comments |   |  |
|----------|--------------------|------|------|------------|--------------|-----|----------------|-------------------|--------------|--------------------------------|------------------|-----|----------|--------------------|------|------|--------------|-----------------|----------|------------------------------------|---|--|
|          |                    |      |      | Soil/Solid | Water/Liquid | Air |                |                   | Unpreserved  | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | Methanol | GRO                | BTEX | MTBE | 5-oxygenates | 24-hours        | Standard |                                    |   |  |
| 1        | 02111DPEAINF       | 0619 | 8/26 |            | x            |     |                | 2                 | x            |                                |                  |     |          |                    | x    | x    | x            |                 |          |                                    | 5-oxygenates requested are MTBE, DIPE, ETBE, TAME, and TBA. |  |
| 2        | 02111ASAEFF        | 0613 |      |            | x            |     |                | 2                 | x            |                                |                  |     |          |                    | x    | x    | x            |                 |          |                                    |   |  |
| 3        | 02111ASYSINF       | 0611 |      |            | x            |     |                | 2                 | x            |                                |                  |     |          |                    | x    | x    | x            |                 |          |                                    |   |  |
| 4        | 02111AGAC1         | 0609 |      |            | x            |     |                | 2                 | x            |                                |                  |     |          |                    | x    | x    | x            |                 |          |                                    |   |  |
| 5        | 02111AEFF          | 0607 |      |            | x            |     |                | 2                 | x            |                                |                  |     |          |                    | x    | x    | x            |                 |          |                                    |   |  |
| 6        | 02111DPEWINF       | 0515 |      |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            |                 |          |                                    |   |  |
| 7        | 02111ASWINF        | 0537 |      |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            |                 |          |                                    |   |  |
| 8        | 02111ASWEFF        | 0525 |      |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            |                 |          |                                    |   |  |
| 9        | 02111WGAC1         | 0525 |      |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            |                 |          |                                    |   |  |
| 10       | 02111WEFF          | 0519 |      |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            |                 |          |                                    |   |  |
| 11       | 02111MW2WINF       | 0600 |      |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            |                 |          |                                    |   |  |
|          | 7B2418508          | 0608 |      |            | x            |     |                | 2                 |              |                                |                  |     |          |                    |      |      |              |                 |          |                                    | Hold  |  |

|   |  |                      |                   |   |                      |                   |
|---|--|----------------------|-------------------|---|----------------------|-------------------|
| Sampler's Name: <b>Chris Hill</b>       | Relinquished By / Affiliation: <b>Chris Hill Stratus</b> | Date: <b>8/26/08</b> | Time: <b>1000</b> | Accepted By / Affiliation: <b>[Signature]</b> | Date: <b>8/26/08</b> | Time: <b>1000</b> |
| Shipment Date: <b>8/20/08</b>           |  |                      |                   |   |                      |                   |
| Shipment Method: <b>CSO</b>             |  |                      |                   |   |                      |                   |
| Shipment Tracking No: <b>9255261770</b> |  |                      |                   |   |                      |                   |

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



WORK ORDER #: 08 - 08 - 0357

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Skratw

DATE: 8/6/08

TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

LABORATORY (Other than 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 (For Air & Filter Only).
C Temperature blank.

- 3.8 C Temperature blank.
C IR Thermometer.
Ambient temperature (For Air & Filter Only).

Initial: JP

CUSTODY SEAL INTACT:

Sample(s): Cooler: [checked] No (Not Intact): Not Present:

Initial: JP

SAMPLE CONDITION:

Table with 4 columns: Item, Yes, No, N/A. Rows include Chain-Of-Custody document(s), Sampler's name, Sample container label(s), Sample container(s) intact, Correct containers and volume, Proper preservation, VOA vial(s) free of headspace, Tedlar bag(s) free of condensation.

Initial: JP

COMMENTS:

(-8) 02111ASWEFF RECEIVED 7 VIALS INSTEAD OF 6

(-9) 02111WGACI RECEIVED 5 VIALS INSTEAD OF 6 - 08/06/08 PS



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

October 10, 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:* 4 (September 2, 10, 17 and 24, 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 September 2 and 11, 2008.

*Variations from Scope of Work:* The remediation systems were found non-functioning on September 2, 2008, due to high-water level alarm either in the air stripper tank or in the oil-water separator. The remediation systems were re-started momentarily on September 2, 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 September 10, 2008.

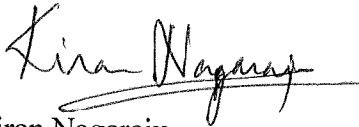
Due to excessive cementing of the carbon that caused back pressure on the transfer pump, a carbon sample (liquid phase) was collected on September 10, 2008, for profiling and disposal

purposes. A carbon change-out for the liquid phase carbon vessels is currently scheduled to be conducted on October 2, 2008.

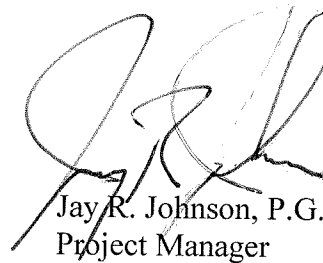
The attachments include field data sheets, chain of custody documentation, and the certified analytical results. The information is being provided to BP-ARCO's Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does 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: 9208  
 Onsite Time: 0630  
 Offsite Time: 1015  
 Equipment Manufacturer/Model# \_\_\_\_\_

Technician: CHILL  
 Weather Conditions: Clear  
 Ambient Temperature: 60

| System Information                       |                |                          |   |
|--|----------------|--------------------------|---|
| System Status Upon Arrival:              | Operational    | <input type="checkbox"/> | Non-Operational <input checked="" type="checkbox"/> High Hz |
| System Status Upon Departure:            | Operational    | <input type="checkbox"/> | Non-Operational <input checked="" type="checkbox"/>         |
| Electric Meter Reading:                  | <u>NM</u>      |                          | Wait For Samples  |
| Hour Meter Reading:                      | <u>2275</u>    |                          |   |
| Totalizer Reading Prior to Air Stripper: | <u>490741</u>  | PID Calibration Date:    | <u>9208</u>   |
| Totalizer Reading After Air Stripper:    | <u>1088240</u> |                          |   |

| Field Measurements          |  |                              |                                     |                                 |                         |  |
|-----------------------------|--|------------------------------|-------------------------------------|---------------------------------|-------------------------|--|
| Parameter                   | Influent<br>(after blower,<br>2111DPEAINF) | Air Stripper<br>(2111ASAEFF) | System<br>Influent<br>(2111ASYSINF) | Stack Air<br>Flow<br>(2111AEFF) | Comments                |  |
| Differential Pressure, "wc  |  | <u>24"</u>                   |                                     |                                 |                         |  |
| Air Velocity, FPM           |  | <u>2500</u>                  |                                     |                                 |                         |  |
| Pipe Diameter, inches       |  |                              |                                     |                                 |                         |  |
| Air Flow Rate, cfm          |  |                              | <u>180</u>                          |                                 |                         |  |
| Applied Vacuum, "wc         | <u>22" Hg</u>                              | <u>28"</u>                   | NA                                  | NA                              |                         |  |
| Temperature, deg F          |  | <u>139</u>                   | <u>125</u>                          |                                 |                         |  |
| PID Readings, ppmv          | <u>100</u>                                 | <u>1</u>                     | <u>46</u>                           | <u>0</u>                        | PID for GAC-1: <u>0</u> |  |
| Other Readings/Measurements |  |                              |                                     |                                 |                         |  |
| Well ID                     | % Open                                     | Applied Vac.,<br>"Hg         | Total depth,<br>feet bgs            | Stinger Depth,<br>feet bgs      |                         |  |
| V-1                         | <u>50</u>                                  | <u>15</u>                    |                                     |                                 |                         |  |
| V-2                         | <u>50</u>                                  | <u>15</u>                    |                                     |                                 |                         |  |
| V-3                         | <u>50</u>                                  | <u>15</u>                    |                                     |                                 |                         |  |
| MW-1                        | <u>0</u>                                   |                              |                                     |                                 |                         |  |
| MW-3                        | <u>100</u>                                 | <u>15</u>                    |                                     |                                 |                         |  |
| MW-7                        | <u>100</u>                                 | <u>15</u>                    |                                     |                                 |                         |  |
| MW-8                        | <u>0</u>                                   |                              |                                     |                                 |                         |  |

Signature: Chill

Date: 9208





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

**ORIGINAL**

Date: 9/20/08  
 Onsite Time: 0920  
 Offsite Time: 1017

Technician: CITILL  
 Weather Conditions: CLM  
 Ambient Temperature: 60

System Status Upon Arrival:  Operational  Non-operational High H<sub>2</sub>O  
 System Status At Departure:  Operational  Non-operational Wait for samples  
 Transfer Pump:  Operational  Non-operational

Transfer Pump Hour Meter Reading: \_\_\_\_\_

Effluent Flow Totalizer Reading: 1052669  
 No. of Carbon Vessels: 2  
 Lead Carbon Vessel Pressure (psi): 25

| Effluent Water Characteristics<br>(Quarterly by Field Instrument) |             |
|---|-------------|
| pH:   | <u>7.5</u>  |
| Temperature: °C   | <u>22.1</u> |

| Well ID | Hour Meter Reading | Totalizer Reading | Total Depth | Pump Depth |
|---------|--------------------|-------------------|-------------|------------|
| MW-2    |                    | <u>291267</u>     |             |            |
|         |                    |                   |             |            |

| Sampling Information |                     |                       |                     |
|----------------------|---------------------|-----------------------|---------------------|
| Sample ID            | Date & Time         | Sample ID             | Date & Time         |
| 02111DPEWINF         | <u>9/20/08 0920</u> | 02111MW2WINF          | <u>9/20/08 0925</u> |
| 02111ASWINF          | <u>0915</u>         |                       |                     |
| 02111ASWEFF          | <u>0906</u>         |                       |                     |
| 02111WGAC1           | <u>0903</u>         |                       |                     |
| 02111WEFF            | <u>0900</u>         |                       |                     |
|                      |                     | <u>TBZ111 9/20/08</u> | <u>0930</u>         |

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

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Signature: [Signature] Date: 9/20/08

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

**ORIGINAL**

Date: 9/10/08  
 Onsite Time: 1230  
 Offsite Time: 1332  
 Equipment Manufacturer/Model#: \_\_\_\_\_

Technician: CHILL  
 Weather Conditions: Clear  
 Ambient Temperature: 70

| System Information                       |                     |                                     |   |
|--|---------------------|-------------------------------------|---|
| System Status Upon Arrival:              | Operational         | <input type="checkbox"/>            | Non-Operational <input checked="" type="checkbox"/> |
| System Status Upon Departure:            | Operational         | <input checked="" type="checkbox"/> | Non-Operational <input type="checkbox"/>            |
| Electric Meter Reading:                  | <u>NM</u>           |                                     |   |
| Hour Meter Reading:                      | <u>2270</u>         |                                     |   |
| Totalizer Reading Prior to Air Stripper: | <u>Batters Dead</u> | PID Calibration Date:               | <u>9-9-08</u>                                       |
| Totalizer Reading After Air Stripper:    | <u>1088440</u>      |                                     |   |

| Field Measurements          |  |                              |                                     |                                 |                         |  |
|-----------------------------|--|------------------------------|-------------------------------------|---------------------------------|-------------------------|--|
| Parameter                   | Influent<br>(after blower,<br>2111DPEAINF) | Air Stripper<br>(2111ASAEFF) | System<br>Influent<br>(2111ASYSINF) | Stack Air<br>Flow<br>(2111AEFF) | Comments                |  |
| Differential Pressure, "wc  |  | <u>24</u>                    |                                     |                                 |                         |  |
| Air Velocity, FPM           |  | <u>2133</u>                  |                                     |                                 |                         |  |
| Pipe Diameter, inches       |  | <u>4</u>                     | <u>4</u>                            |                                 |                         |  |
| Air Flow Rate, cfm          |  |                              | <u>180</u>                          |                                 |                         |  |
| Applied Vacuum, "wc         | <u>20" Hg</u>                              | <u>.40</u>                   | NA                                  | NA                              |                         |  |
| Temperature, deg F          |  | <u>132</u>                   | <u>100</u>                          |                                 |                         |  |
| PID Readings, ppmv          | <u>122</u>                                 | <u>1</u>                     | <u>51</u>                           | <u>2</u>                        | PID for GAC-1: <u>2</u> |  |
| Other Readings/Measurements |  |                              |                                     |                                 |                         |  |
| Well ID                     | % Open                                     | Applied Vac.,<br>"Hg         | Total depth,<br>feet bgs            | Stinger Depth,<br>feet bgs      |                         |  |
| V-1                         | <u>50</u>                                  | <u>19</u>                    |                                     |                                 |                         |  |
| V-2                         | <u>50</u>                                  | <u>19</u>                    |                                     |                                 |                         |  |
| V-3                         | <u>50</u>                                  | <u>19</u>                    |                                     |                                 |                         |  |
| MW-1                        | <u>2</u>                                   |                              |                                     |                                 |                         |  |
| MW-3                        | <u>200</u>                                 | <u>20</u>                    |                                     |                                 |                         |  |
| MW-7                        | <u>100</u>                                 | <u>19</u>                    |                                     |                                 |                         |  |
| MW-8                        | <u>2</u>                                   |                              |                                     |                                 |                         |  |

Signature: [Signature]

Date: 9/10/08

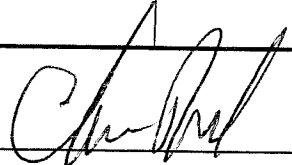
ARCO FACILITY NO. 2111  
 1156 Davis Street  
 San Leandro, California  
 Dual Phase Extraction and Air Stripper System



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

| Operation & Maintenance Notes                            |
|--|
|  |
| <i>Need 2" Hoses for H<sub>2</sub>O Carbons</i>          |
| <i>2" x 5' Female 2" CAMS BOTH ENDS</i>                  |
|  |
| <i>Collect Carbon Sample from H<sub>2</sub>O Carbons</i> |
|  |
|  |
|  |
|  |
|  |
|  |
|  |

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

Signature: 

Date: 9/10/08

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

ORIGINAL

Date: 9/10/08  
 Onsite Time: 12:30  
 Offsite Time: 1:32

Technician: CHILL  
 Weather Conditions: Clear  
 Ambient Temperature: 20

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

*Restart After sample*

Transfer Pump Hour Meter Reading: \_\_\_\_\_

Effluent Flow Totalizer Reading: 1052851

No. of Carbon Vessels: 2

Lead Carbon Vessel Pressure (psi): 2.2

|  |
|--|
| <b>Effluent Water Characteristics</b><br>(Quarterly by Field Instrument) |
| pH: _____  |
| Temperature: _____   |

| Well ID | Hour Meter Reading | Totalizer Reading | Total Depth | Pump Depth |
|---------|--------------------|-------------------|-------------|------------|
| MW-2    |                    | <u>291287</u>     |             |            |
|         |                    |                   |             |            |
|         |                    |                   |             |            |

| 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:

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Signature: *[Handwritten Signature]*

Date: 9/10/08



Date: 9/17/08  
 Onsite Time: 0700  
 Offsite Time: 0905  
 Equipment Manufacturer/Model#: \_\_\_\_\_

Technician: CHILL  
 Weather Conditions: cloudy  
 Ambient Temperature: 50

| System Information                       |   |
|--|---|
| System Status Upon Arrival:              | Operational <input type="checkbox"/> Non-Operational <input checked="" type="checkbox"/> <i>High 1420</i> |
| System Status Upon Departure:            | Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>                  |
| Electric Meter Reading:                  | <u>NM</u>   |
| Hour Meter Reading:                      | <u>2285</u>   |
| Totalizer Reading Prior to Air Stripper: | <u>NOT Reading</u> PID Calibration Date: <u>9/17/08</u>   |
| Totalizer Reading After Air Stripper:    | <u>1091960</u>  |

| Field Measurements         |  |                              |                                     |                                 |                         |
|----------------------------|--|------------------------------|-------------------------------------|---------------------------------|-------------------------|
| Parameter                  | Influent<br>(after blower,<br>2111DPEAINF) | Air Stripper<br>(2111ASAEFF) | System<br>Influent<br>(2111ASYSINF) | Stack Air<br>Flow<br>(2111AEFF) | Comments                |
| Differential Pressure, "wc |  | <u>0.20</u>                  |                                     |                                 |                         |
| Air Velocity, FPM          |  | <u>2078</u>                  |                                     |                                 |                         |
| Pipe Diameter, inches      |  |                              |                                     |                                 |                         |
| Air Flow Rate, cfm         |  |                              | <u>180</u>                          |                                 |                         |
| Applied Vacuum, "wc        | <u>20" Hg</u>                              | <u>.40</u>                   | NA                                  | NA                              |                         |
| Temperature, deg F         |  | <u>102</u>                   | <u>90</u>                           |                                 |                         |
| PID Readings, ppmv         | <u>100</u>                                 | <u>1</u>                     | <u>50</u>                           | <u>0</u>                        | PID for GAC-1: <u>0</u> |

| Other Readings/Measurements |            |                      |                          |                            |  |  |
|-----------------------------|------------|----------------------|--------------------------|----------------------------|--|--|
| Well ID                     | % Open     | Applied Vac.,<br>"Hg | Total depth,<br>feet bgs | Stinger Depth,<br>feet bgs |  |  |
| V-1                         | <u>50</u>  | <u>16</u>            |                          |                            |  |  |
| V-2                         | <u>50</u>  | <u>16</u>            |                          |                            |  |  |
| V-3                         | <u>50</u>  | <u>16</u>            |                          |                            |  |  |
| MW-1                        | <u>0</u>   |                      |                          |                            |  |  |
| MW-3                        | <u>100</u> | <u>18</u>            |                          |                            |  |  |
| MW-7                        | <u>100</u> | <u>18</u>            |                          |                            |  |  |
| <u>MW 5</u>                 | <u>0</u>   |                      |                          |                            |  |  |

Signature: [Handwritten Signature]

Date: 9/17/08



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

**ORIGINAL**

Date: 9/17/08  
 Onsite Time: 0700  
 Offsite Time: 0805

Technician: CHU  
 Weather Conditions: Cloudy  
 Ambient Temperature: 50

System Status Upon Arrival:  Operational  Non-operational High H<sub>2</sub>O  
 System Status At Departure:  Operational  Non-operational  
 Transfer Pump:  Operational  Non-operational

Transfer Pump Hour Meter Reading: \_\_\_\_\_

Effluent Flow Totalizer Reading: 1056514

No. of Carbon Vessels: 2

Lead Carbon Vessel Pressure (psi): 20

| Effluent Water Characteristics<br>(Quarterly by Field Instrument) |       |
|---|-------|
| pH:   | _____ |
| Temperature:  | _____ |

| Well ID | Hour Meter Reading | Totalizer Reading | Total Depth | Pump Depth |
|---------|--------------------|-------------------|-------------|------------|
| MW-2    |                    | <u>292267</u>     |             |            |
|         |                    |                   |             |            |
|         |                    |                   |             |            |

| 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: [Handwritten Signature]

Date: 9/17/08



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

ORIGINAL

Date: 92408  
 Onsite Time: 0715  
 Offsite Time: 0500  
 Equipment Manufacturer/Model# \_\_\_\_\_

Technician: CHILL  
 Weather Conditions: Clear  
 Ambient Temperature: 60

| System Information                       |   |
|--|---|
| System Status Upon Arrival:              | Operational <input type="checkbox"/> Non-Operational <input checked="" type="checkbox"/> <i>High Tank</i> |
| System Status Upon Departure:            | Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>                  |
| Electric Meter Reading:                  | <u>None</u>   |
| Hour Meter Reading:                      | <u>2287</u>   |
| Totalizer Reading Prior to Air Stripper: | <u>Install New Buttons Not Reading will start over at 00000</u>   |
| Totalizer Reading After Air Stripper:    | <u>1092750</u>  |
| PID Calibration Date:                    | <u>92208</u>  |

| Field Measurements          |  |                              |                                  |                              |  |
|-----------------------------|--|------------------------------|----------------------------------|------------------------------|--|
| Parameter                   | Influent<br>(after blower,<br>2111DPEAINF) | Air Stripper<br>(2111ASAEFF) | System Influent<br>(2111ASYSINF) | Stack Air Flow<br>(2111AEFF) | Comments   |
| Differential Pressure, "wc  |  | <u>22</u>                    |                                  |                              |  |
| Air Velocity, FPM           |  | <u>2110</u>                  |                                  |                              |  |
| Pipe Diameter, inches       |  | <u>4</u>                     |                                  |                              |  |
| Air Flow Rate, cfm          |  |                              | <u>180</u>                       |                              |  |
| Applied Vacuum, "wc         | <u>20" Hg</u>                              | <u>.36</u>                   | NA                               | NA                           |  |
| Temperature, deg F          |  | <u>90</u>                    | <u>80</u>                        |                              |  |
| PID Readings, ppmv          | <u>120</u>                                 | <u>0</u>                     | <u>80</u>                        | <u>0</u>                     | PID for GAC-1: <input checked="" type="checkbox"/> |
| Other Readings/Measurements |  |                              |                                  |                              |  |
| Well ID                     | % Open                                     | Applied Vac.,<br>"Hg         | Total depth,<br>feet bgs         | Stinger Depth,<br>feet bgs   |  |
| V-1                         | <u>50</u>                                  | <u>17</u>                    |                                  |                              |  |
| V-2                         | <u>50</u>                                  | <u>16</u>                    |                                  |                              |  |
| V-3                         | <u>50</u>                                  | <u>17</u>                    |                                  |                              |  |
| MW-1                        | <u>0</u>                                   |                              |                                  |                              |  |
| MW-3                        | <u>100</u>                                 | <u>18</u>                    |                                  |                              |  |
| MW-7                        | <u>100</u>                                 | <u>17</u>                    |                                  |                              |  |
| MW-8                        | <u>0</u>                                   |                              |                                  |                              |  |

Signature: *Chill*

Date: 92408



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

 ORIGINAL

Date: 924-08  
 Onsite Time: 0715  
 Offsite Time: 0900

Technician: CHIL  
 Weather Conditions: Clear  
 Ambient Temperature: 60

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: 1056950

No. of Carbon Vessels: 2

Lead Carbon Vessel Pressure (psi): 24

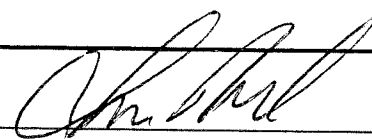
| Effluent Water Characteristics<br>(Quarterly by Field Instrument) |       |
|---|-------|
| pH:   | _____ |
| Temperature:  | _____ |

| Well ID | Hour Meter Reading | Totalizer Reading | Total Depth | Pump Depth |
|---------|--------------------|-------------------|-------------|------------|
| MW-2    |                    | <u>292463</u>     |             |            |
|         |                    |                   |             |            |
|         |                    |                   |             |            |

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

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

Notes:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Signature: 

Date: 92408



# 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: Alameda County Environmental Health  
 Requested Due Date (mm/dd/yy): 24 hours for Effluent & STD for others



|                              |                 |
|------------------------------|-----------------|
| On-site Time: <u>0830</u>    | Temp: <u>60</u> |
| Off-site Time: <u>1015</u>   | Temp: <u>70</u> |
| Sky Conditions: <u>Clear</u> |                 |
| 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.

| Item No. | Sample Description | Time | Date | Matrix     |              |     | Laboratory No. | No. of Containers | Preservative |                                |                  |     |          | Requested Analysis |      |      |              | Turnaround Time |          | Sample Point Lat/Long and Comments |   |  |
|----------|--------------------|------|------|------------|--------------|-----|----------------|-------------------|--------------|--------------------------------|------------------|-----|----------|--------------------|------|------|--------------|-----------------|----------|------------------------------------|---|--|
|          |                    |      |      | Soil/Solid | Water/Liquid | Air |                |                   | Unpreserved  | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | Methanol | GRO                | BTEX | MTBE | 5-oxygenates | 24-hours        | Standard |                                    |   |  |
| 1        | 02111DPEAINF       | 0943 | 9/25 |            |              | x   |                | 2                 | x            |                                |                  |     |          |                    | x    | x    | x            |                 |          |                                    | 5-oxygenates requested are MTBE, DIPE, ETBE, TAME, and TBA. |  |
| 2        | 02111ASAEFF        | 0944 |      |            |              | x   |                | 2                 | x            |                                |                  |     |          |                    | x    | x    | x            |                 |          |                                    |   |  |
| 3        | 02111ASYSINF       | 0939 |      |            |              | x   |                | 2                 | x            |                                |                  |     |          |                    | x    | x    | x            |                 |          |                                    |   |  |
| 4        | 02111AGAC1         | 0937 |      |            |              | x   |                | 2                 | x            |                                |                  |     |          |                    | x    | x    | x            |                 |          |                                    |   |  |
| 5        | 02111AEFF          | 0935 |      |            |              | x   |                | 2                 | x            |                                |                  |     |          |                    | x    | x    | x            |                 |          |                                    |   |  |
| 6        | 02111DPEWINF       | 0920 |      |            | x            |     |                | 6                 |              |                                |                  |     |          |                    | x    |      |              |                 |          |                                    |   |  |
| 7        | 02111ASWINF        | 0915 |      |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            |                 |          |                                    |   |  |
| 8        | 02111ASWEFF        | 0906 |      |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            |                 |          |                                    |   |  |
| 9        | 02111WGAC1         | 0903 |      |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            |                 |          |                                    |   |  |
| 10       | 02111WEFF          | 0900 |      |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            |                 |          |                                    |   |  |
| 11       | 02111MW2WINF       | 0925 |      |            | x            |     |                | 6                 |              |                                |                  |     |          | x                  | x    |      | x            |                 |          |                                    |   |  |
|          | IB21119208         | 0930 | 9/28 |            | x            |     |                | 2                 |              |                                |                  |     |          |                    |      |      |              |                 |          |                                    |   |  |

Sampler's Name: Chris Hill  
 Sampler's Company: Stratus Environmental, Inc.  
 Shipment Date: 9/25/08  
 Shipment Method: CSU  
 Shipment Tracking No:

Relinquished By / Affiliation: [Signature] Stratus Date: 9/25/08 Time: 1000  
 Accepted By / Affiliation: [Signature] Stratus Date: Time:

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

## 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: Alameda County Environmental Health  
 Requested Due Date (mm/dd/yy): 24 hours for Effluent & STD for others

**ORIGINAL**  
**RUSH**

|                              |                 |
|------------------------------|-----------------|
| On-site Time: <u>1200</u>    | Temp: <u>85</u> |
| Off-site Time: <u>1300</u>   | Temp: <u>81</u> |
| Sky Conditions: <u>Clear</u> |                 |
| Meteorological Events:       |                 |
| Wind Speed:                  | Direction:      |

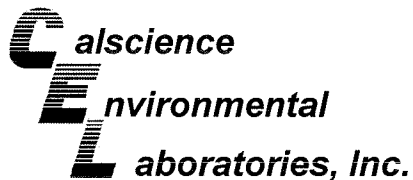
|   |  |   |
|---|--|---|
| Lab Name: <u>Calscience Environmental Laboratories, Inc.</u>    | BP/AR Facility No.: <u>2111</u>                            | Consultant/Contractor: <u>Stratus Environmental, Inc.</u>                 |
| Address: <u>7440 Lincoln Way Garden Grove, CA 92841</u>         | BP/AR Facility Address: <u>1156 Davis St., San Leandro</u> | Address: <u>3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682</u> |
| Lab PM: <u>Linda Scharpenberg</u>                               | Site Lat/Long:   |   |
| Tele/Fax: <u>714-895-5494/ 714-895-7501</u>                     | California Global ID No.: <u>T0600101764</u>               | Consultant/Contractor Project No.: <u>E2111-03</u>                        |
| BP/AR PM Contact: <u>Paul Sipple</u>                            | Enfos Project No.: <u>G0C28-0029</u>                       | Consultant/Contractor PM: <u>Jay Johnson</u>                              |
| Address: <u>2010 Crow Canyon Place, Suite 150 San Ramon, CA</u> | Provision or OOC (circle one) <u>Provision</u>             | Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>                          |
| Tele/Fax: <u>925-275-3506/925-275-3815</u>                      | Phase/WBS: <u>03-O&amp;M</u>                               | Report Type & QC Level: <u>Level 1 with EDF</u>                           |
|   | Sub Phase/Task: <u>03-Analytical</u>                       | E-mail EDD To: <u>shayes@stratusinc.net</u>                               |
|   | Cost Element: <u>Subcontractor Cost</u>                    | Invoice to: <u>Atlantic Richfield Co.</u>                                 |

| Item No. | Sample Description | Time | Date    | Matrix     |              |     | Laboratory No. | No. of Containers | Preservative |                                |                  |     |          | Requested Analysis |          |  | Turnaround Time |  |  | Sample Point Lat/Long and Comments   |
|----------|--------------------|------|---------|------------|--------------|-----|----------------|-------------------|--------------|--------------------------------|------------------|-----|----------|--------------------|----------|--|-----------------|--|--|--|
|          |                    |      |         | Soil/Solid | Water/Liquid | Air |                |                   | Unpreserved  | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | Methanol | TCLP by §260       | Standard |  |                 |  |  |  |
| 1        | Carbon sample      | 1245 | 9/10/08 | x          |              |     |                | 1                 | x            |                                |                  |     |          | x                  |          |  |                 |  |  | TCLP includes analysis for vinyl chloride, 1,2-dichloroethene, chloroform, 1,2-dichloroethane, methyl ethyl ketone butanone, carbon tetrachloride, trichloroethene, benzene, tetrachloroethene, and chlorobenzene. |
| 2        |                    |      |         |            |              |     |                |                   |              |                                |                  |     |          |                    |          |  |                 |  |  |  |
| 3        |                    |      |         |            |              |     |                |                   |              |                                |                  |     |          |                    |          |  |                 |  |  |  |
| 4        |                    |      |         |            |              |     |                |                   |              |                                |                  |     |          |                    |          |  |                 |  |  |  |
| 5        |                    |      |         |            |              |     |                |                   |              |                                |                  |     |          |                    |          |  |                 |  |  |  |
| 6        |                    |      |         |            |              |     |                |                   |              |                                |                  |     |          |                    |          |  |                 |  |  |  |
| 7        |                    |      |         |            |              |     |                |                   |              |                                |                  |     |          |                    |          |  |                 |  |  |  |
| 8        |                    |      |         |            |              |     |                |                   |              |                                |                  |     |          |                    |          |  |                 |  |  |  |
| 9        |                    |      |         |            |              |     |                |                   |              |                                |                  |     |          |                    |          |  |                 |  |  |  |
| 10       |                    |      |         |            |              |     |                |                   |              |                                |                  |     |          |                    |          |  |                 |  |  |  |
| 11       |                    |      |         |            |              |     |                |                   |              |                                |                  |     |          |                    |          |  |                 |  |  |  |

|   |   |                      |                   |   |       |       |
|---|---|----------------------|-------------------|---|-------|-------|
| Sampler's Name: <u>Chris Hill</u>                     | Relinquished By / Affiliation: <u>[Signature]</u> | Date: <u>9/11/08</u> | Time: <u>1200</u> | Accepted By / Affiliation: <u>[Signature]</u> | Date: | Time: |
| Sampler's Company: <u>Stratus Environmental, Inc.</u> |   |                      |                   |   |       |       |
| Shipment Date: <u>9-11-08</u>                         |   |                      |                   |   |       |       |
| Shipment Method: <u>050</u>                           |   |                      |                   |   |       |       |
| Shipment Tracking No:                                 |   |                      |                   |   |       |       |

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

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



September 17, 2008

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

Subject: **Calscience Work Order No.: 08-09-0162**  
Client Reference: **ARCO Facility No. 2111**

Dear Client:

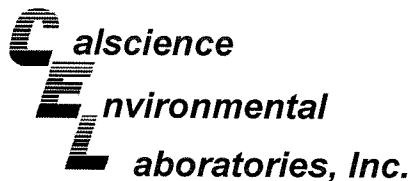
Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/3/2008 and analyzed in accordance with the attached chain-of-custody.

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



Analytical Report



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

Date Received: 09/03/08  
Work Order No: 08-09-0162  
Preparation: N/A  
Method: EPA TO-15  
Units: mg/m3

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 |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111DPEAINF         | 08-09-0162-1-A    | 09/02/08 09:43      | Air    | GC/MS NN   | N/A           | 09/04/08 03:12     | 080903L01   |

| Parameter              | Result  | RL             | DF  | Qual | Parameter                   | Result  | RL             | DF  | Qual |
|------------------------|---------|----------------|-----|------|-----------------------------|---------|----------------|-----|------|
| Benzene                | 1.3     | 0.24           | 150 |      | Xylenes (total)             | 9.4     | 1.3            | 150 |      |
| Toluene                | 0.77    | 0.28           | 150 |      | Methyl-t-Butyl Ether (MTBE) | 22      | 1.1            | 150 |      |
| Ethylbenzene           | 3.8     | 0.33           | 150 |      |                             |         |                |     |      |
| Surrogates:            | REC (%) | Control Limits |     | Qual | Surrogates:                 | REC (%) | Control Limits |     | Qual |
| 1,4-Bromofluorobenzene | 99      | 57-129         |     |      | 1,2-Dichloroethane-d4       | 95      | 47-137         |     |      |
| Toluene-d8             | 103     | 78-156         |     |      |                             |         |                |     |      |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111ASAEFF          | 08-09-0162-2-A    | 09/02/08 09:41      | Air    | GC/MS NN   | N/A           | 09/03/08 23:59     | 080903L01   |

| Parameter              | Result  | RL             | DF | Qual | Parameter                   | Result  | RL             | DF | Qual |
|------------------------|---------|----------------|----|------|-----------------------------|---------|----------------|----|------|
| Benzene                | 0.0043  | 0.0016         | 1  |      | Xylenes (total)             | 0.015   | 0.0087         | 1  |      |
| Toluene                | 0.014   | 0.0019         | 1  |      | Methyl-t-Butyl Ether (MTBE) | 1.1     | 0.12           | 16 |      |
| Ethylbenzene           | 0.0042  | 0.0022         | 1  |      |                             |         |                |    |      |
| Surrogates:            | REC (%) | Control Limits |    | Qual | Surrogates:                 | REC (%) | Control Limits |    | Qual |
| 1,4-Bromofluorobenzene | 101     | 57-129         |    |      | 1,2-Dichloroethane-d4       | 92      | 47-137         |    |      |
| Toluene-d8             | 97      | 78-156         |    |      |                             |         |                |    |      |

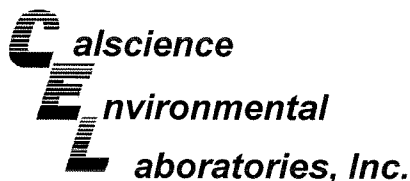
| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111ASYSINF         | 08-09-0162-3-A    | 09/02/08 09:39      | Air    | GC/MS NN   | N/A           | 09/04/08 04:02     | 080903L01   |

| Parameter              | Result  | RL             | DF | Qual | Parameter                   | Result  | RL             | DF | Qual |
|------------------------|---------|----------------|----|------|-----------------------------|---------|----------------|----|------|
| Benzene                | 0.67    | 0.13           | 80 |      | Xylenes (total)             | 4.0     | 0.69           | 80 |      |
| Toluene                | 0.31    | 0.15           | 80 |      | Methyl-t-Butyl Ether (MTBE) | 13      | 0.58           | 80 |      |
| Ethylbenzene           | 1.9     | 0.17           | 80 |      |                             |         |                |    |      |
| Surrogates:            | REC (%) | Control Limits |    | Qual | Surrogates:                 | REC (%) | Control Limits |    | Qual |
| 1,4-Bromofluorobenzene | 93      | 57-129         |    |      | 1,2-Dichloroethane-d4       | 96      | 47-137         |    |      |
| Toluene-d8             | 104     | 78-156         |    |      |                             |         |                |    |      |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111AGAC1           | 08-09-0162-4-A    | 09/02/08 09:37      | Air    | GC/MS NN   | N/A           | 09/04/08 00:48     | 080903L01   |

| Parameter              | Result  | RL             | DF | Qual | Parameter                   | Result  | RL             | DF | Qual |
|------------------------|---------|----------------|----|------|-----------------------------|---------|----------------|----|------|
| Benzene                | ND      | 0.0016         | 1  |      | Xylenes (total)             | ND      | 0.0087         | 1  |      |
| Toluene                | 0.0077  | 0.0019         | 1  |      | Methyl-t-Butyl Ether (MTBE) | ND      | 0.0072         | 1  |      |
| Ethylbenzene           | ND      | 0.0022         | 1  |      |                             |         |                |    |      |
| Surrogates:            | REC (%) | Control Limits |    | Qual | Surrogates:                 | REC (%) | Control Limits |    | Qual |
| 1,4-Bromofluorobenzene | 100     | 57-129         |    |      | 1,2-Dichloroethane-d4       | 94      | 47-137         |    |      |
| Toluene-d8             | 97      | 78-156         |    |      |                             |         |                |    |      |

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



Analytical Report



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

Date Received: 09/03/08  
Work Order No: 08-09-0162  
Preparation: N/A  
Method: EPA TO-15  
Units: mg/m3

Project: ARCO Facility No. 2111

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111AEFF            | 08-09-0162-5-A    | 09/02/08 09:35      | Air    | GC/MS NN   | N/A           | 09/03/08 23:06     | 080903L01   |

| Parameter              | Result  | RL             | DF | Qual | Parameter                   | Result  | RL             | DF | Qual |
|------------------------|---------|----------------|----|------|-----------------------------|---------|----------------|----|------|
| Benzene                | ND      | 0.0016         | 1  |      | Xylenes (total)             | ND      | 0.0087         | 1  |      |
| Toluene                | 0.0065  | 0.0019         | 1  |      | Methyl-t-Butyl Ether (MTBE) | ND      | 0.0072         | 1  |      |
| Ethylbenzene           | ND      | 0.0022         | 1  |      |                             |         |                |    |      |
| Surrogates:            | REC (%) | Control Limits |    | Qual | Surrogates:                 | REC (%) | Control Limits |    | Qual |
| 1,4-Bromofluorobenzene | 99      | 57-129         |    |      | 1,2-Dichloroethane-d4       | 95      | 47-137         |    |      |
| Toluene-d8             | 100     | 78-156         |    |      |                             |         |                |    |      |

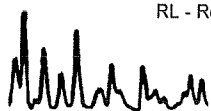
| Method Blank | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|--------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| Method Blank | 097-09-002-7,570  | N/A                 | Air    | GC/MS NN   | N/A           | 09/03/08 21:21     | 080903L01   |

| Parameter              | Result  | RL             | DF | Qual | Parameter                   | Result  | RL             | DF | Qual |
|------------------------|---------|----------------|----|------|-----------------------------|---------|----------------|----|------|
| Benzene                | ND      | 0.0016         | 1  |      | Xylenes (total)             | ND      | 0.0087         | 1  |      |
| Toluene                | ND      | 0.0019         | 1  |      | Methyl-t-Butyl Ether (MTBE) | ND      | 0.0072         | 1  |      |
| Ethylbenzene           | ND      | 0.0022         | 1  |      |                             |         |                |    |      |
| Surrogates:            | REC (%) | Control Limits |    | Qual | Surrogates:                 | REC (%) | Control Limits |    | Qual |
| 1,4-Bromofluorobenzene | 97      | 57-129         |    |      | 1,2-Dichloroethane-d4       | 93      | 47-137         |    |      |
| Toluene-d8             | 98      | 78-156         |    |      |                             |         |                |    |      |

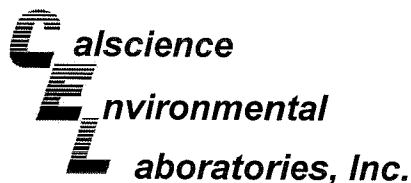
| Method Blank | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|--------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| Method Blank | 097-09-002-7,571  | N/A                 | Air    | GC/MS NN   | N/A           | 09/04/08 10:33     | 080904L01   |

| Parameter              | Result  | RL             | DF | Qual | Parameter                   | Result  | RL             | DF | Qual |
|------------------------|---------|----------------|----|------|-----------------------------|---------|----------------|----|------|
| Benzene                | ND      | 0.0016         | 1  |      | Xylenes (total)             | ND      | 0.0087         | 1  |      |
| Toluene                | ND      | 0.0019         | 1  |      | Methyl-t-Butyl Ether (MTBE) | ND      | 0.0072         | 1  |      |
| Ethylbenzene           | ND      | 0.0022         | 1  |      |                             |         |                |    |      |
| Surrogates:            | REC (%) | Control Limits |    | Qual | Surrogates:                 | REC (%) | Control Limits |    | Qual |
| 1,4-Bromofluorobenzene | 96      | 57-129         |    |      | 1,2-Dichloroethane-d4       | 95      | 47-137         |    |      |
| Toluene-d8             | 101     | 78-156         |    |      |                             |         |                |    |      |

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







## Analytical Report



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

Date Received: 09/03/08  
Work Order No: 08-09-0162  
Preparation: N/A  
Method: EPA TO-3M

Project: ARCO Facility No. 2111

Page 1 of 1

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111DPEAINF         | 08-09-0162-1-B    | 09/02/08<br>09:43   | Air    | GC 38      | N/A           | 09/04/08<br>13:55  | 080904L01   |

| Parameter                        | Result | RL | DF | Qual | Units |
|----------------------------------|--------|----|----|------|-------|
| Gasoline Range Organics (C6-C12) | 2400   | 50 | 1  |      | mg/m3 |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111ASAEFF          | 08-09-0162-2-B    | 09/02/08<br>09:41   | Air    | GC 38      | N/A           | 09/04/08<br>10:00  | 080904L01   |

| Parameter                        | Result | RL | DF | Qual | Units |
|----------------------------------|--------|----|----|------|-------|
| Gasoline Range Organics (C6-C12) | ND     | 50 | 1  |      | mg/m3 |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111ASYSINF         | 08-09-0162-3-B    | 09/02/08<br>09:39   | Air    | GC 38      | N/A           | 09/04/08<br>11:21  | 080904L01   |

| Parameter                        | Result | RL | DF | Qual | Units |
|----------------------------------|--------|----|----|------|-------|
| Gasoline Range Organics (C6-C12) | 1300   | 50 | 1  |      | mg/m3 |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111AGAC1           | 08-09-0162-4-B    | 09/02/08<br>09:37   | Air    | GC 38      | N/A           | 09/04/08<br>12:37  | 080904L01   |

| Parameter                        | Result | RL | DF | Qual | Units |
|----------------------------------|--------|----|----|------|-------|
| Gasoline Range Organics (C6-C12) | ND     | 50 | 1  |      | mg/m3 |

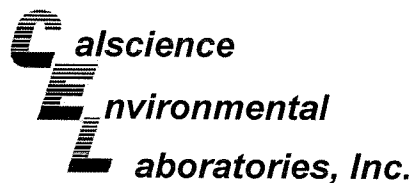
| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 02111AEFF            | 08-09-0162-5-B    | 09/02/08<br>09:35   | Air    | GC 38      | N/A           | 09/04/08<br>10:44  | 080904L01   |

| Parameter                        | Result | RL | DF | Qual | Units |
|----------------------------------|--------|----|----|------|-------|
| Gasoline Range Organics (C6-C12) | ND     | 50 | 1  |      | mg/m3 |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| Method Blank         | 099-12-693-74     | N/A                 | Air    | GC 38      | N/A           | 09/04/08<br>08:41  | 080904L01   |

| Parameter                        | Result | RL | DF | Qual | Units |
|----------------------------------|--------|----|----|------|-------|
| Gasoline Range Organics (C6-C12) | ND     | 50 | 1  |      | mg/m3 |

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



## Analytical Report



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

Date Received: 09/03/08  
Work Order No: 08-09-0162  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: ARCO Facility No. 2111

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111DPEWINF         | 08-09-0162-6-E    | 09/02/08<br>09:20   | Aqueous | GC 4       | 09/03/08      | 09/04/08<br>16:02  | 080903B02   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | 230            | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 57             | 38-134                |    |             |       |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111ASWINF          | 08-09-0162-7-E    | 09/02/08<br>09:15   | Aqueous | GC 4       | 09/03/08      | 09/04/08<br>16:35  | 080903B02   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | 77             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 52             | 38-134                |    |             |       |

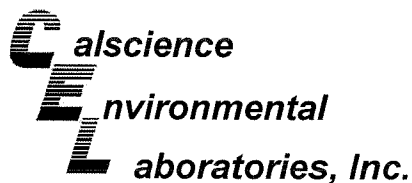
| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111ASWEFF          | 08-09-0162-8-E    | 09/02/08<br>09:06   | Aqueous | GC 4       | 09/03/08      | 09/04/08<br>17:08  | 080903B02   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 65             | 38-134                |    |             |       |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111WGAC1           | 08-09-0162-9-E    | 09/02/08<br>09:03   | Aqueous | GC 4       | 09/03/08      | 09/04/08<br>17:41  | 080903B02   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 53             | 38-134                |    |             |       |

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



Analytical Report



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

Date Received: 09/03/08  
Work Order No: 08-09-0162  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: ARCO Facility No. 2111

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111WEFF            | 08-09-0162-10-E   | 09/02/08 09:00      | Aqueous | GC 4       | 09/03/08      | 09/04/08 10:33     | 080903B02   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 53             | 38-134                |    |             |       |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111MW2WINF         | 08-09-0162-11-E   | 09/02/08 09:25      | Aqueous | GC 4       | 09/03/08      | 09/04/08 18:14     | 080903B02   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | 250            | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 66             | 38-134                |    |             |       |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank         | 099-12-695-249    | N/A                 | Aqueous | GC 4       | 09/03/08      | 09/04/08 05:37     | 080903B02   |

| Parameter                        | Result         | RL                    | DF | Qual        | Units |
|----------------------------------|----------------|-----------------------|----|-------------|-------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| 1,4-Bromofluorobenzene           | 60             | 38-134                |    |             |       |

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



## Analytical Report



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

Date Received: 09/03/08  
Work Order No: 08-09-0162  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: ARCO Facility No. 2111

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111DPEWINF         | 08-09-0162-6-B    | 09/02/08<br>09:20   | Aqueous | GC/MS Z    | 09/09/08      | 09/09/08<br>20:22  | 080909L01   |

| Parameter                   | Result         | RL                    | DF | Qual        | Parameter                     | Result         | RL                    | DF | Qual        |
|-----------------------------|----------------|-----------------------|----|-------------|-------------------------------|----------------|-----------------------|----|-------------|
| Benzene                     | ND             | 10                    | 20 |             | Tert-Butyl Alcohol (TBA)      | 1600           | 200                   | 20 |             |
| Ethylbenzene                | 12             | 10                    | 20 |             | Diisopropyl Ether (DIPE)      | ND             | 10                    | 20 |             |
| Toluene                     | ND             | 10                    | 20 |             | Ethyl-t-Butyl Ether (ETBE)    | ND             | 10                    | 20 |             |
| Xylenes (total)             | 25             | 10                    | 20 |             | Tert-Amyl-Methyl Ether (TAME) | ND             | 10                    | 20 |             |
| Methyl-t-Butyl Ether (MTBE) | 610            | 10                    | 20 |             |                               |                |                       |    |             |
| <b>Surrogates:</b>          | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> | <b>Surrogates:</b>            | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> |
| 1,2-Dichloroethane-d4       | 124            | 73-157                |    |             | Dibromofluoromethane          | 117            | 82-142                |    |             |
| Toluene-d8                  | 102            | 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 |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111ASWINF          | 08-09-0162-7-B    | 09/02/08<br>09:15   | Aqueous | GC/MS Z    | 09/09/08      | 09/09/08<br>20:55  | 080909L01   |

| Parameter                   | Result         | RL                    | DF | Qual        | Parameter                     | Result         | RL                    | DF | Qual        |
|-----------------------------|----------------|-----------------------|----|-------------|-------------------------------|----------------|-----------------------|----|-------------|
| Benzene                     | ND             | 5.0                   | 10 |             | Tert-Butyl Alcohol (TBA)      | 1100           | 100                   | 10 |             |
| Ethylbenzene                | ND             | 5.0                   | 10 |             | Diisopropyl Ether (DIPE)      | ND             | 5.0                   | 10 |             |
| Toluene                     | ND             | 5.0                   | 10 |             | Ethyl-t-Butyl Ether (ETBE)    | ND             | 5.0                   | 10 |             |
| Xylenes (total)             | 8.6            | 5.0                   | 10 |             | Tert-Amyl-Methyl Ether (TAME) | ND             | 5.0                   | 10 |             |
| Methyl-t-Butyl Ether (MTBE) | 380            | 10                    | 20 |             |                               |                |                       |    |             |
| <b>Surrogates:</b>          | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> | <b>Surrogates:</b>            | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> |
| 1,2-Dichloroethane-d4       | 128            | 73-157                |    |             | Dibromofluoromethane          | 120            | 82-142                |    |             |
| Toluene-d8                  | 103            | 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          | 08-09-0162-8-B    | 09/02/08<br>09:06   | Aqueous | GC/MS Z    | 09/09/08      | 09/09/08<br>21:27  | 080909L01   |

| Parameter                   | Result         | RL                    | DF | Qual        | Parameter                     | Result         | RL                    | DF | Qual        |
|-----------------------------|----------------|-----------------------|----|-------------|-------------------------------|----------------|-----------------------|----|-------------|
| Benzene                     | ND             | 1.0                   | 2  |             | Tert-Butyl Alcohol (TBA)      | 450            | 40                    | 4  |             |
| Ethylbenzene                | ND             | 1.0                   | 2  |             | Diisopropyl Ether (DIPE)      | ND             | 1.0                   | 2  |             |
| Toluene                     | ND             | 1.0                   | 2  |             | Ethyl-t-Butyl Ether (ETBE)    | ND             | 1.0                   | 2  |             |
| Xylenes (total)             | ND             | 1.0                   | 2  |             | Tert-Amyl-Methyl Ether (TAME) | ND             | 1.0                   | 2  |             |
| Methyl-t-Butyl Ether (MTBE) | 16             | 1.0                   | 2  |             |                               |                |                       |    |             |
| <b>Surrogates:</b>          | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> | <b>Surrogates:</b>            | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> |
| 1,2-Dichloroethane-d4       | 127            | 73-157                |    |             | Dibromofluoromethane          | 121            | 82-142                |    |             |
| Toluene-d8                  | 99             | 82-112                |    |             | 1,4-Bromofluorobenzene        | 93             | 75-105                |    |             |

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



## Analytical Report



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

Date Received: 09/03/08  
Work Order No: 08-09-0162  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: ARCO Facility No. 2111

Page 2 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111WGAC1           | 08-09-0162-9-B    | 09/02/08<br>09:03   | Aqueous | GC/MS Z    | 09/09/08      | 09/09/08<br>22:00  | 080909L01   |

| 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  |             |                               |                |                       |    |             |
| <b>Surrogates:</b>          | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> | <b>Surrogates:</b>            | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> |
| 1,2-Dichloroethane-d4       | 131            | 73-157                |    |             | Dibromofluoromethane          | 121            | 82-142                |    |             |
| Toluene-d8                  | 103            | 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 |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111WEFF            | 08-09-0162-10-A   | 09/02/08<br>09:00   | Aqueous | GC/MS BB   | 09/03/08      | 09/03/08<br>17:12  | 080903L01   |

| 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  |             |                               |                |                       |    |             |
| <b>Surrogates:</b>          | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> | <b>Surrogates:</b>            | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> |
| 1,2-Dichloroethane-d4       | 86             | 73-157                |    |             | Dibromofluoromethane          | 102            | 82-142                |    |             |
| Toluene-d8                  | 102            | 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 |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| 02111MW2WINF         | 08-09-0162-11-B   | 09/02/08<br>09:25   | Aqueous | GC/MS Z    | 09/09/08      | 09/09/08<br>22:32  | 080909L01   |

| Parameter                   | Result         | RL                    | DF | Qual        | Parameter                     | Result         | RL                    | DF | Qual        |
|-----------------------------|----------------|-----------------------|----|-------------|-------------------------------|----------------|-----------------------|----|-------------|
| Benzene                     | 14             | 10                    | 20 |             | Tert-Butyl Alcohol (TBA)      | 950            | 200                   | 20 |             |
| Ethylbenzene                | ND             | 10                    | 20 |             | Diisopropyl Ether (DIPE)      | ND             | 10                    | 20 |             |
| Toluene                     | ND             | 10                    | 20 |             | Ethyl-t-Butyl Ether (ETBE)    | ND             | 10                    | 20 |             |
| Xylenes (total)             | ND             | 10                    | 20 |             | Tert-Amyl-Methyl Ether (TAME) | ND             | 10                    | 20 |             |
| Methyl-t-Butyl Ether (MTBE) | 250            | 10                    | 20 |             |                               |                |                       |    |             |
| <b>Surrogates:</b>          | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> | <b>Surrogates:</b>            | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> |
| 1,2-Dichloroethane-d4       | 128            | 73-157                |    |             | Dibromofluoromethane          | 122            | 82-142                |    |             |
| Toluene-d8                  | 103            | 82-112                |    |             | 1,4-Bromofluorobenzene        | 91             | 75-105                |    |             |

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

## Analytical Report



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

Date Received: 09/03/08  
Work Order No: 08-09-0162  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: ARCO Facility No. 2111

Page 3 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank         | 099-12-703-423    | N/A                 | Aqueous | GC/MS BB   | 09/03/08      | 09/03/08<br>13:48  | 080903L01   |

| 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  |             |                               |                |                       |    |             |
| <b>Surrogates:</b>          | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> | <b>Surrogates:</b>            | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> |
| 1,2-Dichloroethane-d4       | 90             | 73-157                |    |             | Dibromofluoromethane          | 104            | 82-142                |    |             |
| Toluene-d8                  | 103            | 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         | 099-12-703-435    | N/A                 | Aqueous | GC/MS Z    | 09/09/08      | 09/09/08<br>15:59  | 080909L01   |

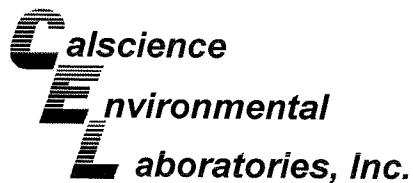
| Parameter                   | Result         | RL                    | DF | Qual        | Parameter                     | Result         | RL                    | DF | Qual        |
|-----------------------------|----------------|-----------------------|----|-------------|-------------------------------|----------------|-----------------------|----|-------------|
| 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  |             |                               |                |                       |    |             |
| <b>Surrogates:</b>          | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> | <b>Surrogates:</b>            | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> |
| 1,2-Dichloroethane-d4       | 121            | 73-157                |    |             | Dibromofluoromethane          | 116            | 82-142                |    |             |
| Toluene-d8                  | 102            | 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 |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank         | 099-12-703-441    | N/A                 | Aqueous | GC/MS Z    | 09/10/08      | 09/10/08<br>14:31  | 080910L01   |

| 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  |             |                               |                |                       |    |             |
| <b>Surrogates:</b>          | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> | <b>Surrogates:</b>            | <b>REC (%)</b> | <b>Control Limits</b> |    | <b>Qual</b> |
| 1,2-Dichloroethane-d4       | 121            | 73-157                |    |             | Dibromofluoromethane          | 119            | 82-142                |    |             |
| Toluene-d8                  | 102            | 82-112                |    |             | 1,4-Bromofluorobenzene        | 93             | 75-105                |    |             |

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





Quality Control - Duplicate



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

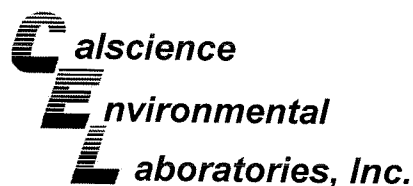
Date Received: 09/03/08  
 Work Order No: 08-09-0162  
 Preparation: N/A  
 Method: EPA TO-3M

Project: ARCO Facility No. 2111

| Quality Control Sample ID | Matrix | Instrument | Date Prepared: | Date Analyzed: | Duplicate Batch Number |
|---------------------------|--------|------------|----------------|----------------|------------------------|
| 02111ASYSINF              | Air    | GC 38      | N/A            | 09/04/08       | 080904D01              |

| Parameter                        | Sample Conc | DUP Conc | RPD | RPD CL | Qualifiers |
|----------------------------------|-------------|----------|-----|--------|------------|
| Gasoline Range Organics (C6-C12) | 1300        | 1300     | 2   | 0-20   |            |

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - Spike/Spike Duplicate



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

Date Received: 09/03/08  
Work Order No: 08-09-0162  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

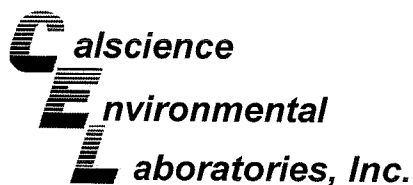
Project ARCO Facility No. 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 08-09-0161-3              | Aqueous | GC 4       | 09/03/08      | 09/04/08      | 080903S02           |

| Parameter                        | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|----------------------------------|---------|----------|---------|-----|--------|------------|
| Gasoline Range Organics (C6-C12) | 90      | 87       | 38-134  | 3   | 0-25   |            |

RPD - Relative Percent Difference, CL - Control Limit





Quality Control - Spike/Spike Duplicate



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

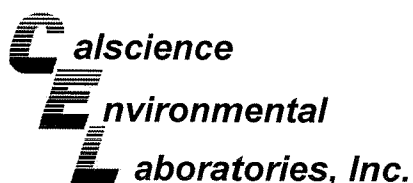
Date Received: 09/03/08  
Work Order No: 08-09-0162  
Preparation: EPA 5030B  
Method: EPA 8260B

Project ARCO Facility No. 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 08-08-2238-2              | Aqueous | GC/MS BB   | 09/03/08      | 09/03/08      | 080903S01           |

| Parameter                     | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|---------|----------|---------|-----|--------|------------|
| Benzene                       | 101     | 99       | 86-122  | 2   | 0-8    |            |
| Carbon Tetrachloride          | 93      | 93       | 78-138  | 0   | 0-9    |            |
| Chlorobenzene                 | 101     | 98       | 90-120  | 3   | 0-9    |            |
| 1,2-Dibromoethane             | 91      | 90       | 70-130  | 2   | 0-30   |            |
| 1,2-Dichlorobenzene           | 98      | 96       | 89-119  | 2   | 0-10   |            |
| 1,1-Dichloroethene            | 91      | 86       | 52-142  | 6   | 0-23   |            |
| Ethylbenzene                  | 94      | 91       | 70-130  | 3   | 0-30   |            |
| Toluene                       | 106     | 104      | 85-127  | 2   | 0-12   |            |
| Trichloroethene               | 98      | 96       | 78-126  | 2   | 0-10   |            |
| Vinyl Chloride                | 106     | 108      | 56-140  | 2   | 0-21   |            |
| Methyl-t-Butyl Ether (MTBE)   | 88      | 96       | 64-136  | 5   | 0-28   |            |
| Tert-Butyl Alcohol (TBA)      | 100     | 98       | 27-183  | 1   | 0-60   |            |
| Diisopropyl Ether (DIPE)      | 96      | 95       | 78-126  | 1   | 0-16   |            |
| Ethyl-t-Butyl Ether (ETBE)    | 91      | 89       | 67-133  | 1   | 0-21   |            |
| Tert-Amyl-Methyl Ether (TAME) | 91      | 88       | 63-141  | 3   | 0-21   |            |
| Ethanol                       | 94      | 101      | 11-167  | 7   | 0-64   |            |

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

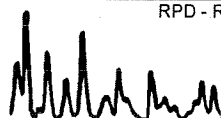
Date Received: 09/03/08  
Work Order No: 08-09-0162  
Preparation: EPA 5030B  
Method: EPA 8260B

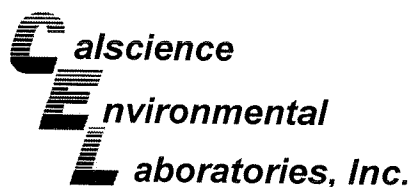
Project ARCO Facility No. 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 08-09-0238-6              | Aqueous | GC/MS Z    | 09/09/08      | 09/09/08      | 080909S01           |

| Parameter                     | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|---------|----------|---------|-----|--------|------------|
| Benzene                       | 102     | 97       | 86-122  | 5   | 0-8    |            |
| Carbon Tetrachloride          | 103     | 98       | 78-138  | 6   | 0-9    |            |
| Chlorobenzene                 | 99      | 94       | 90-120  | 5   | 0-9    |            |
| 1,2-Dibromoethane             | 107     | 106      | 70-130  | 1   | 0-30   |            |
| 1,2-Dichlorobenzene           | 100     | 98       | 89-119  | 2   | 0-10   |            |
| 1,1-Dichloroethene            | 101     | 95       | 52-142  | 6   | 0-23   |            |
| Ethylbenzene                  | 100     | 95       | 70-130  | 5   | 0-30   |            |
| Toluene                       | 101     | 95       | 85-127  | 6   | 0-12   |            |
| Trichloroethene               | 96      | 92       | 78-126  | 5   | 0-10   |            |
| Vinyl Chloride                | 94      | 90       | 56-140  | 4   | 0-21   |            |
| Methyl-t-Butyl Ether (MTBE)   | 114     | 114      | 64-136  | 0   | 0-28   |            |
| Tert-Butyl Alcohol (TBA)      | 100     | 95       | 27-183  | 5   | 0-60   |            |
| Diisopropyl Ether (DIPE)      | 94      | 97       | 78-126  | 3   | 0-16   |            |
| Ethyl-t-Butyl Ether (ETBE)    | 98      | 100      | 67-133  | 1   | 0-21   |            |
| Tert-Amyl-Methyl Ether (TAME) | 109     | 105      | 63-141  | 3   | 0-21   |            |
| Ethanol                       | 86      | 95       | 11-167  | 11  | 0-64   |            |

RPD - Relative Percent Difference, CL - Control Limit





## Quality Control - Spike/Spike Duplicate



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

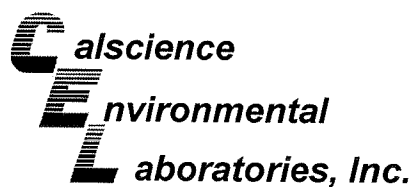
Date Received: 09/03/08  
Work Order No: 08-09-0162  
Preparation: EPA 5030B  
Method: EPA 8260B

Project ARCO Facility No. 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 08-09-0403-1              | Aqueous | GC/MS Z    | 09/10/08      | 09/10/08      | 080910S01           |

| Parameter                     | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|---------|----------|---------|-----|--------|------------|
| Benzene                       | 100     | 103      | 86-122  | 4   | 0-8    |            |
| Carbon Tetrachloride          | 100     | 107      | 78-138  | 7   | 0-9    |            |
| Chlorobenzene                 | 97      | 101      | 90-120  | 3   | 0-9    |            |
| 1,2-Dibromoethane             | 105     | 108      | 70-130  | 2   | 0-30   |            |
| 1,2-Dichlorobenzene           | 97      | 101      | 89-119  | 4   | 0-10   |            |
| 1,1-Dichloroethene            | 99      | 102      | 52-142  | 3   | 0-23   |            |
| Ethylbenzene                  | 95      | 102      | 70-130  | 6   | 0-30   |            |
| Toluene                       | 98      | 102      | 85-127  | 4   | 0-12   |            |
| Trichloroethene               | 93      | 98       | 78-126  | 5   | 0-10   |            |
| Vinyl Chloride                | 94      | 99       | 56-140  | 6   | 0-21   |            |
| Methyl-t-Butyl Ether (MTBE)   | 118     | 112      | 64-136  | 5   | 0-28   |            |
| Tert-Butyl Alcohol (TBA)      | 98      | 102      | 27-183  | 5   | 0-60   |            |
| Diisopropyl Ether (DIPE)      | 98      | 100      | 78-126  | 3   | 0-16   |            |
| Ethyl-t-Butyl Ether (ETBE)    | 103     | 101      | 67-133  | 2   | 0-21   |            |
| Tert-Amyl-Methyl Ether (TAME) | 106     | 103      | 63-141  | 3   | 0-21   |            |
| Ethanol                       | 91      | 118      | 11-167  | 25  | 0-64   |            |

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - LCS/LCS Duplicate



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

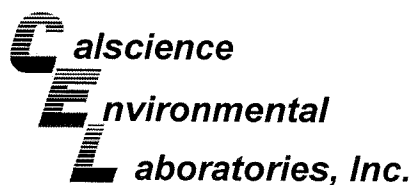
Date Received: N/A  
Work Order No: 08-09-0162  
Preparation: N/A  
Method: EPA TO-15

Project: ARCO Facility No. 2111

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|--------|------------|---------------|---------------|-----------------------|
| 097-09-002-7,570          | Air    | GC/MS NN   | N/A           | 09/03/08      | 080903L01             |

| Parameter    | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|--------------|----------|-----------|---------|-----|--------|------------|
| Benzene      | 118      | 117       | 60-156  | 1   | 0-40   |            |
| Toluene      | 118      | 118       | 56-146  | 0   | 0-43   |            |
| Ethylbenzene | 127      | 123       | 52-154  | 3   | 0-38   |            |
| p/m-Xylene   | 128      | 123       | 42-156  | 4   | 0-41   |            |
| o-Xylene     | 128      | 120       | 52-148  | 7   | 0-38   |            |

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - LCS/LCS Duplicate



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

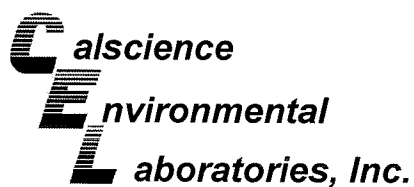
Date Received: N/A  
Work Order No: 08-09-0162  
Preparation: N/A  
Method: EPA TO-15

Project: ARCO Facility No. 2111

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|--------|------------|---------------|---------------|-----------------------|
| 097-09-002-7,571          | Air    | GC/MS NN   | N/A           | 09/04/08      | 080904L01             |

| Parameter    | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|--------------|----------|-----------|---------|-----|--------|------------|
| Benzene      | 124      | 118       | 60-156  | 4   | 0-40   |            |
| Toluene      | 129      | 122       | 56-146  | 5   | 0-43   |            |
| Ethylbenzene | 137      | 126       | 52-154  | 8   | 0-38   |            |
| p/m-Xylene   | 138      | 128       | 42-156  | 7   | 0-41   |            |
| o-Xylene     | 138      | 128       | 52-148  | 8   | 0-38   |            |

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - LCS/LCS Duplicate



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

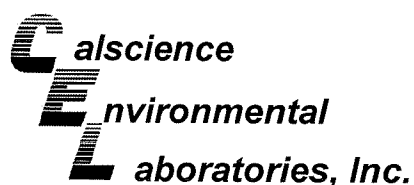
Date Received: N/A  
Work Order No: 08-09-0162  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: ARCO Facility No. 2111

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 099-12-695-249            | Aqueous | GC 4       | 09/03/08      | 09/04/08      | 080903B02             |

| Parameter                        | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|----------------------------------|----------|-----------|---------|-----|--------|------------|
| Gasoline Range Organics (C6-C12) | 95       | 94        | 78-120  | 0   | 0-20   |            |

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
Work Order No: 08-09-0162  
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 |        |            |
|-------------------------------|----------|------------|---------------|---------------|-----------------------|--------|------------|
| 099-12-703-423                | Aqueous  | GC/MS BB   | 09/03/08      | 09/03/08      | 080903L01             |        |            |
| Parameter                     | LCS %REC | LCSD %REC  | %REC CL       | ME CL         | RPD                   | RPD CL | Qualifiers |
| Benzene                       | 102      | 103        | 87-117        | 82-122        | 1                     | 0-7    |            |
| Carbon Tetrachloride          | 93       | 95         | 78-132        | 69-141        | 2                     | 0-8    |            |
| Chlorobenzene                 | 97       | 100        | 88-118        | 83-123        | 3                     | 0-8    |            |
| 1,2-Dibromoethane             | 91       | 96         | 80-120        | 73-127        | 6                     | 0-20   |            |
| 1,2-Dichlorobenzene           | 100      | 99         | 88-118        | 83-123        | 1                     | 0-8    |            |
| 1,1-Dichloroethene            | 94       | 90         | 71-131        | 61-141        | 4                     | 0-14   |            |
| Ethylbenzene                  | 92       | 94         | 80-120        | 73-127        | 2                     | 0-20   |            |
| Toluene                       | 104      | 106        | 85-127        | 78-134        | 2                     | 0-7    |            |
| Trichloroethene               | 97       | 101        | 85-121        | 79-127        | 3                     | 0-11   |            |
| Vinyl Chloride                | 107      | 110        | 64-136        | 52-148        | 3                     | 0-10   |            |
| Methyl-t-Butyl Ether (MTBE)   | 85       | 91         | 67-133        | 56-144        | 6                     | 0-16   |            |
| Tert-Butyl Alcohol (TBA)      | 99       | 98         | 34-154        | 14-174        | 1                     | 0-19   |            |
| Diisopropyl Ether (DIPE)      | 96       | 98         | 80-122        | 73-129        | 2                     | 0-8    |            |
| Ethyl-t-Butyl Ether (ETBE)    | 87       | 91         | 73-127        | 64-136        | 4                     | 0-11   |            |
| Tert-Amyl-Methyl Ether (TAME) | 87       | 92         | 69-135        | 58-146        | 5                     | 0-12   |            |
| Ethanol                       | 86       | 100        | 34-124        | 19-139        | 15                    | 0-44   |            |

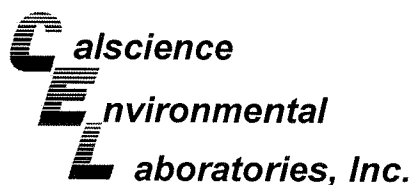
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
Work Order No: 08-09-0162  
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 |        |            |
|-------------------------------|----------|------------|---------------|---------------|-----------------------|--------|------------|
| 099-12-703-435                | Aqueous  | GC/MS Z    | 09/08/08      | 09/09/08      | 080909L01             |        |            |
| Parameter                     | LCS %REC | LCSD %REC  | %REC CL       | ME_CL         | RPD                   | RPD CL | Qualifiers |
| Benzene                       | 101      | 103        | 87-117        | 82-122        | 2                     | 0-7    |            |
| Carbon Tetrachloride          | 104      | 105        | 78-132        | 69-141        | 1                     | 0-8    |            |
| Chlorobenzene                 | 100      | 101        | 88-118        | 83-123        | 2                     | 0-8    |            |
| 1,2-Dibromoethane             | 110      | 111        | 80-120        | 73-127        | 1                     | 0-20   |            |
| 1,2-Dichlorobenzene           | 99       | 101        | 88-118        | 83-123        | 2                     | 0-8    |            |
| 1,1-Dichloroethene            | 102      | 103        | 71-131        | 61-141        | 1                     | 0-14   |            |
| Ethylbenzene                  | 100      | 100        | 80-120        | 73-127        | 0                     | 0-20   |            |
| Toluene                       | 100      | 102        | 85-127        | 78-134        | 2                     | 0-7    |            |
| Trichloroethene               | 99       | 102        | 85-121        | 79-127        | 3                     | 0-11   |            |
| Vinyl Chloride                | 92       | 95         | 64-136        | 52-148        | 3                     | 0-10   |            |
| Methyl-t-Butyl Ether (MTBE)   | 113      | 120        | 67-133        | 56-144        | 6                     | 0-16   |            |
| Tert-Butyl Alcohol (TBA)      | 95       | 98         | 34-154        | 14-174        | 4                     | 0-19   |            |
| Diisopropyl Ether (DIPE)      | 97       | 101        | 80-122        | 73-129        | 3                     | 0-8    |            |
| Ethyl-t-Butyl Ether (ETBE)    | 103      | 107        | 73-127        | 64-136        | 4                     | 0-11   |            |
| Tert-Amyl-Methyl Ether (TAME) | 104      | 109        | 69-135        | 58-146        | 4                     | 0-12   |            |
| Ethanol                       | 97       | 86         | 34-124        | 19-139        | 12                    | 0-44   |            |

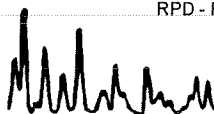
Total number of LCS compounds : 16

Total number of ME compounds : 0

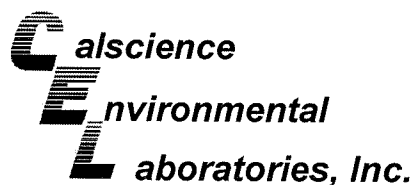
Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference, CL - Control Limit







## Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
Work Order No: 08-09-0162  
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 |        |            |
|-------------------------------|----------|------------|---------------|---------------|-----------------------|--------|------------|
| 099-12-703-441                | Aqueous  | GC/MS Z    | 09/10/08      | 09/10/08      | 080910L01             |        |            |
| Parameter                     | LCS %REC | LCSD %REC  | %REC CL       | ME CL         | RPD                   | RPD CL | Qualifiers |
| Benzene                       | 103      | 103        | 87-117        | 82-122        | 1                     | 0-7    |            |
| Carbon Tetrachloride          | 109      | 111        | 78-132        | 69-141        | 2                     | 0-8    |            |
| Chlorobenzene                 | 100      | 100        | 88-118        | 83-123        | 0                     | 0-8    |            |
| 1,2-Dibromoethane             | 105      | 108        | 80-120        | 73-127        | 3                     | 0-20   |            |
| 1,2-Dichlorobenzene           | 99       | 102        | 88-118        | 83-123        | 4                     | 0-8    |            |
| 1,1-Dichloroethene            | 103      | 103        | 71-131        | 61-141        | 0                     | 0-14   |            |
| Ethylbenzene                  | 103      | 101        | 80-120        | 73-127        | 2                     | 0-20   |            |
| Toluene                       | 100      | 102        | 85-127        | 78-134        | 2                     | 0-7    |            |
| Trichloroethene               | 101      | 102        | 85-121        | 79-127        | 1                     | 0-11   |            |
| Vinyl Chloride                | 94       | 95         | 64-136        | 52-148        | 0                     | 0-10   |            |
| Methyl-t-Butyl Ether (MTBE)   | 106      | 114        | 67-133        | 56-144        | 8                     | 0-16   |            |
| Tert-Butyl Alcohol (TBA)      | 101      | 104        | 34-154        | 14-174        | 3                     | 0-19   |            |
| Diisopropyl Ether (DIPE)      | 101      | 100        | 80-122        | 73-129        | 1                     | 0-8    |            |
| Ethyl-t-Butyl Ether (ETBE)    | 98       | 104        | 73-127        | 64-136        | 5                     | 0-11   |            |
| Tert-Amyl-Methyl Ether (TAME) | 99       | 106        | 69-135        | 58-146        | 6                     | 0-12   |            |
| Ethanol                       | 108      | 88         | 34-124        | 19-139        | 20                    | 0-44   |            |

Total number of LCS compounds : 16

Total number of ME compounds : 0

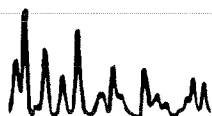
Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference, CL - Control Limit

Work Order Number: 08-09-0162

| <u>Qualifier</u> | <u>Definition</u>  |
|------------------|--|
| AX               | Sample too dilute to quantify surrogate.   |
| BA               |  |
| BA,AY            | Relative percent difference out of control, matrix interference suspected.                   |
| BB               | Sample > 4x spike concentration.   |
| BF               | Reporting limits raised due to high hydrocarbon background.                                  |
| BH               | Reporting limits raised due to high level of non-target analytes.                            |
| BU               | Sample analyzed after holding time expired.  |
| BV               | Sample received after holding time expired.  |
| BY               | Sample received at improper temperature.   |
| CL               | Initial analysis within holding time but required dilution.                                  |
| CQ               | Analyte concentration greater than 10 times the blank concentration.                         |
| CU               | Surrogate concentration diluted to not detectable during analysis.                           |
| DF               | Reporting limits elevated due to matrix interferences.                                       |
| ET               | Sample was extracted past end of recommended max. holding time.                              |
| EY               | Result exceeds normal dynamic range; reported as a min est.                                  |
| GS               | Internal standard recovery is outside method recovery limit.                                 |
| IB               | CCV recovery abovelimit; analyte not detected.   |
| IH               | Calibrtn. verif. recov. below method CL for this analyte.                                    |
| IJ               | Calibrtn. verif. recov. above method CL for this analyte.                                    |
| J,DX             | J=EPA Flag -Estimated value; DX= Value < lowest standard (MQL), but > than MDL.              |
| LA               | Confirmatory analysis was past holding time.   |
| LG               | Surrogate recovery below the acceptance limit.   |
| LH               | Surrogate recovery above the acceptance limit.   |
| LM,AY            | MS and/or MSD above acceptance limits. See Blank Spike (LCS). Matrix interference suspected. |
| LN,AY            | MS and/or MSD below acceptance limits. See Blank Spike (LCS). Matrix interference suspected. |
| LQ               | LCS recovery above method control limits.  |
| LR               | LCS recovery below method control limits.  |
| MB               | Analyte present in the method blank.   |

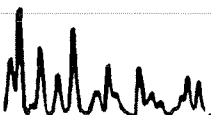


Work Order Number: 08-09-0162

---

| <u>Qualifier</u> | <u>Definition</u>  |
|------------------|--|
| MG               | Analyte is a suspected lab contaminate.                        |
| PC               | Sample taken from VOA vial with air bubble > 6mm diameter.     |
| PI               | Primary and confirm results varied by > than 40% RPD.          |
| RB               | RPD exceeded method control limit; % recoveries within limits. |

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## 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: Alameda County Environmental Health  
 Requested Due Date (mm/dd/yy): 24 hours for Effluent & STD for others

0162

**RUSH ORIGINAL**

|                              |                 |
|------------------------------|-----------------|
| On-site Time: <u>0830</u>    | Temp: <u>60</u> |
| Off-site Time: <u>1015</u>   | Temp: <u>70</u> |
| Sky Conditions: <u>Clear</u> |                 |
| Meteorological Events:       |                 |
| Wind Speed:                  | Direction:      |

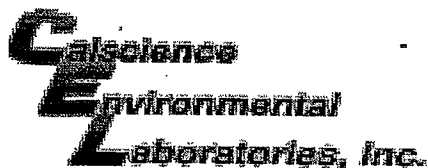
|  |  |   |
|--|--|---|
| Lab Name: <u>Calscience Environmental Laboratories, Inc.</u> | BP/AR Facility No.: <u>2111</u>                            | Consultant/Contractor: <u>Stratus Environmental, Inc.</u> |
| Address: <u>7440 Lincoln Way</u>                             | BP/AR Facility Address: <u>1156 Davis St., San Leandro</u> | Address: <u>3330 Cameron Park Drive, Suite 550</u>        |
| Garden Grove, CA 92841                                       | Site Lat/Long:   | <u>Cameron Park, CA 95682</u>                             |
| Lab PM: <u>Linda Scharpenberg</u>                            | California Global ID No.: <u>T0600101764</u>               | Consultant/Contractor Project No.: <u>E2111-03</u>        |
| Tele/Fax: <u>714-895-5494/714-895-7501</u>                   | Enfos Project No.: <u>G0C28-0029</u>                       | Consultant/Contractor PM: <u>Jay Johnson</u>              |
| BP/AR PM Contact: <u>Paul Supple</u>                         | Provision or OOC (circle one) <u>Provision</u>             | Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>          |
| Address: <u>2010 Crow Canyon Place, Suite 150</u>            | Phase/WBS: <u>03-O&amp;M</u>                               | Report Type & QC Level: <u>Level 1 with EDF</u>           |
| <u>San Ramon, CA</u>   | Sub Phase/Task: <u>03-Analytical</u>                       | E-mail EDD To: <u>shayes@stratusinc.net</u>               |
| Tele/Fax: <u>925-275-3506/925-275-3815</u>                   | Cost Element: <u>Subcontractor Cost</u>                    | Invoice to: <u>Atlantic Richfield Co.</u>                 |

| Item No. | Sample Description | Time | Date | Matrix     |              |     | Laboratory No. | No. of Containers | Preservative |                                |                  |     |          | Requested Analysis |      |      |              | Turnaround Time |          | Sample Point Lat/Long and Comments                          |
|----------|--------------------|------|------|------------|--------------|-----|----------------|-------------------|--------------|--------------------------------|------------------|-----|----------|--------------------|------|------|--------------|-----------------|----------|---|
|          |                    |      |      | Soil/Solid | Water/Liquid | Air |                |                   | Unpreserved  | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | Methanol | GRO                | BTEX | MTBE | 5-oxygenates | 24-hours        | Standard |   |
| 1        | 02111DPEAINF       | 0943 | 9/28 |            | x            |     |                | 2                 | x            |                                |                  |     |          |                    | x    | x    | x            |                 |          | 5-oxygenates requested are MTBE, DIPE, ETBE, TAME, and TBA. |
| 2        | 02111ASAEFF        | 0941 |      |            | x            |     |                | 2                 | x            |                                |                  |     |          |                    | x    | x    | x            |                 |          |   |
| 3        | 02111ASYSINF       | 0939 |      |            | x            |     |                | 2                 | x            |                                |                  |     |          |                    | x    | x    | x            |                 |          |   |
| 4        | 02111AGAC1         | 0937 |      |            | x            |     |                | 2                 | x            |                                |                  |     |          |                    | x    | x    | x            |                 |          |   |
| 5        | 02111AEFF          | 0935 |      |            | x            |     |                | 2                 | x            |                                |                  |     |          |                    | x    | x    | x            |                 |          |   |
| 6        | 02111DPEWINF       | 0920 |      |            | x            |     |                | 6                 |              |                                |                  |     |          |                    | x    |      |              |                 |          |   |
| 7        | 02111ASWINF        | 0915 |      |            | x            |     |                | 6                 |              |                                |                  |     |          |                    | x    |      |              |                 |          |   |
| 8        | 02111ASWEFF        | 0906 |      |            | x            |     |                | 6                 |              |                                |                  |     |          |                    | x    |      |              |                 |          |   |
| 9        | 02111WGAC1         | 0907 |      |            | x            |     |                | 6                 |              |                                |                  |     |          |                    | x    |      |              |                 |          |   |
| 10       | 02111WEFF          | 0900 |      |            | x            |     |                | 6                 |              |                                |                  |     |          |                    | x    |      |              |                 |          |   |
| 11       | 02111MW2WINF       | 0925 |      |            | x            |     |                | 6                 |              |                                |                  |     |          |                    | x    |      |              |                 |          |   |
| 12       | TB21119208         | 0930 | 9/28 | x          |              |     |                | 2                 |              |                                |                  |     |          |                    |      |      |              |                 |          | Hold  |

|   |   |                   |                   |   |                   |                   |
|---|---|-------------------|-------------------|---|-------------------|-------------------|
| Sampler's Name: <u>Chris Hill</u>                     | Relinquished By / Affiliation: <u>Stratus</u> | Date: <u>9/28</u> | Time: <u>1600</u> | Accepted By / Affiliation: <u>[Signature]</u> | Date: <u>9/28</u> | Time: <u>1600</u> |
| Sampler's Company: <u>Stratus Environmental, Inc.</u> |   |                   |                   |   |                   |                   |
| Shipment Date: <u>9/28</u>                            |   |                   |                   |   |                   |                   |
| Shipment Method: <u>CSO</u>                           |   |                   |                   |   |                   |                   |
| Shipment Tracking No: <u>9255591810</u>               |   |                   |                   |   |                   |                   |

Special Instructions: Please cc results to bpcdf@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



WORK ORDER #: 08 - 09 - 0162

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Stratus

DATE: 9/3/08

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 (For Air & Filter only).

LABORATORY (Other than CalScience Courier):

- 2.9 °C Temperature blank.
°C IR thermometer.
Ambient temperature (For Air & Filter only).

°C Temperature blank.

Initial: [Signature]

CUSTODY SEAL INTACT:

Sample(s): Cooler: No (Not Intact): Not Present: [checked]

Initial: [Signature]

SAMPLE CONDITION:

Table with 4 columns: Description, Yes, No, N/A. Rows include Chain-Of-Custody document(s), Sampler's name, Sample container label(s), Sample container(s) intact, Correct containers and volume, Proper preservation, VOA vial(s) free of headspace, Tedlar bag(s) free of condensation.

Initial: [Signature]

COMMENTS:

Blank lines for handwritten comments.

**APPENDIX D**

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



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

## TRANSMITTAL

Date July 31, 2008  
Project E2111-03

To:  
Ms. Tiffany Treece  
City of San Leandro  
Civic Center, 835 E. 14<sup>th</sup> Street  
San Leandro, CA 94577

Re: Permit # SD-036, ARCO Service Station No. 2111, 1156 Davis Street, San Leandro

| <u>Item</u> | <u>Description</u>                             |
|-------------|--|
| <u>1</u>    | <u>Monthly Discharge Report for July 2008</u>  |
| <u>2</u>    | <u>Table 1- Sewer Discharge Summary Report</u> |

**Comments:**

Dear Ms. Treece:

Please find attached for your review the *Monthly Discharge Report* for July 2008, for the remediation system at ARCO Service Station No. 2111, located at 1156 Davis Street, San Leandro, California. A total of approximately 11,876 gallons of treated groundwater were discharged to the sanitary sewer between June 23, 2008 and July 29, 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: June 23, 2008 to July 29, 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: 36

Total monthly discharge: 11,876 U. S. Gallons

Signature of Certifying Official: 

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

Title: Project Manager

Date: July 31, 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 discharge to the sewer. The remediation systems were found non-functioning on July 1, 2008, due to a high-water level alarm in the air stripper tank. The remediation systems were re-started momentarily on July 1, 2008 and shutdown after sampling, pending receipt of analytical results and compliance verification. GRO (32 ppmv) and MTBE (3.4 ppmv) were reported in the mid-fluent air sample collected on July 1, 2008. Hence, a carbon sample (vapor phase) was collected on June 7, 2008, for profiling and disposal purposes. Stratus oversaw EnviroSupply & Service Inc. conduct the carbon change-out on July 23, 2008, and the remediation systems were re-started on the same day. The remediation systems were found non-functioning during the site visit conducted on July 29, 2008, due to a high-water level alarm in the air stripper tank and were re-started on the same day after re-setting the air-stripper level alarm.

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

**TABLE 1**  
**SEWER DISCHARGE SUMMARY REPORT**

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

| Report Month<br>(month/year) | Date                         | Effluent Totalizer<br>Reading (gallons) | Monthly Discharge<br>(gallons) |
|------------------------------|------------------------------|---|--------------------------------|
| July-07                      | 7/2/07 5:30                  | 480,377                                 | 115,872                        |
|                              | 7/10/2007 <sup>14</sup> 5:45 | 523,553                                 |                                |
|                              | 7/17/2007 <sup>15</sup> 5:00 | 546,094                                 |                                |
| August-07                    | 8/1/2007 <sup>15</sup> 5:00  | 580,301                                 | 36,612                         |
|                              | 8/7/07 5:00                  | 580,662                                 |                                |
|                              | 8/20/2007 <sup>15</sup> 5:00 | 582,706                                 |                                |
| September-07                 | 9/5/2007 <sup>16</sup> 5:00  | 589,944                                 | 8,737                          |
|                              | 9/11/2007 <sup>17</sup> 9:00 | 589,950                                 |                                |
|                              | 9/17/2007 <sup>18</sup> 5:30 | 591,443                                 |                                |
| October-07                   | 10/1/07 <sup>19</sup> 5:00   | 592,403                                 | 2,204                          |
|                              | 10/11/07 <sup>20</sup> 8:15  | NM                                      |                                |
|                              | 10/23/07 <sup>17</sup> 5:00  | NM                                      |                                |
|                              | 10/30/07 <sup>15</sup> 7:10  | 593,647                                 |                                |
| November-07                  | 11/6/07 <sup>11</sup> 4:30   | 612,552                                 | 19,890                         |
|                              | 11/14/07 <sup>17</sup> 6:00  | 612,552                                 |                                |
|                              | 11/20/07 <sup>15</sup> 6:50  | 613,537                                 |                                |
| December-07                  | 12/5/07 <sup>11</sup> 5:00   | 633,121                                 | 19,586                         |
|                              | 12/17/07 <sup>17</sup> 4:30  | 633,123                                 |                                |
| January-08                   | 1/7/08 <sup>11</sup> 5:00    | 635,200                                 | 2,918                          |
|                              | 1/15/08 <sup>17</sup> 7:00   | 636,041                                 |                                |
| February-08                  | 2/5/08 <sup>21</sup> 8:15    | 642,841                                 | 7,402                          |
|                              | 2/26/08 <sup>22</sup> 6:00   | 643,443                                 |                                |

**TABLE 1**  
**SEWER DISCHARGE SUMMARY REPORT**

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

| Report Month<br>(month/year) | Date                       | Effluent Totalizer<br>Reading (gallons) | Monthly Discharge<br>(gallons) |
|------------------------------|----------------------------|---|--------------------------------|
| March-08                     | 3/5/08 <sup>11</sup> 4:00  | 646,123                                 | 2,778                          |
|                              | 3/17/08 <sup>23</sup> 4:30 | 646,221                                 |                                |
| April-08                     | 4/1/08 <sup>24</sup> 5:00  | 719,174                                 | 111,462                        |
|                              | 4/14/08 <sup>25</sup> 5:00 | 719,881                                 |                                |
|                              | 4/22/08 5:00               | 757,683                                 |                                |
| May-08                       | 5/6/08 <sup>26</sup> 5:15  | 806,356                                 | 156,880                        |
|                              | 5/12/08 4:45               | 822,743                                 |                                |
|                              | 5/20/08 7:00               | 844,640                                 |                                |
|                              | 5/27/08 6:15               | 914,563                                 |                                |
| June-08                      | 6/2/08 <sup>15</sup> 5:00  | 949,693                                 | 103,304                        |
|                              | 6/9/08 <sup>15</sup> 7:15  | 984,702                                 |                                |
|                              | 6/16/08 <sup>15</sup> 7:16 | 1,001,527                               |                                |
|                              | 6/23/08 <sup>15</sup> 7:24 | 1,017,867                               |                                |
| July-08                      | 7/1/08 <sup>27</sup> 7:27  | 1,028,841                               | 11,876                         |
|                              | 7/7/08 <sup>28</sup> 6:54  | 1,029,035                               |                                |
|                              | 7/23/08 <sup>29</sup> 7:30 | 1,029,035                               |                                |
|                              | 7/29/08 <sup>15</sup> 4:30 | 1,029,743                               |                                |

**TABLE 1**  
**SEWER DISCHARGE SUMMARY REPORT**

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

| Report Month<br>(month/year)  | Date | Effluent Totalizer<br>Reading (gallons) | Monthly Discharge<br>(gallons) |
|---|------|---|--------------------------------|
| <p>Notes:</p> <p>NM = Not measured</p> <p><sup>1</sup> Submersible pump at well MW-2 was shutdown. This pump will be re-started after troubleshooting the level floats/controller malfunction.</p> <p><sup>2</sup> System observed non-functioning upon arrival. Re-started by re-setting power supply.</p> <p><sup>3</sup> System shutdown to verify effluent air results.</p> <p><sup>4</sup> System shutdown due to float malfunction.</p> <p><sup>5</sup> System re-started after replacing the floats.</p> <p><sup>6</sup> System shutdown due to high-level in oil-water separator. System restarted after replacing a capacitor on the transfer pump.</p> <p><sup>7</sup> System shutdown due to transfer pump malfunction. System could not be restarted pending replacement of transfer pump.</p> <p><sup>8</sup> System restarted after replacing transfer pump.</p> <p><sup>9</sup> System observed non-functioning upon arrival due to DPE liquid ring pump malfunction. System re-started, but shutdown after sampling pending receipt and verification of analytical results.</p> <p><sup>10</sup> System re-started upon compliance verification and after conducting maintenance on the liquid ring pump.</p> <p><sup>11</sup> System observed non-functioning upon arrival due to high water level alarm on air stripper. System re-started, but shutdown after sampling pending receipt and verification of analytical results.</p> <p><sup>12</sup> System re-started momentarily upon compliance verification and to collect carbon sample for profiling and change-out.</p> <p><sup>13</sup> System re-started upon receipt of analytical results for carbon profile.</p> <p><sup>14</sup> System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started after replacing particulate filters on the system.</p> <p><sup>15</sup> System observed non-functioning upon arrival due to high water level alarm on air stripper. System re-started after re-setting air stripper.</p> <p><sup>16</sup> System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started, but shutdown after sampling pending receipt and verification of analytical results.</p> <p><sup>17</sup> System re-started upon receipt of analytical results and compliance verification.</p> <p><sup>18</sup> System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started momentarily after conducting maintenance, but shutdown pending further troubleshooting.</p> |      |   |                                |

**TABLE 1**  
**SEWER DISCHARGE SUMMARY REPORT**

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

| Report Month<br>(month/year)  | Date | Effluent Totalizer<br>Reading (gallons) | Monthly Discharge<br>(gallons) |
|---|------|---|--------------------------------|
| <p><sup>19</sup> System re-started, but shutdown after sampling pending receipt and verification of analytical results.</p> <p><sup>20</sup> System re-started briefly but shutdown to verify effluent air results.</p> <p><sup>21</sup> 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.</p> <p><sup>22</sup> System re-started upon receipt of analytical results and compliance verification and replacement of transfer pump.</p> <p><sup>23</sup> System re-started upon receipt of analytical results and compliance verification, but DPE system was shutdown due to float malfunction.</p> <p><sup>24</sup> System observed non-functioning upon arrival due to power failure. System re-started, but shutdown after sampling pending receipt and verification of analytical results. Floats were replaced on DPE system.</p> <p><sup>25</sup> System re-started upon receipt of analytical results and compliance verification, but DPE system was shutdown due to transfer pump contactor malfunction. Currently only GETS operational.</p> <p><sup>26</sup> DPE system re-started after replacing transfer pump contactor.</p> <p><sup>27</sup> System observed non-functioning upon arrival due to high water level alarm on air stripper. System re-started, but shutdown after sampling pending receipt and verification of analytical results.</p> <p><sup>28</sup> System remained shutdown. Collected carbon sample (vapor phase) for profiling and change-out.</p> <p><sup>29</sup> System re-started after completion of carbon change-out.</p> |      |   |                                |



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

## TRANSMITTAL

Date September 5, 2008  
Project E2111-03

To:

Ms. Tiffany Treece

City of San Leandro

Civic Center, 835 E. 14<sup>th</sup> Street

San Leandro, CA 94577

Re: Permit # SD-036, ARCO Service Station No. 2111, 1156 Davis Street, San Leandro

| <u>Item</u> | <u>Description</u>                              |
|-------------|---|
| <u>1</u>    | <u>Monthly Discharge Report for August 2008</u> |
| <u>2</u>    | <u>Table 1– Sewer Discharge Summary Report</u>  |

**Comments:**

Dear Ms. Treece:

Please find attached for your review the *Monthly Discharge Report* for August 2008, for the remediation system at ARCO Service Station No. 2111, located at 1156 Davis Street, San Leandro, California. A total of approximately 20,616 gallons of treated groundwater were discharged to the sanitary sewer between July 29, 2008 and August 27, 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: July 29, 2008 to August 27, 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: 20,616 U. S. Gallons

Signature of Certifying Official: \_\_\_\_\_

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

Title: Project Manager

Date: September 5, 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 discharge to the sewer. The remediation systems were found non-functioning on August 5, 12, and 27, 2008, due to a high-water level alarm either in the air stripper tank or in the oil-water separator and were re-started on the same respective days after re-setting the high level alarms.

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



**TABLE 1**  
**SEWER DISCHARGE SUMMARY REPORT**

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

| Report Month<br>(month/year) | Date                         | Effluent Totalizer<br>Reading (gallons) | Monthly Discharge<br>(gallons) |
|------------------------------|------------------------------|---|--------------------------------|
| July-07                      | 7/2/07 5:30                  | 480,377                                 | 115,872                        |
|                              | 7/10/2007 <sup>14</sup> 5:45 | 523,553                                 |                                |
|                              | 7/17/2007 <sup>15</sup> 5:00 | 546,094                                 |                                |
| August-07                    | 8/1/2007 <sup>15</sup> 5:00  | 580,301                                 | 36,612                         |
|                              | 8/7/07 5:00                  | 580,662                                 |                                |
|                              | 8/20/2007 <sup>15</sup> 5:00 | 582,706                                 |                                |
| September-07                 | 9/5/2007 <sup>16</sup> 5:00  | 589,944                                 | 8,737                          |
|                              | 9/11/2007 <sup>17</sup> 9:00 | 589,950                                 |                                |
|                              | 9/17/2007 <sup>18</sup> 5:30 | 591,443                                 |                                |
| October-07                   | 10/1/07 <sup>19</sup> 5:00   | 592,403                                 | 2,204                          |
|                              | 10/11/07 <sup>20</sup> 8:15  | NM                                      |                                |
|                              | 10/23/07 <sup>17</sup> 5:00  | NM                                      |                                |
|                              | 10/30/07 <sup>15</sup> 7:10  | 593,647                                 |                                |
| November-07                  | 11/6/07 <sup>11</sup> 4:30   | 612,552                                 | 19,890                         |
|                              | 11/14/07 <sup>17</sup> 6:00  | 612,552                                 |                                |
|                              | 11/20/07 <sup>15</sup> 6:50  | 613,537                                 |                                |
| December-07                  | 12/5/07 <sup>11</sup> 5:00   | 633,121                                 | 19,586                         |
|                              | 12/17/07 <sup>17</sup> 4:30  | 633,123                                 |                                |
| January-08                   | 1/7/08 <sup>11</sup> 5:00    | 635,200                                 | 2,918                          |
|                              | 1/15/08 <sup>17</sup> 7:00   | 636,041                                 |                                |
| February-08                  | 2/5/08 <sup>21</sup> 8:15    | 642,841                                 | 7,402                          |
|                              | 2/26/08 <sup>22</sup> 6:00   | 643,443                                 |                                |

**TABLE 1**  
**SEWER DISCHARGE SUMMARY REPORT**

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

| Report Month<br>(month/year) | Date                       | Effluent Totalizer<br>Reading (gallons) | Monthly Discharge<br>(gallons) |
|------------------------------|----------------------------|---|--------------------------------|
| March-08                     | 3/5/08 <sup>11</sup> 4:00  | 646,123                                 | 2,778                          |
|                              | 3/17/08 <sup>23</sup> 4:30 | 646,221                                 |                                |
| April-08                     | 4/1/08 <sup>24</sup> 5:00  | 719,174                                 | 111,462                        |
|                              | 4/14/08 <sup>25</sup> 5:00 | 719,881                                 |                                |
|                              | 4/22/08 5:00               | 757,683                                 |                                |
| May-08                       | 5/6/08 <sup>26</sup> 5:15  | 806,356                                 | 156,880                        |
|                              | 5/12/08 4:45               | 822,743                                 |                                |
|                              | 5/20/08 7:00               | 844,640                                 |                                |
|                              | 5/27/08 6:15               | 914,563                                 |                                |
| June-08                      | 6/2/08 <sup>15</sup> 5:00  | 949,693                                 | 103,304                        |
|                              | 6/9/08 <sup>15</sup> 7:15  | 984,702                                 |                                |
|                              | 6/16/08 <sup>15</sup> 7:16 | 1,001,527                               |                                |
|                              | 6/23/08 <sup>15</sup> 7:24 | 1,017,867                               |                                |
| July-08                      | 7/1/08 <sup>27</sup> 7:27  | 1,028,841                               | 11,876                         |
|                              | 7/7/08 <sup>28</sup> 6:54  | 1,029,035                               |                                |
|                              | 7/23/08 <sup>29</sup> 7:30 | 1,029,035                               |                                |
|                              | 7/29/08 <sup>15</sup> 4:30 | 1,029,743                               |                                |
| August-08                    | 8/5/08 <sup>30</sup> 4:30  | 1,037,580                               | 20,616                         |
|                              | 8/12/08 <sup>30</sup> 5:00 | 1,040,731                               |                                |
|                              | 8/27/08 <sup>30</sup> 9:15 | 1,050,359                               |                                |

**TABLE 1**  
**SEWER DISCHARGE SUMMARY REPORT**

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

| Report Month<br>(month/year)  | Date | Effluent Totalizer<br>Reading (gallons) | Monthly Discharge<br>(gallons) |
|---|------|---|--------------------------------|
| <p>Notes:</p> <p>NM = Not measured</p> <p><sup>1</sup> Submersible pump at well MW-2 was shutdown. This pump will be re-started after troubleshooting the level floats/controller malfunction.</p> <p><sup>2</sup> System observed non-functioning upon arrival. Re-started by re-setting power supply.</p> <p><sup>3</sup> System shutdown to verify effluent air results.</p> <p><sup>4</sup> System shutdown due to float malfunction.</p> <p><sup>5</sup> System re-started after replacing the floats.</p> <p><sup>6</sup> System shutdown due to high-level in oil-water separator. System restarted after replacing a capacitor on the transfer pump.</p> <p><sup>7</sup> System shutdown due to transfer pump malfunction. System could not be restarted pending replacement of transfer pump.</p> <p><sup>8</sup> System restarted after replacing transfer pump.</p> <p><sup>9</sup> System observed non-functioning upon arrival due to DPE liquid ring pump malfunction. System re-started, but shutdown after sampling pending receipt and verification of analytical results.</p> <p><sup>10</sup> System re-started upon compliance verification and after conducting maintenance on the liquid ring pump.</p> <p><sup>11</sup> System observed non-functioning upon arrival due to high water level alarm on air stripper. System re-started, but shutdown after sampling pending receipt and verification of analytical results.</p> <p><sup>12</sup> System re-started momentarily upon compliance verification and to collect carbon sample for profiling and change-out.</p> <p><sup>13</sup> System re-started upon receipt of analytical results for carbon profile.</p> <p><sup>14</sup> System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started after replacing particulate filters on the system.</p> <p><sup>15</sup> System observed non-functioning upon arrival due to high water level alarm on air stripper. System re-started after re-setting air stripper.</p> <p><sup>16</sup> System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started, but shutdown after sampling pending receipt and verification of analytical results.</p> <p><sup>17</sup> System re-started upon receipt of analytical results and compliance verification.</p> <p><sup>18</sup> System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started momentarily after conducting maintenance, but shutdown pending further troubleshooting.</p> |      |   |                                |

**TABLE 1**  
**SEWER DISCHARGE SUMMARY REPORT**

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

| Report Month<br>(month/year)  | Date | Effluent Totalizer<br>Reading (gallons) | Monthly Discharge<br>(gallons) |
|---|------|---|--------------------------------|
| <p><sup>19</sup> System re-started, but shutdown after sampling pending receipt and verification of analytical results.</p> <p><sup>20</sup> System re-started briefly but shutdown to verify effluent air results.</p> <p><sup>21</sup> 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.</p> <p><sup>22</sup> System re-started upon receipt of analytical results and compliance verification and replacement of transfer pump.</p> <p><sup>23</sup> System re-started upon receipt of analytical results and compliance verification, but DPE system was shutdown due to float malfunction.</p> <p><sup>24</sup> System observed non-functioning upon arrival due to power failure. System re-started, but shutdown after sampling pending receipt and verification of analytical results. Floats were replaced on DPE system.</p> <p><sup>25</sup> System re-started upon receipt of analytical results and compliance verification, but DPE system was shutdown due to transfer pump contactor malfunction. Currently only GETS operational.</p> <p><sup>26</sup> DPE system re-started after replacing transfer pump contactor.</p> <p><sup>27</sup> System observed non-functioning upon arrival due to high water level alarm on air stripper. System re-started, but shutdown after sampling pending receipt and verification of analytical results.</p> <p><sup>28</sup> System remained shutdown. Collected carbon sample (vapor phase) for profiling and change-out.</p> <p><sup>29</sup> System re-started after completion of carbon change-out.</p> <p><sup>30</sup> System observed non-functioning upon arrival due to high water level alarm on air stripper or oil-water separator. System re-started after re-setting alarm.</p> |      |   |                                |



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

## TRANSMITTAL

Date October 2, 2008  
Project E2111-03

To:  
Ms. Tiffany Treece  
City of San Leandro  
Civic Center, 835 E. 14<sup>th</sup> Street  
San Leandro, CA 94577

Re: Permit # SD-036, ARCO Service Station No. 2111, 1156 Davis Street, San Leandro

| <u>Item</u> | <u>Description</u>                                 |
|-------------|--|
| <u>1</u>    | <u>Monthly Discharge Report for September 2008</u> |
| <u>2</u>    | <u>Table 1- Sewer Discharge Summary Report</u>     |

**Comments:**

Dear Ms. Treece:

Please find attached for your review the *Monthly Discharge Report* for September 2008, for the remediation system at ARCO Service Station No. 2111, located at 1156 Davis Street, San Leandro, California. A total of approximately 6,591 gallons of treated groundwater were discharged to the sanitary sewer between August 27, 2008 and September 24, 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.

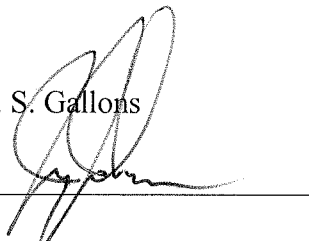
**MONTHLY DISCHARGE REPORT**  
**ARCO SERVICE STATION #2111, 1156 DAVIS STREET**

This form and enclosed documents serve as the remediation activities monthly discharge report to the City of San Leandro for the reporting period of: August 27, 2008 to September 24, 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: 28

Total monthly discharge: 6,591 U. S. Gallons

Signature of Certifying Official: \_\_\_\_\_



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

Title: Project Manager

Date: October 2, 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 discharge to the sewer. The remediation systems were found non-functioning on September 2, due to a high-water level alarm either in the air stripper tank or in the oil-water separator. The remediation systems were re-started momentarily on September 2, 2008 and shutdown after sampling, pending receipt and verification of analytical results. Upon receipt of analytical results and compliance verification, the remediation systems were re-started on September 10, 2008. The remediation systems were again found non-functioning on September 17, 2008 and September 24, 2008, due to a high-water level alarm either in the air stripper tank or in the oil-water separator and were re-started on the same respective days after re-setting the high level alarms.

Due to excessive hardening (cementing) of the lead carbon vessel, a carbon sample (liquid phase) was collected on September 10, 2008, for profiling and disposal purposes. A carbon change-out has been scheduled for October 2, 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<br>(month/year) | Date                         | Effluent Totalizer<br>Reading (gallons) | Monthly Discharge<br>(gallons) |
|------------------------------|------------------------------|---|--------------------------------|
| January-07                   | 1/29/07 8:00                 | System Start-up                         | 5,560                          |
|                              | 1/29/07 8:00                 | 3,000                                   |                                |
|                              | 1/29/07 <sup>1</sup> 12:00   | 5,000                                   |                                |
|                              | 01/30/07                     | 6,200                                   |                                |
|                              | 01/31/07                     | 8,560                                   |                                |
| February-07                  | 2/1/07 5:15                  | 16,860                                  | 114,230                        |
|                              | 2/2/07 5:00                  | 25,480                                  |                                |
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| March-07                     | 3/5/07 <sup>2</sup> 5:00     | 130,565                                 | 10,472                         |
|                              | 3/8/07 <sup>3</sup> 4:50     | 132,951                                 |                                |
|                              | 3/14/07 <sup>4</sup> 7:00    | NM                                      |                                |
|                              | 3/29/07 <sup>5</sup> 10:00   | 133,262                                 |                                |
| April-07                     | 4/2/07 <sup>6</sup> 5:30     | 170,596                                 | 66,881                         |
|                              | 4/10/07 <sup>7</sup> 5:00    | NM                                      |                                |
|                              | 4/23/07 <sup>8</sup> 7:00    | 172,210                                 |                                |
|                              | 4/26/07 6:00                 | 200,143                                 |                                |
| May-07                       | 5/1/2007 <sup>9</sup> 4:50   | 220,892                                 | 210,103                        |
|                              | 5/15/2007 <sup>10</sup> 5:00 | 225,297                                 |                                |
|                              | 5/29/07 8:30                 | 410,246                                 |                                |
| June-07                      | 6/4/2007 <sup>11</sup> 5:00  | 429,450                                 | 19,976                         |
|                              | 6/12/2007 <sup>12</sup> 5:00 | 430,092                                 |                                |
|                              | 6/26/2007 <sup>13</sup> 4:30 | 430,222                                 |                                |

**TABLE 1**  
**SEWER DISCHARGE SUMMARY REPORT**

ARCO Service Station No. 2111

1156 Davis Street

San Leandro, California

| Report Month<br>(month/year) | Date                         | Effluent Totalizer<br>Reading (gallons) | Monthly Discharge<br>(gallons) |
|------------------------------|------------------------------|---|--------------------------------|
| July-07                      | 7/2/07 5:30                  | 480,377                                 | 115,872                        |
|                              | 7/10/2007 <sup>14</sup> 5:45 | 523,553                                 |                                |
|                              | 7/17/2007 <sup>15</sup> 5:00 | 546,094                                 |                                |
| August-07                    | 8/1/2007 <sup>15</sup> 5:00  | 580,301                                 | 36,612                         |
|                              | 8/7/07 5:00                  | 580,662                                 |                                |
|                              | 8/20/2007 <sup>15</sup> 5:00 | 582,706                                 |                                |
| September-07                 | 9/5/2007 <sup>16</sup> 5:00  | 589,944                                 | 8,737                          |
|                              | 9/11/2007 <sup>17</sup> 9:00 | 589,950                                 |                                |
|                              | 9/17/2007 <sup>18</sup> 5:30 | 591,443                                 |                                |
| October-07                   | 10/1/07 <sup>19</sup> 5:00   | 592,403                                 | 2,204                          |
|                              | 10/11/07 <sup>20</sup> 8:15  | NM                                      |                                |
|                              | 10/23/07 <sup>17</sup> 5:00  | NM                                      |                                |
|                              | 10/30/07 <sup>15</sup> 7:10  | 593,647                                 |                                |
| November-07                  | 11/6/07 <sup>11</sup> 4:30   | 612,552                                 | 19,890                         |
|                              | 11/14/07 <sup>17</sup> 6:00  | 612,552                                 |                                |
|                              | 11/20/07 <sup>15</sup> 6:50  | 613,537                                 |                                |
| December-07                  | 12/5/07 <sup>11</sup> 5:00   | 633,121                                 | 19,586                         |
|                              | 12/17/07 <sup>17</sup> 4:30  | 633,123                                 |                                |
| January-08                   | 1/7/08 <sup>11</sup> 5:00    | 635,200                                 | 2,918                          |
|                              | 1/15/08 <sup>17</sup> 7:00   | 636,041                                 |                                |
| February-08                  | 2/5/08 <sup>21</sup> 8:15    | 642,841                                 | 7,402                          |
|                              | 2/26/08 <sup>22</sup> 6:00   | 643,443                                 |                                |



**TABLE 1**  
**SEWER DISCHARGE SUMMARY REPORT**

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

| Report Month<br>(month/year) | Date                        | Effluent Totalizer<br>Reading (gallons) | Monthly Discharge<br>(gallons) |
|------------------------------|-----------------------------|---|--------------------------------|
| March-08                     | 3/5/08 <sup>11</sup> 4:00   | 646,123                                 | 2,778                          |
|                              | 3/17/08 <sup>23</sup> 4:30  | 646,221                                 |                                |
| April-08                     | 4/1/08 <sup>24</sup> 5:00   | 719,174                                 | 111,462                        |
|                              | 4/14/08 <sup>25</sup> 5:00  | 719,881                                 |                                |
|                              | 4/22/08 5:00                | 757,683                                 |                                |
| May-08                       | 5/6/08 <sup>26</sup> 5:15   | 806,356                                 | 156,880                        |
|                              | 5/12/08 4:45                | 822,743                                 |                                |
|                              | 5/20/08 7:00                | 844,640                                 |                                |
|                              | 5/27/08 6:15                | 914,563                                 |                                |
| June-08                      | 6/2/08 <sup>15</sup> 5:00   | 949,693                                 | 103,304                        |
|                              | 6/9/08 <sup>15</sup> 7:15   | 984,702                                 |                                |
|                              | 6/16/08 <sup>15</sup> 7:16  | 1,001,527                               |                                |
|                              | 6/23/08 <sup>15</sup> 7:24  | 1,017,867                               |                                |
| July-08                      | 7/1/08 <sup>27</sup> 7:27   | 1,028,841                               | 11,876                         |
|                              | 7/7/08 <sup>28</sup> 6:54   | 1,029,035                               |                                |
|                              | 7/23/08 <sup>29</sup> 7:30  | 1,029,035                               |                                |
|                              | 7/29/08 <sup>15</sup> 4:30  | 1,029,743                               |                                |
| August-08                    | 8/5/08 <sup>30</sup> 4:30   | 1,037,580                               | 20,616                         |
|                              | 8/12/08 <sup>30</sup> 5:00  | 1,040,731                               |                                |
|                              | 8/27/08 <sup>30</sup> 9:15  | 1,050,359                               |                                |
| September-08                 | 9/2/08 <sup>31</sup> 8:30   | 1,052,669                               | 6,591                          |
|                              | 9/10/08 <sup>32</sup> 12:30 | 1,052,851                               |                                |
|                              | 9/17/08 <sup>30</sup> 7:00  | 1,056,514                               |                                |
|                              | 9/24/08 <sup>30</sup> 7:15  | 1,056,950                               |                                |

**TABLE 1**  
**SEWER DISCHARGE SUMMARY REPORT**

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

| Report Month<br>(month/year)  | Date | Effluent Totalizer<br>Reading (gallons) | Monthly Discharge<br>(gallons) |
|---|------|---|--------------------------------|
| <p>Notes:</p> <p>NM = Not measured</p> <p><sup>1</sup> Submersible pump at well MW-2 was shutdown. This pump will be re-started after troubleshooting the level floats/controller malfunction.</p> <p><sup>2</sup> System observed non-functioning upon arrival. Re-started by re-setting power supply.</p> <p><sup>3</sup> System shutdown to verify effluent air results.</p> <p><sup>4</sup> System shutdown due to float malfunction.</p> <p><sup>5</sup> System re-started after replacing the floats.</p> <p><sup>6</sup> System shutdown due to high-level in oil-water separator. System restarted after replacing a capacitor on the transfer pump.</p> <p><sup>7</sup> System shutdown due to transfer pump malfunction. System could not be restarted pending replacement of transfer pump.</p> <p><sup>8</sup> System restarted after replacing transfer pump.</p> <p><sup>9</sup> System observed non-functioning upon arrival due to DPE liquid ring pump malfunction. System re-started, but shutdown after sampling pending receipt and verification of analytical results.</p> <p><sup>10</sup> System re-started upon compliance verification and after conducting maintenance on the liquid ring pump.</p> <p><sup>11</sup> System observed non-functioning upon arrival due to high water level alarm on air stripper. System re-started, but shutdown after sampling pending receipt and verification of analytical results.</p> <p><sup>12</sup> System re-started momentarily upon compliance verification and to collect carbon sample for profiling and change-out.</p> <p><sup>13</sup> System re-started upon receipt of analytical results for carbon profile.</p> <p><sup>14</sup> System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started after replacing particulate filters on the system.</p> <p><sup>15</sup> System observed non-functioning upon arrival due to high water level alarm on air stripper. System re-started after re-setting air stripper.</p> <p><sup>16</sup> System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started, but shutdown after sampling pending receipt and verification of analytical results.</p> <p><sup>17</sup> System re-started upon receipt of analytical results and compliance verification.</p> <p><sup>18</sup> System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started momentarily after conducting maintenance, but shutdown pending further troubleshooting.</p> |      |   |                                |

**TABLE 1**  
**SEWER DISCHARGE SUMMARY REPORT**

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

| Report Month<br>(month/year)   | Date | Effluent Totalizer<br>Reading (gallons) | Monthly Discharge<br>(gallons) |
|--|------|---|--------------------------------|
| <p><sup>19</sup> System re-started, but shutdown after sampling pending receipt and verification of analytical results.</p> <p><sup>20</sup> System re-started briefly but shutdown to verify effluent air results.</p> <p><sup>21</sup> 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.</p> <p><sup>22</sup> System re-started upon receipt of analytical results and compliance verification and replacement of transfer pump.</p> <p><sup>23</sup> System re-started upon receipt of analytical results and compliance verification, but DPE system was shutdown due to float malfunction.</p> <p><sup>24</sup> System observed non-functioning upon arrival due to power failure. System re-started, but shutdown after sampling pending receipt and verification of analytical results. Floats were replaced on DPE system.</p> <p><sup>25</sup> System re-started upon receipt of analytical results and compliance verification, but DPE system was shutdown due to transfer pump contactor malfunction. Currently only GETS operational.</p> <p><sup>26</sup> DPE system re-started after replacing transfer pump contactor.</p> <p><sup>27</sup> System observed non-functioning upon arrival due to high water level alarm on air stripper. System re-started, but shutdown after sampling pending receipt and verification of analytical results.</p> <p><sup>28</sup> System remained shutdown. Collected carbon sample (vapor phase) for profiling and change-out.</p> <p><sup>29</sup> System re-started after completion of carbon change-out.</p> <p><sup>30</sup> System observed non-functioning upon arrival due to high water level alarm on air stripper or oil-water separator. System re-started after re-setting alarm.</p> <p><sup>31</sup> System observed non-functioning upon arrival due to high water level alarm on air stripper or oil-water separator. System re-started, but shutdown after sampling pending receipt and verification of analytical results.</p> <p><sup>32</sup> System re-started upon receipt of analytical results and compliance verification. Collected carbon sample (liquid phase) for profiling and change-out.</p> |      |   |                                |