

Atlantic Richfield Company (a BP affiliated company)

Alama



Alameda County Environmental Health

2:21 pm, Jan 30, 2008

RECEIVED

P.O. Box 1257

San Ramon, CA 94583 Phone: (925) 275-3801 Fax: (925) 275-3815

29 January 2008

Re: Fourth Quarter 2007 Ground-Water Monitoring and Remediation System Status Report

Atlantic Richfield Company (a BP affiliated company) Station #2111

1156 Davis Street San Leandro, California ACEH Case #RO0000494

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

Submitted by:

Paul Supple

Environmental Business Manger

Sail Supple

Fourth Quarter 2007 Ground-Water Monitoring and

Remediation System Status Report

Atlantic Richfield Company Station #2111 1156 Davis Street San Leandro, California

Prepared for

Mr. Paul Supple Environmental Business Manager Atlantic Richfield Company P.O. Box 1257 San Ramon, California 94583

Prepared by



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

29 January 2008

Project No. 06-08-615



29 January 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: Fourth Quarter 2007 Ground-Water Monitoring and Remediation System Status Report, Atlantic Richfield Company (a BP affiliated company) Station #2111, 1156 Davis Street,

San Leandro, California; ACEH Case #RO0000494

Dear Mr. Supple:

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

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

Sincerely,

BROADBENT & ASSOCIATES, INC.

Thomas A. Venus, P.E.

Senior Engineer

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

Principal Hydrogeologist

Enclosures

cc: Mr. Steven Plunkett, Alameda County Environmental Health (Submitted via ACEH ftp site)

Mr. Karl Busche, City of San Leandro Environmental Services Division, 835 East 14th Street,

San Leandro, California 94577

Electronic copy uploaded to GeoTracker

ARIZONA

CALIFORNIA

NEVADA

TEXAS

ROBERT H.

MILLER

No. 4893

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

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

WORK PERFORMED THIS QUARTER (Fourth Quarter 2007):

- 1. Prepared and submitted Third Quarter 2007 report.
- 2. Conducted ground-water monitoring/sampling for Fourth Quarter 2007. Work performed on 11 October 2007 by Stratus Environmental, Inc (Stratus).
- 3. Performed routine operation, maintenance and performance monitoring of the Dual-Phase Extraction (DPE) treatment system. Work performed by Stratus.
- 4. Submitted monthly discharge reports for October, November and December 2007 to the City of San Leandro. Work performed by Stratus.

WORK PROPOSED FOR NEXT QUARTER (First Quarter 2008):

- 1. Prepared and submitted this Fourth Quarter 2007 Ground-Water Monitoring and Remediation System Status Report (contained herein).
- 2. Conduct quarterly ground-water monitoring/sampling for First Quarter 2008.
- 3. Continue operation, maintenance and performance monitoring of the DPE treatment system.
- 4. Submit monthly discharge reports for January, February and March 2008.

QUARTERLY RESULTS SUMMARY:

| Current phase of project: | Ground-Water Monitoring/Sampling/Remediation |
|---------------------------------------|--|
| Frequency of ground-water | Quarterly: MW-1 through MW-8 |
| monitoring: | |
| Frequency of ground-water sampling: | Quarterly: MW-1 through MW-5, MW-7 and MW-8 |
| | Annually (3Q): MW-6 |
| Is free product (FP) present on-site: | No |
| FP recovered this quarter: | 0 gallons |
| Cumulative FP recovered: | 1.44 gallons (MW-2) |
| Depth to ground-water (below TOC): | 15.28 ft (MW-6) to 18.10 ft (MW-1) |
| General ground-water flow direction: | West |
| Approximate hydraulic gradient: | 0.01 ft/ft |
| Current remediation techniques: | DPE treatment system |
| System startup: | 01/29/2007 |
| Extraction wells: | SVE: V-1, V-2, V-3, MW-1, MW-3, MW-7, MW-8 |
| | GWE: MW-2 |
| Frequency of DPE system field | |
| monitoring: | Bi-weekly |
| Frequency of DPE system sampling: | Monthly |

Page 2

| QUARTERLY RESULTS SUMMAR | RY (Continued): | : | | |
|--------------------------------------|-----------------|-------------|-------------|--------------|
| Gallons of ground water treated and | This Quarter | | Cumulative | |
| discharged: | 41,680 | | 633,123 | |
| Total operation hours to date: | 78 | | 1544 | |
| Mass Removal (pounds) | | | | |
| Gasoline range organics (GRO): | 0.305 (GWE) | 51.46 (SVE) | 4.566 (GWE) | 349.79 (SVE) |
| Benzene: | 0.005 (GWE) | | 0.047 (GWE) | |
| Methyl-tert butyl ether (MTBE): | 0.243 (GWE) | | 4.881 (GWE) | |
| Ground-water DPE system influent | | | | |
| sample results (μg/L): | 10/1/2007 | 10/11/2007 | 11/6/2007 | 12/5/2007 |
| GRO: | 1,000 | | 1,100 | 120 |
| Benzene: | 30 | | 12 | 0.99 |
| MTBE: | 790 | | 870 | 79 |
| Ground-water DPE system effluent | | | | |
| sample results (μ g/L): | | | | |
| GRO: | < 50 | | < 50 | < 50 |
| Benzene: | < 0.50 | | < 0.50 | < 0.50 |
| MTBE: | < 0.50 | | <0.50 | <0.50 |
| Soil vapor DPE system influent | | | | |
| sample results (mg/M ³): | | | | |
| GRO: | 1,300 | | 1,000 | 830 |
| Benzene: | 1.2 | | 2.0 | < 0.50 |
| MTBE: | 14 | | 23 | 2.5 |
| Soil vapor DPE system effluent | | | | |
| sample results (mg/M ³): | | | | |
| GRO: | <10 | < 50 | <10 | <10 |
| Benzene: | <0.50 | < 0.50 | < 0.50 | < 0.50 |
| MTBE: | 2.2 | < 0.50 | < 0.50 | < 0.50 |

DISCUSSION:

Fourth quarter 2007 ground-water monitoring and sampling was conducted at Station #2111 on 11 October 2007 by Stratus personnel. Water levels were gauged in the eight wells at the Site. No irregularities were noted during water level gauging. Depth to water measurements ranged from 15.28 ft at MW-6 to 18.10 ft at MW-1. Resulting ground-water surface elevations ranged from 22.36 ft above mean sea level in well MW-7 to 21.29 ft at well MW-5. Water level elevations were between historic minimum and maximum ranges for each well, as summarized in Table 1. Water level elevations yielded a potentiometric ground-water flow direction and gradient to the west at approximately 0.01 ft/ft, generally inconsistent with historical data (see Table 3). Ground-water monitoring field data sheets are provided within Appendix A. Measured depths to ground water and respective ground-water elevations are summarized in Table 1. Historic free product thickness and cumulative product recovery from well MW-2 is presented in Table 4. Potentiometric ground-water elevation contours are presented in Drawing 1.

Consistent with the current ground-water sampling schedule, water samples were collected from wells MW-1 through MW-5, MW-7, and MW-8. No irregularities were reported during sampling this quarter. Samples were submitted under chain-of-custody protocol to Test America Analytical Testing Corporation (Morgan Hill, California), for analysis of Gasoline Range Organics (GRO, C4-12) by the LUFT GCMS Method; for Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by EPA Method 8260B; and tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Di-isopropyl ether (DIPE), 1,2-

anuary 2008 Page 3

Dibromomethane (EDB), 1,2-Dichloroethane (1,2-DCA), Ethanol, Ethyl tert-butyl ether (ETBE), and Methyl tert-butyl ether (MTBE) by EPA Method 8260B. The laboratory noted that the initial analysis was within holding time but required dilution for the sample collected from well MW-7. No other significant irregularities were encountered during laboratory analysis of the samples. Ground-water sampling field data sheets and the laboratory analytical report, including chain-of-custody documentation, are provided in Appendix A.

Concentrations of GRO were detected above the laboratory reporting limit in four of the seven wells sampled at concentrations up to 1,800 micrograms per liter (μ g/L) in well MW-2. Benzene was detected above the laboratory reporting limit in two of the seven wells sampled at concentrations up to 17 μ g/L in well MW-2. TAME was detected above the laboratory reporting limit in one of the seven wells sampled at a concentration of 1.7 μ g/L in well MW-8. TBA was detected above the laboratory reporting limit in four of the seven wells sampled at concentrations up to 1,300 μ g/L in well MW-2. MTBE was detected above the laboratory reporting limit in each of the seven wells sampled at concentrations up to 1,000 μ g/L in well MW-2. The remaining fuel additives and oxygenates were not detected above their laboratory reporting limits in the seven wells sampled this quarter.

Detected analyte concentrations were within the historic minimum and maximum ranges recorded for each well, with the following exceptions: the concentration of Benzene in wells MW-2 and MW-7 reached historic minimum values of 17 μ g/L and <0.5 μ g/L, the concentration of TAME reached a historic minimum value of <0.5 μ g/L in wells MW-3 and MW-4, TBA concentrations reached historic minimum values of 750 μ g/L and 150 μ g/L in wells MW-5 and MW-7, respectively, and MTBE concentrations reached historic minimum values of 5.3 μ g/L, 0.81 μ g/L, 4.8 μ g/L, and 370 μ g/L in wells MW-3, MW-4, MW-5, and MW-7, respectively. 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 Fourth Quarter 2007 period from 17 September 2007 to 17 December 2007, the DPE system reportedly operated approximately four percent of the time. During this period, a total of 41,680 gallons of ground water was treated and discharged. During the Fourth Quarter 2007, approximately 51.77 pounds of GRO (8.49 gallons), approximately 0.005 pounds of benzene (0.0007 gallons), and approximately 0.243 pounds of MTBE (0.039 gallons) was removed. Ground-water extraction system performance and analytical data is summarized in Tables 5, 6 and 7. Soil vapor extraction system performance and analytical data is summarized in Tables 8, 9 and 10.

The DPE system operated for approximately 3.25 days between 1 October 2007 and 17 December 2007 based on the hour meter reading. Stratus restarted the system on 1 October 2007 to collect samples. The system was shut down after sample collection pending receipt of the laboratory analytical results. MTBE was detected at 2.2 milligrams per cubic meter (mg/M³) in the effluent sample collected on 1 October 2007. Stratus restarted the system on 11 October 2007 in order to resample the effluent and immediately shut the system down pending receipt of the laboratory results. The analytical results from the effluent sample collected on 11 October 2007 were below laboratory reporting limits for petroleum hydrocarbons and fuel oxygenates. The system was restarted on 23 October 2007. Stratus found the system non-operational upon next arrival at the Site on 30 October 2007 due to a high water level alarm on the air stripper. The system was restarted before departure from the Site. Stratus found the system non-operational upon next arrival at the Site on 6 November 2007 due to a high water level alarm on the air stripper. The system was restarted momentarily on 6 November 2007 to facilitate sample collection and then shut down pending receipt of the laboratory results. On 14 November 2007 Stratus

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restarted the system after receiving the analytical results from the sample collected on 6 November 2007. The battery for the totalizer (prior to the air stripper) was replaced on 14 November 2007 and the totalizer was reset to zero. Stratus found the system again non-operational upon next arrival at the Site on 20 November 2007 due to a high water level alarm on the air stripper. The water filters were changed and the system was restarted before departing from the Site. Stratus found the system non-operational upon next arrival at the Site on 5 December 2007 due to a high water level alarm on the air stripper. The system was momentarily restarted on 5 December 2007, samples collected and then the system was shut down pending receipt of the laboratory results. On 17 December 2007 Stratus restarted the system after receiving the analytical results from the sample collected on 5 December 2007. Copies of Stratus' remediation system operation and maintenance data packages for Fourth Quarter 2007 are contained within Appendix C. Copies of Stratus' remediation system monthly discharge reports for Fourth Quarter 2007 are contained within Appendix D.

CLOSURE:

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

ATTACHMENTS:

| Drawing 1. | Ground-Water Elevation | Contour and Analy | vtical Summary Mar | n – 11 October 2007 |
|------------|-------------------------------|-------------------|--------------------------|---------------------|
| Diuwing i. | Oloulu Water Die Vation | Contour and I man | y ticai Saiiiiiai y ivia | |

- 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

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Figure 1. Cumulative GWE Mass Removal for GRO, Benzene, and MTBE Figure 2. GWE Influent Concentrations for GRO, Benzene, and MTBE Figure 3. SVE System Influent Concentration vs. Time Figure 4. SVE System Cumulative GRO Mass Removed vs. Time Appendix A. Stratus Ground-Water Sampling Data Package (Includes Field Data Sheets and Laboratory Analytical Report with Chain-of-Custody Documentation) Appendix B. GeoTracker Upload Confirmations Appendix C. Stratus Remediation System Operation and Maintenance Data Packages (Includes Field Data Sheets, Laboratory Reports, and Chain-of-Custody Documentation) Appendix D. Stratus Remediation System Monthly Discharge Reports (Includes Brief Statements Summarizing Operations and Discharge Summary Tables)

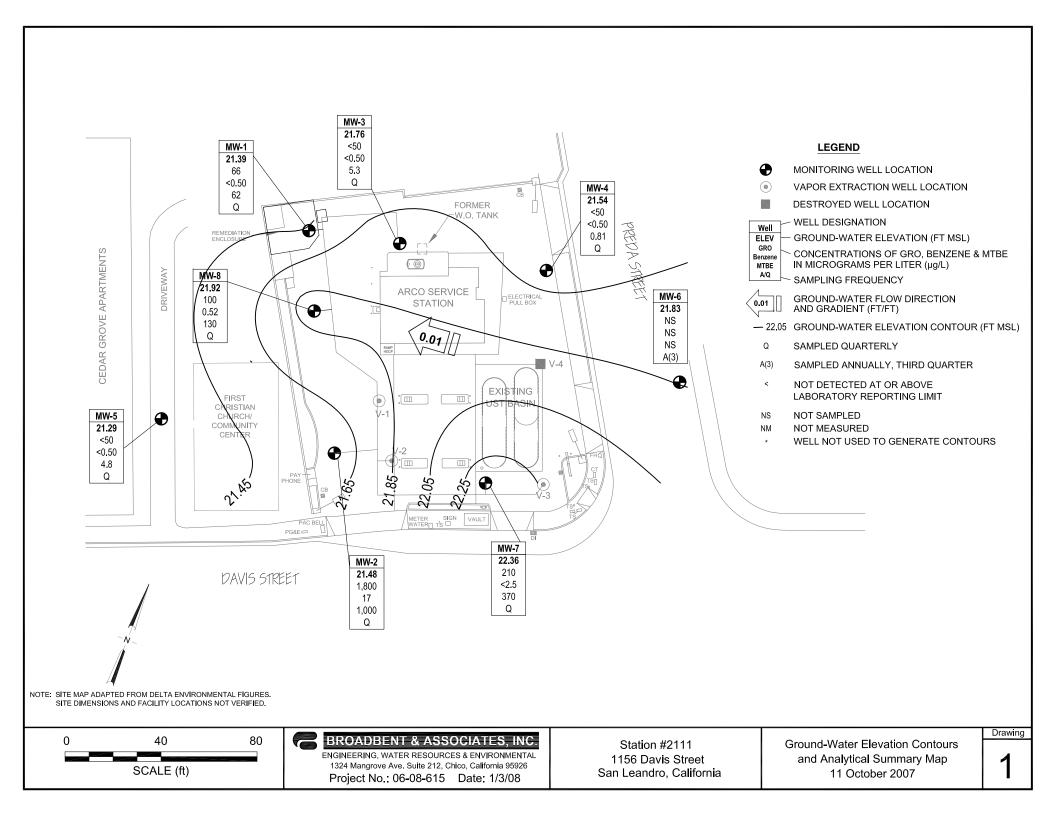


Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #2111, 1156 Davis St, San Leandro, CA

| | | | | Top of | Bottom of | | Water Level | | | Concentra | tions in (µ | g/L) | | | |
|-------------|------|----------|------------|----------|-----------|------------|-------------|--------|---------|-----------|-------------|---------|-------------|--------|------|
| Well and | | | TOC | Screen | Screen | DTW | Elevation | GRO/ | | | Ethyl- | Total | | DO | |
| Sample Date | P/NP | Comments | (feet msl) | (ft bgs) | (ft bgs) | (feet bgs) | (feet msl) | TPHg | Benzene | Toluene | Benzene | Xylenes | MTBE | (mg/L) | pН |
| MW-1 | | | | | | | | | | | | | | | |
| 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 | | С | 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 |

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

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

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

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

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

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

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

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

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

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

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

| | | | | Top of | Bottom of | | Water Level | | | Concentra | tions in (µ | g/L) | | | |
|-------------|------|----------|------------|----------|-----------|------------|-------------|----------|---------|-----------|-------------|---------|---------------|--------|------|
| Well and | | | TOC | Screen | Screen | DTW | Elevation | GRO/ | | | Ethyl- | Total | | DO | |
| Sample Date | P/NP | Comments | (feet msl) | (ft bgs) | (ft bgs) | (feet bgs) | (feet msl) | TPHg | Benzene | Toluene | Benzene | Xylenes | MTBE | (mg/L) | pН |
| MW-6 Cont. | | | | | | | | | | | | | | | |
| 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 | | | | | | | | |
| MW-7 | | | | | | | | | | | | | | | |
| 6/26/2000 | | | 38.68 | 12.0 | 27.00 | 14.34 | 24.34 | | | | | | | | |
| 7/20/2000 | | | 38.68 | 12.0 | 27.00 | 15.26 | 23.42 | 14,000 | 5.4 | < 0.5 | 2.8 | 5.9 | 71,000 | | |
| 9/19/2000 | | | 38.68 | 12.0 | 27.00 | 15.70 | 22.98 | 8,400 | 420 | 38 | 470 | 220 | 5,600 | | |
| 12/21/2000 | | | 38.68 | 12.0 | 27.00 | 16.02 | 22.66 | | | | | | | | |
| 3/13/2001 | | | 38.68 | 12.0 | 27.00 | 14.18 | 24.50 | <2,000 | 154 | 63 | 46.3 | 127 | 75,000/160,00 | | |
| 9/18/2001 | | | 38.68 | 12.0 | 27.00 | 17.02 | 21.66 | <100,000 | 1,900 | <1,000 | <1,000 | 2,800 | 90,000/370,00 | | |
| 12/28/2001 | | | 38.68 | 12.0 | 27.00 | 14.81 | 23.87 | <20,000 | <200 | <200 | <200 | <200 | 84,000/72,000 | | |
| 3/14/2002 | | | 38.68 | 12.0 | 27.00 | 14.60 | 24.08 | <50,000 | < 500 | < 500 | < 500 | < 500 | 85,000/85,000 | | |
| 4/23/2002 | | | 38.68 | 12.0 | 27.00 | 13.94 | 24.74 | <20,000 | 530 | 200 | 220 | 800 | 67,000 | | |
| 7/17/2002 | NP | d | 38.68 | 12.0 | 27.00 | 16.27 | 22.41 | 26,000 | 720 | <250 | <250 | 860 | 120,000 | 6.9 | 6.9 |
| 10/9/2002 | NP | d | 38.68 | 12.0 | 27.00 | 17.16 | 21.52 | 110,000 | 1,500 | 4,400 | 820 | 5,400 | 7,000/120,000 | 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 |

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

| | | | | Top of | Bottom of | | Water Level | | | Concentra | tions in (µ | п/Т) | | | |
|-------------|------|----------|------------|----------|-----------|------------|-------------|---------|---------|-----------|-------------|---------|--------|--------|------|
| Well and | | | тос | Screen | Screen | DTW | Elevation | GRO/ | | Concentra | Ethyl- | Total | | DO | |
| Sample Date | P/NP | Comments | (feet msl) | (ft bgs) | (ft bgs) | (feet bgs) | (feet msl) | TPHg | Benzene | Toluene | Benzene | Xylenes | MTBE | (mg/L) | pН |
| MW-7 Cont. | | | | | | | | | | | | | | | |
| 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 |
| MW-8 | | | | | | | | | | | | | | | |
| 02/05/2004 | P | m | 38.91 | | | 15.61 | 23.30 | 3,600 | <25 | <25 | <25 | <25 | 1,900 | 6.9 | 6.8 |
| 04/05/2004 | P | | 38.91 | | | 15.64 | 23.27 | 1,900 | <10 | <10 | <10 | <10 | 1,200 | 3.2 | 6.7 |
| 07/13/2004 | P | | 38.91 | | | 17.22 | 21.69 | <1,000 | <10 | <10 | <10 | <10 | 760 | 1.6 | 6.7 |
| 11/04/2004 | P | | 38.91 | | | 17.19 | 21.72 | 960 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | 820 | 1.8 | 6.7 |
| 01/20/2005 | P | | 38.91 | | | 15.25 | 23.66 | <2,500 | <25 | <25 | <25 | <25 | 1,400 | 1.5 | 6.4 |
| 04/11/2005 | P | | 38.91 | | | 14.17 | 24.74 | 700 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | 610 | 1.1 | 7.1 |
| 08/01/2005 | P | | 38.91 | | | 16.10 | 22.81 | <1,000 | <10 | <10 | <10 | <10 | 900 | 2.58 | 7.7 |
| 10/21/2005 | P | n | 38.91 | | | 17.18 | 21.73 | 530 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | 490 | 1.4 | 6.7 |
| 01/18/2006 | P | | 38.91 | | | 13.60 | 25.31 | < 500 | <5.0 | < 5.0 | <5.0 | <5.0 | 500 | 2.28 | 6.6 |
| 04/14/2006 | P | | 38.91 | | | 12.36 | 26.55 | < 500 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | 300 | 1.97 | 6.6 |
| 7/19/2006 | P | | 38.91 | | | 14.75 | 24.16 | 4,500 | <25 | <25 | <25 | <25 | 4,200 | 1.2 | 6.6 |
| 10/24/2006 | | s | | | | | | | | | | | | | |
| 1/15/2007 | P | | 38.91 | | | 15.67 | 23.24 | <50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 67 | 1.35 | 6.68 |
| 4/18/2007 | P | n | 38.91 | | | 15.53 | 23.38 | 100 | 0.51 | < 0.50 | < 0.50 | < 0.50 | 130 | 1.49 | 6.86 |
| 7/17/2007 | NP | n | 38.91 | | | 16.76 | 22.15 | 63 | < 0.50 | < 0.50 | < 0.50 | <0.50 | 96 | 1.85 | 6.97 |
| 10/11/2007 | P | | 38.91 | | | 16.99 | 21.92 | 100 | 0.52 | < 0.50 | < 0.50 | <0.50 | 130 | 1.67 | 7.18 |

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

 $\mu g/L = Micrograms per liter$

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.
- 1 = 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 methods 8020/ 8260B.

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 | | | | Concentrati | ons in (µg/L) | | | | |
|-------------|---------|--------|-------|-------------|---------------|----------|-------------|-------|----------|
| Sample Date | Ethanol | TBA | MTBE | DIPE | ETBE | TAME | 1,2-DCA | EDB | Comments |
| MW-1 | | | | | | | | | |
| 4/7/2003 | <100 | <20 | 1,100 | <0.50 | <0.50 | <0.50 | | | |
| 7/9/2003 | <5,000 | <1,000 | 690 | <25 | <25 | <25 | | | |
| 02/05/2004 | <5,000 | <1,000 | 1,100 | <25 | <25 | 32 | <25 | <25 | |
| 04/05/2004 | <5,000 | <1,000 | 1,700 | <25 | <25 | 38 | <25 | <25 | |
| | | 780 | · | | <10 | | <10 | | a |
| 07/13/2004 | <2,000 | | 730 | <10 | <5.0 | 19 12 | <10 <5.0 | <10 | a |
| 11/04/2004 | <1,000 | <200 | 380 | <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 | |
| MW-2 | | | | | | | | | |
| 04/05/2004 | <1,000 | <200 | 750 | <5.0 | <5.0 | <5.0 | <5.0 | < 5.0 | |
| 07/13/2004 | <10,000 | 12,000 | 5,800 | < 50 | <50 | < 50 | <50 | < 50 | a |
| 08/31/2004 | | | | | | | | | a |
| 01/20/2005 | <10,000 | <2,000 | 7,000 | <50 | <50 | <50 | <50 | < 50 | a |
| 04/11/2005 | <10,000 | <2,000 | 2,700 | <50 | <50 | < 50 | <50 | < 50 | |
| 08/01/2005 | <10,000 | <2,000 | 2,700 | <50 | <50 | <50 | <50 | < 50 | |
| 01/18/2006 | <30,000 | <2,000 | 1,600 | <50 | <50 | <50 | <50 | < 50 | |
| 04/14/2006 | <30,000 | <2,000 | 2,100 | <50 | <50 | <50 | <50 | <50 | |
| 7/19/2006 | <6,000 | <400 | 930 | <10 | <10 | <10 | <10 | <10 | |
| 1/15/2007 | <6,000 | 1,900 | 1,400 | <10 | <10 | <10 | <10 | <10 | |
| 4/18/2007 | <6,000 | 1,200 | 1,100 | <10 | <10 | <10 | <10 | <10 | |
| 7/17/2007 | <6,000 | 1,000 | 1,300 | <10 | <10 | <10 | <10 | <10 | |

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

| Well and | | | | Concentration | ons in (µg/L) | | | | |
|-------------|---------|-------|-------|---------------|---------------|-------|---------|--------|----------|
| Sample Date | Ethanol | TBA | MTBE | DIPE | ETBE | TAME | 1,2-DCA | EDB | Comments |
| MW-2 Cont. | | | | | | | | | |
| 10/11/2007 | <6,000 | 1,300 | 1,000 | <10 | <10 | <10 | <10 | <10 | |
| MW-3 | , | , | , | | | | | | |
| 4/7/2003 | <100 | <20 | 75 | <0.50 | <0.50 | 6.5 | | | |
| 7/9/2003 | <100 | <20 | 52 | <0.50 | <0.50 | 4.2 | | | |
| 02/05/2004 | <100 | <20 | 37 | <0.50 | <0.50 | 3.1 | < 0.50 | < 0.50 | |
| 04/05/2004 | <100 | <20 | 53 | <0.50 | <0.50 | 3.7 | <0.50 | <0.50 | a |
| 07/13/2004 | <100 | 44 | 35 | <0.50 | <0.50 | 3.2 | <0.50 | <0.50 | |
| 11/04/2004 | <100 | <20 | 25 | <0.50 | <0.50 | 2.2 | <0.50 | <0.50 | |
| 01/20/2005 | <100 | <20 | 27 | < 0.50 | <0.50 | 2.6 | < 0.50 | < 0.50 | |
| 04/11/2005 | <100 | <20 | 21 | < 0.50 | <0.50 | 2.0 | < 0.50 | < 0.50 | |
| 08/01/2005 | <100 | <20 | 23 | < 0.50 | < 0.50 | 1.9 | < 0.50 | < 0.50 | |
| 10/21/2005 | <100 | <20 | 19 | < 0.50 | < 0.50 | 2.0 | < 0.50 | < 0.50 | |
| 01/18/2006 | <300 | <20 | 13 | < 0.50 | < 0.50 | 1.3 | < 0.50 | < 0.50 | |
| 04/14/2006 | <300 | <20 | 6.7 | < 0.50 | < 0.50 | 0.61 | < 0.50 | < 0.50 | |
| 7/19/2006 | <300 | <20 | 11 | < 0.50 | < 0.50 | 0.72 | < 0.50 | < 0.50 | Г |
| 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 | |
| MW-4 | | | | | | | | | |
| 4/7/2003 | <100 | <20 | 24 | < 0.50 | < 0.50 | 7.3 | | | |
| 7/9/2003 | <100 | <20 | 34 | < 0.50 | < 0.50 | 9.8 | | | |
| 02/05/2004 | <100 | <20 | 22 | < 0.50 | < 0.50 | 6.2 | < 0.50 | < 0.50 | |
| 04/05/2004 | <100 | <20 | 27 | < 0.50 | < 0.50 | 7.2 | < 0.50 | < 0.50 | a |
| 07/13/2004 | <100 | 26 | 27 | < 0.50 | < 0.50 | 7.4 | < 0.50 | < 0.50 | a |
| 11/04/2004 | <100 | <20 | 19 | < 0.50 | < 0.50 | 5.1 | < 0.50 | < 0.50 | |
| 01/20/2005 | <100 | <20 | 18 | < 0.50 | < 0.50 | 5.2 | < 0.50 | < 0.50 | |
| 04/11/2005 | <100 | <20 | 14 | < 0.50 | < 0.50 | 4.0 | < 0.50 | < 0.50 | |
| 08/01/2005 | <100 | <20 | 18 | < 0.50 | < 0.50 | 3.9 | < 0.50 | < 0.50 | |

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

| Well and | Concentrations in (µg/L) | | | | | | | | |
|-------------|--------------------------|--------|--------|--------|--------|--------|---------|--------|----------|
| Sample Date | Ethanol | TBA | MTBE | DIPE | ETBE | TAME | 1,2-DCA | EDB | Comments |
| MW-4 Cont. | | | | | | | | | |
| 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 | |
| MW-5 | | | | | | | | | |
| 4/7/2003 | <20,000 | <4,000 | 3,700 | <100 | <100 | <100 | | | |
| 7/9/2003 | <10,000 | <2,000 | 6,500 | < 50 | <50 | < 50 | | | |
| 02/05/2004 | <10,000 | <2,000 | 7,900 | < 50 | <50 | <50 | <50 | < 50 | a |
| 04/05/2004 | <5,000 | <1,000 | 2,000 | <25 | <25 | <25 | <25 | <25 | a |
| 07/13/2004 | <10,000 | 3,200 | 4,000 | <50 | <50 | <50 | <50 | < 50 | a |
| 11/04/2004 | <10,000 | <2,000 | 6,300 | < 50 | < 50 | < 50 | <50 | < 50 | |
| 01/20/2005 | <10,000 | <2,000 | 6,900 | < 50 | <50 | < 50 | <50 | < 50 | a |
| 04/11/2005 | <10,000 | 3,600 | 2,600 | < 50 | < 50 | < 50 | < 50 | < 50 | |
| 08/01/2005 | <200 | 1,600 | 130 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 10/21/2005 | < 500 | 1,400 | 86 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | |
| 01/18/2006 | <1,500 | 2,200 | 100 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | |
| 04/14/2006 | <1,500 | 2,100 | 240 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | |
| 7/19/2006 | <1,500 | 2,800 | 84 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | r |
| 10/24/2006 | <300 | 1,200 | 17 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | a |
| 1/15/2007 | <300 | 990 | 36 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | |
| 4/18/2007 | <1,500 | 2,000 | 16 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | |
| 7/17/2007 | <1,500 | 1,100 | 6.6 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | |
| 10/11/2007 | <300 | 750 | 4.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| MW-6 | | | | | | | | | |
| 4/7/2003 | <100 | <20 | < 0.50 | < 0.50 | <0.50 | <0.50 | | | |

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

| Well and | Concentrations in (µg/L) | | | | | | | | | |
|-------------|--------------------------|---------|--------|--------|--------|--------|---------|--------|----------|--|
| Sample Date | Ethanol | TBA | MTBE | DIPE | ETBE | TAME | 1,2-DCA | EDB | Comments | |
| MW-6 Cont. | | | | | | | | | | |
| 7/9/2003 | <100 | <20 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | | | | |
| 07/13/2004 | <100 | <20 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | a | |
| 08/01/2005 | <100 | <20 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | | |
| 7/19/2006 | <300 | <20 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | r | |
| 7/17/2007 | <300 | <20 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | | |
| MW-7 | | | | | | | | | | |
| 4/7/2003 | <5,000 | <1,000 | 710 | <25 | <25 | <25 | | | | |
| 7/9/2003 | <100,000 | <20,000 | 36,000 | < 500 | <500 | <500 | | | | |
| 02/05/2004 | <50,000 | <10,000 | 34,000 | <250 | <250 | <250 | <250 | <250 | | |
| 04/05/2004 | <50,000 | <10,000 | 37,000 | <250 | <250 | <250 | <250 | <250 | | |
| 07/13/2004 | <200,000 | <40,000 | 56,000 | <1,000 | <1,000 | 1,300 | <1,000 | <1,000 | | |
| 11/04/2004 | <100,000 | <20,000 | 71,000 | <500 | < 500 | < 500 | < 500 | < 500 | | |
| 01/20/2005 | <50,000 | <10,000 | 36,000 | <250 | <250 | <250 | <250 | <250 | a | |
| 04/11/2005 | <5,000 | <1,000 | 1,200 | <25 | <25 | <25 | <25 | <25 | | |
| 08/01/2005 | <50,000 | <10,000 | 4,800 | <250 | <250 | <250 | <250 | <250 | | |
| 10/21/2005 | <20,000 | 24,000 | 12,000 | <100 | <100 | <100 | <100 | <100 | | |
| 01/18/2006 | <60,000 | 15,000 | 13,000 | <100 | <100 | <100 | <100 | <100 | | |
| 04/14/2006 | <60,000 | <4,000 | 4,700 | <100 | <100 | <100 | <100 | <100 | | |
| 7/19/2006 | <6,000 | 720 | 1,600 | <10 | <10 | <10 | <10 | <10 | | |
| 10/24/2006 | <3,000 | 10,000 | 14,000 | <5.0 | <5.0 | 31 | <5.0 | < 5.0 | a | |
| 1/15/2007 | <60,000 | 9,300 | 3,900 | <100 | <100 | <100 | <100 | <100 | | |
| 4/18/2007 | <30,000 | <2,000 | 2,700 | <50 | <50 | < 50 | <50 | < 50 | | |
| 7/17/2007 | <15,000 | <1,000 | 890 | <25 | <25 | <25 | <25 | <25 | | |
| 10/11/2007 | <1,500 | 150 | 370 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | | |
| MW-8 | | | | | | | | | | |
| 02/05/2004 | <5,000 | <1,000 | 1,900 | <25 | <25 | <25 | <25 | <25 | | |
| 04/05/2004 | <2,000 | <400 | 1,200 | <10 | <10 | 12 | <10 | <10 | a | |
| 07/13/2004 | <2,000 | 770 | 760 | <10 | <10 | <10 | <10 | <10 | a | |
| 11/04/2004 | <1,000 | <200 | 820 | <5.0 | <5.0 | 9.6 | <5.0 | <5.0 | | |
| 01/20/2005 | <5,000 | <1,000 | 1,400 | <25 | <25 | <25 | <25 | <25 | a | |

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

| Well and | | | | Concentration | ons in (µg/L) | | | | |
|-------------|---------|--------|-------|---------------|---------------|------|---------|--------|----------|
| Sample Date | Ethanol | TBA | MTBE | DIPE | ETBE | TAME | 1,2-DCA | EDB | Comments |
| MW-8 Cont. | | | | | | | | | |
| 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 | |

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

 $\mu g/L = Micrograms per Liter$

FOOTNOTES:

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

NOTES

All volatile organic compounds analyzed using EPA Method 8260B.

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

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

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

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

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

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

FOOTNOTES:

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

ND Non-detect

NA Not applicable

Table 5

Soil Vapor Extraction System and Ground-Water Extraction System

Monthly Discharge Analytical Results Summary

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

| Date Sampled | Sampling Port | Matrix | GRO | Benzene | Toluene | Ethylbenzene | Total Xylenes | TAME | TBA | MtBE |
|--------------|----------------------------------|------------------------------|--------------------|------------------|----------------|----------------|------------------|----------------|------------|-------------|
| | SVE-Influent | Air (mg/m³) | 77 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | | | 9.4 |
| | SVE A/S-Effluent | Air (mg/m³) | <10 | 0.19 | < 0.10 | 0.10 | < 0.20 | | | 5.1 |
| 1/29/2007 | SVE-Effluent | Air (mg/m ³) | <10 | < 0.10 | < 0.10 | < 0.10 | < 0.20 | | | < 0.50 |
| 1/29/2007 | GWE-Influent | Water (µg/L) | 2,000 | 35 | <12 | 23 | 14 | <12 | 1,800 | 1,300 |
| | GWE A/S-Effluent | Water (µg/L) | 92 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 1,900 | 150 |
| | GWE-Effluent | Water (µg/L) | <50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <20 | < 0.50 |
| | SVE-Influent | Air (mg/m³) | 400 | 10 ² | < 0.50 | 4.7 | 2.9^{2} | | | 21 |
| | SVE A/S-Effluent | Air (mg/m ³) | <10 | < 0.10 | < 0.10 | < 0.10 | < 0.20 | | | < 0.50 |
| | SVE-Effluent | Air (mg/m³) | <10 | < 0.10 | < 0.10 | < 0.10 | < 0.20 | | | < 0.50 |
| 2/5/2007 | | | | | | | | | | |
| | GWE-Influent | Water (µg/L) | 1,400 ¹ | 25 | < 5.0 | 15 | 7.9 | 7.5 | 1,700 | 1,600 |
| | GWE A/S-Effluent | Water (µg/L) | 320 ¹ | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 0.65 | 1,600 | 170 |
| | GWE-Effluent | Water (µg/L) | <50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <20 | < 0.50 |
| | SVE-Influent | Air (mg/m³) | 100 | 2.3 ² | < 0.50 | 1.2 | 1.6 | | | 26 |
| | SVE A/S-Effluent | Air (mg/m³) | 11 | 0.10 | < 0.10 | 0.13 | < 0.20 | | | 10 |
| | SVE-Effluent | Air (mg/m³) | <10 | 0.17 | < 0.10 | 0.28 | < 0.20 | | | < 0.50 |
| 3/5/2007 | | | | | | | | | | |
| | GWE-Influent | Water (µg/L) | 1,500 ¹ | 20 | <5.0 | 16 | 15 | 5.6 | 1,600 | 1,600 |
| | GWE A/S-Effluent | Water (µg/L) | 220 ¹ | < 0.50 | < 0.50 | <0.50 | < 0.50 | < 0.50 | 1,600 | 200 |
| | GWE-Effluent | Water (µg/L) | <50 | < 0.50 | < 0.50 | <0.50 | < 0.50 | < 0.50 | <20 | < 0.50 |
| | SVE-Influent | Air (mg/m³) | 190 | 4.32 | < 0.50 | 1.1 | 2.5 | | | 30 |
| | SVE A/S-Effluent | Air (mg/m ³) | <10 | < 0.10 | < 0.10 | < 0.10 | < 0.20 | | | 5.2 |
| | SVE-Effluent | Air (mg/m ³) | <10 | < 0.10 | < 0.10 | < 0.10 | < 0.20 | | | < 0.50 |
| 4/2/2007 | | | | | | | | | | |
| | GWE-Influent | Water (µg/L) | 1,000 ¹ | 7.1 | < 5.0 | 6.7 | 16 | 6.6 | 1,200 | 1,200 |
| | GWE A/S-Effluent | Water (µg/L) | 94¹ | <5.0 | < 5.0 | <5.0 | <5.0 | <5.0 | 710 | 120 |
| | GWE-Effluent | Water (µg/L) | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <20 | < 0.50 |
| | SVE-Influent | Air (mg/m³) | 160 | < 0.50 | < 0.50 | < 0.50 | 0.97 | | | 18 |
| | SVE A/S-Effluent | Air (mg/m³) | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | | | 11 |
| | SVE-Effluent | Air (mg/m³) | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | | | < 0.50 |
| 5/1/2007 | CWE L.C. | W . (#) | oool | | | | | | # 40 | |
| | GWE-Influent GWE A/S-Effluent | Water (µg/L) | 900¹ 76¹ | <5.0 | <5.0 | <5.0 | 9.0 | 5.2 | 740 | 900 |
| | GWE-Effluent | Water (μg/L) Water (μg/L) | <50 | <0.50 <0.50 | <0.50 <0.50 | <0.50 <0.50 | <0.50 <0.50 | <0.50 <0.50 | 640 <20 | 66 <0.50 |
| | SVE-Influent | Air (mg/m³) | 330 | 0.56 | 0.89 | 1.8 | 2.6 | | | 14 |
| | SVE A/S-Effluent | Air (mg/m³) | <50 | < 0.50 | 0.67 | < 0.50 | 1.3 | | | 3.7 |
| | SVE-Effluent | Air (mg/m³) | <50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | | | < 0.50 |
| 6/4/2007 | | | | | | | | | | |
| | GWE-Influent | Water (µg/L) | 540¹ | < 5.0 | < 5.0 | 13 | 12 | < 5.0 | 520 | 670 |
| | GWE A/S-Effluent | Water (µg/L) | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 290 | 17 |
| | GWE-Effluent | Water (µg/L) | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <20 | < 0.50 |
| | SVE-Influent | Air (mg/m³) | 180 | < 0.50 | < 0.50 | < 0.50 | <1.0 | | | 11 |
| | SVE A/S-Effluent | Air (mg/m³) | <10 | < 0.10 | < 0.10 | < 0.10 | < 0.20 | | | 0.87 |
| | SVE-Effluent | Air (mg/m ³) | <10 | < 0.10 | < 0.10 | < 0.10 | < 0.20 | | | < 0.50 |
| 7/2/2007 | | | | | | | | | | |
| | GWE-Influent | Water (µg/L) | 370¹ | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | <200 | 400 |
| | GWE A/S-Effluent | Water (µg/L) | <50 | < 0.50 | < 0.50 | <0.50 | < 0.50 | < 0.50 | 84 | 35 |
| | GWE-Effluent | Water (µg/L) | <50 | <0.50 | <0.50 | <0.50 | <0.50 | < 0.50 | <20 | < 0.50 |
| | SVE-Influent SVE A/S-Effluent | Air (mg/m³) Air (mg/m³) | 660 | <1.0 | <1.0 | 1.2 | 2.2 | | | 11 |
| | SVE-Effluent | Air (mg/m³) | 11 <10 | 0.25 <0.10 | <0.10 <0.10 | 0.21 <0.10 | 0.22 <0.20 | | | 11 <0.50 |
| 8/1/2007 | S . L Lindelli | / til (ilig/ili) | <10 | ₹0.10 | <0.10 | <0.10 | <0.20 | | | <0.50 |
| 0/1/2007 | GWE-Influent | Water (µg/L) | 470 | 5.5 | < 5.0 | 9.1 | 17 | < 5.0 | 870 | 600 |
| | GWE A/S-Effluent | Water (µg/L) | <50 | < 0.50 | < 0.50 | <0.50 | < 0.50 | < 0.50 | 28 | 6.8 |
| | GWE-Effluent | Water (µg/L) | <50 | < 0.50 | < 0.50 | <0.50 | < 0.50 | < 0.50 | <20 | < 0.50 |
| | SVE-Influent | Air (mg/m³) | 1,200 | 0.79 | < 0.50 | 1.5 | 3.8 | | | 14 |
| | SVE A/S-Effluent | Air (mg/m ³) | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | | | 5.1 |
| | SVE-Effluent | Air (mg/m³) | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | | | < 0.50 |
| 9/5/2007 | l | | | | | | | | | |
| | GWE-Influent | Water (µg/L) | 410 | 5.6 | < 5.0 | 10 | 28 | < 5.0 | 830 | 580 |
| | GWE A/S-Effluent | Water (µg/L) | <50 | < 0.50 | < 0.50 | <0.50 | < 0.50 | < 0.50 | 830 | 37 |
| | GWE-Effluent | Water (µg/L) | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <20 | < 0.50 |

Table 5 Soil Vapor Extraction System and Ground-Water Extraction System Monthly Discharge Analytical Results Summary

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

| Date Sampled | Sampling Port | Matrix | GRO | Benzene | Toluene | Ethylbenzene | Total Xylenes | TAME | TBA | MtBE |
|--------------|------------------|--------------------------|-------|---------|-----------|--------------|------------------|------------|-----------------|------------------------|
| | SVE-Influent | Air (mg/m ³) | 1,300 | 1.2 | < 0.50 | 2.6 | 5.2 | | | 14 |
| | SVE A/S-Effluent | Air (mg/m ³) | <10 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | | | 2.6 |
| | SVE-Effluent | Air (mg/m ³) | <10 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | | | 2.2 |
| 10/1/2007 | | | | | | | | | | |
| | GWE-Influent | Water (µg/L) | 1,000 | 30 | < 5.0 | 9.1 | < 5.0 | < 5.0 | 1.400 | 790 |
| | GWE A/S-Effluent | Water (µg/L) | 60 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 970 | 71 |
| | GWE-Effluent | Water (µg/L) | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <20 | < 0.50 |
| | SVE-Influent | Air (mg/m³) | 1,000 | 2.0 | < 0.50 | 4.0 | 5.3 | | | 23 |
| | SVE A/S-Effluent | Air (mg/m ³) | 13 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | | | 15 |
| | SVE-Effluent | Air (mg/m³) | <10 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | | | < 0.50 |
| 11/6/2007 | | | | | | | | | | |
| | GWE-Influent | Water (µg/L) | 1,100 | 12 | < 5.0 | 27 | 39 | 5.9 | 1,100 | 870 |
| | GWE A/S-Effluent | Water (µg/L) | 120 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 1,100 | 93 |
| | GWE-Effluent | Water (µg/L) | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <20 | < 0.50 |
| | SVE-Influent | Air (mg/m³) | 830 | < 0.50 | < 0.50 | 1.0 | 1.2 | | | 2.5 |
| | SVE A/S-Effluent | Air (mg/m ³) | <10 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | | | < 0.50 |
| | SVE-Effluent | Air (mg/m ³) | <10 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | | | < 0.50 |
| 12/5/2007 | | | | | | | | | | |
| | GWE-Influent | Water (µg/L) | 120 | 0.993 | $<0.50^3$ | 2.33 | 6.73 | 0.52^{3} | 51 ³ | 79 ³ |
| | 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 |

Notes:

SVE = Soil Vapor Extration GWE = Groundwater Extration

= Groundwater Extration = milligrams per meter cubed = milligrams per liter = gasoline range organics = methyl teritary butyl ether = tert-Butyl alcohol = Not sampled. mg/m3 mg/L GRO MtBE TBA

 1 = Hydrocarbon result partly due to individual peak(s) in quantitation range 2 = Primary and confirm results varied by >40% RPE 3 = Sample taken from VOA vial with air bubble >6 millimeters in diamete

Table 6 Ground-Water Extraction System Performance Data

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

| | | | | | | | GR | <u>10</u> | | | Ben | zene | | | <u>M</u> | TBE | |
|-----------------------------|----------------|-----------|---------------|---------------|----------------|---------------|-----------|-----------|----------|----------|-----------|----------|----------|----------|-----------|----------|----------|
| | | | | | Average | Influent | | | | Influent | | | | Influent | | | |
| | | | Totalizer | Monthly | Discharge | Concen- | Removal | Net | Removed | Concen- | Removal | Net | Removed | Concen- | Removal | Net | Removed |
| Sample | Date | | Value | Volume | Rate | tration | Rate | Removed | To Date | tration | Rate | Removed | To Date | tration | Rate | Removed | To Date |
| ID | Sampled | Notes | (gallons) | (gallons) | (gpm) | $(\mu g/L)$ | (lbs/day) | (pounds) | (pounds) | (µg/L) | (lbs/day) | (pounds) | (pounds) | (µg/L) | (lbs/day) | (pounds) | (pounds) |
| INFL | 01/29/07 | | 3,000 | NA | NA | 2,000 | 0.00 | 0.000 | 0.000 | 35 | 0.0E+00 | 0.000 | 0.000 | 1,300 | 0.0E+00 | 0.000 | 0.000 |
| INFL | 02/05/07 | | 33,400 | 30,400 | 3.02 | 1,400 | 0.06 | 0.431 | 0.431 | 25.0 | 1.1E-03 | 0.008 | 0.008 | 1,600.00 | 5.3E-02 | 0.368 | 0.368 |
| INFL | 03/05/07 | | 130,565 | 97,165 | 2.41 | 1,500 | 0.04 | 1.175 | 1.606 | 20.0 | 6.5E-04 | 0.018 | 0.026 | 1,600.00 | 4.6E-02 | 1.297 | 1.664 |
| INFL | 04/02/07 | | 170,596 | 40,031 | 0.99 | 1,000 | 0.01 | 0.417 | 2.023 | 7.1 | 1.6E-04 | 0.005 | 0.030 | 1,200 | 1.7E-02 | 0.467 | 2.132 |
| INFL | 05/01/07 | | 225,297 | 54,701 | 1.31 | 900 | 0.01 | 0.433 | 2.457 | < 5.0 | 7.6E-05 | 0.002 | 0.033 | 900 | 1.7E-02 | 0.479 | 2.611 |
| INFL | 06/04/07 | | 429,450 | 204,153 | 4.17 | 540 | 0.04 | 1.226 | 3.683 | < 5.0 | 1.3E-04 | 0.004 | 0.037 | 670 | 3.9E-02 | 1.337 | 3.947 |
| INFL | 07/02/07 | | 480,377 | 50,927 | 1.26 | 370 | 0.01 | 0.193 | 3.876 | < 5.0 | 3.8E-05 | 0.001 | 0.038 | 400 | 8.1E-03 | 0.227 | 4.174 |
| INFL | 08/01/07 | | 580,301 | 99,924 | 2.31 | 470 | 0.01 | 0.350 | 4.226 | 5.5 | 1.1E-04 | 0.003 | 0.041 | 600 | 1.4E-02 | 0.417 | 4.591 |
| INFL | 09/05/07 | | 589,944 | 9,643 | 0.19 | 410 | 0.00 | 0.035 | 4.261 | 5.6 | 1.3E-05 | 0.000 | 0.042 | 580 | 1.4E-03 | 0.047 | 4.639 |
| INFL | 10/01/07 | | 592,403 | 2,459 | 0.07 | 1,000 | 0.00 | 0.014 | 4.276 | 30.0 | 1.4E-05 | 0.000 | 0.042 | 790 | 5.4E-04 | 0.014 | 4.653 |
| INFL | 11/06/07 | | 615,161 | 22,758 | 0.44 | 1,100 | 0.01 | 0.199 | 4.475 | 12.0 | 1.1E-04 | 0.004 | 0.046 | 870 | 4.4E-03 | 0.158 | 4.810 |
| INFL | 12/05/07 | | 633,121 | 17,960 | 0.43 | 120 | 0.00 | 0.091 | 4.566 | 0.99 | 3.4E-05 | 0.001 | 0.047 | 79 | 2.5E-03 | 0.071 | 4.881 |
| | NG PERIOD: | | • | R 2007 | | | | | | | | | | | | | |
| | VATER DISC | | .0 / | | 43,177 | as of 12/5/20 | 07 | | | | | | | | | | |
| | E DISCHARG | | (gpm) | | 0.46 | | | | | | | | | | | | |
| | OUNDS REA | | _ | | | | | 0.305 | | | | 0.005 | | | | 0.243 | |
| | GALLONS RE | |): | | | | | 0.050 | | | | 0.001 | | | | 0.039 | |
| | OUNDS REM | | | | | | | | 4.566 | | | | 0.047 | | | | 4.881 |
| | ALLONS RE | | | | 633,121 | | | | 0.749 | | | | 0.006 | | | | 0.790 |
| | ED PERCEN | T CARB | ON LOADIN | G: | | 15.8% | | | | | | | | | | | |
| Explanatio | | | | | | | | | | | | | | | | | |
| μg/L | = Microgram | - | • | | | | | | | | | | | | | | |
| gpm | = Gallons per | | | | | | | | | | | | | | | | |
| lbs/day | = Pounds per | • | | | | | | | | | | | | | | | |
| GRO | = Gasoline ra | | | | | | | | | | | | | | | | |
| MtBE | = Methyl tert | | | | | | | | | | | | | | | | |
| | gasoline = 6.1 | | • | | | | | | | | | | | | | | |
| - | benzene = 7.34 | | - | | | | | | | | | | | | | | |
| | MtBE = 6.18 p | • | gallon | | | | | | | | | | | | | | |
| NA | = Not applica | able | | | | | | | | | | | | | | | |
| Assumption | | | | | | | | | | | | | | | | | |
| Primary | carbon loading | g = 2,000 | pounds of car | bon (includes | primary carbon | unit only) | | | | | | | | | | | |

2) Percent carbon loading calculation assumes a loading isotherm of 3% by weight

Page 1 of 1

Table 7 Ground-Water Extraction System Effluent Data

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

| | | | | | | | | Efflue | nt Concentr | ations | | |
|--------------|-----------------|-------|---------------------------------|--------------------------------|------------------------------|---------------|----------------|----------------|-----------------------------|----------------|---------------|----------------|
| Sample ID | Date Sampled | Notes | Totalizer Value (gallons) | Monthly Volume (gallons) | Average Discharge Rate (gpm) | 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 |

REPORTING PERIOD: FOURTH QUARTER 2007

PERIOD WATER DISCHARGED (gal): 41,680 as of 12/17/2007

AVERAGE DISCHARGE RATE (gpm) 0.46

Explanations:

μg/L = Micrograms per liter
mg/L = Milligrams per liter
gpm = Gallons per minute
GRO = Gasoline Range Organics
MtBE = Methyl tertiary butyl ether

NA = Data not available

Table 8 OPERATIONAL UPTIME INFORMATION FOR THE SOIL VAPOR EXTRACTION SYSTEM

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

| Date | Hr. Meter | No. of Days E | Setween Sam | pling Dates | Cumulat | Percent | |
|----------|-----------|---------------|-------------|-------------|------------|---------|--------|
| Date | Reading | Total Days | Uptime | Days Down | Total Days | Uptime | Uptime |
| 01/29/07 | 13.6 | NA | NA | NA | NA | NA | NA |
| 02/05/07 | 178.7 | 7 | 6.9 | 0.1 | 7 | 6.90 | 98% |
| 03/05/07 | 437.6 | 28 | 10.8 | 17.2 | 35 | 17.7 | 39% |
| 04/02/07 | 490.7 | 28 | 2.2 | 25.8 | 63 | 19.9 | 8% |
| 05/01/07 | 594.2 | 29 | 4.3 | 24.7 | 92 | 24.2 | 15% |
| 06/04/07 | 981.7 | 34 | 16.1 | 17.9 | 126 | 40.4 | 47% |
| 07/02/07 | 1128.4 | 28 | 6.1 | 21.9 | 154 | 46.5 | 22% |
| 08/01/07 | 1430.1 | 30 | 12.6 | 17.4 | 184 | 59.0 | 42% |
| 09/05/07 | 1460.4 | 35 | 1.3 | 33.7 | 219 | 60.3 | 4% |
| 10/01/07 | 1466.1 | 26 | 0.2 | 25.8 | 245 | 60.5 | 1% |
| 11/06/07 | 1500.0 | 36 | 1.4 | 34.6 | 281 | 62.0 | 4% |
| 12/05/07 | 1544.0 | 29 | 1.8 | 27.2 | 310 | 63.8 | 6% |

NA = Not applicable

${\bf Table~9} \\ {\bf SOIL~VAPOR~EXTRACTION~SYSTEM~FLOW~RATES~AND~AIR~SAMPLE~ANALYTICAL~RESULTS} \\$

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

| | Flow Rate | Vacuum | Sampling | | | Ana | lytes (mg/m ³) | | |
|----------|-----------|---------|--------------|-------|---------|---------|----------------------------|---------|--------|
| Date | (cfm) | (in Hg) | Port | GRO | Benzene | Toluene | Ethylbenzene | Xylenes | MtBE |
| | | | Influent | 77 | < 0.5 | < 0.5 | < 0.5 | <1.0 | 9.4 |
| 01/29/07 | 198 | 21.0 | 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 |
| | | | Influent | 400 | 10 | < 0.5 | 4.7 | 2.9 | 21 |
| 02/05/07 | 200 | 19.0 | 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 |
| | | | Influent | 100 | 2.3 | < 0.50 | 1.2 | 1.6 | 26 |
| 03/05/07 | 180 | 24.0 | 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 |
| | | | Influent | 190 | 4.3 | < 0.50 | 1.1 | 2.5 | 30 |
| 04/02/07 | 180 | NR | 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 |
| | | | Influent | 160 | < 0.50 | < 0.50 | < 0.50 | 0.97 | 18 |
| 05/01/07 | 180 | NR | 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 |
| | | | Influent | 330 | 0.56 | 0.89 | 1.8 | 2.6 | 14 |
| 06/04/07 | 190 | NR | 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 |
| | | | Influent | 180 | < 0.50 | < 0.50 | < 0.50 | <1.0 | 11 |
| 07/02/07 | 200 | NR | 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 |
| | | | Influent | 660 | <1.0 | <1.0 | 1.2 | 2.2 | 11 |
| 08/01/07 | 200 | NR | 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 |
| | | | Influent | 1,200 | 0.79 | < 0.50 | 1.5 | 3.8 | 14 |
| 09/05/07 | 190 | NR | 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 |
| | | | Influent | 1,300 | 1.2 | < 0.50 | 2.6 | 5.2 | 14 |
| 10/01/07 | 190 | NR | 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 |
| | | | Influent | 1,000 | 2.0 | < 0.50 | 4.0 | 5.3 | 23 |
| 11/06/07 | 190 | NR | 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 |
| | | | Influent | 830 | < 0.50 | < 0.50 | 1.0 | 1.2 | 2.5 |
| 12/05/07 | 190 | NR | 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 |

Notes:

 mg/m^3 = milligrams per cubic meter NR = not recorded

in Hg = inches of mercury
cfm = cubic feet per second
GRO = gasoline range organics

Table 10

SOIL VAPOR EXTRACTION SYSTEM EXTRACTION AND EMISSION RATES

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

| Date | Extraction Rate from Wells (lbs/day) | | Emissions Rate to Atmosphere (lbs/day) | | Destruction Removal Efficiency, % | | Cumulative GRO Removal (lbs) | |
|------------|--------------------------------------|---------|---|---------|--------------------------------------|---------|---------------------------------|--------|
| | GRO | Benzene | GRO | Benzene | GRO | Benzene | Period | Total |
| 1/29/2007 | 1.35 | 0.00 | 0.09 | 0.00 | 93.5% | 80.0% | 1.35 | 1.35 |
| 2/5/2007 | 7.10 | 0.18 | 0.09 | 0.00 | 98.8% | 99.5% | 29.18 | 30.53 |
| 3/5/2007 | 1.60 | 0.04 | 0.08 | 0.00 | 95.0% | 92.6% | 47.00 | 77.53 |
| 4/2/2007 | 3.04 | 0.07 | 0.08 | 0.00 | 97.4% | 98.8% | 5.10 | 82.63 |
| 5/1/2007* | 2.56 | 0.00 | 0.40 | 0.00 | 84.4% | 0.0% | 12.03 | 94.66 |
| 6/4/2007* | 5.28 | 0.01 | 0.42 | 0.00 | 92.0% | 55.4% | 63.06 | 157.72 |
| 7/2/2007 | 3.20 | 0.00 | 0.09 | 0.00 | 97.2% | 80.0% | 25.84 | 183.56 |
| 8/1/2007 | 11.72 | 0.01 | 0.09 | 0.00 | 99.2% | 90.0% | 94.00 | 277.56 |
| 9/5/2007* | 20.25 | 0.01 | 0.42 | 0.00 | 97.9% | 68.4% | 20.78 | 298.34 |
| 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% | 20.07 | 349.79 |

Air Permit Limits

Sample Calculations

Ext. Rate from = $\frac{70 \text{ cuft x}}{\text{min}}$ $\frac{3100 \text{ mg}}{\text{cu meter}}$ x $\frac{0.028 \text{ cumeter}}{\text{cuft}}$ x $\frac{1\text{b}}{454,000 \text{ mg}}$ x $\frac{1,440 \text{ min}}{\text{day}}$

 $= 19.27 \; lbs/day$

Dest. Removal = 19.27 - (<0.12) x 100 = 99.35%

Efficiency, % 19.27

Notes

* = Benzene results negligible, DRE not a true representation

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

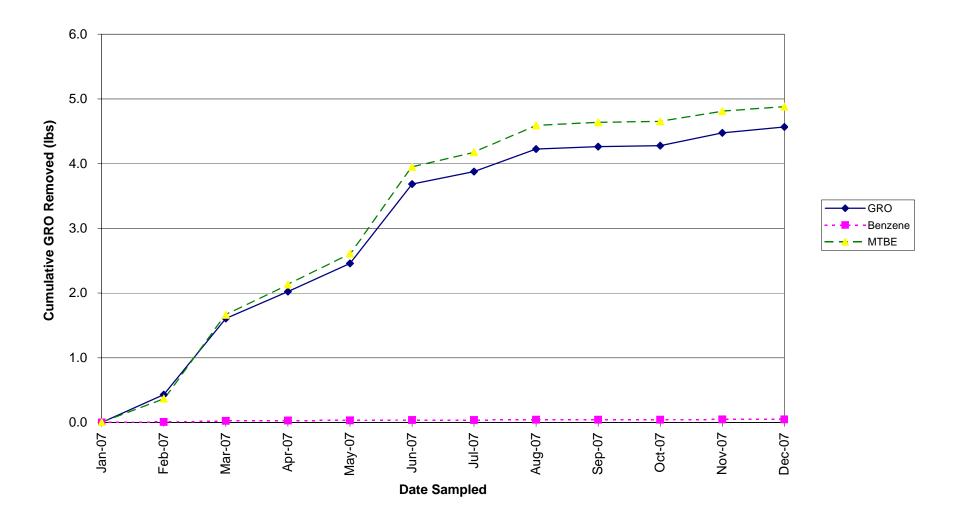


Figure 2

GWE Influent Concentrations for GRO, Benzene, and MTBE

Station #2111, 1156 Davis Street, San Leandro, California

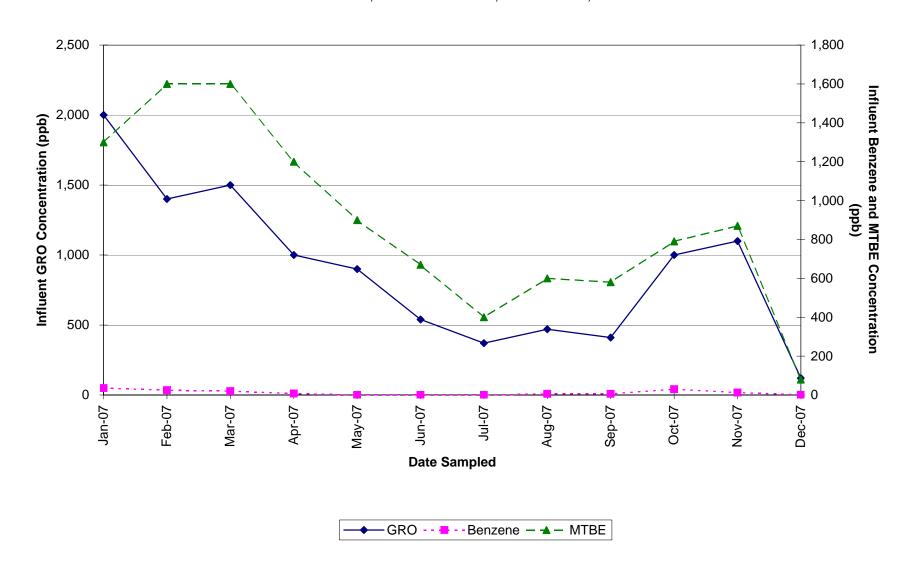


Figure 3
SVE System Influent Concentration vs.Time
Station #2111, 1156 Davis Street, San Leandro, California

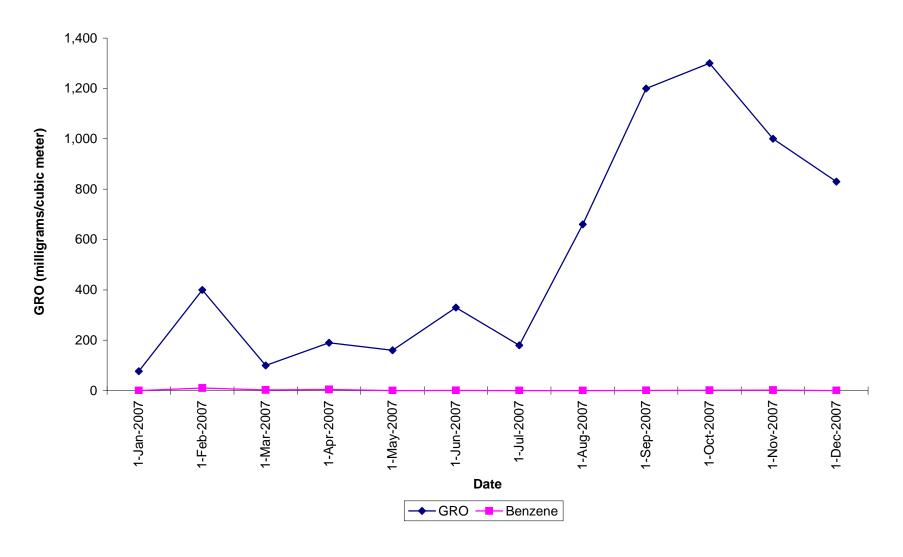
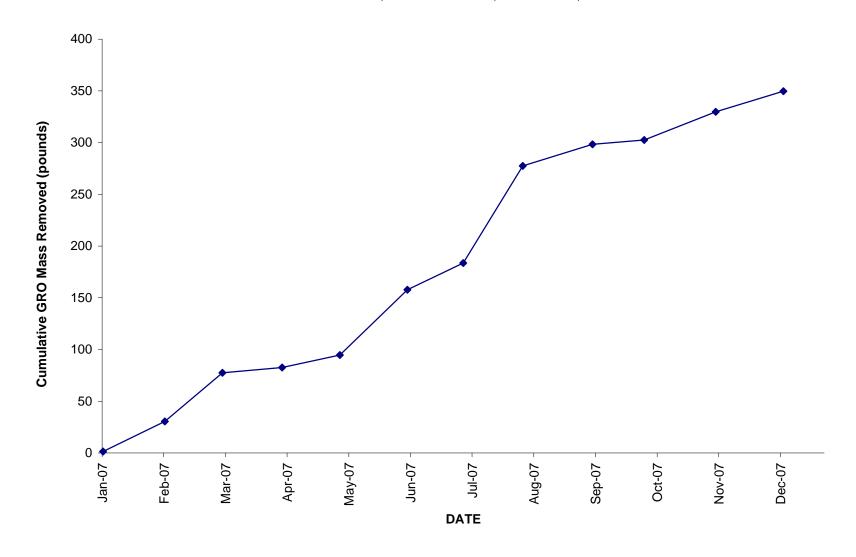
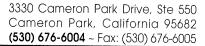


Figure 4
SVE System Cumulative GRO Mass Removed vs. Time
Station #2111, 1156 Davis Street, San Leandro, California



APPENDIX A

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





November 12, 2007

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

Re: Groundwater Sampling Data Package, BP Service Station No. 2111, located at

1156 Davis Street., San Leandro, California

General Information

Data Submittal Prepared / Reviewed by: Sandy Hayes / Jay Johnson

Phone Number: (530) 676-6000

On-Site Supplier Representatives: David DeMello

Date: October 11, 2007

Arrival: 10:30 Departure: 14:30

Weather Conditions: Clear

Unusual Field Conditions: None

Scope of Work Performed: Quarterly monitoring and sampling

Variations from Work Scope: None

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

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Jay R. Johnson

No. 5867

Vroject Manager

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Of Jay R. Johnson

No. 5867

Attachments:

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

CC: Mr. Paul Supple, BP/ARCO



Global ID:
Site Address 1156 DAV(s St.
City SHA LEANING, (A
Sampled By: D. De Mello

,4

Site Number AKCO 2111
Project No E2111
TAY Johnson
Date 10-11-07

Signature Jan Oully Date: 10/11/07

* - 6 VOA'S SAMP/ED

| | | | | | | | | | | | | | | | | <i>1</i> 0 | | | Signer (C) | |
|----------------------|------|----------------|--------------------------|-------|--------------|----------|------------------------------|----------------------------|-------------|--------------------------------|--|-------------|----------|--|----------|-------------------|--------------|----------------|-------------|-------------------------------|
| | Wat | er Level Data | | | | | Purge Vo | olume Ca | alcula | tions | | N | 'ell Pui | rge Me | thod | | Sê | mple Rec | ord • | Field Data |
| Well ID | Time | Depth to water | Top of Screen feet | | | | Well Diameter (Inches) | Multiplier Value (B) | Ca. Volu | iree sing imes llons) | Actual Water Purged (Gallons) | No Purge | Bailer | Pump | Other | DT A Sample | t | Sample I.D. | Sample time | Dissolved Oxygen (mg/L) |
| | | | I | | | | 4 | 2 | | A | N/A | X | X | | | N/ | /w | ı | 1345 | 1.60 |
| Mw-1 | 1350 | 18.10 | | | 14/ | <u>A</u> | 4 | 2 | 1 | <u> </u> | 1 | X | X | | | ~ | 1 | 2 | 1235 | 1.52 |
| MW-2 | 1224 | ì | 1 | 26.45 | -+ | | | | | - | | 1 == | | | | ļ | 1 | 3 | 1410 | 1162 |
| MW-4 MW-5 | 1400 | 17.43 | 12 | 26.23 | | | 4 | 2 | | | | | X | | | | | 4 | 1140 | 2.68 |
| ww-4 | 1130 | 16.45 | | | | | 4 | 2 | | | | X | | | | | _ | 5- | l . | 2 40 |
| MW-5 | 1110 | 15.83 | | | | | ユ | .5 | | | 十 | X | X | | <u> </u> | | | 6 | 1116 | 2.92 |
| MW-6 MW-7 MW-8 | 1100 | 15.28 | 10 | 20.32 | | | 2 | .5 | | | | X | | | | | | | KI/S | |
| MW-7 | 1200 | 16,18 | 12 | 2625 | | , | Ų | Z | y | | V | X | X | | | X | • | 7 | 1208 | |
| MW-8 | 1305 | 16.99 | 18 | 38.98 | 21. | 99 | 2 | .5 | 10. | १९ | 11 | ļ | X | | | 17.1 | 00 | 8 | 1330 | 1.67 |
| | | | | | <u> </u> | | | | | | | - | | | | | | | | |
| TB | 1045 | | | | | | | | | | | | | | | | | 713 | 1045 | |
| | | | | | <u> </u> | | | | | | | | | ļ | | ļ | ., | | | |
| | | | | | | | | | | | | | | | | | | | | |
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Multiplier Values

D WATER DUMPED INTO SITE CONTINUM MENT AREA

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

per CHill.



City SAM Leandro, CA Site Sampled by Shewe Ho ORIGINAL

Project No. **E 2111**Project PM **JAY Johnson**Date Sampled 10-11-07

| Well ID | MW- | 1 | 13 | 145 | Well ID • | Х | 160- | -2 | 1235 |
|------------------|--------|------------------------|---------|-------------|------------------|--------|------|--------|---------|
| purge start time | Bade | N | مراده م | n | purge start time | | | | |
| | Temp C | рН | cond | gailons | 11 . | Temp C | | 1 | |
| time | 21,8 | 7,00 | 664 | ø | time | 23.3 | 7.05 | 697 | |
| time | | | | | time | _ | | | |
| time | | | | | time . | | 7,. | | |
| time | | | | | time | | | | |
| purge stop time | | | | | pugre stop time | | | | |
| Well ID | M. | w-3 | ! | 110 | Well ID | Mo | V-4 | 1 [| 140 |
| purge start time | Bas | Ir | 100 | gison | purge start time | | | No 00 | |
| | Temp C | | cond | gallons | 11 | Temp C | | ł | gallons |
| time | 21,8 | 7.10 | 664 | Ø | time . | 21.5 | 7.07 | 721 | B |
| time | _ | | | | time | 0 | | | |
| time | | | | | time | | | | |
| time | (| | | | time | | | | |
| purge stop time | | TAN-toine and a second | | | purge stop time | | | | |
| Well ID | MW | -5 | 41 | 6 | Well ID | M | w- | 6 | |
| purge start time | Bastr | N | w Dide | n | purge start tîme | N/ | /5 | | |
| | Temp C | pН | cond | gallons | | Temp C | рН | cond | gallons |
| time | 21.5 | 7,23 | 689 | Ø | time | | >>< | | |
| time | | | | | time | | | | |
| time | | | | | time | | | | |
| time | | | | | time . | (,) | | | , |
| purge stop time | | | | | purge stop time | | | | |
| Well ID | MW | - 7 | /20 | 28 | Well ID | Mu | 1-8 | 1330 |) |
| purge start time | Bails | No | odae | | purge start time | Bail. | | to obc | |
| | Temp C | рН | cond | gallons | ٠ | Temp C | Нд | cond | gallons |
| time | 22.2 | 7.33 | 678 | K | time 🗼 | 22.0 | 7.06 | | 0 |
| time | - | | | | time | | 7.13 | | 5 |
| time | | | | | time | _ | | 674 | 10 |
| time | | | | - | time | | | | |
| ourge stop time | | | | | purge stop time | | | | |

Wellhead Observation Form

ORIGINAL

Account: ARCO 2111

Sampled by: D. De Mello

Date: 10/11/07

| | Well ID | Box in good condition | Lock Missing (Replaced with new) | Water in Box | Bolts Missing | Bolts Stripped | Bolt-Holes Stripped | Cracked or Broken Lid | Cracked Box and/or Bolt - Holes | Misc. | Add'l Notes and Other Stuff |
|----------|---------|-----------------------------|---|-----------------|------------------|-------------------|------------------------|-----------------------------|---|-------|---------------------------------------|
| K | 1w-1 | * | | | - | | | | | | |
| | 12 | | | | | | | | | | |
| | 3 | X | | | | | _ | | | | |
| | 4 | X | | | | | | | | | |
| | 5 | | | | (a) | | | | | | |
| | 6 | | | ~ | (~) | | | | | | |
| - | 7 | | | ~ | | | | | | | Hours to un traptenisolys |
| | 8 | A | | | (4) | | | | | | WARES to un traftenisolts uses Hammen |
| H | 0 | 7 | | | | | | | | | • |
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| <u></u> | | | | | | | | | | | |

Atlantic Richfield Company

A BP affiliated company

Chain of Custody Record

ORIGINAL

Project Name:

ARCO 2111 BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda > 2111

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

STP-TAT

| On-site Time: 103 | D Temp: 70'3 |
|------------------------|---------------------|
| Off-site Time: 143 | D Temp: 30'5 |
| Sky Conditions: | egge. |
| Meteorological Events: | |
| Wind Speed: | _ Direction: |

| Lab | Name: TestAmerica | | BP/AR Facility No.: 2111 BP/AR Facility Address: 1156 Davis Street, San Leandro | | | | | | | | Consultant/Contractor: Stratus Environmental, Inc. | | | | | | | | | | | | | | | |
|-------------|----------------------------------|----------------------------|---|----------------|-------------------|---------------------|--------------------------------|------------------|--------|----------|--|---------|-----------------------|-------------|---|-------------|----------|---------------------------|----------|--------------|----------|-----------|--|----------|----------|---|
| 1 | ress: 885 Jarvis Drive | | | | _ | BP/AR Facility Ad | dress | : | | 1156 | 5 Davi | s Stre | eet, S | an Le | andro |) | | Addr | ess: | 3330 | Came | | | | ite 550 | |
| 1 | gan Hill, CA 95937 | | | | | Site Lat/Long: | | | | | | | | | | | | | | | | | CA 956 | | | |
| ļ | PM: Lisa Race | | | | | California Global I | D No |).; | | T06 | 00101 | 764 | | | | | | Cons | ultant/C | ontract | or Proj | ect No |).: | E2111-0 | 03 | *************************************** |
| | Fax: 408-782-8156 408-782-63 | 308 (fax) | | | | Enfos Project No.: | | | | GOC | 28-00 | 28 | | | | | | | ultant/C | | | | | Jay Johi | nson | |
| | AR PM Contact: Paul Supple | | | | | Provision or OOC | (circ | le one | 2) | | Provis | ion | | | | | | Tele/ | Pax: | (530) | 676-6 | 6000 / | / (530) | 676-60 | 005 | |
| Addı | ress: 2010 Crow Canyon Place, Su | ite 150 | | | _ _ | Phase/WBS: | | 04-N | /Ionit | oring | , | | | | | | | Repo | rt Type | | | | | | with EDF | |
| <u></u> | San Ramon, CA | | | | | Sub Phase/Task: | | 03-A | naly | tical | | | | | | | | E-ma | il EDD | To: § | shaye | s@st | ratusi | nc.net | | |
| | Fax: 925-275-3506 | | | 1 | | Cost Element: | , , | 01-C | Contra | actor | labor | | | | | | | L | ce to: A | tlantic | Richfie | eld Co | ł | | | *************************************** |
| Lab | Bottle Order No: | | u | M | atrix | | | | P | reser | vative | | | 46 | 82 | 60 R | eques | ted A | ıalysis | | | | | | | |
| Item No. | Sample Description | Soil/Solid Water/Liquid | Air | Laboratory No. | No. of Containers | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCI | Methanol | (American) | 2/0/6 | 2000 | LNC1 - 7 67 | ED8 | Ethmol | | | | M | - | Con | t Lat/Long nments Dxy= ETBE,DII | | | |
| 1 | MW-1 | X | | | 3 | | | T | ~ | Ť | | 47 | | - | × | × | <u> </u> | $\dagger \dagger \dagger$ | | ╬ | | | | | | |
| 2 | MW-2 | 1 | | | 6 | | $\neg \dagger$ | | | + | ╁ | + ; | 1 | 1 | Δ | | | \vdash | | ╢ | | | | | | |
| | | 1235 | | | +- | | | \vdash | | | H | - | $-\parallel \mid$ | + | $+\!$ | - | + | + | _ | - | | | | | | |
| 3 | MW-3 | 1410 | | | | | 3 | | | | (| | $\parallel \parallel$ | | \parallel | | | | | | | | | | | |
| 4 | MW-4 | 1140 | | | | | 3 | | | | \prod | | | \prod | \prod | | | | | | | | | | | |
| 5 | MW-5 | 1116 | | | | | 3 | | | | П | | | \prod | \parallel | | | \parallel | | | | 1 | | | | |
| 6 | MW-7 | 1208 | | | | | 3 | | | | \prod | | | | 11 | | 1 | 71 | | | | | · | | | |
| 7 | MW-8 | 1330 | - | 1 | | | 3 | | | | 6 | | L | | | | 1, | | | | | ╢ | | | | |
| 8 | , | | | | | | | | | | | | ╽╸ | 1 | | | ·/ | | | | - | | | | | |
| 9 | TB. 2111-10112007 | 1045 | | | | | 2 | - | | | | 二 | | | | 1 | | | | | 1. | HOL | D | | | |
| 10 | | | | | | | | | | | | | | | 1 | 1 | | | | | | | | | | |
| Samp | oler's Name: David De | me 11 | 0 | | · | Relinqu | ished | By / | Affili | ation | | | $\exists \vdash$ | Date | 7 | Time | | | / | Accepte | d Rv / | A ffiliat | | | Date | Time |
| Samp | oler's Company: 5724745 | ENVO | RINA | ENT | 46 | Den D | ass | 4/1 | 4 | Sn | * my | /. C | // | 1107 | | 63 | | _ | 1 | , resception | d By / / | Aumai | | | White | |
| Shipr | nent Date: 10-11-0 | 7 | | | | | | | | ~ | | | 1 | | ╁* | 7 3, | | | 1 ce | B-,- | | | | | Gile | 7/63 |
| | nent Method: | | | | | | | | ***** | | | | | | \parallel | | | ********** | | | | | | | - | 1 |
| | ment Tracking No: | | | | | | | | | | | | | | 1 | | | | | | | | | | 1 | 1 |
| Specia | al Instructions: | Please o | c result | s to rm | iller@b | roadbentinc.com | | | | | | | | | | | | | | | | | | | | |
| | Custody Seals In Place: Yes | /No i | T | D1 | 1 7 | /21 | | | | | | | | | | | | | | | | | | | | |
| | Custody Seals III Place: Yes | / INO | 1 en | ip Blan | k: Yes | /No Coole | r Ter | np oi | n Re | ceip | t: | °F. | E/C | | Tri | p Bla | ık; Y | es /N | 0 | MS | /MSD | Sam | ple Su' | omitted | l: Yes/N | 0 |



8 November, 2007

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

RE: ARCO #2111, San Leandro, CA Work Order: MQJ0464

Enclosed are the results of analyses for samples received by the laboratory on 10/12/07 14:51. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race

Senior Project Manager

CA ELAP Certificate # 1210

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





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0028
Project Manager: Jay Johnson

MQJ0464 Reported: 11/08/07 06:19

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------------|---------------|--------|----------------|----------------|
| MW-1 | MQJ0464-01 | Water | 10/11/07 13:45 | 10/12/07 14:51 |
| MW-2 | MQJ0464-02 | Water | 10/11/07 12:35 | 10/12/07 14:51 |
| MW-3 | MQJ0464-03 | Water | 10/11/07 14:10 | 10/12/07 14:51 |
| MW-4 | MQJ0464-04 | Water | 10/11/07 11:40 | 10/12/07 14:51 |
| MW-5 | MQJ0464-05 | Water | 10/11/07 11:16 | 10/12/07 14:51 |
| MW-7 | MQJ0464-06 | Water | 10/11/07 12:08 | 10/12/07 14:51 |
| MW-8 | MQJ0464-07 | Water | 10/11/07 13:30 | 10/12/07 14:51 |
| TB-2111-10112007 | MQJ0464-08 | Water | 10/11/07 10:45 | 10/12/07 14:51 |

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





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0028 Project Manager: Jay Johnson MQJ0464 Reported: 11/08/07 06:19

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

| | | | | 0 | , | | | | |
|--------------------------------------|--------------|--------------------|------------|----------|---------|----------|----------|-----------|----|
| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | No |
| MW-1 (MQJ0464-01) Water Sampled: 10 | /11/07 13:45 | Received: | 10/12/07 | 14:51 | | | | | |
| Gasoline Range Organics (C4-C12) | 66 | 50 | ug/l | 1 | 7J18035 | 10/18/07 | 10/18/07 | LUFT GCMS | |
| Surrogate: 1,2-Dichloroethane-d4 | | 113 % | 60-1 | 50 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 110 % | 75-1 | 30 | " | " | n | " | |
| Surrogate: Toluene-d8 | | 98 % | 75-1 | 20 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 97 % | 55-1 | 30 | " | " | " | " | |
| MW-2 (MQJ0464-02) Water Sampled: 10 | /11/07 12:35 | Received: | 10/12/07 1 | 14:51 | | | | | |
| Gasoline Range Organics (C4-C12) | 1800 | 1000 | ug/l | 20 | 7J18035 | 10/18/07 | 10/19/07 | LUFT GCMS | |
| Surrogate: 1,2-Dichloroethane-d4 | | 110 % | 60-1 | 50 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 105 % | 75-1. | 30 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 100 % | 75-1. | 20 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 98 % | 55-1. | 30 | " | " | " | u | |
| MW-3 (MQJ0464-03) Water Sampled: 10 | 11/07 14:10 | Received: | 10/12/07 1 | 14:51 | | | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | ug/l | 1 | 7J18035 | 10/18/07 | 10/19/07 | LUFT GCMS | |
| Surrogate: 1,2-Dichloroethane-d4 | | 109 % | 60-1. | 50 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 106 % | 75-1. | 30 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 96 % | 75-12 | 20 | " | " | " | n . | |
| Surrogate: 4-Bromofluorobenzene | | 97 % | 55-1. | 30 | " | " | " | n | |
| MW-4 (MQJ0464-04) Water Sampled: 10/ | 11/07 11:40 | Received: | 10/12/07 1 | 4:51 | | | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | ug/l | 1 | 7J18035 | 10/18/07 | 10/19/07 | LUFT GCMS | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 60-13 | 50 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 104 % | 75-13 | 30 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 98 % | 75-12 | 20 | n | " | " | n | |
| Gurrogate: 4-Bromofluorobenzene | | 93 % | 55-13 | | " | " | " | " | |
| | | | | | | | | | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0028
Project Manager: Jay Johnson

MQJ0464 Reported: 11/08/07 06:19

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

| | | | | | , | | | | |
|----------------------------------|------------------------|--------------------|-------------|-------------|---------|----------|----------|-----------|------|
| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
| MW-5 (MQJ0464-05) Water S | ampled: 10/11/07 11:16 | Received: | 10/12/07 1 | 4:51 | | | | | |
| Gasoline Range Organics (C4-C12 | l) ND | 50 | ug/l | 1 | 7J19009 | 10/19/07 | 10/19/07 | LUFT GCMS | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99 % | 60-1. | 50 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | ? | 102 % | 75-1. | 30 | " | " | # | " | |
| Surrogate: Toluene-d8 | | 97 % | 75-12 | 20 | " | n | n | " | |
| Surrogate: 4-Bromofluorobenzene | | 90 % | 55-13 | 30 | " | " | " | " | |
| MW-7 (MQJ0464-06RE1) Water | Sampled: 10/11/07 12 | 2:08 Receiv | ved: 10/12/ | /07 14:51 | | | | | CL |
| Gasoline Range Organics (C4-C | 12) 210 | 100 | ug/l | 2 | 7K07011 | 11/07/07 | 11/07/07 | LUFT GCMS | |
| Surrogate: 1,2-Dichloroethane-d4 | | 189 % | 60-15 | 50 | " | " | " | n . | |
| Surrogate: Dibromofluoromethane | | 192 % | 75-13 | 30 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 196 % | 75-12 | 20 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 189 % | 55-13 | 30 | " | " | " | n | |
| MW-8 (MQJ0464-07) Water Sa | ampled: 10/11/07 13:30 | Received: | 10/12/07 1 | 4:51 | | | | | |
| Gasoline Range Organics (C4-C1 | 2) 100 | 50 | ug/l | 1 | 7J19009 | 10/19/07 | 10/19/07 | LUFT GCMS | |
| Surrogate: 1,2-Dichloroethane-d4 | | 94 % | 60-15 | i0 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 96 % | 75-13 | 10 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 96 % | 75-12 | 0 | " | n | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 87 % | 55-13 | 0 | " | " | " | n . | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0028
Project Manager: Jay Johnson

MQJ0464 Reported: 11/08/07 06:19

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
|----------------------------------|-------------------------|--------------------|----------|----------|---------|----------|----------|-----------|---|
| MW-1 (MQJ0464-01) Water | Sampled: 10/11/07 13:45 | Received: | 10/12/07 | 14:51 | | | | | *************************************** |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | 1 | 7J18035 | 10/18/07 | 10/18/07 | EPA 8260B | |
| Benzene | ND | 0.50 | " | 11 | " | U | ** | n | |
| tert-Butyl alcohol | ND | 20 | 11 | " | II | ** | II | 44 | |
| Di-isopropyl ether | ND | 0.50 | ** | 11 | " | н | н | п | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | tt | ** | 11 | n | H | " | |
| 1,2-Dichloroethane | ND | 0.50 | 11 | Ħ | " | II | " | п | |
| Ethanol | ND | 300 | n | н | н | " | 11 | # | |
| Ethyl tert-butyl ether | ND | 0.50 | Ħ | n | " | 11 | " | n | |
| Ethylbenzene | ND | 0.50 | " | # | Ħ | " | Ħ | H | |
| Methyl tert-butyl ether | 62 | 0.50 | II | 11 | ıı | H | #1 | ** | |
| Toluene | ND | 0.50 | " | 11 | 11 | 11 | n | 11 | |
| Xylenes (total) | ND | 0.50 | II . | " | 11 | n | IJ | " | |
| Surrogate: Dibromofluoromethan | ne e | 110 % | 80-1 | 20 | " | " | " | n | |
| Surrogate: 1,2-Dichloroethane-de | 4 | 113 % | 65-1 | 35 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 98 % | 75-1 | 20 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 2 | 97 % | 65-1 | 20 | " | " | " | " | |
| MW-2 (MQJ0464-02) Water S | Sampled: 10/11/07 12:35 | Received: | 10/12/07 | 14:51 | | | | | |
| tert-Amyl methyl ether | ND | 10 | ug/l | 20 | 7J18035 | 10/18/07 | 10/19/07 | EPA 8260B | |
| Benzene | 17 | 10 | 11 | n | ** | n | * | II | |
| tert-Butyl alcohol | 1300 | 400 | u . | н | " | н | tt. | u | |
| Di-isopropyl ether | ND | 10 | II . | " | п | n | 11 | 11 | |
| 1,2-Dibromoethane (EDB) | ND | 10 | # | II | " | #1 | " | н | |
| 1,2-Dichloroethane | ND | 10 | " | * | " | ** | II | " | |
| Ethanol | ND | 6000 | # | 11 | 41 | n | и | п | |
| Ethyl tert-butyl ether | ND | 10 | " | 0 | " | н | H | H | |
| Ethylbenzene | ND | 10 | II | n | II | It | H | н | |
| Methyl tert-butyl ether | 1000 | 10 | 11 | 11 | " | # | н | н | |
| Toluene | ND | 10 | 11 | " | ш | II . | " | n | |
| Xylenes (total) | 11 | 10 | н | н | и | ** | n | н | |
| Surrogate: Dibromofluoromethan | е | 105 % | 80-1 | 20 | " | " | " | n | |
| Surrogate: 1,2-Dichloroethane-d4 | ! | 110% | 65-1 | 35 | " | " | " | n . | |
| Surrogate: Toluene-d8 | | 100 % | 75-1. | 20 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | , | 98 % | 65-1. | | " | " | " | " | |
| | | | | | | | | | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0028
Project Manager: Jay Johnson

MQJ0464 Reported: 11/08/07 06:19

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|-------------------------|--------------------|------------|----------|---------|----------|----------|-----------|-------|
| MW-3 (MQJ0464-03) Water | Sampled: 10/11/07 14:10 | Received: | 10/12/07 1 | 14:51 | | | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | 1 | 7J18035 | 10/18/07 | 10/19/07 | EPA 8260B | |
| Benzene | ND | 0.50 | H | 41 | II. | n | # | u | |
| tert-Butyl alcohol | ND | 20 | ** | ** | " | ** | n | | |
| Di-isopropyl ether | ND | 0.50 | n | " | 11 | II . | н | II . | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | н | II. | ** | " | 11 | n | |
| 1,2-Dichloroethane | ND | 0.50 | II . | ii . | 41 | u | n | tt. | |
| Ethanol | ND | 300 | " | II | н | | " | " | |
| Ethyl tert-butyl ether | ND | 0.50 | 11 | " | н | 11 | n | Н | |
| Ethylbenzene | ND | 0.50 | " | II | 11 | # | " | ** | |
| Methyl tert-butyl ether | 5.3 | 0.50 | 11 | " | # | D | " | II | |
| Toluene | ND | 0.50 | u | II. | H | n | 0 | n | |
| Xylenes (total) | ND | 0.50 | 11 | H . | н | n | " | П | |
| Surrogate: Dibromofluorometha. | ne | 106 % | 80-12 | 20 | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-a | 14 | 109 % | 65-13 | 35 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 96 % | 75-12 | 20 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzer | пе | 97 % | 65-12 | 20 | " | n | " | " | |
| MW-4 (MQJ0464-04) Water | Sampled: 10/11/07 11:40 | Received: | 10/12/07 1 | 4:51 | | | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | 1 | 7J18035 | 10/18/07 | 10/19/07 | EPA 8260B | |
| Benzene | ND | 0.50 | 11 | n | ** | 11 | п | н | |
| tert-Butyl alcohol | ND | 20 | n | " | # | ** | " | # | |
| Di-isopropyl ether | ND | 0.50 | ** | II. | H | ** | II | н | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | 11 | " | и | II . | n | # | |
| 1,2-Dichloroethane | ND | 0.50 | ** | ti . | 11 | ** | # | U | |
| Ethanol | ND | 300 | H | H | и | II . | н | n | |
| Ethyl tert-butyl ether | ND | 0.50 | n | H | # | " | 11 | II | |
| Ethylbenzene | ND | 0.50 | " | 11 | n | 11 | n | n . | |
| Methyl tert-butyl ether | 0.81 | 0.50 | If | " | #1 | " | n | Ш | |
| Toluene | ND | 0.50 | " | 0 | 11 | ii ii | u . | ** | |
| Xylenes (total) | ND | 0.50 | 11 | n | ** | Ħ | n | 11 | |
| Surrogate: Dibromofluoromethar | пе | 104 % | 80-12 | 0 | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d- | 4 | 102 % | 65-13 | 5 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 98 % | 75-12 | 0 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzen | e | 93 % | 65-12 | | " | " | " | " | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0028
Project Manager: Jay Johnson

MQJ0464 Reported: 11/08/07 06:19

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
|----------------------------------|-------------------------|--------------------|------------|----------|-----------------|----------|----------|-----------|------|
| MW-5 (MQJ0464-05) Water | Sampled: 10/11/07 11:16 | Received: | 10/12/07 | 14:51 | | | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | 1 | 7 J19009 | 10/19/07 | 10/19/07 | EPA 8260B | |
| Benzene | ND | 0.50 | n | n | н | 11 | ш | н | |
| tert-Butyl alcohol | 750 | 20 | ** | 0 | n n | Ħ | ** | II . | |
| Di-isopropyl ether | ND | 0.50 | u | " | " | 91 | п | ** | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | н | II . | 11 | n | и | н | |
| 1,2-Dichloroethane | ND | 0.50 | " | " | H | н | п | n | |
| Ethanol | ND | 300 | и | 11 | #1 | n | и | н | |
| Ethyl tert-butyl ether | ND | 0.50 | " | " | н | " | II | | |
| Ethylbenzene | ND | 0.50 | 11 | 0 | 11 | 11 | " | н | |
| Methyl tert-butyl ether | 4.8 | 0.50 | 11 | 11 | ** | " | II | | |
| Toluene | ND | 0.50 | В | 0 | ** | R | " | н | |
| Xylenes (total) | ND | 0.50 | n | H | lt. | " | H H | n | |
| Surrogate: Dibromofluoromethan | | 102 % | 80-12 | 20 | 11 | n | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | 4 | 99 % | 65-1. | 35 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 97 % | 75-12 | 20 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 2 | 90 % | 65-12 | 20 | " | " | " | " | |
| MW-7 (MQJ0464-06) Water S | Sampled: 10/11/07 12:08 | Received: | 10/12/07 1 | 4:51 | | | | | |
| tert-Amyl methyl ether | ND | 2.5 | ug/l | 5 | 7J24013 | 10/24/07 | 10/24/07 | EPA 8260B | |
| Benzene | ND | 2.5 | | B | n | " | II . | II. | |
| tert-Butyl alcohol | 150 | 100 | n | " | ** | B | " | u | |
| Di-isopropyl ether | ND | 2.5 | " | O . | Ħ | ** | H | н | |
| 1,2-Dibromoethane (EDB) | ND | 2.5 | II | " | n | If | Ħ | 44 | |
| 1,2-Dichloroethane | ND | 2.5 | " | 0 | II | n | # | n | |
| Ethanol | ND | 1500 | U | Ħ | ** | II | n | " | |
| Ethyl tert-butyl ether | ND | 2.5 | ** | н | " | | " | II. | |
| Ethylbenzene | ND | 2.5 | 91 | u | 11 | ji . | 11 | н | |
| Methyl tert-butyl ether | 370 | 2.5 | н | н | tt | " | # | ш | |
| Foluene | ND | 2.5 | 11 | 11 | " | It | D . | " | |
| Xylenes (total) | ND | 2.5 | " | 11 | n . | н | н | П | |
| Surrogate: Dibromofluoromethane | 2 | 108 % | 75-13 | 30 | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97 % | 60-15 | 0 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 96 % | 75-12 | 0 | " | " | " | n | |
| Surrogate: 4-Bromofluorobenzene | | 86 % | 55-13 | 0 | " | " | " | " | |
| | | | | | | | | | |





Project: ARCO #2111, San Leandro, CA

MQJ0464 Project Number: G0C28-0028 Reported: Project Manager: Jay Johnson 11/08/07 06:19

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------------|-------------------------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| MW-8 (MQJ0464-07) Water | Sampled: 10/11/07 13:30 | Received: | 10/12/07 | 14:51 | | | | | |
| tert-Amyl methyl ether | 1.7 | 0.50 | ug/l | 1 | 7J19009 | 10/19/07 | 10/19/07 | EPA 8260B | |
| Benzene | 0.52 | 0.50 | н | H | " | It | П | II . | |
| tert-Butyl alcohol | 350 | 20 | ** | н | II | " | | н | |
| Di-isopropyl ether | ND | 0.50 | U | 11 | " | II . | U | II . | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | u | " | II | ** | " | | |
| 1,2-Dichloroethane | ND | 0.50 | II . | п | u | п | 11 | II | |
| Ethanol | ND | 300 | " | " | ŧI. | H | n | n | |
| Ethyl tert-butyl ether | ND | 0.50 | п | n | ** | 11 | 11 | ii . | |
| Ethylbenzene | ND | 0.50 | n | и | | n | " | II . | |
| Methyl tert-butyl ether | 130 | 0.50 | 11 | H | 11 | ** | II . | 10 | |
| Toluene | ND | 0.50 | " | ** | н | II | n | н | |
| Xylenes (total) | ND | 0.50 | н | #1 | n | н | " | п | |
| Surrogate: Dibromofluorometha | ne | 96 % | 80-1 | 20 | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-a | 14 | 94 % | 65-1 | 35 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 96 % | 75-1 | 20 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzer | 1e | 87 % | 65-1 | 20 | " | " | " | " | |





Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Project: ARCO #2111, San Leandro, CA

Spike

Source

%REC

MQJ0464 Reported: 11/08/07 06:19

RPD

Project Number: G0C28-0028 Cameron Park CA, 95682 Project Manager: Jay Johnson

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

Reporting

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|--------------------------------------|------------|---|-------|------------|------------|------------|--------|-----|-------|-------|
| Batch 7J18035 - EPA 5030B P/T / 1 | LUFT GCMS | | | | | | | | | |
| Blank (7J18035-BLK1) | | | | Prepared | & Analyze | d: 10/18/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | ug/l | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.92 | | " | 2.50 | | 117 | 60-150 | | | |
| Surrogate: Dibromofluoromethane | 2.81 | | " | 2.50 | | 112 | 75-130 | | | |
| Surrogate: Toluene-d8 | 2.50 | | " | 2.50 | | 100 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.43 | | " | 2.50 | | 97 | 55-130 | | | |
| Laboratory Control Sample (7J18035-I | BS2) | | | Prepared o | & Analyze | d: 10/18/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 491 | 50 | ug/l | 500 | | 98 | 55-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.58 | | " | 2.50 | | 103 | 60-150 | | | |
| Surrogate: Dibromofluoromethane | 2.49 | | " | 2,50 | | 100 | 75-130 | | | |
| Surrogate: Toluene-d8 | 2.53 | | " | 2.50 | | 101 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.48 | | " | 2.50 | | 99 | 55-130 | | | |
| Laboratory Control Sample Dup (7J186 | 035-BSD2) | | | Prepared & | & Analyze | d: 10/18/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 496 | 50 | ug/l | 500 | | 99 | 55-130 | 1 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.71 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | " | 2.50 | | 108 | 60-150 | | | |
| Surrogate: Dibromofluoromethane | 2.64 | | " | 2.50 | | 106 | 75-130 | | | |
| Surrogate: Toluene-d8 | 2.53 | | " | 2.50 | | 101 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.69 | | " | 2.50 | | 108 | 55-130 | | | |
| Matrix Spike (7J18035-MS1) | Source: MQ | J0464-01 | | Prepared & | & Analyze | d: 10/18/0 |)7 | | | |
| Gasoline Range Organics (C4-C12) | 526 | 50 | ug/l | 550 | 66.0 | 84 | 25-150 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.70 | | " | 2.50 | | 108 | 60-150 | | | |
| Surrogate: Dibromofluoromethane | 2.78 | | " | 2.50 | | 111 | 75-130 | | | |
| Surrogate: Toluene-d8 | 2.56 | | " | 2.50 | | 102 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.57 | | " | 2.50 | | 103 | 55-130 | | | |
| Matrix Spike Dup (7J18035-MSD1) | Source: MQ | J0464-01 | | Prepared & | k Analyzed | i: 10/18/0 | 7 | | | |
| Gasoline Range Organics (C4-C12) | 514 | 50 | ug/l | 550 | 66.0 | 81 | 25-150 | 2 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.57 | | " | 2.50 | | 103 | 60-150 | | | |
| Surrogate: Dibromofluoromethane | 2.74 | | " | 2.50 | | 110 | 75-130 | | | |
| Surrogate: Toluene-d8 | 2.51 | | " | 2.50 | | 100 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.59 | | # | 2.50 | | 104 | 55-130 | | | |





Project: ARCO #2111, San Leandro, CA

MQJ0464 Reported: 11/08/07 06:19

RPD

%REC

Project Number: G0C28-0028
Project Manager: Jay Johnson

Reporting

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

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|--------------------------------------|------------|----------|-------|-------------|------------|------------|--------|-----|-------|-------|
| Batch 7J19009 - EPA 5030B P/T / 1 | LUFT GCMS | | | | | | | | | |
| Blank (7J19009-BLK1) | | | | Prepared | & Analyze | d: 10/19/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | ug/l | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 3.07 | | " | 2.50 | | 123 | 65-135 | | | |
| Surrogate: Dibromofluoromethane | 2.77 | | " | 2.50 | | 111 | 80-120 | | | |
| Surrogate: Toluene-d8 | 2.56 | | " | 2.50 | | 102 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.46 | | " | 2.50 | | 98 | 65-120 | | | |
| Laboratory Control Sample (7J19009-l | BS2) | | | Prepared of | & Analyze | d: 10/19/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 504 | 50 | ug/l | 500 | | 101 | 55-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.86 | | " | 2.50 | | 114 | 65-135 | | | |
| Surrogate: Dibromofluoromethane | 2.67 | | " | 2.50 | | 107 | 80-120 | | | |
| Surrogate: Toluene-d8 | 2.47 | | " | 2.50 | | 99 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.58 | | " | 2.50 | | 103 | 65-120 | | | |
| Laboratory Control Sample Dup (7J19 | 009-BSD2) | | | Prepared a | & Analyze | d: 10/19/0 | 07 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.93 | | ug/l | 2.50 | | 117 | 65-135 | | | |
| Surrogate: Dibromofluoromethane | 2.65 | | n | 2.50 | | 106 | 80-120 | | | |
| Surrogate: Toluene-d8 | 2.48 | | " | 2.50 | | 99 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.58 | | " | 2.50 | | 103 | 65-120 | | | |
| Matrix Spike (7J19009-MS1) | Source: MQ | J0497-01 | | Prepared & | & Analyze | d: 10/19/0 |)7 | | | |
| Gasoline Range Organics (C4-C12) | 566 | 50 | ug/l | 550 | 100 | 85 | 25-150 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.55 | | " | 2.50 | | 102 | 65-135 | | | |
| Surrogate: Dibromofluoromethane | 2.73 | | " | 2.50 | | 109 | 80-120 | | | |
| Surrogate: Toluene-d8 | 2.50 | | " | 2.50 | | 100 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.50 | | " | 2.50 | | 100 | 65-120 | | | |
| Matrix Spike Dup (7J19009-MSD1) | Source: MQ | J0497-01 | | Prepared & | & Analyzed | i: 10/19/0 |)7 | | | |
| Gasoline Range Organics (C4-C12) | 557 | 50 | ug/l | 550 | 100 | 83 | 25-150 | 1 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.47 | | " | 2.50 | | 99 | 65-135 | | | |
| Surrogate: Dibromofluoromethane | 2.80 | | " | 2.50 | | 112 | 80-120 | | | |
| Surrogate: Toluene-d8 | 2.59 | | " | 2.50 | | 104 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.52 | | " | 2.50 | | 101 | 65-120 | | | |





Project: ARCO #2111, San Leandro, CA

Spike

Source

%REC

Project Number: G0C28-0028
Project Manager: Jay Johnson

MQJ0464 Reported: 11/08/07 06:19

RPD

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

Reporting

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|--------------------------------------|------------|----------|-------|---|-----------|------------|--------|-----|-------|-------|
| Batch 7J24013 - EPA 5030B P/T / I | LUFT GCMS | | | | | | | | | - |
| Blank (7J24013-BLK1) | | | | Prepared | & Analyze | ed: 10/24/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | ug/l | *************************************** | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 3.00 | | n | 2.50 | | 120 | 65-135 | | | |
| Surrogate: Dibromofluoromethane | 2.77 | | " | 2.50 | | 111 | 80-120 | | | |
| Surrogate: Toluene-d8 | 2.50 | | " | 2.50 | | 100 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.40 | | " | 2.50 | | 96 | 65-120 | | | |
| Laboratory Control Sample (7J24013-H | BS2) | | | Prepared 6 | & Analyze | d: 10/24/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 405 | 50 | ug/l | 500 | | 81 | 55-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.60 | | " | 2.50 | | 104 | 65-135 | | | |
| Surrogate: Dibromofluoromethane | 2.67 | | " | 2.50 | | 107 | 80-120 | | | |
| Surrogate: Toluene-d8 | 2.53 | | " | 2.50 | | 101 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.53 | | " | 2.50 | | 101 | 65-120 | | | |
| Laboratory Control Sample Dup (7J240 |)13-BSD2) | | | Prepared & | & Analyze | d: 10/24/0 | 07 | | | |
| Gasoline Range Organics (C4-C12) | 402 | 50 | ug/l | 500 | | 80 | 55-130 | 1 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.83 | | " | 2.50 | | 113 | 65-135 | | | |
| Surrogate: Dibromofluoromethane | 2.67 | | " | 2.50 | | 107 | 80-120 | | | |
| Surrogate: Toluene-d8 | 2.55 | | " | 2.50 | | 102 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.54 | | " | 2.50 | | 102 | 65-120 | | | |
| Matrix Spike (7J24013-MS1) | Source: MQ | J0711-01 | | Prepared & | & Analyze | d: 10/24/0 |)7 | | | |
| Gasoline Range Organics (C4-C12) | 496 | 50 | ug/l | 550 | 45.6 | 82 | 25-150 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.68 | | " | 2.50 | | 107 | 65-135 | | | |
| Surrogate: Dibromofluoromethane | 2.82 | | n | 2.50 | | 113 | 80-120 | | | |
| Surrogate: Toluene-d8 | 2.50 | | " | 2.50 | | 100 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.45 | | " | 2.50 | | 98 | 65-120 | | | |
| Matrix Spike Dup (7J24013-MSD1) | Source: MQ | J0711-01 | | Prepared & | k Analyze | d: 10/24/0 | 7 | | | |
| Gasoline Range Organics (C4-C12) | 490 | 50 | ug/l | 550 | 45.6 | 81 | 25-150 | 1 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.76 | | " | 2.50 | | 110 | 65-135 | | | |
| Surrogate: Dibromofluoromethane | 2.92 | | " | 2.50 | | 117 | 80-120 | | | |
| Surrogate: Toluene-d8 | 2.52 | | " | 2.50 | | 101 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.58 | | " | 2.50 | | 103 | 65-120 | | | |





Project: ARCO #2111, San Leandro, CA

Spike

Source

%REC

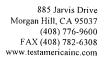
Project Number: G0C28-0028 Project Manager: Jay Johnson MQJ0464 Reported: 11/08/07 06:19

RPD

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

Reporting

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|--------------------------------------|------------|----------|-------|-------------|-----------|------------|--------|-----|-------|-------|
| Batch 7K07011 - EPA 5030B P/T / | LUFT GCMS | | | | | | | | | |
| Blank (7K07011-BLK1) | | | | Prepared | & Analyze | ed: 11/07/ | ′07 | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | ug/l | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.34 | | " | 2.50 | | 94 | 60-150 | | | |
| Surrogate: Dibromofluoromethane | 2.36 | | " | 2.50 | | 94 | 75-130 | | | |
| Surrogate: Toluene-d8 | 2.40 | | " | 2.50 | | 96 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.38 | | " | 2.50 | | 95 | 55-130 | | | |
| Laboratory Control Sample (7K07011-1 | BS2) | | | Prepared of | & Analyze | d: 11/07/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 439 | 50 | ug/l | 500 | | 88 | 55-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.43 | | " | 2.50 | | 97 | 60-150 | | | |
| Surrogate: Dibromofluoromethane | 2.33 | | " | 2.50 | | 93 | 75-130 | | | |
| Surrogate: Toluene-d8 | 2.58 | | " | 2.50 | | 103 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.57 | | " | 2.50 | | 103 | 55-130 | | | |
| aboratory Control Sample Dup (7K07 | 011-BSD2) | | | Prepared & | & Analyzc | d: 11/07/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 429 | 50 | ug/l | 500 | | 86 | 55-130 | 2 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.27 | | " | 2.50 | | 91 | 60-150 | | | |
| Surrogate: Dibromofluoromethane | 2.32 | | " | 2.50 | | 93 | 75-130 | | | |
| Surrogate: Toluene-d8 | 2.57 | | " | 2.50 | | 103 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.49 | | " | 2.50 | | 100 | 55-130 | | | |
| Matrix Spike (7K07011-MS1) | Source: MQ | K0093-02 | | Prepared & | & Analyze | d: 11/07/0 |)7 | | | |
| Gasoline Range Organics (C4-C12) | 513 | 50 | ug/l | 550 | 146 | 67 | 25-150 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.42 | | " | 2.50 | | 97 | 60-150 | | | |
| Surrogate: Dibromofluoromethane | 2.42 | | " | 2.50 | | 97 | 75-130 | | | |
| Surrogate: Toluene-d8 | 2.53 | | " | 2.50 | | 101 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.65 | | " | 2.50 | | 106 | 55-130 | | | |
| Matrix Spike Dup (7K07011-MSD1) | Source: MQ | K0093-02 | | Prepared & | Analyzed | d: 11/07/0 |)7 | | | |
| Gasoline Range Organics (C4-C12) | 503 | 50 | ug/l | 550 | 146 | 65 | 25-150 | 2 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.48 | | " | 2.50 | | 99 | 60-150 | | | |
| 'urrogate: Dibromofluoromethane | 2.50 | | " | 2.50 | | 100 | 75-130 | | | |
| 'urrogate: Toluene-d8 | 2.58 | | " | 2.50 | | 103 | 75-120 | | | |
| urrogate: 4-Bromofluorobenzene | 2.60 | | " | 2.50 | | 104 | 55-130 | | | |
| | | | | | | | | | | |





Project: ARCO #2111, San Leandro, CA

MQJ0464 Reported: 11/08/07 06:19

Project Number: G0C28-0028
Project Manager: Jay Johnson

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | DDD | RPD | N |
|------------------------------------|-----------|---|-------|----------------|------------------|------------|----------------|-----|-------|-------|
| | | Fittill | Units | Level | Resuit | 70KEC | Limits | RPD | Limit | Notes |
| Batch 7J18035 - EPA 5030B P/T | EPA 8260B | *************************************** | | | | | | | | |
| Blank (7J18035-BLK1) | | | | Prepared a | & Analyze | d: 10/18/ | 07 | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | 11 | | | | | | | |
| tert-Butyl alcohol | ND | 20 | и | | | | | | | |
| Di-isopropyl ether | ND | 0.50 | Ħ | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | 10 | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | " | | | | | | | |
| Ethanol | ND | 300 | н | | | | | | | |
| Ethyl tert-butyl ether | ND | 0.50 | H | | | | | | | |
| Ethylbenzene | ND | 0.50 | Ħ | | | | | | | |
| Methyl tert-butyl ether | ND | 0.50 | н | | | | | | | |
| Toluene | ND | 0.50 | n | | | | | | | |
| Xylenes (total) | ND | 0.50 | Н | | | | | | | |
| Surrogate: Dibromofluoromethane | 2.81 | | " | 2.50 | | 112 | 80-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.92 | | " | 2.50 | | 117 | 65-135 | | | |
| Surrogate: Toluene-d8 | 2.50 | | " | 2.50 | | 100 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.43 | | " | 2.50 | | 97 | 65-120 | | | |
| Laboratory Control Sample (7J18035 | -BS1) | | | Prepared & | & Analyze | d: 10/18/0 |)7 | | | |
| tert-Amyl methyl ether | 10.6 | 0.50 | ug/l | 10.0 | | 106 | 75-125 | | | |
| Benzene | 9.11 | 0.50 | H | 10.0 | | 91 | 75-120 | | | |
| tert-Butyl alcohol | 182 | 20 | ш | 200 | | 91 | 80-120 | | | |
| Di-isopropyl ether | 9.40 | 0.50 | n | 10.0 | | 94 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 10.2 | 0.50 | 11 | 10.0 | | 102 | 75-130 | | | |
| 1,2-Dichloroethane | 9.66 | 0.50 | " | 10.0 | | 97 | 65-130 | | | |
| Ethanol | 161 | 300 | п | 200 | | 81 | 50-150 | | | |
| Ethyl tert-butyl ether | 9.61 | 0.50 | " | 10.0 | | 96 | 75-130 | | | |
| Ethylbenzene | 9.54 | 0.50 | n | 10.0 | | 95 | 80-125 | | | |
| Methyl tert-butyl ether | 9.94 | 0.50 | u | 10.0 | | 99 | 80-130 | | | |
| Toluene | 9.67 | 0.50 | u . | 10.0 | | 97 | 80-120 | | | |
| Xylenes (total) | 28.8 | 0.50 | п | 30.0 | | 96 | 80-125 | | | |
| Surrogate: Dibromofluoromethane | 2.62 | | " | 2.50 | | 105 | 80-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.51 | | " | 2.50 | | 100 | 65-135 | | | |
| Surrogate: Toluene-d8 | 2.51 | | " | 2.50 | | 100 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.44 | | " | 2.50 | | 98 | 65-120 | | | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0028
Project Manager: Jay Johnson

MQJ0464 Reported: 11/08/07 06:19

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|-----------|--------------------|-------|----------------|------------------|------------|----------------|-------|--------------|--------|
| Batch 7J18035 - EPA 5030B P/T / F | PA 8260B | | | | | 757.250 | - Dinitis | ICI D | Liniii | rvotes |
| Matrix Spike (7J18035-MS1) | | IQJ0464-01 | | Prepared | & Analyze | ed: 10/18/ | 07 | | | ···· |
| tert-Amyl methyl ether | 13.1 | 0.50 | ug/l | 10.0 | ND | 131 | 75-140 | | | |
| Benzene | 9.30 | 0.50 | 11 | 10.0 | ND | 93 | 80-120 | | | |
| tert-Butyl alcohol | 203 | 20 | 41 | 200 | 11.4 | 96 | 80-125 | | | |
| Di-isopropyl ether | 9.48 | 0.50 | п | 10.0 | ND | 95 | 75-135 | | | |
| 1,2-Dibromoethane (EDB) | 11.0 | 0.50 | " | 10.0 | ND | 110 | 80-135 | | | |
| 1,2-Dichloroethane | 10.6 | 0.50 | н | 10.0 | ND | 106 | 65-145 | | | |
| Ethanol | 140 | 300 | n | 200 | ND | 70 | 50-150 | | | |
| Ethyl tert-butyl ether | 10.1 | 0.50 | ** | 10.0 | ND | 101 | 80-135 | | | |
| Ethylbenzene | 9.85 | 0.50 | ** | 10.0 | ND | 98 | 75-130 | | | |
| Methyl tert-butyl ether | 74.2 | 0.50 | n | 10.0 | 61.8 | 124 | 75-145 | | | |
| Toluene | 9.82 | 0.50 | 11 | 10.0 | ND | 98 | 80-125 | | | |
| Xylenes (total) | 29.8 | 0.50 | 11 | 30.0 | ND | 100 | 75-125 | | | |
| Surrogate: Dibromofluoromethane | 2.78 | | ** | 2.50 | | 111 | 80-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.70 | | u | 2.50 | | 108 | 65-135 | | | |
| Surrogate: Toluene-d8 | 2.56 | | " | 2.50 | | 102 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.57 | | " | 2.50 | | 103 | 65-120 | | | |
| Matrix Spike Dup (7J18035-MSD1) | Source: M | QJ0464-01 | | Prepared & | & Analyze | d: 10/18/0 |)7 | | | |
| ert-Amyl methyl ether | 12.9 | 0.50 | ug/l | 10.0 | ND | 129 | 75-140 | 2 | 25 | |
| Benzene | 9.13 | 0.50 | 11 | 10.0 | ND | 91 | 80-120 | 2 | 20 | |
| ert-Butyl alcohol | 200 | 20 | 0 | 200 | 11.4 | 94 | 80-125 | 1 | 25 | |
| Di-isopropyl ether | 9.28 | 0.50 | 11 | 10.0 | ND | 93 | 75-135 | 2 | 25 | |
| ,2-Dibromoethane (EDB) | 10.7 | 0.50 | н | 10.0 | ND | 107 | 80-135 | 2 | 30 | |
| ,2-Dichloroethane | 10.4 | 0.50 | tr | 10.0 | ND | 104 | 65-145 | 2 | 25 | |
| Ethanol | 144 | 300 | н | 200 | ND | 72 | 50-150 | 3 | 25 | |
| Ethyl tert-butyl ether | 9.79 | 0.50 | II. | 10.0 | ND | 98 | 80-135 | 3 | 25 | |
| Ethylbenzene | 9.83 | 0.50 | " | 10.0 | ND | 98 | 75-130 | 0.2 | 20 | |
| Methyl tert-butyl ether | 71.0 | 0.50 | н | 10.0 | 61.8 | 92 | 75-145 | 4 | 25 | |
| Coluene Coluene | 9.70 | 0.50 | n | 10.0 | ND | 97 | 80-125 | 1 | 25 | |
| (ylenes (total) | 29.2 | 0.50 | 11 | 30.0 | ND | 98 | 75-125 | 2 | 20 | |
| urrogate: Dibromofluoromethane | 2.74 | | " | 2.50 | | 110 | 80-120 | | | |
| urrogate: 1,2-Dichloroethane-d4 | 2.57 | | " | 2.50 | | 103 | 65-135 | | | |
| urrogate: Toluene-d8 | 2.51 | | " | 2.50 | | 100 | 75-120 | | | |
| urrogate: 4-Bromofluorobenzene | 2.59 | | n | 2.50 | | 104 | 65-120 | | | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0028
Project Manager: Jay Johnson

MQJ0464 Reported: 11/08/07 06:19

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|-----------|--------------------|-------|----------------|------------------|------------|----------------|-----|--------------|-------|
| Batch 7J19009 - EPA 5030B P/T | EPA 8260B | | | | | | | | | |
| Blank (7J19009-BLK1) | | | | Prepared a | & Analyze | d: 10/19/ | 07 | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | II | | | | | | | |
| tert-Butyl alcohol | ND | 20 | u | | | | | | | |
| Di-isopropyl ether | ND | 0.50 | H | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | н | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | 11 | | | | | | | |
| Ethanol | ND | 300 | tt | | | | | | | |
| Ethyl tert-butyl ether | ND | 0.50 | Ħ | | | | | | | |
| Ethylbenzene | ND | 0.50 | tt | | | | | | | |
| Methyl tert-butyl ether | ND | 0.50 | u | | | | | | | |
| Toluene | ND | 0.50 | n | | | | | | | |
| Xylenes (total) | ND | 0.50 | H | | | | | | | |
| Surrogate: Dibromofluoromethane | 2.77 | | " | 2.50 | | 111 | 80-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 3.07 | | " | 2.50 | | 123 | 65-135 | | | |
| Surrogate: Toluene-d8 | 2.56 | | " | 2.50 | | 102 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.46 | | n . | 2.50 | | 98 | 65-120 | | | |
| Laboratory Control Sample (7J19009 | -BS1) | | | Prepared & | & Analyze | d: 10/19/0 |)7 | | | |
| tert-Amyl methyl ether | 10.4 | 0.50 | ug/l | 10.0 | | 104 | 75-125 | | | |
| Benzene | 9.51 | 0.50 | n | 10.0 | | 95 | 75-120 | | | |
| tert-Butyl alcohol | 197 | 20 | ** | 200 | | 98 | 80-120 | | | |
| Di-isopropyl ether | 9.43 | 0.50 | II. | 10.0 | | 94 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 11.0 | 0.50 | ** | 10.0 | | 110 | 75-130 | | | |
| 1,2-Dichloroethane | 11.0 | 0.50 | II | 10.0 | | 110 | 65-130 | | | |
| Ethanol | 136 | 300 | # | 200 | | 68 | 50-150 | | | |
| Ethyl tert-butyl ether | 10.1 | 0.50 | ** | 10.0 | | 101 | 75-130 | | | |
| Ethylbenzene | 10.2 | 0.50 | II. | 10.0 | | 102 | 80-125 | | | |
| Methyl tert-butyl ether | 11.0 | 0.50 | u | 10.0 | | 110 | 80-130 | | | |
| Toluene | 10.2 | 0.50 | 11 | 10.0 | | 102 | 80-120 | | | |
| Kylenes (total) | 31.1 | 0.50 | " | 30.0 | | 104 | 80-125 | | | |
| Surrogate: Dibromofluoromethane | 2.81 | | " | 2.50 | | 112 | 80-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.69 | | " | 2.50 | | 108 | 65-135 | | | |
| Surrogate: Toluene-d8 | 2.55 | | " | 2.50 | | 102 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.54 | | " | 2.50 | | 102 | 65-120 | | | |





Project: ARCO #2111, San Leandro, CA

MQJ0464 Project Number: G0C28-0028 Reported: Project Manager: Jay Johnson 11/08/07 06:19

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|-------------|--------------------|-------|----------------|------------------|------------|----------------|-----|---------------------------------------|-------|
| Batch 7J19009 - EPA 5030B P/T | / EPA 8260B | | | | | | | | | |
| Laboratory Control Sample Dup (73 | | | | Prepared | & Analyze | ed: 10/19/ | 07 | | | |
| tert-Amyl methyl ether | 10.2 | 0.50 | ug/l | 10.0 | | 102 | 75-125 | 2 | 25 | |
| Benzene | 9.46 | 0.50 | н | 10.0 | | 95 | 75-120 | 0.5 | 20 | |
| tert-Butyl alcohol | 195 | 20 | ш | 200 | | 98 | 80-120 | 0.6 | 25 | |
| Di-isopropyl ether | 9.48 | 0.50 | " | 10.0 | | 95 | 70-130 | 0.5 | 25 | |
| 1,2-Dibromoethane (EDB) | 10.5 | 0.50 | н | 10.0 | | 105 | 75-130 | 5 | 30 | |
| 1,2-Dichloroethane | 11.0 | 0.50 | " | 10.0 | | 110 | 65-130 | 0.7 | 25 | |
| Ethanol | 168 | 300 | 11 | 200 | | 84 | 50-150 | 21 | 25 | |
| Ethyl tert-butyl ether | 10.0 | 0.50 | " | 10.0 | | 100 | 75-130 | 0.9 | 25 | |
| Ethylbenzene | 9.95 | 0.50 | п | 10.0 | | 100 | 80-125 | 3 | 20 | |
| Methyl tert-butyl ether | 10.6 | 0.50 | n | 10.0 | | 106 | 80-130 | 3 | 25 | |
| Toluene | 9.91 | 0.50 | # | 10.0 | | 99 | 80-120 | 3 | 25 | |
| Xylenes (total) | 29.8 | 0.50 | " | 30.0 | | 99 | 80-125 | 4 | 20 | |
| Surrogate: Dibromofluoromethane | 2.78 | | " | 2.50 | | 111 | 80-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.74 | | " | 2.50 | | 110 | 65-135 | | | |
| Surrogate: Toluene-d8 | 2.52 | | " | 2.50 | | 101 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.51 | | " | 2.50 | | 100 | 65-120 | | | |
| Matrix Spike (7J19009-MS1) | Source: Mo | QJ0497-01 | | Prepared & | & Analyze | | | | | |
| tert-Amyl methyl ether | 10.7 | 0.50 | ug/l | 10.0 | ND | 107 | 75-140 | | · · · · · · · · · · · · · · · · · · · | |
| Benzene | 10.4 | 0.50 | 11 | 10.0 | 0.340 | 101 | 80-120 | | | |
| tert-Butyl alcohol | 199 | 20 | " | 200 | ND | 100 | 80-125 | | | |
| Di-isopropyl ether | 10.9 | 0.50 | " | 10.0 | 0.530 | 104 | 75-135 | | | |
| 1,2-Dibromoethane (EDB) | 11.0 | 0.50 | H | 10.0 | ND | 110 | 80-135 | | | |
| 1,2-Dichloroethane | 10.3 | 0.50 | 11 | 10.0 | ND | 103 | 65-145 | | | |
| Ethanol | 200 | 300 | 41 | 200 | ND | 100 | 50-150 | | | |
| Ethyl tert-butyl ether | 10.6 | 0.50 | 11 | 10.0 | ND | 106 | 80-135 | | | |
| Ethylbenzene | 10.4 | 0.50 | +1 | 10.0 | ND | 104 | 75-130 | | | |
| Methyl tert-butyl ether | 10.7 | 0.50 | н | 10.0 | 0.140 | 106 | 75-145 | | | |
| Toluene | 10.6 | 0.50 | 11 | 10.0 | 0.130 | 104 | 80-125 | | | |
| Xylenes (total) | 31.3 | 0.50 | " | 30.0 | ND | 104 | 75-125 | | | |
| Surrogate: Dibromofluoromethane | 2.73 | | " | 2.50 | | 109 | 80-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.55 | | " | 2.50 | | 102 | 65-135 | | | |
| Surrogate: Toluene-d8 | 2.50 | | " | 2.50 | | 100 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.50 | | 11 | 2.50 | | 100 | 65-120 | | | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0028 Project Manager: Jay Johnson

MQJ0464 Reported: 11/08/07 06:19

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|-----------|--------------------|-------|----------------|------------------|------------|----------------|-----|--------------|---------------------------------------|
| Batch 7J19009 - EPA 5030B P/T / E | PA 8260B | | | | | | | | | |
| Matrix Spike Dup (7J19009-MSD1) | Source: M | QJ0497-01 | | Prepared | & Analyze | ed: 10/19/ | 07 | | | |
| tert-Amyl methyl ether | 10.5 | 0.50 | ug/l | 10.0 | ND | 105 | 75-140 | 2 | 25 | · · · · · · · · · · · · · · · · · · · |
| Benzene | 10.2 | 0.50 | п | 10.0 | 0.340 | 98 | 80-120 | 3 | 20 | |
| tert-Butyl alcohol | 203 | 20 | " | 200 | ND | 101 | 80-125 | 2 | 25 | |
| Di-isopropyl ether | 10.8 | 0.50 | 0 | 10.0 | 0.530 | 103 | 75-135 | 1 | 25 | |
| 1,2-Dibromoethane (EDB) | 10.5 | 0.50 | " | 10.0 | ND | 105 | 80-135 | 5 | 30 | |
| 1,2-Dichloroethane | 10.3 | 0.50 | 11 | 10.0 | ND | 103 | 65-145 | 0 | 25 | |
| Ethanol | 164 | 300 | 11 | 200 | ND | 82 | 50-150 | 20 | 25 | |
| Ethyl tert-butyl ether | 10.6 | 0.50 | " | 10.0 | ND | 106 | 80-135 | 0.7 | 25 | |
| Ethylbenzene | 10.2 | 0.50 | n | 10.0 | ND | 102 | 75-130 | 2 | 20 | |
| Methyl tert-butyl ether | 10.5 | 0.50 | н | 10.0 | 0.140 | 104 | 75-145 | 2 | 25 | |
| Toluene | 10.4 | 0.50 | | 10.0 | 0.130 | 102 | 80-125 | 2 | 25 | |
| Xylenes (total) | 31.1 | 0.50 | " | 30.0 | ND | 104 | 75-125 | 0.6 | 20 | |
| Surrogate: Dibromofluoromethane | 2.80 | | " | 2.50 | | 112 | 80-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.47 | | " | 2.50 | | 99 | 65-135 | | | |
| Surrogate: Toluene-d8 | 2.59 | | " | 2.50 | | 104 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.52 | | " | 2.50 | | 101 | 65-120 | | | |
| Batch 7J24013 - EPA 5030B P/T / E | PA 8260B | | | | | | | | | |
| Blank (7J24013-BLK1) | | | | Prepared & | & Analyze | d: 10/24/0 |)7 | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | n | | | | | | | |
| tert-Butyl alcohol | ND | 20 | # | | | | | | | |
| Di-isopropyl ether | ND | 0.50 | н | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | 41 | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | n | | | | | | | |
| Ethanol | ND | 300 | ** | | | | | | | |
| Ethyl tert-butyl ether | ND | 0.50 | 11 | | | | | | | |
| Ethylbenzene | ND | 0.50 | #1 | | | | | | | |
| Methyl tert-butyl ether | ND | 0.50 | 11 | | | | | | | |
| Γoluene | ND | 0.50 | | | | | | | | |
| Xylenes (total) | ND | 0,50 | D . | | | | | | | |
| Surrogate: Dibromofluoromethane | 2.77 | | " | 2.50 | | 111 | 80-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 3.00 | | " | 2.50 | | 120 | 65-135 | | | |
| Surrogate: Toluene-d8 | 2.50 | | " | 2.50 | | 100 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.40 | | " | 2.50 | | 96 | 65-120 | | | |

TestAmerica - Morgan Hill, CA

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





Project: ARCO #2111, San Leandro, CA

MQJ0464 Project Number: G0C28-0028 Reported: Project Manager: Jay Johnson 11/08/07 06:19

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|------------|--------------------|-------|----------------|--|------------|----------------|-----|--------------|-------|
| Batch 7J24013 - EPA 5030B P/T / | EPA 8260B | | | | | | | | | |
| Laboratory Control Sample (7J24013 | -BS1) | | | Prepared | & Analyze | d: 10/24/ | 07 | | | |
| tert-Amyl methyl ether | 9.50 | 0.50 | ug/l | 10.0 | | 95 | 75-125 | | | |
| Benzene | 9.13 | 0.50 | " | 10.0 | | 91 | 75-120 | | | |
| tert-Butyl alcohol | 198 | 20 | ** | 200 | | 99 | 80-120 | | | |
| Di-isopropyl ether | 9.27 | 0.50 | 0 | 10.0 | | 93 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 9.94 | 0.50 | " | 10.0 | | 99 | 75-130 | | | |
| 1,2-Dichloroethane | 9.61 | 0.50 | 11 | 10.0 | | 96 | 65-130 | | | |
| Ethanol | 203 | 300 | ** | 200 | | 102 | 50-150 | | | |
| Ethyl tert-butyl ether | 9.31 | 0.50 | п | 10.0 | | 93 | 75-130 | | | |
| Ethylbenzene | 9.80 | 0.50 | " | 10.0 | | 98 | 80-125 | | | |
| Methyl tert-butyl ether | 9.72 | 0.50 | п | 10.0 | | 97 | 80-130 | | | |
| Toluene | 9.64 | 0.50 | n | 10.0 | | 96 | 80-120 | | | |
| Xylenes (total) | 30.0 | 0.50 | ш | 30.0 | | 100 | 80-125 | | | |
| Surrogate: Dibromofluoromethane | 2.56 | | " | 2.50 | | 102 | 80-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.40 | | n | 2.50 | | 96 | 65-135 | | | |
| Surrogate: Toluene-d8 | 2.41 | | " | 2.50 | | 96 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.44 | | " | 2.50 | | 98 | 65-120 | | | |
| Laboratory Control Sample Dup (7J2 | 4013-BSD1) | | | Prepared & | k Analyze | d: 10/24/0 |)7 | | | |
| ert-Amyl methyl ether | 9.57 | 0.50 | ug/l | 10.0 | ······································ | 96 | 75-125 | 0.7 | 25 | |
| Benzene | 9.14 | 0.50 | n | 10.0 | | 91 | 75-120 | 0.1 | 20 | |
| ert-Butyl alcohol | 193 | 20 | ** | 200 | | 97 | 80-120 | 3 | 25 | |
| Di-isopropyl ether | 9.53 | 0.50 | n | 10.0 | | 95 | 70-130 | 3 | 25 | |
| 1,2-Dibromoethane (EDB) | 10.1 | 0.50 | " | 10.0 | | 101 | 75-130 | I | 30 | |
| ,2-Dichloroethane | 9.54 | 0.50 | н | 10.0 | | 95 | 65-130 | 0.7 | 25 | |
| Ethanol | 179 | 300 | н | 200 | | 90 | 50-150 | 13 | 25 | |
| Ethyl tert-butyl ether | 9.34 | 0.50 | н | 10.0 | | 93 | 75-130 | 0.3 | 25 | |
| Ethylbenzene | 9.16 | 0.50 | 11 | 10.0 | | 92 | 80-125 | 7 | 20 | |
| Methyl tert-butyl ether | 9.61 | 0.50 | ** | 10.0 | | 96 | 80-130 | 1 | 25 | |
| Toluene | 9.38 | 0.50 | 11 | 10.0 | | 94 | 80-120 | 3 | 25 | |
| Kylenes (total) | 28.3 | 0.50 | " | 30.0 | | 94 | 80-125 | 6 | 20 | |
| Surrogate: Dibromofluoromethane | 2.63 | | " | 2.50 | | 105 | 75-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.43 | | " | 2.50 | | 97 | 60-150 | | | |
| Surrogate: Toluene-d8 | 2.51 | | " | 2.50 | | 100 | 75-120 | | | |
| Gurrogate: 4-Bromofluorobenzene | 2.46 | | " | 2.50 | | 98 | 55-130 | | | |





Project: ARCO #2111, San Leandro, CA

MQJ0464 Reported: 11/08/07 06:19

Project Number: G0C28-0028
Project Manager: Jay Johnson

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|------------|--------------------|---------|----------------|------------------|------------|----------------|-----|--------------|-------|
| Batch 7J24013 - EPA 5030B P/T / F | EPA 8260B | | | | | | | | | |
| Matrix Spike (7J24013-MS1) | Source: M | QJ0711-01 | ******* | Prepared | & Analyze | ed: 10/24/ | 07 | | | |
| tert-Amyl methyl ether | 9.85 | 0.50 | ug/l | 10.0 | ND | 98 | 75-140 | | | |
| Benzene | 15.6 | 0.50 | * | 10.0 | 7.29 | 83 | 80-120 | | | |
| tert-Butyl alcohol | 212 | 20 | II . | 200 | 22.6 | 94 | 80-125 | | | |
| Di-isopropyl ether | 9.34 | 0.50 | n | 10.0 | 0.140 | 92 | 75-135 | | | |
| 1,2-Dibromoethane (EDB) | 10.3 | 0.50 | H | 10.0 | ND | 103 | 80-135 | | | |
| 1,2-Dichloroethane | 10.4 | 0.50 | " | 10.0 | ND | 104 | 65-145 | | | |
| Ethanol | 179 | 300 | ** | 200 | ND | 90 | 50-150 | | | |
| Ethyl tert-butyl ether | 9.62 | 0.50 | n | 10.0 | ND | 96 | 80-135 | | | |
| Ethylbenzene | 12.2 | 0.50 | 11 | 10.0 | 2.90 | 92 | 75-130 | | | |
| Methyl tert-butyl ether | 12.2 | 0.50 | H | 10.0 | 1.93 | 102 | 75-145 | | | |
| Toluene | 11.3 | 0.50 | " | 10.0 | 1.75 | 96 | 80-125 | | | |
| Xylenes (total) | 33.2 | 0.50 | ш | 30.0 | 4.33 | 96 | 75-125 | | | |
| Surrogate: Dibromofluoromethane | 2.82 | | " | 2,50 | | 113 | 80-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.68 | | " | 2.50 | | 107 | 65-135 | | | |
| Surrogate: Toluene-d8 | 2.50 | | " | 2.50 | | 100 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.45 | | " | 2.50 | | 98 | 65-120 | | | |
| Matrix Spike Dup (7J24013-MSD1) | Source: MO |)J0711-01 | | Prepared & | & Analyze | d: 10/24/0 |)7 | | | |
| tert-Amyl methyl ether | 10.0 | 0.50 | ug/l | 10.0 | ND | 100 | 75-140 | 2 | 25 | |
| Benzene | 15.7 | 0.50 | 11 | 10.0 | 7.29 | 84 | 80-120 | 1 | 20 | |
| tert-Butyl alcohol | 214 | 20 | ** | 200 | 22.6 | 95 | 80-125 | 0.9 | 25 | |
| Di-isopropyl ether | 9.24 | 0.50 | 0 | 10.0 | 0.140 | 91 | 75-135 | 1 | 25 | |
| 1,2-Dibromoethane (EDB) | 10.5 | 0.50 | II | 10.0 | ND | 105 | 80-135 | 2 | 30 | |
| 1,2-Dichloroethane | 10.8 | 0.50 | " | 10.0 | ND | 108 | 65-145 | 4 | 25 | |
| Ethanol | 158 | 300 | 11 | 200 | ND | 79 | 50-150 | 13 | 25 | |
| Ethyl tert-butyl ether | 9.64 | 0.50 | n | 10.0 | ND | 96 | 80-135 | 0.2 | 25 | |
| Ethylbenzene | 12.2 | 0.50 | ** | 10.0 | 2.90 | 93 | 75-130 | 0.7 | 20 | |
| Methyl tert-butyl ether | 12.1 | 0.50 | n | 10.0 | 1.93 | 102 | 75-145 | 0.2 | 25 | |
| Гoluene | 11.3 | 0.50 | " | 10.0 | 1.75 | 95 | 80-125 | 0.4 | 25 | |
| Xylenes (total) | 32.6 | 0.50 | 11 | 30.0 | 4.33 | 94 | 75-125 | 2 | 20 | |
| Surrogate: Dibromofluoromethane | 2.92 | | " | 2.50 | | 117 | 80-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.76 | | " | 2.50 | | 110 | 65-135 | | | |
| Surrogate: Toluene-d8 | 2.52 | | " | 2.50 | | 101 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.58 | | " | 2.50 | | 103 | 65-120 | | | |



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

Stratus Environmental Inc. [Arco]
Project: ARCO #2111, San Leandro, CA
3330 Cameron Park Dr., Suite 550
Project Number: G0C28-0028
Cameron Park CA, 95682
Project Manager: Jay Johnson
11/08/07 06:19

Notes and Definitions

CL Initial analysis within holding time but required dilution

DET Analyte DETECTED

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

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Temp: 703

Temp: 312's

Atlantic Richfield Company

A BP affiliated company

Chain of Custody Record

Project Name:

ARCO 2111

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda > 2111 Sky Conditions:

STD-TAT

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

Meteorological Events:

On-site Time:

Off-site Time:

Wind Speed: ____ Direction

030

ab Name: TestAmerica BP/AR Facility No.: 2111 Consultant/Contractor: Stratus Environmental, Inc. Address: 885 Jarvis Drive BP/AR Facility Address: 1156 Davis Street, San Leandro Address: 3330 Cameron Park Drive, Suite 550 Morgan Hill, CA 95937 Site Lat/Long: Cameron Park, CA 95682 Lab PM: Lisa Race California Global ID No.: T0600101764 Consultant/Contractor Project No.: E2111-03 Tele/Fax: 408-782-8156 408-782-6308 (fax) Enfos Project No.: G0C28-0028 Consultant/Contractor PM: Jay Johnson BP/AR PM Contact: Paul Supple Provision or OOC (circle one) Provision Tele/Fax: (530) 676-6000 / (530) 676-6005 Address: 2010 Crow Canyon Place, Suite 150 Phase/WBS: 04-Monitoring Report Type & OC Level: Level I with EDF San Ramon, CA Sub Phase/Task: 03-Analytical E-mail EDD To: shayes@stratusinc.net Tele/Fax: 925-275-3506 Cost Element: 01-Contractor labor Invoice to: Atlantic Richfield Co. Lab Bottle Order No: Matrix Preservative RLB. 8260 Requested Analysis Sample Point Lat/Long and Water/Liquid Air Comments Time Item Unpreserved Sample Description 8 Soil/Solid No. Laboratory No. Methanol *Oxv= ot HNO, MaJ0464 MTBE, TAME, ETBE, DIPE, TBA 1345 MW-2 1235 Ь MW-3 1410 3 MW-4 1140 3 MW-5 3 1116 MW-7 2.08 3 MW-8 1330 3 8 TB- 2111-10112007 1045 2 HOLD Sampler's Name: Relinquished By / Affiliation Date Time Accepted By / Affiliation Time Sampler's Company: STRATUS ENVIRONMENTAL 101107 1636 163 Shipment Date: 10-11-07 1630 but 172 Shipment Method: roul 2000 10/11/07 2000 sipment Tracking No: al Instructions: Please cc results to rmiller@broadbentinc.com ody Seals In Place: Yes // No Temp Blank: Yes / No Cooler Temp on Receipt: 3.4 °F/C) Trip Blank Yes No MS/MSD Sample Submitted: (Yes) / No

TEST AMERICA SAMPLE RECEIPT LOG

| CLIENT NAME: | Avo | | DATE REC'D AT LAB: | 10/11/0 |) 7 | Programment of | | For Regula | atory Purposes? |
|---------------------------|---------------------|---------------------------------------|---|--|--|----------------|-----------|-----------------|------------------|
| REC. BY (PRINT) | A:M. | · · · · · · · · · · · · · · · · · · · | TIME REC'D AT LAB: | 200 | () | • | | | WATER YES / NO |
| WORKORDER: | majo464 | ···· | DATE LOGGED IN: | 101/2/07 | × | | | WASTE W | |
| | | | | | | | | TIAULE III | TIER TEST NO |
| CIRCLE THE APPRO | PRIATE RESPONSE | LAB | | CONTAINER | DDECED | | Totales = | | |
| | | SAMPLE # | CLIENT ID | DESCRIPTION | VATIVE | pН | SAMPLE | DATE SAMPLED | REMARKS: |
| Custody Seal(s) | Present / Absent | | | | | | AINTAIN | SAMPLED | CONDITION (ETC.) |
| | Intact / Broken* | | | | l | | | | |
| 2. Chain-of-Custody | Present / Absent* | | | | | | | | |
| 3. Traffic Reports or | | | | | | | | | |
| Packing List: | Present / Alasent | | | | · | | | | |
| 4. Airbill: | Airbill / Sticker | | | | | | | | |
| | Present / Absent | | | | | | | | |
| 5. Airbill #: | | | | | | | | _/ | |
| 6. Sample Labels: | Present / Absent | | | | | | | / | |
| 7. Sample IDs: | Listed / Not Listed | | | - | | | | <u></u> | |
| | on Chain-of-Custody | | | | | | / | | |
| 8. Sample Condition: | Intact / Broken* / | | | | | · | / | | |
| | Leaking* | | TANK TO THE TANK THE | | | - | | | |
| 9. Does information on | chain-of-custody. | | | 0.03 | ' | - | | | |
| traffic reports and sa | | | , t ¹ | V | | | | | |
| agree? | Yes / No* | | | - C92~ | | | | | |
| 0. Sample received withir | | | | —————————————————————————————————————— | | | | | |
| hold time? | (Pe)s / No* | | | 10) | | | | | |
| 1. Adequate sample volur | | | | \rightarrow | | | | | |
| received? | Ces / No* | | | / | <u> </u> | | | | |
| 2. Proper preservatives u | | | \overline{A} | | | | | | |
| 3. Trip Blank / Temp Blan | | - 42,435 | | | | | | | |
| (circle which, if yes) | (Yes / No* | | | | | | | | |
| I. Read Temp: | 3.40 | | | | | | | | |
| Correction Factor: | 0°C | | | | | | | | |
| Corrected Temp: | 3,400 | | | | | - | | | 1 |
| Is corrected temp. 0-6°(| | | (1) | | | | | | |
| Exception (if any): META | | -/ | - | | | | | | |
| or Problem COC | | \rightarrow | | | | | | | |
| | | | | | | | | 3 | |

RLERECEIPTLOG 8 (09/26/07) *IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

APPENDIX B

GEOTRACKER UPLOAD CONFIRMATIONS

Electronic Submittal Information

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

UPLOADING A GEO_WELL FILE

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

Submittal Title: 4Q07 GEO_WELL 2111

Facility Global ID: T0600101764
Facility Name: ARCO #2111

Submittal Date/Time: 1/11/2008 11:39:47 AM

Confirmation Number: 2814593255

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Confirmation Number: 3399355590

Date/Time of Submittal: 1/11/2008 12:01:27 PM

Facility Global ID: T0600101764 **Facility Name:** ARCO #2111

Submittal Title: 4Q07 GW Monitoring **Submittal Type:** GW Monitoring Report

Click here to view the detections report for this upload.

1156 DAVIS SAN FRANCISCO BAY RWQCB (REGION 2) SAN LEANDRO, CA 94577 **Local Agency (lead agency) - Case #: RO0000494**

ALAMEDA COUNTY LOP - (SP)

5

 CONF #
 TITLE
 QUARTER

 3399355590
 4Q07 GW Monitoring
 Q4 2007

SUBMITTED BY SUBMIT DATE STATUS

Broadbent & Associates, Inc. 1/11/2008 PENDING REVIEW

SAMPLE DETECTIONS REPORT

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

METHOD QA/QC REPORT

| METHODS USED | 8260FA,8260TPH |
|-------------------------------|----------------|
| TESTED FOR REQUIRED ANALYTES? | Υ |
| LAB NOTE DATA QUALIFIERS | Υ |

QA/QC FOR 8021/8260 SERIES SAMPLES TECHNICAL HOLDING TIME VIOLATIONS

| METHOD HOLDING TIME VIOLATIONS | 5 |
|---|---|
| LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT | 0 |
| LAB BLANK DETECTIONS | 0 |
| DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING? | |
| - LAB METHOD BLANK | Υ |
| - MATRIX SPIKE | Υ |
| - MATRIX SPIKE DUPLICATE | Υ |
| - BLANK SPIKE | Υ |
| - SURROGATE SPIKE | Υ |

WATER SAMPLES FOR 8021/8260 SERIES

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

SOIL SAMPLES FOR 8021/8260 SERIES

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

FIELD QC SAMPLES

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

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Facility Global ID: T0600101764
Facility Name: ARCO #2111

Submittal Title: Monthly System Sampling 1007 **Submittal Type:** Soil & Water Investigation Report

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ARCO #2111 Regional Board - Case #: 01-1903

1156 DAVIS SAN FRANCISCO BAY RWQCB (REGION 2)
SAN LEANDRO, CA 94577 Local Agency (lead agency) - Case #: RO0000494

ALAMEDA COUNTY LOP - (SP)

CONF #TITLEQUARTER6887431085Monthly System Sampling 1007Q4 2007

SUBMITTED BY SUBMIT DATE STATUS

Broadbent & Associates, Inc. 1/11/2008 PENDING REVIEW

SAMPLE DETECTIONS REPORT

FIELD POINTS SAMPLED 5
FIELD POINTS WITH DETECTIONS 4
FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL 2
SAMPLE MATRIX TYPES AIR - UNK. ORIGIN

METHOD QA/QC REPORT

METHODS USED 8260FA,SW8015B

TESTED FOR REQUIRED ANALYTES?

MISSING PARAMETERS NOT TESTED:

- 8260FA REQUIRES ETBE TO BE TESTED
- 8260FA REQUIRES TAME TO BE TESTED
- 8260FA REQUIRES DIPE TO BE TESTED
- 8260FA REQUIRES TBA TO BE TESTED
- 8260FA REQUIRES ETHANOL TO BE TESTED
- SW8015B REQUIRES ETBE TO BE TESTED
- SW8015B REQUIRES TAME TO BE TESTED
- SW8015B REQUIRES DIPE TO BE TESTED
- SW8015B REQUIRES TBA TO BE TESTED
- SW8015B REQUIRES DCA12 TO BE TESTED
- SW8015B REQUIRES EDB TO BE TESTED

LAB NOTE DATA QUALIFIERS

N

QA/QC FOR 8021/8260 SERIES SAMPLES

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

- LAB METHOD BLANK

NI.

- MATRIX SPIKE

| - MATRIX SPIKE DUPLICA | iTC | | N |
|---|----------------------------|--------------------|-------|
| - MATRIX SPIKE DUPLICA - BLANK SPIKE | .16 | | Y |
| - SURROGATE SPIKE | | | Y |
| - SURROGATE SPIRE | | | ' [|
| WATER SAMPLES FOR 8021/8260 SERIES | | | |
| MATRIX SPIKE / MATRIX S | PIKE DUPLICATE(S) % RECOVE | RY BETWEEN 65-135% | n/a |
| MATRIX SPIKE / MATRIX S | PIKE DUPLICATE(S) RPD LESS | THAN 30% | n/a |
| SURROGATE SPIKES % RE | COVERY BETWEEN 85-115% | | n/a |
| BLANK SPIKE / BLANK SPI | KE DUPLICATES % RECOVERY I | BETWEEN 70-130% | n/a |
| SOIL SAMPLES FOR 8021/8260 SERIES MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% n/a | | | |
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% | | | n/a |
| SURROGATE SPIKES % RECOVERY BETWEEN 70-125% | | n/a | |
| 501110 5711 51 11120 70 11200 T2111 52 1112211 7 0 123 70 | | n/a | |
| BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% | | 11/a | |
| FIELD QC SAMPLES | | | |
| SAMPLE | COLLECTED | DETECTIONS > | REPDL |
| OCTB SAMPLES | N | 0 | |
| QCEB SAMPLES | N | 0 | |
| QCAB SAMPLES | N | 0 | |
| | | | |

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Facility Global ID: T0600101764
Facility Name: ARCO #2111

Submittal Title: Monthly System Sampling 1007 2 **Submittal Type:** Soil & Water Investigation Report

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ARCO #2111 Regional Board - Case #: 01-1903

1156 DAVIS SAN FRANCISCO BAY RWQCB (REGION 2)
SAN LEANDRO, CA 94577 Local Agency (lead agency) - Case #: RO0000494

ALAMEDA COUNTY LOP - (SP)

 CONF #
 TITLE
 QUARTER

 2433292567
 Monthly System Sampling 1007 2
 Q4 2007

SUBMITTED BY SUBMIT DATE STATUS

Broadbent & Associates, Inc. 1/11/2008 PENDING REVIEW

SAMPLE DETECTIONS REPORT

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

METHOD QA/QC REPORT

METHODS USED 8260FA,SW8015B TESTED FOR REQUIRED ANALYTES? N

MISSING PARAMETERS NOT TESTED:

- 8260FA REQUIRES ETHANOL TO BE TESTED
- SW8015B REQUIRES DCA12 TO BE TESTED
- SW8015B REQUIRES EDB TO BE TESTED

LAB NOTE DATA QUALIFIERS Y

QA/QC FOR 8021/8260 SERIES SAMPLES

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

WATER SAMPLES FOR 8021/8260 SERIES

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

| MATRIX SPIKE / MATRIX S | PIKE DUPLICATE(S) RPD LESS | THAN 30% | Υ |
|-------------------------|----------------------------|---------------------|-------|
| SURROGATE SPIKES % RE | COVERY BETWEEN 85-115% | | N |
| BLANK SPIKE / BLANK SPI | KE DUPLICATES % RECOVERY | BETWEEN 70-130% | Υ |
| SOIL SAMPLES FOR | 3021/8260 SERIES | | |
| MATRIX SPIKE / MATRIX S | PIKE DUPLICATE(S) % RECOVE | ERY BETWEEN 65-135% | n/a |
| MATRIX SPIKE / MATRIX S | PIKE DUPLICATE(S) RPD LESS | THAN 30% | n/a |
| SURROGATE SPIKES % RE | COVERY BETWEEN 70-125% | | n/a |
| BLANK SPIKE / BLANK SPI | KE DUPLICATES % RECOVERY | BETWEEN 70-130% | n/a |
| FIELD QC SAMPLES | | | |
| <u>SAMPLE</u> | COLLECTED | DETECTIONS > | REPDL |
| QCTB SAMPLES | N | 0 | |
| QCEB SAMPLES | N | 0 | |
| QCAB SAMPLES | N | 0 | |

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Facility Global ID: T0600101764 Facility Name: ARCO #2111

Submittal Title: Monthly System Sampling 1007 **Submittal Type:** Soil & Water Investigation Report

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ARCO #2111 Regional Board - Case #: 01-1903

1156 DAVIS SAN FRANCISCO BAY RWQCB (REGION 2) SAN LEANDRO, CA 94577 Local Agency (lead agency) - Case #: RO0000494

ALAMEDA COUNTY LOP - (SP)

CONF# **TITLE QUARTER** 9109633207 Monthly System Sampling 1007 Q4 2007

SUBMITTED BY SUBMIT DATE STATUS

1/11/2008 PENDING REVIEW Broadbent & Associates, Inc.

SAMPLE DETECTIONS REPORT

FIELD POINTS SAMPLED 1 # FIELD POINTS WITH DETECTIONS 0 # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL SAMPLE MATRIX TYPES AIR - UNK. ORIGIN

METHOD QA/QC REPORT

METHODS USED 8260FA,8260TPH TESTED FOR REQUIRED ANALYTES?

MISSING PARAMETERS NOT TESTED:

- 8260FA REQUIRES ETBE TO BE TESTED
- 8260FA REQUIRES TAME TO BE TESTED
- 8260FA REQUIRES DIPE TO BE TESTED
- 8260FA REQUIRES TBA TO BE TESTED - 8260FA REQUIRES ETHANOL TO BE TESTED

LAB NOTE DATA QUALIFIERS

Ν

QA/QC FOR 8021/8260 SERIES SAMPLES

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

WATER SAMPLES FOR 8021/8260 SERIES

| MATRIX SPIKE / MATRIX S SURROGATE SPIKES % RE | SPIKE DUPLICATE(S) % RECOVER SPIKE DUPLICATE(S) RPD LESS T ECOVERY BETWEEN 85-115% IKE DUPLICATES % RECOVERY B | HAN 30% | n/a n/a n/a n/a |
|---|---|-------------------------------|---------------------------------|
| SOIL SAMPLES FOR MATRIX SPIKE / MATRIX S MATRIX SPIKE / MATRIX S SURROGATE SPIKES % RE | | RY BETWEEN 65-135% HAN 30% | n/a n/a n/a n/a n/a |
| FIELD QC SAMPLES SAMPLE QCTB SAMPLES QCEB SAMPLES QCAB SAMPLES | COLLECTED N N N | DETECTIONS > 0 0 0 | REPDL |

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Confirmation Number: 4761008501

Date/Time of Submittal: 1/11/2008 12:07:39 PM

Facility Global ID: T0600101764
Facility Name: ARCO #2111

Submittal Title: Monthly System Sampling 1107 **Submittal Type:** Soil & Water Investigation Report

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ARCO #2111 Regional Board - Case #: 01-1903

1156 DAVIS SAN FRANCISCO BAY RWQCB (REGION 2) SAN LEANDRO, CA 94577 **Local Agency (lead agency) - Case #: RO0000494**

ALAMEDA COUNTY LOP - (SP)

CONF #TITLEQUARTER4761008501Monthly System Sampling 1107Q4 2007

SUBMITTED BY SUBMIT DATE STATUS

Broadbent & Associates, Inc. 1/11/2008 PENDING REVIEW

SAMPLE DETECTIONS REPORT

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

METHOD QA/QC REPORT

METHODS USED 8260FA,SW8015B

TESTED FOR REQUIRED ANALYTES?

MISSING PARAMETERS NOT TESTED:

- 8260FA REQUIRES ETBE TO BE TESTED
- 8260FA REQUIRES TAME TO BE TESTED
- 8260FA REQUIRES DIPE TO BE TESTED
- 8260FA REQUIRES TBA TO BE TESTED
- 8260FA REQUIRES ETHANOL TO BE TESTED
- SW8015B REQUIRES ETBE TO BE TESTED
- SW8015B REQUIRES TAME TO BE TESTED
- SW8015B REQUIRES DIPE TO BE TESTED
- SW8015B REQUIRES TBA TO BE TESTED
- SW8015B REQUIRES DCA12 TO BE TESTED
- SW8015B REQUIRES EDB TO BE TESTED

LAB NOTE DATA QUALIFIERS

NOTE DATA QUALITIES

Υ

QA/QC FOR 8021/8260 SERIES SAMPLES

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

- LAB METHOD BLANK

- MATRIX SPIKE

| - MATRIX SPIKE DUPLICA | NTE | | N |
|----------------------------|--|---------------------|------------|
| - BLANK SPIKE DUPLICA | 11 - | | Y |
| - SURROGATE SPIKE | | | v I |
| - SURROGATE SPIRE | | | ' I |
| WATER SAMPLES FO | R 8021/8260 SERIES | | |
| MATRIX SPIKE / MATRIX S | PIKE DUPLICATE(S) % RECOVE | RY BETWEEN 65-135% | n/a |
| MATRIX SPIKE / MATRIX S | PIKE DUPLICATE(S) RPD LESS | THAN 30% | n/a |
| SURROGATE SPIKES % RE | COVERY BETWEEN 85-115% | | n/a |
| BLANK SPIKE / BLANK SPI | KE DUPLICATES % RECOVERY E | 3ETWEEN 70-130% | n/a |
| SOIL SAMPLES FOR S | 8021/8260 SERIES SPIKE DUPLICATE(S) % RECOVE | EDV RETWEEN 65-135% | n/a |
| • | SPIKE DUPLICATE(S) % RECOVE | | · · I |
| • | COVERY BETWEEN 70-125% | ITAN 30% | n/a n/a |
| 00111100/1120111120 /0112 | KE DUPLICATES % RECOVERY E | DETWEEN 70_1200/ | , · |
| BLAINK SPIKE / DLAINK SFII | XE DUPLICATES % RECOVERT L | 3EIWEEN /U-13U70 | n/a |
| FIELD QC SAMPLES | | | |
| SAMPLE | COLLECTED | DETECTIONS > | REPDL |
| QCTB SAMPLES | N | 0 | |
| QCEB SAMPLES | N | 0 | |
| QCAB SAMPLES | N | 0 | |
| | | | |

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Confirmation Number: 4221581935

Date/Time of Submittal: 1/11/2008 12:12:38 PM

Facility Global ID: T0600101764 **Facility Name:** ARCO #2111

Submittal Title: Monthly System Sampling 1107 2 **Submittal Type:** Soil & Water Investigation Report

Click here to view the detections report for this upload.

ARCO #2111 Regional Board - Case #: 01-1903

1156 DAVIS SAN FRANCISCO BAY RWQCB (REGION 2) SAN LEANDRO, CA 94577 **Local Agency (lead agency) - Case #: RO0000494**

ALAMEDA COUNTY LOP - (SP)

 CONF #
 TITLE
 QUARTER

 4221581935
 Monthly System Sampling 1107 2
 Q4 2007

SUBMITTED BY SUBMIT DATE STATUS

Broadbent & Associates, Inc. 1/11/2008 PENDING REVIEW

SAMPLE DETECTIONS REPORT

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

METHOD QA/QC REPORT

METHODS USED 8260FA,SW8015B
TESTED FOR REQUIRED ANALYTES? N

MISSING PARAMETERS NOT TESTED:

- 8260FA REQUIRES ETHANOL TO BE TESTED
- SW8015B REQUIRES DCA12 TO BE TESTED
- SW8015B REQUIRES EDB TO BE TESTED

LAB NOTE DATA QUALIFIERS

Υ

OA/OC FOR 8021/8260 SERIES SAMPLES

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

WATER SAMPLES FOR 8021/8260 SERIES

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

| MATRIX SPIKE / MATRIX S | PIKE DUPLICATE(S) RPD LESS | THAN 30% | Υ |
|-------------------------|----------------------------|---------------------|-------|
| SURROGATE SPIKES % RE | COVERY BETWEEN 85-115% | | N |
| BLANK SPIKE / BLANK SPI | KE DUPLICATES % RECOVERY | BETWEEN 70-130% | Υ |
| SOIL SAMPLES FOR | 3021/8260 SERIES | | |
| MATRIX SPIKE / MATRIX S | PIKE DUPLICATE(S) % RECOVE | ERY BETWEEN 65-135% | n/a |
| MATRIX SPIKE / MATRIX S | PIKE DUPLICATE(S) RPD LESS | THAN 30% | n/a |
| SURROGATE SPIKES % RE | COVERY BETWEEN 70-125% | | n/a |
| BLANK SPIKE / BLANK SPI | KE DUPLICATES % RECOVERY | BETWEEN 70-130% | n/a |
| FIELD QC SAMPLES | | | |
| <u>SAMPLE</u> | COLLECTED | DETECTIONS > | REPDL |
| QCTB SAMPLES | N | 0 | |
| QCEB SAMPLES | N | 0 | |
| QCAB SAMPLES | N | 0 | |

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Confirmation Number: 2968047797

Date/Time of Submittal: 1/11/2008 12:17:30 PM

Facility Global ID: T0600101764 Facility Name: ARCO #2111

Submittal Title: Monthly System Sampling 1207 **Submittal Type:** Soil & Water Investigation Report

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ARCO #2111 Regional Board - Case #: 01-1903

1156 DAVIS SAN FRANCISCO BAY RWQCB (REGION 2) SAN LEANDRO, CA 94577 Local Agency (lead agency) - Case #: RO0000494

ALAMEDA COUNTY LOP - (SP)

CONF# TITLE **QUARTER** 2968047797 Monthly System Sampling 1207 Q4 2007

SUBMITTED BY SUBMIT DATE STATUS

PENDING REVIEW Broadbent & Associates, Inc. 1/11/2008

SAMPLE DETECTIONS REPORT

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

METHOD QA/QC REPORT

METHODS USED 8260FA,SW8015B

TESTED FOR REQUIRED ANALYTES?

MISSING PARAMETERS NOT TESTED:

- 8260FA REQUIRES ETBE TO BE TESTED
- 8260FA REQUIRES TAME TO BE TESTED
- 8260FA REQUIRES DIPE TO BE TESTED
- 8260FA REQUIRES TBA TO BE TESTED
- 8260FA REOUIRES ETHANOL TO BE TESTED
- SW8015B REQUIRES ETBE TO BE TESTED
- SW8015B REQUIRES TAME TO BE TESTED
- SW8015B REQUIRES DIPE TO BE TESTED
- SW8015B REQUIRES TBA TO BE TESTED
- SW8015B REQUIRES DCA12 TO BE TESTED
- SW8015B REQUIRES EDB TO BE TESTED

LAB NOTE DATA QUALIFIERS

Υ

QA/QC FOR 8021/8260 SERIES SAMPLES

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

- LAB METHOD BLANK

- MATRIX SPIKE

| - MATRIX SPIKE DUPLICA | NTE | | N |
|----------------------------|--|---------------------|------------|
| - BLANK SPIKE DUPLICA | 11 - | | Y |
| - SURROGATE SPIKE | | | v I |
| - SURROGATE SPIRE | | | ' I |
| WATER SAMPLES FO | R 8021/8260 SERIES | | |
| MATRIX SPIKE / MATRIX S | PIKE DUPLICATE(S) % RECOVE | RY BETWEEN 65-135% | n/a |
| MATRIX SPIKE / MATRIX S | PIKE DUPLICATE(S) RPD LESS | THAN 30% | n/a |
| SURROGATE SPIKES % RE | COVERY BETWEEN 85-115% | | n/a |
| BLANK SPIKE / BLANK SPI | KE DUPLICATES % RECOVERY E | 3ETWEEN 70-130% | n/a |
| SOIL SAMPLES FOR S | 8021/8260 SERIES SPIKE DUPLICATE(S) % RECOVE | EDV RETWEEN 65-135% | n/a |
| • | SPIKE DUPLICATE(S) % RECOVE | | · · I |
| • | COVERY BETWEEN 70-125% | ITAN 30% | n/a n/a |
| 00111100/1120111120 /0112 | KE DUPLICATES % RECOVERY E | DETWEEN 70_1200/ | , · |
| BLAINK SPIKE / DLAINK SFII | XE DUPLICATES % RECOVERT L | 3EIWEEN /U-13U70 | n/a |
| FIELD QC SAMPLES | | | |
| SAMPLE | COLLECTED | DETECTIONS > | REPDL |
| QCTB SAMPLES | N | 0 | |
| QCEB SAMPLES | N | 0 | |
| QCAB SAMPLES | N | 0 | |
| | | | |

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Electronic Submittal Information

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Confirmation Number: 6432738184

Date/Time of Submittal: 1/11/2008 12:24:58 PM

Facility Global ID: T0600101764
Facility Name: ARCO #2111

Submittal Title: Monthly System Sampling 1207 2 **Submittal Type:** Soil & Water Investigation Report

Click here to view the detections report for this upload.

ARCO #2111 Regional Board - Case #: 01-1903

1156 DAVIS SAN FRANCISCO BAY RWQCB (REGION 2) SAN LEANDRO, CA 94577 **Local Agency (lead agency) - Case #: RO0000494**

ALAMEDA COUNTY LOP - (SP)

CONF #TITLEQUARTER6432738184Monthly System Sampling 1207 2Q4 2007

SUBMITTED BY SUBMIT DATE STATUS

Broadbent & Associates, Inc. 1/11/2008 PENDING REVIEW

SAMPLE DETECTIONS REPORT

FIELD POINTS SAMPLED 6
FIELD POINTS WITH DETECTIONS 4
FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL 2
SAMPLE MATRIX TYPES WATER

METHOD QA/QC REPORT

METHODS USED 8260FA,SW8015B
TESTED FOR REQUIRED ANALYTES? N

MISSING PARAMETERS NOT TESTED:

- 8260FA REQUIRES ETHANOL TO BE TESTED
- SW8015B REQUIRES DCA12 TO BE TESTED
- SW8015B REQUIRES EDB TO BE TESTED

LAB NOTE DATA QUALIFIERS Y

OA/OC FOR 8021/8260 SERIES SAMPLES

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

WATER SAMPLES FOR 8021/8260 SERIES

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

| MATRIX SPIKE / MATRIX S | PIKE DUPLICATE(S) RPD LESS | THAN 30% | Υ |
|-------------------------|----------------------------|---------------------|-------|
| SURROGATE SPIKES % RE | COVERY BETWEEN 85-115% | | Υ |
| BLANK SPIKE / BLANK SPI | KE DUPLICATES % RECOVERY | BETWEEN 70-130% | Υ |
| SOIL SAMPLES FOR | 8021/8260 SERIES | | |
| MATRIX SPIKE / MATRIX S | PIKE DUPLICATE(S) % RECOVE | ERY BETWEEN 65-135% | n/a |
| MATRIX SPIKE / MATRIX S | PIKE DUPLICATE(S) RPD LESS | THAN 30% | n/a |
| SURROGATE SPIKES % RE | COVERY BETWEEN 70-125% | | n/a |
| BLANK SPIKE / BLANK SPI | KE DUPLICATES % RECOVERY | BETWEEN 70-130% | n/a |
| FIELD QC SAMPLES | | | |
| <u>SAMPLE</u> | COLLECTED | DETECTIONS > | REPDL |
| QCTB SAMPLES | N | 0 | |
| QCEB SAMPLES | N | 0 | |
| | | | |

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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)



November 7, 2007

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

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

General Information

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

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

On-Site Supplier Representatives: Chris Hill and Martin Morgan

Number of Site Visits: 4 (October 1, 11, 23, and 30, 2007)

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

Operational Status: Continuous operation

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

Variations from Scope of Work: The remediation systems were shutdown on October 1, 2007, after sampling, pending receipt and verification of analytical results. Since MTBE (0.61 mg/m³) was reported in the effluent air sample collected on October 1, 2007, it was re-sampled on October 11, 2007 and the remediation systems were shutdown on October 11, 2007 pending receipt and verification of analytical results for the effluent air sample. Petroleum hydrocarbons and fuel oxygenates were below laboratory reporting limits in the effluent air sample collected on October 11, 2007. The remediation systems were re-started on October 23, 2007.

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

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Sonia Nandi for Kiran Nagaraju Staff Engineer

Attachments:

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

CC: Paul Supple, BP/ARCO

1156 Davis Street

San Leandro, California

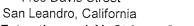
Groundwater Treatment System



| | | | | | - | | | · MESSIN |
|----------------------------------|-------------------------|----------|--------------|------------|--|------------|--|--------------------------|
| Date: Onsite Time: Offsite Time: | 10-(19) 0500 0815 | 7 | | | n: Conditions: Cemperature | C/VIII | 15 | - |
| System Status | s Upon Arrival: | | Operation | al 🗵 | _Non-operation | onal Res | Fret | |
| System Status | s At Departure: | | Operation | | Non-operation | | | |
| Transfer Pum | p; | | Operation | al 🔽 | Non-operation | onal WAI | TFOU. | LAB R |
| Transfer Pum | p Hour Meter R | eading: | NA | | Effluent W | | | |
| Effluent Flow | Totalizer Readir | ng: | 59240 | <u> 23</u> | pH: | y riola mo | 7.60 | 7 |
| No. of Carbon | Vessels: | | 2 | | Temperature | 9 : | 17-6 | 7 |
| Lead Carbon (psi): | Vessel Pressure |) | 7 | - | | | | - PROTEINATE Anima pager |
| Well ID | Hour Meter | Reading | Totalize | r Reading | Total Depth | Pump Dep | th | |
| MW-2 | | | 353 | 35 | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | 7 | npling Infor | | | | | |
| | iple ID | | & Time | | mple ID | Date & | | |
| 02111DPEWI | | 10107 | 045 | 02111MW | 2WINF | 10.07 | D616 | |
| 02111ASWINF 02111ASWEF | | | 0610 | | | | | |
| 02111ASWEF 02111WGAC1 | | | 0612 | | | | | |
| 02111WEFF | | | ova | | | | | |
| | | | | | - Commonweal and the second | | | |
| Lab Pa | rameters | Sampling | Frequency | Sampl | e Location | Analytical | Method | |
| GRO, BTE | X, & 5-Oxys | Moi | nthly | INF | & EFF | EPA Metho | d 8260B | |
| | | | | | | | | |
| Notes: | | | | | maniforma special discontinuoles consustante de certaine de certaine de certaine de certaine de certaine de ce Certaine de certaine de ce | | | |
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| | 12/1 | | | | 191 | n 7 | Manhaman and a company of the compan | |

Page 1 of 1

1156 Davis Street





Dual Phase Extraction and Air Stripper System

| Onsite Time: 0500 Offsite Time: 0815 Equipment Manufacturer/Mo | del# | Technician: Weather Conditions: Ambient Temperature: | CI | uls | |
|--|-----------------------|--|-----------------|----------|-----|
| | System Int | formation | | | |
| System Status Upon Arrival: | Operational | Non-Op | perational | X Restan | 4 |
| System Status Upon Departu Electric Meter Reading: | re: Operational W6781 | Non-Op | perational [| v Lub | ait |
| Hour Meter Reading: | 1466.1 | _ | to | VLUD | |
| Totalizer Reading Prior to Air Stripper: | 593919 | PID Calibration Date: - | 10-10 | 7 | |
| Totalizer Reading After Air Stripper: | 608310 | - | | | |

| | | Martin Corporation Commission Statement of the control of the cont | Field Meas | urements | | o de desta de Contra com interpretado en esta de esta de como de desta de como como contra de como contra de c |
|-----------------|-------------|--|------------------------------|-------------------------------------|---|--|
| Para | meter | Influent (after blower, 2111DPEAINF) | Air Stripper (2111ASAEFF) | System Influent (2111ASYSINF) | Stack Air Flow (2111AEFF) | Comments |
| Differential Pr | essure, "wc | | 25 | | | |
| Air Velocity, F | PM | 41171 | 2505 | | | |
| Pipe Diamete | r, inches | 3 | 4 | 4 | 3 | |
| Air Flow Rate | , cfm | | | 190 | | |
| Applied Vacuι | ım, "wc | 20"46 | , Z8 | NA | NA | |
| Temperature, | deg F | 162 | 132 | 112 | | |
| PID Readings | , ppmv | 584 | 33 | 920 | K | PID for GAC-1: |
| | | | | | | |
| | | Oth | er Readings/I | Measurements | | XXII AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA |
| Well ID | % Open | Applied Vac., "Hg | Total depth, feet bgs | Stinger Depth, feet bgs | | |
| V-1 | 40 | 1.6 | | | an ann an Airean (Meannaint de Airean an Airean | |
| V-2 | 50 | 14 | | | | |
| V-3 | 50 | 15 | | | | |
| MW-1 | 100 | 14 | | | | |
| MW-3 | 100 | 15 | | | | |
| MW-7 | 100 | 15 | | | | |
| mus | 100 | 112 | 2 | | | |

| Signature: | Em IfM | Date: 10-(-0 7 |
|------------|--------|----------------|
|------------|--------|----------------|

1156 Davis Street

San Leandro, California Dual Phase Extraction and Air Stripper System



| | | Sampling Inform | ation (monthly) | | |
|------------------------|----------------|-----------------|-----------------|-------|--------|
| Sample ID | Da | te & Time | Sample ID | Date | & Time |
| 02111DPEAINF | 10107 | 0692 | 02111AGAC1 | 10107 | 12645 |
| 02111ASAEFF | | 0650 | 02111AEFF | | dello |
| 02111ASYSINF | | 0643 | | | - 6 |
| Analyses Required: GRC | D, BTEX, and M | TBE | 1 | | |

| Operation & Maintenance Notes |
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| Lab Parameters | Sampling Frequency | Sample Location | Analytical Method |
|----------------|--------------------|--|-------------------|
| GRO | Monthly | 02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF | EPA Method 8015 |
| ВТЕХ | Monthly | 02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF | EPA Method 8260B |
| мтве | Monthly | 02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF | EPA Method 8260B |
| | \cap | | |

Signature:

Date: 10-1005

1156 Davis Street

San Leandro, California Dual Phase Extraction and Air Stripper Syst

| , | |
|-----|-------------------|
| | American American |
| tem | |

| Date: | 10-11-0 | 7 | | Technician: | | CHILL | |
|---|--|--|---------------------------------------|----------------------------|--|--------------|--|
| Onsite Time: 0815 | | - - | Weather Cond | itions: | Chic | | |
| Offsite Time: | | | - | Ambient Temperature: | | 50 | |
| Equipment M | lanufacturer/Mo | odel# | | | | | |
| | | | | | | | · |
| CONTRACTOR OF THE PARTY OF THE | | | System In | formation | | | |
| System Statu | ıs Upon Arrival | : | Operational | | Non-Operat | ional 🔀 | |
| System Statu | ıs Upon Depart | ure: | Operational | | Non-Operat | ional 💹 | |
| Electric Mete | r Reading: | | · · · · · · · · · · · · · · · · · · · | Co | Meet E | ional K | Sup E |
| Hour Meter R | Reading: | 146 | 7 | · | | | |
| Totalizer Rea Air Stripper: | iding Prior to | 5949 | 01 | PID Calibration – | Date: | | - |
| Totalizer Rea Stripper: | ding After Air | 6093 | 30 | - | | | |
| | | | Field Meas | urements | | | |
| Para | ımeter | Influent (after blower, 2111DPEAINF) | Air Stripper (2111ASAEFF) | System | Stack Air Flow (2111AEFF) | Comn | nents |
| Differential Pr | ressure, "wc | | | | | | |
| Air Velocity, F | PM | | | | | | |
| Pipe Diamete | r, inches | | | | | | |
| Air Flow Rate | , cfm | | | | | | |
| Applied Vacu | um, "wc | | | NA | NA | | |
| Temperature, | deg F | | | | · · · · · · · · · · · · · · · · · · · | | |
| PID Readings | s, ppmv | | | | | PID for GAC- | 1: |
| | | | | | | | |
| \$20.05 pt 100 pt | | Th | | Measurements | | | West of the Print Manager Control of the Control of |
| Well ID | % Open | Applied Vac., "Hg | Total depth, feet bgs | Stinger Depth, feet bgs | MATERIA STATE OF THE STATE OF T | | |
| V-1 | | | | | | | |
| V-2 | | | | | | | |
| V-3 | The second secon | | | | · · · · · · · · · · · · · · · · · · · | | |
| MW-1 | | | | | | | |
| 3 41 A / O | <u> </u> | | | | | | |
| MW-3 | | 1 | | 1 | | | |
| MW-7 | ļ | / | | | | | |

1156 Davis Street San Leandro, California



Dual Phase Extraction and Air Stripper System

| Sample ID | Date & Time | Sample ID | Date & Time | | |
|--------------|-------------|------------|-------------|--|--|
| 02111DPEAINF | | 02111AGAC1 | | | |
|)2111ASAEFF | | 02111AEFF | 101107 0830 | | |
| 02111ASYSINF | | | | | |

| Operation & Maintenance Notes |
|-------------------------------|
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| Sungle EFF Carbon Ain |
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| |

| 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 |
| The second secon | | | |
| 1 | | | |

Signature:

Date: 10/107

1156 Davis Street

| | | Gre | | andro, Califor r Treatment | | Ampaer | ₽ M vo |
|----------------------------------|------------------|---------------|--|--------------------------------------|--|--|----------|
| Date: Onsite Time: Offsite Time: | 10 1107 | , | - - - | Techniciar Weather C Ambient T | | CHIC Cher 50 | |
| System Status | Upon Arrival: | | Operation | nal 🗶 | Non-operation | onal | |
| System Status | At Departure: | | Operation | nal 文 | Non-operation | onal | |
| Transfer Pump |): | | Operation | nal 🔼 | Non-operation | onal | |
| Transfer Pump | Hour Meter Re | eading: | 11,000 | | 1 | ater Charact y Field Instrui | |
| Effluent Flow T | Totalizer Readin | ıg: | | - | pH: | y r rora motrar | 1101111) |
| No. of Carbon | Vessels: | | Z | | Temperature | : | |
| Lead Carbon V (psi): | essel Pressure/ | | | | The control of the co | dat september and sension of consecutive sensions are sensions. | |
| Well ID | Hour Meter | Reading | Totalize | er Reading | Total Depth | Pump Depth | |
| MW-2 | | | | 2 | | | |
| | | | | | | | |
| | | | | | | | |
| Samr | ole ID | Sam Date 8 | pling Info | | ıple ID | Date & Ti | me |
| 02111DPEWIN | | | | 02111MW2 | | Date a 11 | |
| 02111ASWINF | | | | 02311111142 | | | |
| 02111ASWEFF | | | | | | | <u> </u> |
| 02111WGAC1 | | | | | | | |
| 02111WEFF | | | | | | | |
| Lab Para | ameters | Sampling F | requency | Sample | Location | Analytical Me | ethod |
| GRO, BTEX | (& 5-0x/s | Mont | 1 | INF& EFF | | EPA Method 8260B | |
| ONO, DIEA | 1, a 0-0Aya | IVIOLIT | a 11 y | IIVITO | X CFF | | |
| Notes: | | | etterikasi da kilometerikasi eterokasi eterokasi eterokasi eterokasi eterokasi eterokasi eterokasi eterokasi e | | | PROPERTY CONTRACTOR OF THE PROPERTY OF THE PRO | |
| Signature: | Oh M | A The second | ndi muunga makka Const Sidad Voorse planta kang | Date: | 10110 | | |

Page 1 of 1

1156 Davis Street



San Leandro, California Dual Phase Extraction and Air Stripper System

| Date: 10 23 07 Onsite Time: 0500 Offsite Time: 06/5 Equipment Manufacturer/Model# | | - | Technician: Weather Conditions: Ambient Temperature: | | MN Morgan Clear 50'S | | |
|--|-----------------|--|--|-------------------------------|--|----------------|--|
| | | | System Inf | ormation | 7476. T. 1516. C. 15 | | |
| System Status | s Upon Arrival: | | Operational | Non-Operational | | | |
| System Status | s Upon Departi | ure: | Operational | Ŕ | Non-Operat | ional | |
| Electric Meter | Reading: | 34,81 | 0 | BANKANINAS S | | Permissional | |
| Hour Meter R | eading: | 1467. | 8 | - | | | |
| Totalizer Read Air Stripper: | ding Prior to | 5940 | 101 | PID Calibration - | Date: | | |
| Totalizer Read Stripper: | ding After Air | 6093 | 34 | | | | |
| | | | Field Meas | urements | | | |
| Para | meter | Influent (after blower, 2111DPEÄINF) | Air Stripper (2111ASAEFF) | System Influent (2111ASYSINF) | Stack Air Flow (2111AEFF) | Comments | |
| Differential Pr | essure, "wc | | | | | | |
| Air Velocity, F | | | | | | | |
| Pipe Diameter | , inches | | | 4 | | | |
| Air Flow Rate, | cfm | | | 270 | | | |
| Applied Vacuu | ım, "wc | | | NA | NA | | |
| Temperature, | deg F | | | 88 | | | |
| PID Readings | , ppmv | | | | | PID for GAC-1: | |
| | | | | | | | |
| , | | Oth Applied Vac., | | Measurements Stinger Depth, | | | |
| Well ID | % Open | "Hg | Total depth, feet bgs | feet bgs | | | |
| V-1 | | | | | | | |
| ₂ V-2 | | | | | | | |
| V-3 | | | | | | | |
| MVV-1 | | | | | | | |
| MW-3 | | | | | | | |
| MW-7 | 7 | | | | | | |
| | L // // | | | | (6.1 | | |

1156 Davis Street San Leandro, California



Dual Phase Extraction and Air Stripper System

| | Sampling Info | ormation (monthly) | |
|----------------------------|----------------|--------------------|--|
| Sample ID | Date & Time | Sample ID | Date & Time |
| 02111DPEAINF | | 02111AGAC1 | |
| 02111ASAEFF | I K / / | 02111AEFF | |
| 02111ASYSINF | | | |
| | | | |
| Analyses Required: GRO, BT | EX, and MTBE | | |
| | | | |
| | Q=200ian Q I | | danish katilan kalangan managan panggapan panggapan panggapan panggapan panggapan panggapan panggapan panggapa |
| | Operation & IV | Maintenance Notes | |
| | | | |
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| | | | |
| | | PH-1 | |
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| | | | |
| | | | |

| 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 |
| | | | |
| 10 | | | |

Signature:

Date: 10/23/07

1156 Davis Street

San Leandro, California Groundwater Treatment System

| Date: Onsite Time: Offsite Time: System Status System Status Transfer Pump | At Departure: | ading: | Operationa Operationa Operationa Operationa | al | onditions: emperature Non-operatio Non-operatio Non-operatio | onal | prietice |
|--|-----------------|----------|---|-----------|--|---------------|----------|
| · | otalizer Readin | | (Quarterly by Field Instrument) pH: | | | | |
| No. of Carbon | Vessels: | | | - | Temperature | : | |
| Lead Carbon V (psi): | essel Pressure | | | | | | |
| Well ID | Hour Meter I | Reading | Totalize | r Reading | Total Depth | Pump Depth | |
| MW-2 | | | | | | | |
| 0 | | | pling Infor | , | 1.10 | T 5 . 6 =: | |
| | ple ID | Date 8 | & Time | | nple ID | Date & Ti | me |
| 02111DPEWIN 02111ASWINF | | | | 02111MW2 | ZVVINF | | |
| 02111ASWEF | | | | | | | |
| 02111WGAC1 | | | | | | | |
| 02111WEFF | | | | | | | |
| Lab Par | rameters | Sampling | Frequency | Sample | Location | Analytical Me | ethod |
| GRO, BTE | X, & 5-Oxys | Monthly | | INF& EFF | | EPA Method 8 | 3260B |
| Notes: | | | | | | | |
| Signature: | W. | | Pag | Date: | D | | |

1156 Davis Street

San Leandro, California Dual Phase Extraction and Air Stripper System



| Onsite Time: 0700 Offsite Time: 0805 Equipment Manufacturer/Mo | | Technician: Weather Conditions: Ambient Temperature: | CHILL Clouds 50 |
|--|-----------------|--|-----------------------|
| | System I | nformation | |
| System Status Upon Arrival: | Operationa | Non-Op | erational X Tunk |
| System Status Upon Departu | ure: Operationa | Non-Op | erational |
| Electric Meter Reading: | 45836 | | |
| Hour Meter Reading: | 1468 | | |
| Totalizer Reading Prior to Air Stripper: | 594997 | PID Calibration Date: | 19-29-07 |
| Totalizer Reading After Air Stripper: | 609350 | | |
| | Field Mea | surements | |

| | | | Field Meas | urements | | |
|-----------------|--------------|--|------------------------------|-------------------------------------|---------------------------------|------------------|
| Para | ameter | Influent (after blower, 2111DPEAINF) | Air Stripper (2111ASAEFF) | System Influent (2111ASYSINF) | Stack Air Flow (2111AEFF) | Comments |
| Differential P | ressure, "wc | | 25 | | | |
| Air Velocity, i | =PM | | 2520 | , | | · |
| Pipe Diamete | er, inches | 3 | 4 | Ц | 3 | |
| Air Flow Rate | e, cfm | | | 200 | | |
| Applied Vacu | um, "wc | 201/46 | - 28 | NA | NA | |
| Temperature | , deg F | 84 | 110 | | | |
| PID Readings | s, ppmv | 262 | 4 | 40 | 82 | PID for GAC-1: 🛠 |
| | | Oth | er Readings/ľ | Measurements | : | |
| Well ID | % Open | Applied Vac., "Hg | Total depth, feet bgs | Stinger Depth, feet bgs | | |
| V-1 | 25 | 18 | | | | |
| V-2 | 25 | 18 | | | | |
| V-3 | 15 | <i>78</i> | | | | |
| MW-1 | 100 | 18 | | | | |
| MW-3 | 100 | 20 | | | | |
| MW-7 | 100- | 718 | | | | |
| MW8 | 50/ | 110/ | | | | |

1156 Davis Street

San Leandro, California Dual Phase Extraction and Air Stripper System



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

| | Operation 8 | Maintenance Notes | |
|-------|-------------|-------------------|---------------------------------------|
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| Lab Parameters | Sampling Frequency | Sample Location | Analytical Method |
|----------------|--------------------|--|-------------------|
| GRO | Monthly | 02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF | EPA Method 8015 |
| ВТЕХ | Monthly | 02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF | EPA Method 8260B |
| MTBE | Monthly | 02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF | EPA Method 8260B |
| | | | |

Signature:

Date: 103007

1156 Davis Street San Leandro, California

San Leandro, California Groundwater Treatment System



| Date: Onsite Time: Offsite Time: | 10 300) 0710 0815 | | - - | | n: Conditions: - emperature | CHILL Clouds 50 | |
|--|-----------------------------|-------------|--|-----------|--------------------------------------|-----------------------|----------|
| System Status System Status Transfer Pump Transfer Pump | At Departure: Hour Meter Re | adility. | Operational Operat | al | (Quarterly by | nal | eristics |
| No. of Carbon Very (psi): | /essels: | z Z 8 | | - | pH: Temperature | : | |
| Well ID | Hour Meter F | Reading | | r Reading | Total Depth | Pump Depth | |
| MW-2 | | | 364 | 6 | | | |
| Samp | ole ID | | pling Infor & Time | T | mple ID | Date & Ti | me |
| 02111DPEWIN 02111ASWINF 02111ASWEFF 02111WGAC1 02111WEFF | F | | | 02111MW | | | |
| | | | | | | | |
| Lab Para | ameters | Sampling | Frequency | Samp | le Location | Analytical Mo | ethod |
| GRO, BTEX | (, & 5-Oxys | Mor | nthly | IN | F& EFF | EPA Method 8 | 3260B |
| Notes: Signature: | Oh W | | | Date | :10300. | 9 | |

Page 1 of 1

Atlantic Richfield Company

Cuetodu Ceale In Place: Vec Min 11

A BP affiliated company



RUSH

Page f of ____

| Chain o | f Custody | Record |
|---------|-----------|--------|
|---------|-----------|--------|

Temp Blank: Yes / No) |

Project Name: ARCO Facility No. 2111

BP BU/AR Region/Enfos Segment: State or Lead Regulatory Agency: BP > Americas > West > Retail > Alameda
California Regional Water Quality Control Board

Requested Due Date (mm/dd/yy):

24 hours for Effluent

| In-site Time: 0500 | Temp: 55 |
|------------------------|------------|
| Off-site Time: | Temp: |
| ky Conditions: | |
| Neteorological Events: | |
| Vind Speed: | Direction: |

MS/MSD Sample Submitted: Yes / No

Trip Blank: Yes / No

| | | | | | | | | | | | | Œ C | | 7 000 | 010 | | | | | | | | | | | |
|-------------|------------------------------------|-----------|--------------------------------------|------------|--------------|---------|--------------------------------|-------------------|-------------|--------------------------------|---|-----|----------|-------|-----------------|---------------------------------------|--------------|-------|----------|----------|-----|-------|-----|---------------------------------------|-----------|------|
| Lab N | Vame: TestAmerica | | | | | | BP/AR Facility N | | 2111 | | | | | | | | | Cons | | | | | | Stratus Environmenta | | |
| Addre | ess: 885 Jarvis Drive | | | | | | BP/AR Facility A | ddre | ss: 1156 l | Davis St | ., San | Lea | idro | | | | | Addr | ess: | | | | | on Park Drive, Suite | : 550 | |
| Morg | an Hill, CA 95937 | | | | | | Site Lat/Long: | | | | | | | | | | | ļ | | | | | | k, CA 95682 | | |
| Lab P | M: Lisa Race | | California Global ib 110 10000201101 | | | | | | | | Consultant/Contractor Project No.: E2111-03 | | | | | | | | | | | | | | | |
| Tele/I | Fax: 408-782-8156/408-782-6308 | } | | | | | Cittos i toject ivo Guezo uuzo | | | | | | | | l - | Consultant/Contractor PM: Jay Johnson | | | | | | | | | | |
| BP/A | R PM Contact: Paul Supple | | 1 TOVISION OF COC (Circle one) | | | | | | | Tele/ | | | | | | 00 / (530) 676-600 | | | | | | | | | | |
| Addre | css: 2010 Crow Canyon Place, Suite | e 150 | | | | | Phase/WBS: | | 03-O&N | 1 | | | | | | | | Repo | | | | | | Level 1 w | ith EDF | |
| | San Ramon, CA | | | | | | Sub Phase/Task: | | 03-Anal | | | | | | ~~~~ | | | | | | | | | @stratusinc.net | | |
| Tele/I | Fax: 925-275-3506/925-275-3815 | <u> </u> | | | | | Cost Element: | | Subcont | | | | | | | | | Invoi | | | | | | Co. | | |
| Lab l | Bottle Order No: | | | | Ma | trix | | | | Pres | erval | ive | | R | equ | ested | Anal | ysis | Tı | rnai | oun | d Tin | ne | | | |
| Item No. | Sample Description | Time | Date | Soil/Solid | Water/Liquid | Air | Laboratory No. | No. of Containers | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCI | Methanol | | GKU by 8015 | BIEX by 8260 MTRF by 8760 | 020 (0 7711) | | 24-hours | Standard | | | | Sample Point L Comm | | and |
| 1 | 02111DPEAINF | 0652 | 10,29 | | | х | | 2 | | | | 2 | | | x . | x > | c | | | х | | | | | | |
| 2 | 02111ASAEFF | 0650 | | | | х | | Z | | | | をなる | | | х | x x | ζ. | | | х | | | | | | |
| 3 | 02111ASYSINF | 043 | | | | х | | 2 | | | | 6 | | | х | x x | | - | | х | | | | | | |
| 4 | 02111AGAC1 | 0647 | | | | х | | 2 | | | | 1 | | _ _ | x | x × | | | | х | | | | | | |
| 5 | 02111AEFF | 040 | | | | х | | Z | | | | / | | _ | x i | x x | | | х | | | | | | | |
| 6 | | | | | | | | | | | | | | | \perp | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Samp | oler's Name: Chvi3 Hill | <i>/</i> | <u> </u> | <u> </u> | <u></u> | | | ning | dighed By | / Affjlia | tion | • | | | Date | ;] [· | Time | | | | | | | (filiation | Date | |
| Samp | oler's Company: Stratus Environi | | Inc. | | | | KI | 1 | | Str | | 7 | | | 00 | 7/ | 130 | D | W | T | J. | | [A] | $\Delta \Pi$ | 10/01/0 | 1113 |
| | ment Date: 10-1.07 | | | | | | | | | | | _ | | | | | | | | | | -,- | | • | | |
| | ment Method: Hole | - | | | | | | | | | | | | | | | | | | | | | | | | |
| Shipr | nent Tracking No: | es españo | | W. | | | | | | | | | | | | | | | | | | | | | <u>IL</u> | _! |
| Speci | al Instructions: | | Diagga | 20 50 | 20116 | a to be | adf@broadbantin | 2 C | 0100 | | | | | | | | | - | - | | | | | | | |

Cooler Temp on Receipt: -

| Atlar Ric Com | ntic | |
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| Ric | hfiel | d |
| Com | pan | У |

A BP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 2111

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

BP > Americas > West > Retail > Alameda California Regional Water Quality Control Board

Requested Due Date (mm/dd/yy):

24 hours for Effluent

Trin Blank Yes / No

°F/C

& STD for others

Page of

| 6 | 4. |
|------------------------|------------|
| On-site Time 0500 | Temp: 55 |
| Off-site Time: | Temp: |
| Sky Conditions: | |
| Meteorological Events: | |
| Wind Speed: | Direction: |

Stratus Environmental, Inc.

MS/MSD Sample Submitted: Yes / No

| Lab 1 | Name: TestAmerica | | | | | | BP/AR Facility N | o.: | 2111 | | | | | | | | | Consu | ltant/ | | | | | Stratus Environmenta | | |
|-------------|---|----------|----------|------------|--------------|-------|---|-------------------|-------------|--|--|--------------|----------|------|---|---------------------------------------|-------|-------|----------|---------------|---------------------|---------|----------|-------------------------|----------|----------|
| Addr | ess: 885 Jarvis Drive | .,, | | | | | BP/AR Facility A | ddre | ss: 1156] | Davis S | St., Sa | ı Lea | ndro | | | | | Addre | ss: | | 333(|) Ca | mer | on Park Drive, Suit | ÷ 550 | |
| Morg | rgan Hill, CA 95937 | | | | | | Site Lat/Long: | | | | | | | | | | (| Cam | eroi | ı Pa | rk, CA 95682 | | | | | |
| Lab I | PM: Lisa Race | | | | | | Carried Court 2 1 cm | | | | | | | | Consultant/Contractor Project No.: E2111-03 | | | | | | | | | | | |
| Tele/ | Fax: 408-782-8156/408-782-63 | 08 | | | | | Enfos Project No.: G0C28-0023 | | | | | | | | | Consultant/Contractor PM: Jay Johnson | | | | | | | | | | |
| BP/A | R PM Contact: Paul Supple | | | | | | Provision or OOC (circle one) Provision | | | | | | | | Γele/F | ax: | (| (530 |) 67 | 6-60 | 000 / (530) 676-600 | 5 | | | | |
| Addr | ldress: 2010 Crow Canyon Place, Suite 150 | | | | | | Phase/WBS: 03-O&M | | | | | | | | Report | | | | | | Level 1 w | ith EDF | | | | |
| | San Ramon, CA | | | | | | Sub Phase/Task: | | 03-Anal | ytical | | | | | | | | | | | | | | @stratusinc.net | | |
| Tele/ | Fax: 925-275-3506/925-275-38 | 15 | | | | | Cost Element: | | Subconti | actor (| Cost | | | | | | | nvoic | | | | | | 1 Co. | | |
| Lab | Bottle Order No: | | | | Mat | rix | | | | Pre | serva | ive | , | R | eque | sted A | nalys | is | Tur | nar | ound | I Tir | ne | | | |
| Item No. | Sample Description | Time | Date | Soil/Solid | Water/Liquid | Air | Laboratory No. | No. of Containers | Unpreserved | H₂SO₄ | HNO, | HCI | Methanol | 1100 | GKO by 8015 RTFX by 8260 | | | | 24-hours | Standard | | , | | Sample Point L Comm | | and |
| | 02111DPENINF | 0614 | 12/2 | | х | | | 3 | | | | X | | | x x | x | | | | x | | | | 5-oxygenates reque | | |
| 2 | 02111ASWINF | 0110 | 1 | | x | | | 3 | | | | V | | | x x | x | | | | x | | | | MTBE, DIPE, ETE TBA. | E, TAN | ிப், and |
| | 02111ASWEFF | | — | | х | | | 3 | | | | 文 | | - - | x x | X | | | \dashv | \mathbf{x} | | | | I DA. | | |
| | | 0/012 | | | x | | 1 | 3 | | | | V | | | x x | x | | | - | $\frac{1}{x}$ | \dashv | | \neg | | | : |
| - | 02111WGAC1 | ovou | , / | | | | | 3 | ļ | | - | U | | | x x | | | | x | + | | | | | | |
| | 02111WEFF . | 2000 | 1 7 | | х | | | | | | - | \ | | - | | - | | | | + | | | \dashv | | | |
| 6 | 02111MW2WINF | 0616 | | | X | | | 3 | | | | <u> </u> | | _ | X X | X X | | - | | Х | | | | | | |
| 7 | | | | | | | | | | | | | | _ _ | | _ | | | _ _ | | _ | | | | | |
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| 9 | | _][] | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | 7 | | | | | | | | | | | | | | | | | | |
| Samp | oler's Name: Chris 1 | 111 | | | | | L /B | aja q | njested By | / Ymjy | ition | | | | Date | Ti | | | | A | ccept | led B | y / A | ffiliation | Date | |
| | oler's Company: Stratus Environ | nmental, | lnc. | | | | MI | re | | 9 Tu | 10 | _ | | [[| 5010 | 112 | 70 | VC | Uit | <u> N</u> |) , | V | M_Z | Ш | 10/10/11 | 07 112 |
| | nent Date: 10 10 7 | | | | | | / - | | | | | | | _ _ | | <u> </u> | | | | | | ! | | | ļ | 1 |
| | nent Method: Strutus | | | | | | | | | ······································ | | | | _ _ | | | - | | | | | | | | | - |
| | ment Tracking No: | | N1 | | 1. | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | <u> </u> | | | | | | | | | <u>L</u> | إال |
| peci | al Instructions: | | Please (| ce re | 211112 | to bn | edf@broadbentin | ic C'e | om | | | | | | | | | | | | | | | | | 1. |

Cooler Temp on Receipt:



17 October, 2007

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

RE: ARCO #2111, San Leandro, CA Work Order: MQJ0005

Enclosed are the results of analyses for samples received by the laboratory on 10/01/07 11:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race

Senior Project Manager

CA ELAP Certificate # 1210

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





Stratus Environmental Inc. [Arco] Project: ARCO #2111, San Leandro, CA MQJ0005
3330 Cameron Park Dr., Suite 550 Project Number: G0C28-0023 Reported:
Cameron Park CA, 95682 Project Manager: Jay Johnson 10/17/07 15:23

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|--------------|---------------|--------|----------------|----------------|
| 02111DPEAINF | MQJ0005-01 | Vapor | 10/01/07 06:52 | 10/01/07 11:30 |
| 02111ASAEFF | MQJ0005-02 | Vapor | 10/01/07 06:50 | 10/01/07 11:30 |
| 02111ASYSINF | MQJ0005-03 | Vapor | 10/01/07 06:43 | 10/01/07 11:30 |
| 02111AGAC1 | MQJ0005-04 | Vapor | 10/01/07 06:45 | 10/01/07 11:30 |
| 02111AEFF | MQJ0005-05 | Vapor | 10/01/07 06:40 | 10/01/07 11:30 |

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





Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682 Project: ARCO #2111, San Leandro, CA Project Number: G0C28-0023 MQJ0005 Reported: 10/17/07 15:23

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B TestAmerica - Morgan Hill, CA

Project Manager: Jay Johnson

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|-----------------|--------------------|--------------|-----------|---------|----------|-------------------|-----------|-------|
| 02111DPEAINF (MQJ0005-01) Vapor | Sampled: 10/01 | 1/07 06:52 | Received: | | | | | | |
| Methyl tert-butyl ether | 18 | 0.50 | mg/m³ Air | 1 | 7J02006 | 10/02/07 | 10/02/07 14:44 | EPA 8260B | |
| Benzene | 2.3 | 2.3 0.50 " " " | | n | " | 0 | ** | | |
| Toluene | ND | 0.50 | u | п | " | Ħ | #1 | | |
| Ethylbenzene | 5.3 | 0.50 | II | # | " | H. | # | m . | |
| Xylenes (total) | 11 | 0.50 | Ħ | 11 | 11 | 11 | lt . | п | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | 60-1. | 25 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 103 % | 60-1. | 35 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 88 % | 75-12 | 20 | " | " | " | n | |
| Surrogate: Toluene-d8 | | 102 % | 80-12 | 20 | " | " | " | " | |
| Benzene | 0.72 | 0.16 | ppmv | ** | ** | ** | *11 | n | |
| Ethylbenzene | 1.2 | 0.12 | " | 11 | 11 | п | u | Tf. | |
| Methyl tert-butyl ether | 5.1 | 0.14 | er e | 11 | 11 | 43 | 11 | # | |
| Toluene | ND | 0.13 | " | 11 | 41 | 11 | II | " | |
| Xylenes (total) | 2.5 | 0.12 | II . | 11 | " | " | 11 | n | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | 60-12 | 25 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 103 % | 60-1. | 35 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 88 % | 75-12 | 20 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 102 % | 80-12 | 20 | " | " | " | " | |
| 02111ASAEFF (MQJ0005-02) Vapor | Sampled: 10/01/ | 07 06:50 1 | Received: 10 | 0/01/07 1 | 1:30 | | | | |
| Methyl tert-butyl ether | 2.6 | 0.50 | mg/m³ Air | 1 | 7J02006 | 10/02/07 | 10/02/07 15:15 | EPA 8260B | |
| Benzene | ND | 0.50 | ıı | 11 | II | " | 11 | н | |
| Toluene | ND | 0.50 | u | н | H | 11 | " | 11 | |
| Ethylbenzene | ND | 0.50 | 11 | н | " | 11 | " | н | |
| Xylenes (total) | ND | 0.50 | II . | " | l) | " | 11 | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 60-12 | 25 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 93 % | 60-13 | 35 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 97 % | 75-12 | 20 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 96 % | 80-12 | 20 | " | " | " | " | |
| Benzene | ND | 0.16 | ppmv | 10 | ** | n | н | н | |
| Ethylbenzene | ND | 0.12 | | # | " | 11 | II . | 11 | |
| Methyl tert-butyl ether | 0.72 | 0.14 | II | " | n | 11 | 11 | ** | |
| Toluene | ND | 0.13 | 11 | H | H | # | 11 | n | |
| Xylenes (total) | ND | 0.12 | | | 11 | " | | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 60-12 | ?5 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 93 % | 60-13 | 35 | " | " | " | " | |

TestAmerica - Morgan Hill, CA

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



MQJ0005

Reported:

10/17/07 15:23



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

Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units I | Dilution | Batch | Prepared | Analyzed | Method | Note |
|----------------------------------|------------------|--------------------|----------------|----------|---------|----------|-------------------|-----------|------|
| 02111ASAEFF (MQJ0005-02) Vapor | Sampled: 10/01/ | 07 06:50 | Received: 10/0 | 01/07 1 | 1:30 | | | | |
| Surrogate: Dibromofluoromethane | | 97 % | 5 75-120 | | 7J02006 | 10/02/07 | 10/02/07 15:15 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 96 % | 80-120 | | " | " | 13:13 | n . | |
| 02111ASYSINF (MQJ0005-03) Vapor | Sampled: 10/01 | /07 06:43 | Received: 10 | 01/07 | 11:30 | | | | |
| Methyl tert-butyl ether | 14 | 0.50 | mg/m³ Air | 1 | 7J02006 | 10/02/07 | 10/02/07 15:46 | EPA 8260B | |
| Benzene | 1.2 | 0.50 | ** | H | n | 11 | Ħ | D | |
| Toluene | ND | 0.50 | • | II. | 11 | 11 | II | 11 | |
| Ethylbenzene | 2.6 | 0.50 | n | 11 | 11 | H | 11 | ti ff | |
| Xylenes (total) | 5.2 | 0.50 | " | ii . | | | н | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 108 % | 60-125 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 98 % | 60-135 | | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 91 % | 75-120 | | " | " | " | n | |
| Surrogate: Toluene-d8 | | 99 % | 80-120 | | " | " | " | n . | |
| Benzene | 0.38 | 0.16 | ppmv | 11 | 11 | 11 | 0 | ii . | |
| Ethylbenzene | 0.59 | 0.12 | n . | 11 | #1 | н | ** | " | |
| Methyl tert-butyl ether | 3.9 | 0.14 | H | " | ** | " | " | n | |
| Toluene | ND | 0.13 | n | н | n | Ħ | n | II | |
| Xylenes (total) | 1.2 | 0.12 | 11 | 11 | | | | 11 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 108 % | 60-125 | | n | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 98 % | 60-135 | | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 91 % | 75-120 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 99 % | 80-120 | | " | " | " | 11 | |
| 02111AGAC1 (MQJ0005-04) Vapor | Sampled: 10/01/0 | 7 06:45 R | eceived: 10/01 | /07 11 | :30 | | | | |
| Methyl tert-butyl ether | ND | 0.50 | mg/m³ Air | 1 | 7J02006 | 10/02/07 | 10/02/07 16:17 | EPA 8260B | |
| Benzene | ND | 0.50 | П | H | n | " | 11 | 11 | |
| Toluene | ND | 0.50 | 11 | II . | II . | II . | 11 | " | |
| Ethylbenzene | ND | 0.50 | " | 11 | 11 | ** | " | " | |
| Xylenes (total) | ND | 0.50 | | #1 | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 106 % | 60-125 | | " | " | " | n . | |
| Surrogate: 4-Bromofluorobenzene | | 86 % | 60-135 | | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 96 % | 75-120 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 94 % | 80-120 | | " | <i>"</i> | " | " | |
| Benzene | ND | 0.16 | ppmv | II . | II. | -0 | n | n | |
| Ethylbenzene | ND | 0.12 | H | 11 | n | 11 | n | II. | |
| Methyl tert-butyl ether | ND | 0.14 | 11 | # | 11 | " | н | II | |

TestAmerica - Morgan Hill, CA

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





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

Project: ARCO #2111, San Leandro, CA

MQJ0005 Reported: 10/17/07 15:23

Project Number: G0C28-0023
Project Manager: Jay Johnson

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|-------------------|--------------------|-------------|-----------|-----------------|----------|-------------------|-----------|-------|
| 02111AGAC1 (MQJ0005-04) Vapor | Sampled: 10/01/0 | 7 06:45 R | eceived: 10 | /01/07 11 | :30 | | | | |
| Toluene | ND | 0.13 | ppmv | 1 | 7 J02006 | 10/02/07 | 10/02/07 16:17 | EPA 8260B | |
| Xylenes (total) | ND | 0.12 | ** | IF. | " | 11 | 11 | н | |
| Surrogate: 1,2-Dichloroethane-d4 | | 106 % | 60-1. | 25 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 86 % | 60-1. | 35 | n | " | " | " | |
| Surrogate: Dibromofluoromethane | | 96 % | 75-1. | 20 | " | " | n . | " | |
| Surrogate: Toluene-d8 | | 94 % | 80-1. | 20 | n | " | " | n | |
| 02111AEFF (MQJ0005-05) Vapor | Sampled: 10/01/07 | 06:40 Rec | eived: 10/0 | 1/07 11:3 | 0 | | | | |
| Methyl tert-butyl ether | 2.2 | 0.50 | mg/m³ Air | 1 | 7J02006 | 10/02/07 | 10/02/07 12:39 | EPA 8260B | |
| Benzene | ND | 0.50 | Ħ | н | н | H | 41 | п | |
| Toluene | ND | 0.50 | " | H | " | 31 | " | ** | |
| Ethylbenzene | ND | 0.50 | U | " | tt | 11 | U | Ħ | |
| Xylenes (total) | ND | 0.50 | It | " | fl | !! | 11 | U | |
| Surrogate: 1,2-Dichloroethane-d4 | | 106 % | 60-12 | 25 | " | " | " | п | |
| Surrogate: 4-Bromofluorobenzene | | 91 % | 60-1. | 35 | " | " | " | n | |
| Surrogate: Dibromofluoromethane | | 96 % | 75-12 | 20 | " | " | " | u | |
| Surrogate: Toluene-d8 | | 94 % | 80-12 | 20 | " | " | " | н | |
| Benzene | ND | 0.16 | ppmv | ** | " | 17 | 11 | н | |
| Ethylbenzene | ND | 0.12 | n | " | n | ** | 11 | n | |
| Methyl tert-butyl ether | 0.61 | 0.14 | n | n . | 41 | " | II | u | |
| Toluene | ND | 0.13 | # | 11 | 11 | 11 | H | H | |
| Xylenes (total) | ND | 0.12 | # | - 0 | " | 11 | " | 11 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 106 % | 60-12 | 25 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 91 % | 60-13 | 35 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 96 % | 75-12 | 20 | " | " | " | ıı . | |
| Surrogate: Toluene-d8 | | 94 % | 80-12 | 20 | " | " | " | " | |





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

Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQJ0005 Reported: 10/17/07 15:23

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

| Analyte | Result | Reporting Limit | | Dilution | Batch | Prepared | Analyzed | Method | Note |
|----------------------------------|------------------|---------------------|-------------|-----------|---------|----------|-------------------|---------------|------|
| 02111DPEAINF (MQJ0005-01) Vapor | Sampled: 10/0 | 1/07 06:52 | Received: | 10/01/07 | 11:30 | | | | |
| Gasoline Range Organics (C4-C12) | 2200 | 200 | mg/m³ Air | 20 | 7J02003 | 10/02/07 | 10/02/07 12:03 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 97 % | 70-1 | 25 | " | rt . | " | " | |
| Gasoline Range Organics (C4-C12) | 630 | 49 | ppmv | 20 | 11 | 11 | 11 | Ш | |
| Surrogate: 4-Bromofluorobenzene | | 97 % 70-125 " " " " | | " | | | | | |
| 02111ASAEFF (MQJ0005-02) Vapor | Sampled: 10/01 | /07 06:50 | Received: 1 | 0/01/07 1 | 1:30 | | | | |
| Gasoline Range Organics (C4-C12) | ND | 10 | mg/m³ Air | 1 | 7J02003 | 10/02/07 | 10/02/07 12:40 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 90 % | 70-1 | 25 | " | " | " | " | |
| Gasoline Range Organics (C4-C12) | ND | 2.4 | ppmv | n | " | " | н | 11 | |
| Surrogate: 4-Bromofluorobenzene | | 90 % | 70-1 | 25 | n | " | " | n . | |
| 02111ASYSINF (MQJ0005-03) Vapor | Sampled: 10/0 | 1/07 06:43 | Received: | 10/01/07 | 11:30 | | | | |
| Gasoline Range Organics (C4-C12) | 1300 | 100 | mg/m³ Air | 10 | 7J02003 | 10/02/07 | 10/02/07 13:09 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 100 % | 70-1. | 25 | " | " | " | n | |
| Gasoline Range Organics (C4-C12) | 380 | 24 | ppmv | 10 | H | 11 | 11 | II | |
| Surrogate: 4-Bromofluorobenzene | | 100 % | 70-1. | 25 | " | " | " | " | |
| 02111AGAC1 (MQJ0005-04) Vapor S | Sampled: 10/01/0 | 7 06:45 R | eceived: 10 | /01/07 11 | :30 | | | | |
| Gasoline Range Organics (C4-C12) | ND | 10 | mg/m³ Air | 1 | 7J02003 | 10/02/07 | 10/02/07 13:45 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 93 % | 70-1. | 25 | и | " | " | " | |
| Gasoline Range Organics (C4-C12) | ND | 2.4 | ppmv | 11 | 11 | 11 | H | " | |
| Surrogate: 4-Bromofluorobenzene | | 93 % | 70-1. | 25 | " | 11 | " | " | |
| 02111AEFF (MQJ0005-05) Vapor Sai | mpled: 10/01/07 | 06:40 Rec | eived: 10/0 | 1/07 11:3 | 0 | | | | |
| Gasoline Range Organics (C4-C12) | ND | 10 | mg/m³ Air | 1 | 7J02003 | 10/02/07 | 10/02/07 11:33 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 94 % | 70-12 | 25 | " | " | " | " | |
| Gasoline Range Organics (C4-C12) | ND | 2.4 | ppmv | H | " | " | " | н | |
| Surrogate: 4-Bromofluorobenzene | | 94 % | 70-12 | 25 | n | " | " | " | |





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

Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQJ0005 Reported: 10/17/07 15:23

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B - Quality Control TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|-------------------------------|-----------|----------------|------------------|------------|----------------|-----|--------------|-------|
| Batch 7J02006 - EPA 5030В Р/Г / EPA | 8260B | | | | | | | | | |
| Blank (7J02006-BLK1) | | Prepared & Analyzed: 10/02/07 | | | | | | | | |
| Methyl tert-butyl ether | ND | 0.50 | mg/m³ Air | | | | | | | |
| Benzene | ND | 0.16 | ppmv | | | | | | | |
| Benzene | ND | 0.50 | mg/m³ Air | | | | | | | |
| Toluene | ND | 0.50 | n | | | | | | | |
| Ethylbenzene | ND | 0.50 | 0 | | | | | | | |
| Xylenes (total) | ND | 0.50 | ii | | | | | | | |
| Ethylbenzene | ND | 0.12 | ppmv | | | | | | | |
| Methyl tert-butyl ether | ND | 0.14 | 11 | | | | | | | |
| Toluene | ND | 0.13 | • | | | | | | | |
| Xylenes (total) | ND | 0.12 | n | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.65 | | mg/m³ Air | 2.50 | | 106 | 60-125 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.629 | | ppmv | 0.594 | | 106 | 60-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.36 | | mg/m³ Air | 2.50 | | 94 | 60-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.330 | | ppmv | 0.349 | | 94 | 60-135 | | | |
| Surrogate: Dibromofluoromethane | 0.307 | | " | 0.318 | | 96 | 75-120 | | | |
| Surrogate: Dibromofluoromethane | 2.41 | | mg/m³ Air | 2.50 | | 96 | 75-120 | | | |
| Surrogate: Toluene-d8 | 2.38 | | " | 2.50 | | 95 | 80-120 | | | |
| Surrogate: Toluene-d8 | 0.633 | | ppmv | 0.665 | | 95 | 80-120 | | | |
| Laboratory Control Sample (7J02006-BS1) | | | | Prepared & | & Analyze | d: 10/02/0 |)7 | | | |
| Methyl tert-butyl ether | 10.6 | 0.50 | mg/m³ Air | 10.0 | | 106 | 50-140 | | | |
| Benzene | 3.53 | 0.16 | ppmv | 3.14 | | 113 | 75-120 | | | |
| Benzene | 11.3 | 0.50 | mg/m³ Air | 10.0 | | 113 | 75-120 | | | |
| Toluene | 11.0 | 0.50 | n | 10.0 | | 110 | 75-120 | | | |
| Ethylbenzene | 11.4 | 0.50 | " | 10.0 | | 114 | 75-120 | | | |
| Xylenes (total) | 33.2 | 0.50 | # | 30.0 | | 111 | 75-130 | | | |
| Ethylbenzene | 2.64 | 0.12 | ppmv | 2.31 | | 114 | 75-120 | | | |
| Methyl tert-butyl ether | 2.94 | 0.14 | 11 | 2.78 | | 106 | 50-140 | | | |
| Toluene | 2.93 | 0.13 | # | 2.66 | | 110 | 75-120 | | | |
| Xylenes (total) | 7.66 | 0.12 | " | 6.92 | | 111 | 75-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.51 | | mg/m³ Air | 2.50 | | 100 | 60-125 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.596 | | ppmv | 0.594 | | 100 | 60-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.39 | | mg/m³ Air | 2.50 | | 96 | 60-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.334 | | ppmv | 0.349 | | 96 | 60-135 | | | |
| Surrogate: Dibromofluoromethane | 2.39 | | mg/m³ Air | 2.50 | | 96 | 75-120 | | | |
| Surrogate: Dibromofluoromethane | 0.304 | | ppmv | 0.318 | | 96 | 75-120 | | | |

TestAmerica - Morgan Hill, CA

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





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQJ0005 Reported: 10/17/07 15:23

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B - Quality Control TestAmerica - Morgan Hill, CA

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

| Laboratory Control Sample (7J02006 | -BS1) | Prepared & Analyzed: 10/02/07 | | | | | | | | |
|------------------------------------|------------|-------------------------------|-----------|----------------|----------------|--------|----|----|---|--|
| Surrogate: Toluene-d8 | 2.36 | | mg/m³ Air | 2.50 | 94 | 80-120 | | | | |
| Surrogate: Toluene-d8 | 0.627 | | ppmv | 0.665 | 94 | 80-120 | | | | |
| Laboratory Control Sample Dup (7J0 | 2006-BSD1) | | | Prepared & Ans | alyzed: 10/02. | /07 | | | | |
| Methyl tert-butyl ether | 9.86 | 0.50 | mg/m³ Air | 10.0 | 99 | 50-140 | 7 | 25 | | |
| Benzene | 3.18 | 0.16 | ppmv | 3.14 | 102 | 75-120 | 10 | 20 | | |
| Benzene | 10.2 | 0.50 | mg/m³ Air | 10.0 | 102 | 75-120 | 10 | 20 | | |
| Toluene | 9.93 | 0.50 | 11 | 10.0 | 99 | 75-120 | 10 | 25 | | |
| Ethylbenzene | 10.4 | 0.50 | ** | 10.0 | 104 | 75-120 | 10 | 20 | | |
| Xylenes (total) | 30.3 | 0.50 | " | 30.0 | 101 | 75-130 | 9 | 20 | | |
| Ethylbenzene | 2.39 | 0.12 | ppmv | 2.31 | 104 | 75-120 | 10 | 20 | | |
| Methyl tert-butyl ether | 2.74 | 0.14 | ** | 2.78 | 99 | 50-140 | 7 | 25 | | |
| Toluene | 2.64 | 0.13 | n. | 2.66 | 99 | 75-120 | 10 | 25 | | |
| Xylenes (total) | 7.00 | 0.12 | H . | 6.92 | 101 | 75-130 | 9 | 20 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.50 | | mg/m³ Air | 2.50 | 100 | 60-125 | | | _ | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.594 | | ppmv | 0.594 | 100 | 60-125 | | | | |
| Surrogate: 4-Bromofluorobenzene | 2.38 | | mg/m³ Air | 2.50 | 95 | 60-135 | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.333 | | ppmv | 0.349 | 95 | 60-135 | | | | |
| Surrogate: Dibromofluoromethane | 2.54 | | mg/m³ Air | 2.50 | 102 | 75-120 | | | | |
| Surrogate: Dibromofluoromethane | 0.324 | | ppmv | 0.318 | 102 | 75-120 | | | | |
| Surrogate: Toluene-d8 | 2.39 | | mg/m³ Air | 2.50 | 96 | 80-120 | | | | |
| Surrogate: Toluene-d8 | 0.635 | | ppmv | 0.665 | 96 | 80-120 | | | | |





Project: ARCO #2111, San Leandro, CA

Spike

Source

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQJ0005 Reported: 10/17/07 15:23

RPD

%REC

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

Reporting

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|--------------------------------------|--------------|--|-----------|------------|-----------|------------|--------|-----|-------|-------|
| Batch 7J02003 - EPA 5030B [P/T] / | EPA 8015B-VC |)A | ····· | | | | | | | |
| Blank (7J02003-BLK1) | | | | Prepared a | & Analyze | d: 10/02/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | mg/m³ Air | | | | , | | | |
| Gasoline Range Organics (C4-C12) | ND | 12 | ppmv | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 5.14 | | " | 5.59 | | 92 | 70-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 36.8 | | mg/m³ Air | 40.0 | | 92 | 70-125 | | | |
| Laboratory Control Sample (7J02003-B | S1) | | | Prepared 6 | & Analyze | d: 10/02/0 | 07 | | | |
| Gasoline Range Organics (C4-C12) | 64.5 | 12 | ppmv | 78.0 | | 83 | 70-115 | | | |
| Gasoline Range Organics (C4-C12) | 227 | 50 | mg/m³ Air | 275 | | 83 | 70-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 37.9 | | " | 40.0 | | 95 | 70-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 5.29 | | ppmv | 5.59 | | 95 | 70-125 | | | |
| Laboratory Control Sample Dup (7J020 | 03-BSD1) | | | Prepared & | & Analyze | d: 10/02/0 |)7 | | | |
| Gasoline Range Organics (C4-C12) | 238 | 50 | mg/m³ Air | 275 | | 87 | 70-115 | 5 | 20 | |
| Gasoline Range Organics (C4-C12) | 67.5 | 12 | ppmv | 78.0 | | 87 | 70-115 | 5 | 20 | |
| Surrogate: 4-Bromofluorobenzene | 38.0 | ······································ | mg/m³ Air | 40.0 | | 95 | 70-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 5.31 | | ppmv | 5.59 | | 95 | 70-125 | | | |



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

Stratus Environmental Inc. [Arco]
Project: ARCO #2111, San Leandro, CA
MQJ0005
3330 Cameron Park Dr., Suite 550
Project Number: G0C28-0023
Cameron Park CA, 95682
Project Manager: Jay Johnson
10/17/07 15:23

Notes and Definitions

DET Analyte DETECTED

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

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

| Pageof | |
|--------|--|
| | |

| Atla | ınti | C |
|------|------|-----|
| Ric | chfi | eld |
| Cor | npa | any |

A BP affiliated company

Chain of Custody Record

RUSH Project Name: ARCO Facility No. 2111

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

BP > Americas > West > Retail > Alameda California Regional Water Quality Control Board

Requested Due Date (mm/dd/yy):

24 hours for Effluent & STD for others

| On-site Time: <i>0500</i> | Temp: 55 |
|---------------------------|------------|
| Off-site Time: | Temp: |
| Sky Conditions: | |
| Metcorological Events: | |
| Wind Speed: | Direction: |

| Lab | Name: TestAmerica | | | | | | BP/AR Facility N | 0.: | 2111 | | | | | | | | Con | sulta | nt/Coi | itract | or: | | Stratus Environment | al, Inc. | | | | |
|-------------|-----------------------------------|--|---------|------------|--------------|------------------|---------------------------|-------------------|-------------|--|------------------|----------|-------------|-------------|--------------|-----------------|----------|--------------------------|-------------|--------|--------|-------------|------------------------|------------------|----------|--|--|--|
| Addı | ess: 885 Jarvís Drive | | | , | | | BP/AR Facility A | ddre | ss: 1156 I | Davis S | t., Sa | n Lea | ndro | | | | Ado | lress: | | 333 | 0 Ca | mer | on Park Drive, Suit | Orive, Suite 550 | | | | |
| Mor | an Hill, CA 95937 | | | | | | Site Lat/Long: | | | | | | | | | | | | | Can | ieroi | n Par | rk, CA 95682 | | | | | |
| Lab ! | PM: Lisa Race | | | | | | California Global | ID ì | Vo.: | T0600 | 1017 | 64 | | | | | Con | sulta | nt/Cot | ntract | tor Pi | roject | t No.: E2111-03 | 3 | | | | |
| Tele/ | Fax: 408-782-8156/ 408-782-6308 | 3 | | | | | Enfos Project No. | : | G0C28- | 0023 | | | | | | | Con | sulta | nt/Coi | ntraci | tor Pl | М: | Jay Johnson | | | | | |
| BP/A | R PM Contact: Paul Supple | | | | | | Provision or OOC | ci (ci | rcle one) | | Pro | visio | n | | | | Tele | /Fax: | | (530 |)) 67 | /6-60 | 6000 / (530) 676-6005 | | | | | |
| A.ddr | ess: 2010 Crow Canyon Place, Suit | c 150 | | | | | Phase/WBS: | | 03-O&N | 1 | | | | | | | Rep | ort Ty | уре & | QC | Leve | 1: | · Level 1 v | vith EDF | | | | |
| | San Ramon, CA | | | | | | Sub Phase/Task: | | 03-Anal | ytical | | | | | | | E-m | ail El | DD T | o: | sha | yes(| @stratusinc.net | | | | | |
| | Fax: 925-275-3506/925-275-3815 | 5 | | | | | Cost Element: | | Subcont | ractor C | ost | | | | ****** | | Invo | oice to | : Atl | antic | Ricl | ifield | i Co. | | | | | |
| Lab | Bottle Order No: | ~~ | | | Ma | trix | | | | Pres | serva | tive | | Re | ques | ted An | lysis | Ţ | urnai | roun | d Tir | ne | | | | | | |
| Item No. | Sample Description | Time | Date | Soil/Solid | Water/Liquid | Air | MRJOVO5 Laboratory No. | No. of Containers | Unpreserved | H ₂ SO, | HNO ₃ | HCI | Methanol | GRO by 8015 | BTEX by 8260 | MTBE by 8260 | | 24-hours | Standard | | | | Sample Point I Comm | | and | | | |
| 1 | 02111DPEAINF | 0652 | 10,30 | | | x | 10 | 2 | | | T | 2 | ПТ | x | х | х | T | T | х | | | | | | | | | |
| 2 | 02111ASAEFF | 0650 | | | | х | 02 | - | | | 1 | 1 | | × | х | х | | | х | | | | | <u> </u> | | | | |
| 3 | 02111ASYSINF | 0143 | 1, | | | х | 03 | <u>ス</u> ス | | | | 6 | | x | x | х | | | х | | | | | <u> </u> | | | | |
| 4 | 02111AGAC1 | 0645 | 1 | | | х | 04 | <u>ス</u> フ | | | | 1 | | х | х | х | | | х | | | | | | | | | |
| 5 | 02111AEFF | DIMO | | | | х | 05 | Z | , | | | / | | х | х | х | | х | | | | | | | | | | |
| 6 | | .:" | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | <u> </u> | | | | | | | | | | |
| 9 | 18 AST 4 | | | | | | · | | ļ | | 1 | <u> </u> | | ╝ | | | | - | | | _ | | | | | | | |
| 10 | | | | | l | | velet . | | | | <u> </u> | <u> </u> | | _IL_ | | | | | | | | | | | | | | |
| | oler's Name: Chris Hill | | | | | | | ning | zighed By | | | | | D | | Time | | | | | | | ffiliation | Date | Time | | | |
| | ler's Company: Stratus Environi | mental, I | Inc. | | | ار | The state of | 4 | | TPV | Ye | 7 | | 101 | 07 | 1170 | 1 | $\overline{\mathcal{M}}$ | 171 | 1. | | DI | WIT | 10/01/0 | 113 | | | |
| | nent Date: 10-1,07 | | · . | | | | | ٠ | | | | 4 | | | | ~~~~ | 1 | | | | · | | | | - | | | |
| | nent Method: 9/4/4 | | | 3.5 | | | es : 1; | | - | | | | | - | _ | | ╂ | | | ···· | ··· | | | - | | | | |
| - | al Instructions: | | W10- | | | | lledf@broadbentin | c.C | om | (3. 3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | | | | | | | <u> </u> | | | | ****** | | | <u> </u> | <u> </u> | | | |
| | | ······································ | . 10000 | | | <u>, со ор</u> . | | <u>~.~</u> | V 4 4 8 | | | | | ********* | | | | | | | | | | | | | | |
| | ystody Seals In Place: Yes / | (A)0) I | Torr | n D | lanie | · Vool | Kin L Cool | - T | ann an I | Pagaint | ٠. | 97 | R/C | | | 111 | V /: | ₹ | | 3.40 | /8.40 | in c | ample Submitted: \ | Zoo / No | | | | |

TEST AMERICA SAMPLE RECEIPT LOG

| CLIENT NAME: | ARCO | | DATE REC'D AT LAB: | 10/01/ | 107 | | | For Regula | tory Purposes? |
|---------------------------|--|----------------|--------------------|-------------|---------------------|---|--------|---------------------|------------------|
| REC. BY (PRINT) | JULE N. | | TIME REC'D AT LAB: | 1/= | 30 | - | | | WATER YES / NO |
| WORKORDER: | M0370001 | | DATE LOGGED IN: | 10/01/ | 67 | • | | WASTE WA | / 16 |
| | | | | - | | • | | | 120/10 |
| CIRCLE THE APPR | OPRIATE RESPONSE | LAB | CLIENT ID | CONTAINER | PRESER | | SAMPLE | DATE | REMARKS: |
| | | SAMPLE# | CLIENTID | DESCRIPTION | | рH | MATRIX | SAMPLED | CONDITION (ETC.) |
| Custody Seal(s) | Present / Absent | | | | | | | | |
| | Intact / Broken* | | - | | | | | | |
| 2. Chain-of-Custody | Present / Absent* | | | | | | | | |
| Traffic Reports or | | | | | | | | | |
| Packing List: | Present / Absent | | | | | | | 1 | |
| 4. Airbill: | Airbill / Sticker | | | | | | | 10 | ./ |
| | Present / Absent) | | | <u> </u> | | | 1 | , | |
| 5. Airbill #: | - | | | | | | | $\frac{1}{\lambda}$ | |
| 6. Sample Labels: | Present / Absent | , | | | | | 10/ | | |
| 7. Sample IDs: | Listed / Not Listed | | | | | | \sim | \checkmark | |
| | on Chain-of-Custody | | | | | / | | / | |
| 8. Sample Condition: | Intact / Broken* / | | | | | L. | · / | | |
| | Leaking* | | | ,a- | 1,5 | , | 181 | | |
| 9. Does information or | | | | | | | 0 | | |
| traffic reports and s | | | | | | @ Q | , | | |
| agree? | Yes / No* | | | | | - 82 | | | |
| 10. Sample received with | nin | | | | | | | | |
| hold time? | Yes/ No* | | | | | | | | |
| 11. Adequate sample voi | | | | | | | | | |
| received? | (e͡s / No* | | | | | | | - | |
| 12. Proper preservatives | | | | | | | | | |
| 13. Trip Blank / Temp Bla | | . **3 | | | | | | | |
| (circle which, if yes) | Yes / No* | | | | | | | | |
| 14. Read Temp: | 137. | | | | | | | | |
| Correction Factor. | ~~~ | | | | | | | | |
| Corrected Temp: | | | / | | | | | | |
| Is corrected temp. 0-6 | S°C? Yes / No** | /- | | | | · | | | |
| **Exception (if any): ME | | / | | | | | | | |
| or Problem COC | | | | | | | | | |
| | nepertoni zavroni sveno po popularje (prest si havan | | | Establica | 7510 Page 2010 2010 | 320000000000000000000000000000000000000 | | | |

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

SAMPLERECEIPTLOG Revision 8 (09/26/07)

Page _____ of ____





19 October, 2007

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

RE: ARCO #2111, San Leandro, CA Work Order: MQJ0009

Enclosed are the results of analyses for samples received by the laboratory on 10/01/07 11:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race

Senior Project Manager

CA ELAP Certificate # 1210

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





Stratus Environmental Inc. [Arco]
Project: ARCO #2111, San Leandro, CA
MQJ0009
3330 Cameron Park Dr., Suite 550
Project Number: G0C28-0023
Cameron Park CA, 95682
Project Manager: Jay Johnson
10/19/07 16:11

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|--------------|---------------|--------|----------------|----------------|
| 02111DPEWINF | MQJ0009-01 | Water | 10/01/07 06:15 | 10/01/07 11:30 |
| 02111ASWINF | MQJ0009-02 | Water | 10/01/07 06:10 | 10/01/07 11:30 |
| 02111ASWEFF | MQJ0009-03 | Water | 10/01/07 06:12 | 10/01/07 11:30 |
| 02111WGAC1 | MQJ0009-04 | Water | 10/01/07 06:04 | 10/01/07 11:30 |
| 02111WEFF | MQJ0009-05 | Water | 10/01/07 06:00 | 10/01/07 11:30 |
| 02111MW2WINF | MQJ0009-06 | Water | 10/01/07 06:18 | 10/01/07 11:30 |

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





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQJ0009 Reported: 10/19/07 16:11

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|---------------|--------------------|-----------|-------------|-----------------|----------|----------|---------------|----------|
| 02111DPEWINF (MQJ0009-01) Water | Sampled: 10 | 0/01/07 06:15 | Receive | d: 10/01/07 | 11:30 | | | | |
| Gasoline Range Organics (C4-C12) | 1000 | 100 | ug/i | 2 | 7J02009 | 10/02/07 | 10/02/07 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 122 % | 75- | 125 | " | " | " | " | |
| 02111ASWINF (MQJ0009-02) Water | Sampled: 10/0 | 01/07 06:10 I | Received: | 10/01/07 1 | 1:30 | | | | |
| Gasoline Range Organics (C4-C12) | 500 | 100 | ug/l | 2 | 7 J02009 | 10/02/07 | 10/02/07 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 113 % | 75- | 125 | " | " | " | " | |
| 02111ASWEFF (MQJ0009-03) Water | Sampled: 10/ | 01/07 06:12 | Received: | 10/01/07 | 11:30 | | | | |
| Gasoline Range Organics (C4-C12) | 60 | 50 | ug/l | 1 | 7J02009 | 10/02/07 | 10/02/07 | EPA 8015B-VOA | PV |
| Surrogate: 4-Bromofluorobenzene | | 132 % | 75- | 125 | " | " | " | " | LH, AY |
| 02111WGAC1 (MQJ0009-04) Water S | Sampled: 10/0 | 1/07 06:04 R | eceived: | 10/01/07 1 | 1:30 | | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | ug/l | 1 | 7J02009 | 10/02/07 | 10/02/07 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 109 % | 75- | 125 | " | " | " | " | |
| 02111WEFF (MQJ0009-05RE1) Water | Sampled: 10 | 0/01/07 06:00 | Received | d: 10/01/07 | 11:30 | | | | PC |
| Gasoline Range Organics (C4-C12) | ND | 50 | ug/l | 1 | 7J02009 | 10/02/07 | 10/02/07 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 104 % | 75- | 125 | " | " | " | " | |
| 02111MW2WINF (MQJ0009-06) Water | Sampled: 1 | 0/01/07 06:18 | Receive | ed: 10/01/0 | 7 11:30 | | | | |
| Gasoline Range Organics (C4-C12) | 670 | 500 | ug/l | 10 | 7J02009 | 10/02/07 | 10/02/07 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 108 % | 75- | 125 | " | " | " | " | |





Project: ARCO #2111, San Leandro, CA

MQJ0009 Project Number: G0C28-0023 Reported: Project Manager: Jay Johnson 10/19/07 16:11

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|-----------------|--------------------|-----------|-------------|---------|----------|----------|-----------|-------|
| 02111DPEWINF (MQJ0009-01) Water | Sampled: 10/0 | 01/07 06:15 | Received | d: 10/01/07 | 11:30 | | | | |
| tert-Amyl methyl ether | ND | 5.0 | ug/l | 10 | 7J12002 | 10/11/07 | 10/12/07 | EPA 8260B | |
| Benzene | 30 | 5.0 | ** | н | u | 11 | Ħ | ** | |
| tert-Butyl alcohol | 1400 | 200 | " | " | " | " | t† | n . | |
| Di-isopropyl ether | ND | 5.0 | 11 | Ħ | 11 | " | #1 | H | |
| Ethyl tert-butyl ether | ND | 5.0 | " | 11 | " | II | " | Н | |
| Ethylbenzene | 9.1 | 5.0 | " | II | " | " | n | " | |
| Methyl tert-butyl ether | 790 | 5.0 | D | 11 | IF | u | 11 | TI . | |
| Toluene | ND | 5.0 | 11 | 11 | #1 | 11 | н | 11 | |
| Xylenes (total) | ND | 5.0 | | | " | | | | |
| Surrogate: Dibromofluoromethane | | 100 % | 75- | 120 | n | " | " | n . | |
| Surrogate: 1,2-Dichloroethane-d4 | | 103 % | 70- | 130 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 103 % | 80- | 120 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 87 % | 60- | 135 | " | " | " | n | |
| 02111ASWINF (MQJ0009-02) Water | Sampled: 10/01. | /07 06:10 I | Received: | 10/01/07 1 | 1:30 | | | | |
| tert-Amyl methyl ether | ND | 5.0 | ug/l | 10 | 7J12002 | 10/11/07 | 10/12/07 | EPA 8260B | |
| Benzene | 6.9 | 5.0 | n | " | H | 11 | H | H | |
| tert-Butyl alcohol | 940 | 200 | 31 | U | #1 | n | Ħ | fi . | |
| Di-isopropyl ether | ND | 5.0 | н | H H | 11 | H | ** | # | |
| Ethyl tert-butyl ether | ND | 5.0 | 11 | # | " | # | " | II | |
| Ethylbenzene | 9.1 | 5.0 | " | " | n | " | U | II. | |
| Methyl tert-butyl ether | 540 | 5.0 | " | " | n | " | II | II . | |
| Toluene | ND | 5.0 | 11 | 11 | 11 | 11 | н | II . | |
| Xylenes (total) | 20 | 5.0 | 11 | tt . | н | | " | ii . | |
| Surrogate: Dibromofluoromethane | | 101 % | 75- | 120 | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 104 % | 70 | 130 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 96 % | 80 | 120 | " | n | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 84 % | 60- | 135 | " | " | " | " | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023 Project Manager: Jay Johnson MQJ0009 Reported: 10/19/07 16:11

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
|----------------------------------|------------------|--------------------|--------------|-----------|---------|----------|----------|-----------|------|
| 02111ASWEFF (MQJ0009-03) Water | Sampled: 10/01 | /07 06:12 | Received: 1 | 0/01/07 | 11:30 | | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | 1 | 7J12002 | 10/11/07 | 10/12/07 | EPA 8260B | |
| Benzene | ND | 0.50 | Ħ | ** | n | 11 | II | II. | |
| tert-Butyl alcohol | 970 | 20 | " | " | Ш | #1 | " | II . | |
| Di-isopropyl ether | ND | 0.50 | 11 | " | # | н | 11 | Ħ | |
| Ethyl tert-butyl ether | ND | 0.50 | ** | н | " | 11 | 11 | п | |
| Ethylbenzene | ND | 0.50 | " | " | II | Ш | Ħ | н | |
| Methyl tert-butyl ether | 71 | 0.50 | 11 | n | n | н | 11 | II . | |
| Toluene | ND | 0.50 | 11 | D. | ** | " | " | H | |
| Xylenes (total) | ND | 0.50 | " | | | 11 | 1) | 11 | |
| Surrogate: Dibromofluoromethane | | 106 % | 75-12 | 20 | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 107 % | 70-13 | 30 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 98 % | 80-12 | 20 | " | " | n | # | |
| Surrogate: 4-Bromofluorobenzene | | 82 % | 60-13 | 35 | " | " | " | " | |
| 02111WGAC1 (MQJ0009-04) Water | Sampled: 10/01/0 | 07 06:04 R | Received: 10 | /01/07 11 | 1:30 | | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | 1 | 7J12002 | 10/11/07 | 10/12/07 | EPA 8260B | |
| Benzene | ND | 0.50 | n | " | 11 | н | n | H | |
| tert-Butyl alcohol | ND | 20 | Ħ | Ħ | # | н | Ħ | 11 | |
| Di-isopropyl ether | ND | 0.50 | " | Н | " | n | Ħ | 11 | |
| Ethyl tert-butyl ether | ND | 0.50 | H | 11 | It | 11 | ** | n . | |
| Ethylbenzene | ND | 0.50 | 11 | " | п | " | U | II. | |
| Methyl tert-butyl ether | ND | 0.50 | II . | ti. | ** | н | 11 | 11 | |
| Toluene | ND | 0.50 | Ħ | 11 | н | 11 | ŧI | 11 | |
| Xylenes (total) | ND | 0.50 | | # | 11 | 11 | # | H | |
| Surrogate: Dibromofluoromethane | | 100 % | 75-12 | 0 | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 106 % | 70-13 | 0 | " | " | п | rr . | |
| | | 92 % | 80-12 | 'n | " | " | ,, | " | |
| Surrogate: Toluene-d8 | | 92 /0 | 00-12 | () | | | | | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQJ0009 Reported: 10/19/07 16:11

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|-----------------|--------------------|------------|------------|---------|----------|----------|-----------|-------|
| 02111WEFF (MQJ0009-05) Water Sa | mpled: 10/01/07 | 06:00 Rec | eived: 10/ | 01/07 11:3 | 30 | | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | 1 | 7J02005 | 10/02/07 | 10/02/07 | EPA 8260B | |
| Benzene | ND | 0.50 | II . | 11 | 25 | H | H | н | |
| tert-Butyl alcohol | ND | 20 | Ħ | # | | н | 11 | н | |
| Di-isopropyl ether | ND | 0.50 | " | ** | n | " | н | и | |
| Ethyl tert-butyl ether | ND | 0.50 | " | 11 | 11 | n | " | " | |
| Ethylbenzene | ND | 0.50 | II . | 11 | H | п | II . | II | |
| Methyl tert-butyl ether | ND | 0.50 | H | # | " | H | 11 | 41 | |
| Toluene | ND | 0.50 | # | 11 | u | ** | H | # | |
| Xylenes (total) | ND | 0.50 | " | " | | ** | U | H | |
| Surrogate: Dibromofluoromethane | | 102 % | 75-1 | 20 | " | n | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 60-1 | 25 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 93 % | 80-1 | 20 | " | " | n . | " | |
| Surrogate: 4-Bromofluorobenzene | | 83 % | 60-1 | 35 | " | " | " | n | |
| 02111MW2WINF (MQJ0009-06) Water | Sampled: 10/0 | 01/07 06:18 | Received | d: 10/01/0 | 7 11:30 | | | | |
| tert-Amyl methyl ether | ND | 5.0 | ug/l | 10 | 7J12002 | 10/11/07 | 10/12/07 | EPA 8260B | |
| Benzene | 7.5 | 5.0 | n | 11 | u u | и | H | 0 | |
| tert-Butyl alcohol | 980 | 200 | н | " | " | " | " | н | |
| Di-isopropyl ether | ND | 5.0 | " | " | 17 | n | H | n n | |
| Ethyl tert-butyl ether | ND | 5.0 | " | 11 | 41 | tt . | 11 | ti . | |
| Ethylbenzene | 13 | 5.0 | Ħ | 41 | " | 11 | 11 | н | |
| Methyl tert-butyl ether | 580 | 5.0 | #1 | н | H | " | " | н | |
| Toluene | ND | 5.0 | " | 11 | H | " | H | II . | |
| Xylenes (total) | 29 | 5.0 | rt | 11 | #I | #1 | 1) | н | |
| Surrogate: Dibromofluoromethane | | 101 % | 75-1 | 20 | n | " | n . | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 108 % | 70-1 | 30 | " | " | " | n | |
| Surrogate: Toluene-d8 | | 96 % | 80-1 | 20 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 82 % | 60-1 | 35 | " | " | " | " | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023 Project Manager: Jay Johnson

MQJ0009 Reported: 10/19/07 16:11

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|-------------|--------------------|-------|----------------|------------------|------------|----------------|-----|--------------|-------|
| Batch 7J02009 - EPA 5030B [P/T] / | EPA 8015B-V | OA | | | | | | | | |
| Blank (7J02009-BLK1) | | | | Prepared | & Analyze | ed: 10/02/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | ug/l | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 43.7 | | " | 40.0 | | 109 | 75-125 | | | |
| Laboratory Control Sample (7J02009-B | S1) | | | Prepared | & Analyze | ed: 10/02/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 250 | 50 | ug/l | 275 | | 91 | 60-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 45.2 | | " | 40.0 | | 113 | 75-125 | | | |
| Matrix Spike (7J02009-MS1) | Source: Mo | QJ0009-04 | | Prepared | & Analyze | d: 10/02/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 215 | 50 | ug/l | 275 | ND | 78 | 60-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 44.3 | | " | 40.0 | | 111 | 75-125 | | | |
| Matrix Spike Dup (7J02009-MSD1) | Source: Mo | QJ0009-04 | | Prepared | & Analyze | d: 10/02/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 212 | 50 | ug/l | 275 | ND | 77 | 60-115 | 2 | 20 | |
| Surrogate: 4-Bromofluorobenzene | 44.6 | | " | 40.0 | | 112 | 75-125 | | | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

Spike

Source

MQJ0009 Reported: 10/19/07 16:11

RPD

%REC

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

Reporting

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|-------------------------------------|-----------|-------|-------|------------|-----------|------------|--------|-----|-------|-------|
| Batch 7J02005 - EPA 5030B P/T / | EPA 8260B | | | | | | | | | |
| Blank (7J02005-BLK1) | | | | Prepared | & Analyze | ed: 10/02/ | 07 | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | 11 | | | | | | | |
| tert-Butyl alcohol | ND | 20 | # | | | | | | | |
| Di-isopropyl ether | ND | 0.50 | " | | | | | | | |
| Ethyl tert-butyl ether | ND | 0.50 | и | | | | | | | |
| Ethylbenzene | ND | 0.50 | " | | | | | | | |
| Methyl tert-butyl ether | ND | 0.50 | H | | | | | | | |
| Toluene | ND | 0.50 | D | | | | | | | |
| Xylenes (total) | ND | 0.50 | Ħ | | | | | | | |
| Surrogate: Dibromofluoromethane | 2.48 | | " | 2.50 | | 99 | 75-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.70 | | " | 2.50 | | 108 | 60-125 | | | |
| Surrogate: Toluene-d8 | 2.37 | | " | 2.50 | | 95 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.10 | | " | 2.50 | | 84 | 60-135 | | | |
| Laboratory Control Sample (7J02005- | -BS1) | | | Prepared 6 | & Analyze | d: 10/02/0 |)7 | | | |
| tert-Amyl methyl ether | 10.3 | 0.50 | ug/l | 10.0 | | 103 | 65-135 | | | |
| Benzene | 9.68 | 0.50 | U | 10.0 | | 97 | 75-120 | | | |
| tert-Butyl alcohol | 184 | 20 | " | 200 | | 92 | 60-135 | | | |
| Di-isopropyl ether | 9.98 | 0.50 | " | 10.0 | | 100 | 70-130 | | | |
| Ethyl tert-butyl ether | 10.1 | 0.50 | II . | 10.0 | | 101 | 65-130 | | | |
| Ethylbenzene | 10.4 | 0.50 | " | 10.0 | | 104 | 75-120 | | | |
| Methyl tert-butyl ether | 10.4 | 0.50 | " | 10.0 | | 104 | 50-140 | | | |
| Toluene | 9.70 | 0.50 | H | 10.0 | | 97 | 75-120 | | | |
| Xylenes (total) | 31.8 | 0.50 | ** | 30.0 | | 106 | 75-130 | | | |
| Surrogate: Dibromofluoromethane | 2.51 | | " | 2.50 | | 100 | 75-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.55 | | " | 2.50 | | 102 | 60-125 | | | |
| Surrogate: Toluene-d8 | 2,52 | | " | 2.50 | | 101 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.48 | | " | 2.50 | | 99 | 60-135 | | | |
| | | | | | | | | | | |





Project: ARCO #2111, San Leandro, CA

Spike

Source

%REC

MQJ0009 Reported: 10/19/07 16:11

RPD

Project Number: G0C28-0023
Project Manager: Jay Johnson

Reporting

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

| Batch 7J02005 - EPA 5030B P/T / E Matrix Spike (7J02005-MS1) | Source: MQ | 10004-05 | | | | | | | | |
|---|------------|-----------|------|------------|-----------|------------|--------|---|----|--|
| Matrix Spike (7J02005-MS1) | | 10004-05 | | | | | | | | |
| | 10.2 | 200004-02 | | Prepared | & Analyze | | | | | |
| tert-Amyl methyl ether | 10.2 | 0.50 | ug/l | 10.0 | ND | 102 | 65-135 | | | |
| Benzene | 9.80 | 0.50 | II . | 10.0 | ND | 98 | 75-120 | | | |
| tert-Butyl alcohol | 186 | 20 | n | 200 | ND | 93 | 60-135 | | | |
| Di-isopropyl ether | 10.4 | 0.50 | ** | 10.0 | ND | 104 | 70-130 | | | |
| Ethyl tert-butyl ether | 10.3 | 0.50 | " | 10.0 | ND | 103 | 65-130 | | | |
| Ethylbenzene | 10.2 | 0.50 | 11 | 10.0 | ND | 102 | 75-120 | | | |
| Methyl tert-butyl ether | 10.2 | 0.50 | 11 | 10.0 | ND | 102 | 50-140 | | | |
| Toluene | 10.0 | 0.50 | # | 10.0 | 0.140 | 99 | 75-120 | | | |
| Xylenes (total) | 31.5 | 0.50 | n | 30.0 | 0.340 | 104 | 75-130 | | | |
| Surrogate: Dibromofluoromethane | 2.58 | | " | 2.50 | | 103 | 75-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.55 | | " | 2.50 | | 102 | 60-125 | | | |
| Surrogate: Toluene-d8 | 2.50 | | " | 2.50 | | 100 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.47 | | " | 2.50 | | 99 | 60-135 | | | |
| Matrix Spike Dup (7J02005-MSD1) | Source: MQ | J0004-05 | | Prepared o | & Analyze | d: 10/02/0 |)7 | | | |
| tert-Amyl methyl ether | 10.9 | 0.50 | ug/l | 10.0 | ND | 109 | 65-135 | 7 | 25 | |
| Benzene | 10.0 | 0.50 | II. | 10.0 | ND | 100 | 75-120 | 3 | 20 | |
| tert-Butyl alcohol | 191 | 20 | | 200 | ND | 96 | 60-135 | 3 | 25 | |
| Di-isopropyl ether | 10.8 | 0.50 | " | 10.0 | ND | 108 | 70-130 | 4 | 25 | |
| Ethyl tert-butyl ether | 10.8 | 0.50 | II | 10.0 | ND | 108 | 65-130 | 5 | 25 | |
| Ethylbenzene | 10.7 | 0.50 | 11 | 10.0 | ND | 107 | 75-120 | 4 | 20 | |
| Methyl tert-butyl ether | 11.1 | 0.50 | " | 10.0 | ND | 111 | 50-140 | 8 | 25 | |
| Toluene | 10.2 | 0.50 | 11 | 10.0 | 0.140 | 101 | 75-120 | 2 | 25 | |
| Xylenes (total) | 33.0 | 0.50 | 41 | 30.0 | 0.340 | 109 | 75-130 | 5 | 20 | |
| Surrogate: Dibromofluoromethane | 2.60 | | " | 2.50 | | 104 | 75-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.60 | | " | 2.50 | | 104 | 60-125 | | | |
| Surrogate: Toluene-d8 | 2.50 | | " | 2.50 | | 100 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.55 | | " | 2.50 | | 102 | 60-135 | | | |



RPD



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

Project: ARCO #2111, San Leandro, CA

MQJ0009 Project Number: G0C28-0023 Reported: Project Manager: Jay Johnson 10/19/07 16:11

%REC

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

Reporting

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|-------------------------------------|-----------|-------|-------|------------|-----------|---|--------|-----|-------|-------|
| Batch 7J12002 - EPA 5030B P/T / | EPA 8260B | | | | | *************************************** | | | | |
| Blank (7J12002-BLK1) | | | | Prepared | & Analyz | ed: 10/12/ | 07 | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | 49 | | | | | | | |
| tert-Butyl alcohol | ND | 20 | " | | | | | | | |
| Di-isopropyl ether | ND | 0.50 | н | | | | | | | |
| Ethyl tert-butyl ether | ND | 0.50 | " | | | | | | | |
| Ethylbenzene | ND | 0.50 | " | | | | | | | |
| Methyl tert-butyl ether | ND | 0.50 | n | | | | | | | |
| Toluene | ND | 0.50 | ** | | | | | | | |
| Xylenes (total) | ND | 0.50 | " | | | | | | | |
| Surrogate: Dibromofluoromethane | 2.50 | | " | 2.50 | | 100 | 75-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.51 | | " | 2.50 | | 100 | 70-130 | | | |
| Surrogate: Toluene-d8 | 2.39 | | " | 2.50 | | 96 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.04 | | " | 2.50 | | 82 | 60-135 | | | |
| Laboratory Control Sample (7J12002- | -BS1) | | | Prepared a | & Analyze | ed: 10/12/0 | 07 | | | |
| tert-Amyl methyl ether | 10.8 | 0.50 | ug/l | 10.0 | | 108 | 65-135 | | | |
| Benzene | 9.91 | 0.50 | II . | 10.0 | | 99 | 75-120 | | | |
| tert-Butyl alcohol | 187 | 20 | ** | 200 | | 93 | 60-135 | | | |
| Di-isopropyl ether | 10.1 | 0.50 | • | 10.0 | | 101 | 70-130 | | | |
| Ethyl tert-butyl ether | 10.3 | 0.50 | " | 10.0 | | 103 | 65-130 | | | |
| Ethylbenzene | 10.1 | 0.50 | If . | 10.0 | | 101 | 75-120 | | | |
| Methyl tert-butyl ether | 11.0 | 0.50 | #1 | 10.0 | | 110 | 50-140 | | | |
| Toluene | 10.4 | 0.50 | " | 10.0 | | 104 | 75-120 | | | |
| Xylenes (total) | 32.6 | 0.50 | n | 30.0 | | 108 | 75-130 | | | |
| Surrogate: Dibromofluoromethane | 2.70 | | " | 2.50 | | 108 | 75-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.59 | | " | 2.50 | | 104 | 70-130 | | | |
| Surrogate: Toluene-d8 | 2.58 | | " | 2.50 | | 103 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.53 | | " | 2.50 | | 101 | 60-135 | | | |
| | | | | | | | | | | |





Project: ARCO #2111, San Leandro, CA

MQJ0009 Reported: 10/19/07 16:11

RPD

%REC

Project Number: G0C28-0023
Project Manager: Jay Johnson

Reporting

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

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|-----------------------------------|------------|---|-------|----------|---|------------|--------|-----|-------|-------|
| Batch 7J12002 - EPA 5030B P/T / E | PA 8260B | | | | | | | | | |
| Matrix Spike (7J12002-MS1) | Source: MQ | QJ0009-03 | | Prepared | & Analyze | ed: 10/12/ | 07 | | | |
| tert-Amyl methyl ether | 12.2 | 0.50 | ug/l | 10.0 | 0.260 | 120 | 65-135 | | | |
| Benzene | 9.48 | 0.50 | ** | 10.0 | ND | 95 | 75-120 | | | |
| tert-Butyl alcohol | 1180 | 20 | n | 200 | 974 | 104 | 60-135 | | | |
| Di-isopropyl ether | 10.1 | 0.50 | и | 10.0 | ND | 101 | 70-130 | | | |
| Ethyl tert-butyl ether | 10.4 | 0.50 | n | 10.0 | ND | 104 | 65-130 | | | |
| Ethylbenzene | 9.08 | 0.50 | н | 10.0 | ND | 91 | 75-120 | | | |
| Methyl tert-butyl ether | 84.3 | 0.50 | " | 10.0 | 70.6 | 137 | 50-140 | | | |
| Toluene | 9.94 | 0.50 | u | 10.0 | ND | 99 | 75-120 | | | |
| Xylenes (total) | 28.0 | 0.50 | ** | 30.0 | 0.120 | 93 | 75-130 | | | |
| Surrogate: Dibromofluoromethane | 2.78 | | " | 2.50 | | 111 | 75-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.79 | | " | 2.50 | | 112 | 70-130 | | | |
| Surrogate: Toluene-d8 | 2.56 | | " | 2.50 | | 102 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.48 | | n | 2.50 | | 99 | 60-135 | | | |
| Matrix Spike Dup (7J12002-MSD1) | Source: MQ | J0009-03 | | Prepared | & Analyze | d: 10/12/0 |)7 | | | |
| tert-Amyl methyl ether | 11.5 | 0.50 | ug/l | 10.0 | 0.260 | 113 | 65-135 | 6 | 25 | |
| Benzene | 9.70 | 0.50 | " | 10.0 | ND | 97 | 75-120 | 2 | 20 | |
| ert-Butyl alcohol | 1170 | 20 | ŧŧ | 200 | 974 | 98 | 60-135 | 1 | 25 | |
| Di-isopropyl ether | 10.2 | 0.50 | ** | 10.0 | ND | 102 | 70-130 | 1 | 25 | |
| Ethyl tert-butyl ether | 10.6 | 0.50 | 11 | 10.0 | ND | 106 | 65-130 | 2 | 25 | |
| Ethylbenzene | 9.27 | 0.50 | 11 | 10.0 | ND | 93 | 75-120 | 2 | 20 | |
| Methyl tert-butyl ether | 82.0 | 0.50 | 11 | 10.0 | 70.6 | 114 | 50-140 | 3 | 25 | |
| Гоluene | 10.0 | 0.50 | 11 | 10.0 | ND | 100 | 75-120 | 1 | 25 | |
| Xylenes (total) | 29.0 | 0.50 | " | 30.0 | 0.120 | 96 | 75-130 | 3 | 20 | |
| Surrogate: Dibromofluoromethane | 2.74 | / · · · · · · · · · · · · · · · · · · · | " | 2.50 | * | 110 | 75-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.74 | | " | 2.50 | | 110 | 70-130 | | | |
| Surrogate: Toluene-d8 | 2.53 | | " | 2.50 | | 101 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.51 | | " | 2.50 | | 100 | 60-135 | | | |
| | | | | | | | | | | |



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

Stratus Environmental Inc. [Arco] Project: ARCO #2111, San Leandro, CA MQJ0009
3330 Cameron Park Dr., Suite 550 Project Number: G0C28-0023 Reported:
Cameron Park CA, 95682 Project Manager: Jay Johnson 10/19/07 16:11

Notes and Definitions

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

PC Sample taken from VOA vial with air bubble > 6mm diameter

LH,AY Surrogate recovery above the acceptance limits. Matrix interference suspected.

DET Analyte DETECTED

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

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

| | 1 | 1 |
|------|----|---|
| Page | of | ſ |

| Atlantic Richfield Company |
|----------------------------------|
| Richfield |
| Company |

A BP affiliated company

Chain of Custody Record

(RUSH)

Project Name:

ARCO Facility No. 2111

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda

State or Lead Regulatory Agency:

California Regional Water Quality Control Board

Requested Due Date (mm/dd/yy):

24 hours for Effluent & STD for others

| On-site Time 0500 | Temp: 55 |
|------------------------|------------|
| Off-site Time: | Temp: |
| Sky Conditions: | |
| Meteorological Events: | |
| Wind Speed: | Direction: |

| - | BP/AR Facility No.: 2111 | | | | | | | Consultant/Contractor: Stratus Environmental, Inc. | | | | | | | | | | | | | | | | | | |
|-------------|----------------------------------|-------------|----------|-----------------------------------|---|-------------|------------|--|------------------|---|---------------------|-------------|--------------|----------------------|-------------|---|---------------|----------|--------------|--------------|-----------------|--------|---|-----------------------|----------|--------------|
| | Iress: 885 Jarvis Drive | | | · | BP/AR Facility Address: 1156 Davis St., San Leandro | | | | | Address: 3330 Cameron Park Drive, Suite 550 | | | | | | | | | | | | | | | | |
| | gan Hill, CA 95937 | | | | Site Lat/Long: | | | | | | | | | | | Cameron Park, CA 95682 | | | | | | | | | | |
|])——— | PM: Lisa Race | | | | California Globa | | | T'0600 | 1017 | 64 | | | | | | Consultant/Contractor Project No.: E2111-03 | | | | | | | | | | |
| _ | /Fax: 408-782-8156/ 408-782-63 | 08 | | -4,4,5% | Enfos Project No | | G0C28 | -0023 | | | | | | | | Consultant/Contractor PM: Jay Johnson | | | | | | | | | | |
| | AR PM Contact: Paul Supple | | | | Provision or OO | C (c | ircle one) | | Pro | visio | n | | | | | Tele/ | Fax: | | (530) | 676- | -6000 | /(531 | 0) 676- | 6005 | | |
| Add | ress: 2010 Crow Canyon Place, Su | ite 150 | | · | Phase/WBS: | | 03-0&1 | 4 | | | | | | | | Repo | rt Ty | ре & | QCL | cvel: | | | Level | l with ED | F | |
| - · | San Ramon, CA | | | | Sub Phase/Task: | | 03-Anal | ytical | | | ******* | | | | | E-ma | il ED | D To | o: <u>S</u> | haye | es@s | tratu | sinc.ne | et | | |
| | /Fax: 925-275-3506/925-275-38 | 15 | | 1 | Cost Element: | | Subcont | ractor (| Cost | | | | | | | Invoi | ce to: | Atl | antic F | lichfi | eld Co | 1_ | | | | |
| Lao | Bottle Order No: | | 7 | Matrix | | | | Pres | ervat | ive | , , | Re | que | sted A | naly | sis | Tu | rnar | ound | Time | | | | | | |
| Item No. | Sample Description | Time | Date | Soil/Solid Water/Liquid Air | MQJCOOG Laboratory No. | 11 77 | 1 ž | H ₂ SO ₄ | HNO ₃ | нсі | Methanol | GRO by 8015 | BTEX by 8260 | 5-oxygenates by 8260 | | | 24-hours | Standard | | | | Sam | | nt Lat/Lon nnients | ıg and | 1 |
| 1 | 02111DPEMNF | 044 | 127 | х | 01 | | -2 1 | | Ħ | K | | x | _ | x | | | 4 | X X | | | | | | quested a | | == |
| 2 | 02111ASWINF | 0410 | | x | 02 | 3 | | | | X | | x | x | х | | | | х | | 1 | MI TB. | | ЭIPE, F | ETBE, TA | Mc. | and |
| 3 | 02111ASWEFF | 0012 | | х | 03 | | | | | X | | х | x | х | | | | х | | | | | | | | |
| 4 | 02111WGAC1 | 0604 | | x | 04 | 333 | | | | X | | х | x | x | | | \exists | х | | | | | | | | |
| 5 | 02111WEFF , | dodo | / | x | 05 | 3 | | | | X | | x | х | х | | | х | | | | 1 | | | | | |
| 6 | 02111MW2WINF | 0415 | | х | 06 | 3 | | | | ۶ | | x | х | х | | | | x | | | | | | | | |
| 7 | | | | | | 7 | | | | | | ╢ | T | | | | | \top | \top | \top | ╢ | | *************************************** | | | |
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| | | 111 | | <u></u> | 1 | eling | nissed By | / Affilja | tion | 1 | | D | ate | Tin | 10 | | | | center | Bv/ | Affilia | tion | | Date | | Time |
| | pler's Company: Stratus Enviror | nmental, l | Inc. | | The little | ri | | Hu | | | | <u></u> | 07 | | | T | I I Ĩ Ā | | _ | | Λ ΙΙ | | | 100 | <u> </u> | |
| | ment Date: 10 1,0 7 | | | | | | | | - | | | 1 | Ť | 112 | ┪ | ~ | <u> </u> | <u> </u> | · - | 7-71 | 111 | | | 173 | 4 | ~1 |
| | ment Method: Stautes | | | | | | | | | | | | | | \parallel | | | | | | | | | 1 | ╢ | \dashv |
| | ment Tracking No: | | | | | | | | | | | | | | | | | | | | ., | | | | ╫ | |
| peci | al Instructions: | | Please o | cc results to by | oedf@broadbentir | ıc.C | om | | | | | | | | | | | | | | | | | | | |
| | Custody Seals In Place: Yes | /No) ! | Tem | p Blank: Yes | /X6 \ Carl | - T | | · · · · | 77 | <u>α</u> | (F) | | | | | | | | | | | | | | | |
| 12.70 | | (10) | 1 (11) | p Diank. Tes | / (NO) 1 COOL | or 10 | emp on F | ceceipt | <u>Z`</u> | OT | (C) | <u> </u> | rip I | 3lank | :Ye | s/No |)) | | MS/M | ISD: | Samp. | le Sut | mitted | : Yes/No |) | |

TEST AMERICA SAMPLE RECEIPT LOG

| received? 12. Proper preservatives used? (es/ No* 13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No* 14. Read Temp: Correction Factor: Corrected Temp: Is corrected temp. 0-6°C? Yes / No** | | CLIENT NAME: REC. BY (PRINT) WORKORDER: | ARCO Tluie N | | DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN: | 10/01 | 07 | | | | latory Purposes? WATER YES NO |
|--|----------|---|---------------------|----------|---|-------|-----------------|-----|----------------|------------------|--------------------------------|
| 1. Custody Seal(s) Present / Ab@ht Intact / Broken* 2. Chain-of-Custody P(es)ht / Absent* 3. Traffic Reports or Packing List: Present / Ab@en* 4. Airbill: Airbill / Sticker Present / Abgent 5. Airbill #: 6. Sample Labels: Present / Absent 7. Sample IDs: Listed / Not Listed on Chain-of-Custody 8. Sample Condition: Infact) / Broken* / Leaking* 9. Does information on chain-of-custody, traffic reports and sample labels agree? (fes) / No* 10. Sample received within hold time? Yes/No* 11. Adequate sample volume received? Yes/No* 12. Proper preservatives used? Yes/No* 13. Trip Blank / Temp Blank Received? Yes/No* 14. Read Temp: 7. S. Corrected Te | | | OPRIATE RESPONSE | | CLIENT ID | | | рН | 1 | 1 | |
| 2. Chain-of-Custody P(esent / Absent* 3. Traffic Reports or Packing List Present / Absent 4. Airbill: Airbill / Sticker Present / Absent 5. Airbill # 6. Sample Labels: Present / Absent 7. Sample labels: Present / Absent 9. Does information on chain-of-Custody traffic reports and sample labels agree? (Fes / No* 10. Sample received within hold time? (Fes / No* 11. Adequate sample volume received? (Fes / No* 12. Proper preservatives used? (Fes / No* 13. Trip Blank / Temp Blank Received? (Fes / No* 14. Read Temp: The Corrected temp. O-6*C? Yes / No* 15. Socrected temp. O-6*C? Yes / No* 16. Secretated temp. O-6*C? Yes / No* 17. Secretate Temp. O-6*C? Yes / No* 18. Traffic Reports or Preservatives used? (Fes / No* 19. Trip Blank / Temp. O-6*C? Yes / No* | 1 | . Custody Seal(s) | Present / Absent | | | | | | MAIRIA | SAMPLED | CONDITION (ETC.) |
| 3. Traffic Reports or Packing List: Present / Absent 4. Airbill: Airbill / Sticker Present / Absent 5. Airbill #. 6. Sample Labels: Present / Absent 7. Sample IDs: Listed on Chain-of-Custody 8. Sample Condition: In(ac) / Broken* / Leaking* 9. Does information on chain-of-custody, traffic reports and sample labels agree? (Fes / No* 10. Sample received within hold time? (Fes / No* 11. Adequate sample volume received? (Fes / No* 12. Proper preservatives used? (Fes / No* 13. Trip Blank / Temp Blank Received? (Fes / No* 14. Read Temp: 7, 8 Corrected Temp: 7, 8 Corrected Temp: 7, 8 Corrected Temp: 7, 8 Is corrected temp. 0-6°C? Yes / No* **Exception (if any): METALS / (PFPON ICE) | | | Intact / Broken* | | | | | | | | |
| Packing List: Present / Absent 4. Airbill: Airbill / Sticker Present / Absent 5. Airbill #: 6. Sample Labels: Present / Absent 7. Sample IDs: Listed on Chain-of-Custody 8. Sample Condition: Infac/ Broken* / Leaking* 9. Does information on chain-of-custody, traffic reports and sample labels agree? (Fea / No* 10. Sample received within hold time? Yes/ No* 11. Adequate sample volume received? (es/ No* 12. Proper preservatives used? (es/ No* 14. Read Temp: 7. 8 C Correction Factor: — O C Corrected Temp: 7. 8 C Corrected temp. 0-6°C? Yes / No* **Exception (if any): METALS / /DFF/ON ICE **Exception (if any): METALS / /DFF/ON ICE | 2. | . Chain-of-Custody | Present / Absent* | | *************************************** | | | | | | 1 |
| 4. Airbill: Airbill / Sticker Present / Absent 5. Airbill #: 6. Sample Labels: Présent / Absent 7. Sample IDs: Listed / Not Listed on Chain-of-Custody 8. Sample Condition: Infact / Broken* / Leaking* 9. Does information on chain-of-custody, traffic reports and sample labels agree? (reg / No* 10. Sample received within hold time? (res) / No* 11. Adequate sample volume received? 12. Proper preservatives used? (reg / No* 13. Trip Blank / Temp Blank Received? (reide which, if yes) Yes / No* 14. Read Temp: 7. 8. Corrected Temp: Jo Cor | 3. | . Traffic Reports or | | | | | | | | | |
| Present / Absent 5. Airbill #: 6. Sample Labels: Present / Absent 7. Sample IDs: Listed / Not Listed on Chain-of-Custody 8. Sample Condition: Infact / Broken* / Leaking* 9. Does information on chain-of-custody, traffic reports and sample labels agree? (Fe) / No* 10. Sample received within hold time? (Fe) / No* 11. Adequate sample volume received? (Fe) / No* 12. Proper preservatives used? (Fe) / No* 13. Trip Blank / Temp Blank Received? (Fe) / No* 14. Read Temp: 7. 8 (Fe) / No* 15. Corrected Temp: 7. 8 (Fe) / No* 16. Sample received? (Fe) / No* 17. Trip Blank / Temp Blank Received? (Fe) / No* 18. Trip Blank / Temp Blank Received? (Fe) / No* 19. Trip Blank / Temp Blank Received? (Fe) / No* 19. Trip Blank / Temp Blank Received? (Fe) / No* 19. Trip Blank / Temp Blank Received? (Fe) / No* 19. Trip Blank / Temp Blank Received? (Fe) / No* 19. Trip Blank / Temp Blank Received? (Fe) / No* 19. Trip Blank / Temp Blank Received? (Fe) / No* 10. Trip Blank / Temp Blank Received? (Fe) / No* 10. Trip Blank / Temp Blank Received? (Fe) / No* 10. Trip Blank / Temp Blank Received? (Fe) / No* 10. Trip Blank / Temp Blank Received? (Fe) / No* 10. Trip Blank / Temp Blank Received? (Fe) / No* 10. Trip Blank / Temp Blank Received? (Fe) / No* 11. Adequate sample volume (Fe) / No* 12. Trip Blank / Temp Blank Received? (Fe) / No* 13. Trip Blank / Temp Blank Received? (Fe) / No* 14. Read Temp: 7. 8 (Fe) / No* 15. Trip Blank / Temp Blank / Temp Blank Received? (Fe) / No* 16. Trip Blank / Temp Blank / | | | Present / Absent | | | | | | | | |
| 5. Airbill #: 6. Sample Labels: Present / Absent 7. Sample IDs: Listed / Not Listed on Chain-of-Custody 8. Sample Condition: Intact / Broken* / Leaking* 9. Does information on chain-of-custody, traffic reports and sample labels agree? (Feb / No*) 10. Sample received within hold time? Yeb/ No* 11. Adequate sample volume received? Yeb/ No* 12. Proper preservatives used? Yeb/ No* 13. Trip Blank / Temp Blank Received? (reide which, if yes) Yes / No* 14. Read Temp: 7. 6 (Corrected Temp: 7. 6 (Corr | 4. | . Airbill: | Airbill / Sticker | | | | | | | \ | |
| 6. Sample Labels: Present / Absent 7. Sample IDs: Listed / Not Listed on Chain-of-Custody 8. Sample Condition: Infact / Broken* / Leaking* 9. Does information on chain-of-custody, traffic reports and sample labels agree? (fea / No* 10. Sample received within hold time? (es) / No* 11. Adequate sample volume received? (es / No* 12. Proper preservatives used? (es) / No* 13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No* 14. Read Temp: 7, 8 C Correction Factor: OCC corrected Temp: 7, 8 C / No* 15. corrected temp. 0-6°C? Yes / No* 16. Sample Labels: Present / No* 17. Proper preservatives used? (es) / No* 18. Sample Condition: OCC orrected Temp: 7, 8 C / No* 19. Sample Condition: OCC orrected Temp: 7, 8 C / No* 19. Sample Condition: OCC orrected Temp: 7, 8 C / No* 19. Sample Condition: OCC orrected Temp: 7, 8 C / No* 19. Sample Condition: OCC orrected Temp: 7, 8 C / No* 19. Sample Condition: OCC orrected Temp: 7, 8 C / No* 19. Sample Condition: OCC orrected Temp: 7, 8 C / No* 19. Sample Condition: OCC orrected Temp: 7, 8 C / No* 19. Sample Condition: OCC orrected Temp: 7, 8 C / No* 19. Sample Condition: OCC orrected Temp: 7, 8 C / No* 19. Sample Condition: OCC orrected Temp: 7, 8 C / No* 19. Sample Condition: OCC orrected Temp: 7, 8 C / No* 19. Sample Condition: OCC orrected Temp: 7, 8 C / No* 19. Sample Condition: OCC orrected Temp: 7, 8 C / No* 19. Sample Condition: OCC orrected Temp: 7, 8 C / No* 19. Sample Condition: OCC orrected Temp: 7, 8 C / No* 19. Sample Condition: OCC orrected Temp: 7, 8 C / No* 19. Sample Condition: OCC orrected Temp: 7, 8 C / No* | <u> </u> | | Present / Absent | | | | | | 1 | - 191 | |
| 7. Sample IDs: Listed / Not Listed on Chain-of-Custody 8. Sample Condition: Infaci / Broken* / Leaking* 9. Does information on chain-of-custody, traffic reports and sample labels agree? (reg / No*) 10. Sample received within hold time? Yes / No* 11. Adequate sample volume received? (reg / No*) 12. Proper preservatives used? Yes / No* 13. Trip Blank / Temp Blank Received? (redicted which, if yes) Yes / No*) 14. Read Temp: 7. 8 Corrected Temp: 7. 8 Corrected Temp: 1. 8 | | | | | | | | | | 6 X | |
| 7. Sample IDs: Listed / Not Listed on Chain-of-Custody 8. Sample Condition: In(ac) / Broken* / Leaking* 9. Does information on chain-of-custody, traffic reports and sample labels agree? (eè / No* 10. Sample received within hold time? (es) / No* 11. Adequate sample volume received? (eè / No* 12. Proper preservatives used? (es) / No* 13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No* 14. Read Temp: 7, 8 C Correction Factor: OC Corrected Temp: 7, 8 C C C Corrected Temp: 7, 8 C C C C C C C C C C C C C C C C C C | 6. | Sample Labels: | Present / Absent | | | | | | 17. | | |
| 8. Sample Condition: In(ac) / Broken* / Leaking* 9. Does information on chain-of-custody, traffic reports and sample labels agree? (res) / No* 10. Sample received within hold time? Yes/ No* 11. Adequate sample volume received? (res) / No* 12. Proper preservatives used? (res) / No* 13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No* 14. Read Temp: Correction Factor: Corrected Temp: Is corrected temp. 0-6°C? Yes / No** **Exception (if any): METALS / DFFON ICE | 7. | Sample IDs: | Listed / Not Listed | • | | | | | 1 | \/ | |
| Leaking* 9. Does information on chain-of-custody, traffic reports and sample labels agree? (Yes) / No* 10. Sample received within hold time? Yes) / No* 11. Adequate sample volume received? 12. Proper preservatives used? Yes / No* 13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No* 14. Read Temp: 7. 8 Corrected Temp: 7. | | | on Chain-of-Custody | | | | | \ \ | | <u> </u> | |
| 9. Does information on chain-of-custody, traffic reports and sample labels agree? (feg / No*) 10. Sample received within hold time? (fes / No*) 11. Adequate sample volume received? (fes / No*) 12. Proper preservatives used? (fes / No*) 13. Trip Blank / Temp Blank Received? (forcle which, if yes) (forcle which, if yes) (force | 8. | Sample Condition: | In(ac) / Broken* / | | | | | F | - / | | |
| traffic reports and sample labels agree? (fes / No* 10. Sample received within hold time? (fes / No*) 11. Adequate sample volume received? (fes / No*) 12. Proper preservatives used? (fes / No*) 13. Trip Blank / Temp Blank Received? (ficricle which, if yes) Yes / No*) 14. Read Temp: 7, 8 CCC Corrected Temp: 7, 8 CCCC Corrected Temp: 7, 8 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC | | | | | *************************************** | | 0.0 | , | 121 | | |
| agree? (res / No* 10. Sample received within hold time? (res / No* 11. Adequate sample volume received? (res / No* 12. Proper preservatives used? (res / No* 13. Trip Blank / Temp Blank Received? (circle which, if yes) (circle which, if yes) (circle to thich, if yes) (corrected Temp: Corrected Temp: Is corrected temp. 0-6°C? Yes / No** **Exception (if any): METALS / DFF ON ICE | 9. | | | | | | -00° | | | | |
| agree? (Yes) / No* 10. Sample received within hold time? (Yes) / No* 11. Adequate sample volume received? (Yes) / No* 12. Proper preservatives used? (Yes) / No* 13. Trip Blank / Temp Blank Received? (Gircle which, if yes) (Yes) / No* 14. Read Temp: (Corrected Temp: (Corrected Temp: (Second Temp: (Se | | | ample labels | | | | \forall | 00 | | | |
| hold time? 11. Adequate sample volume received? 12. Proper preservatives used? (es) / No* 13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No* 14. Read Temp: Correction Factor: Corrected Temp: Is corrected temp. 0-6°C? Yes / No** **Exception (if any): METALS / DFF\ON ICE | | | (Yes / No* | | | | // | 8 | | | |
| 11. Adequate sample volume received? 12. Proper preservatives used? (es/ No* 13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No* 14. Read Temp: Correction Factor: Corrected Temp: Is corrected temp. 0-6°C? Yes / No** **Exception (if any): METALS / DFF\ON ICE | | | in | | | | | | | | |
| received? 12. Proper preservatives used? (es) / No* 13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No* 14. Read Temp: Correction Factor: Corrected Temp: Is corrected temp. 0-6°C? **Exception (if any): METALS / DFFON ICE | | | Yes/ No* | | | | | | | | |
| 12. Proper preservatives used? (es) / No* 13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No*) 14. Read Temp: 7. 8 C Correction Factor: Corrected Temp: 7. 8 C Is corrected temp. 0-6°C? Yes / No** **Exception (if any): METALS / DFF ON ICE | | | | | | 1 / 1 | | | | | |
| 13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No* 14. Read Temp: Correction Factor: Corrected Temp: Is corrected temp. 0-6°C? Yes / No** **Exception (if any): METALS / DFF ON ICE | | | | | | | | | | | |
| (circle which, if yes) Yes / No* 14. Read Temp: Correction Factor: Corrected Temp: Is corrected temp. 0-6°C? Yes / No** **Exception (if any): METALS / DFF ON ICE | | | | | | | | | | | |
| 14. Read Temp: Correction Factor: Corrected Temp: Is corrected temp. 0-6°C? Yes / No** **Exception (if any): METALS / DFF ON ICE | | | | -53 | | | | | | | |
| Correction Factor: Corrected Temp: Is corrected temp. 0-6°C? Yes / No** **Exception (if any): METALS / DFF ON ICE | | | | | | | | | | | |
| Corrected Temp: Is corrected temp. 0-6°C? Yes / No*** **Exception (if any): METALS / DFF ON ICE | | | 7.80 | | | | | | | | |
| Is corrected temp. 0-6°C? Yes / No** **Exception (if any): METALS / DFF ON ICE | | | | | | | | | | | |
| **Exception (if any): METALS / OFF ON ICE | | | | | | | | | | | |
| | | | | | | | | • | | | |
| or Problem COC | | | ALS / DFF)ON ICE | | | | | | | | |
| ADDITION OF THE PROPERTY OF TH | anav in | or Problem COC | | <u> </u> | | | | | | | |

SAMPLERECEIPTLOG Revision 8 (09/26/07) *IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

Page _____ of ____



17 October, 2007

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

RE: ARCO #2111, San Leandro, CA

Work Order: MQJ0451

Enclosed are the results of analyses for samples received by the laboratory on 10/12/07 10:19. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race

Senior Project Manager

CA ELAP Certificate # 1210

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





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

Cameron Park CA, 95682

Project: ARCO #2111, San Leandro, CA

MQJ0451

Project Number: G0C28-0023 Project Manager: Jay Johnson Reported: 10/17/07 12:45

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| 02111AEFF | MQJ0451-01 | Vapor | 10/11/07 08:30 | 10/12/07 10:19 |

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





Project: ARCO #2111, San Leandro, CA

MQJ0451 Reported:

Project Number: G0C28-0023
Project Manager: Jay Johnson

Reported: 10/17/07 12:45

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|---------------------|--------------------|--------------|----------|---------|----------|-------------------|-----------|-------|
| 02111AEFF (MQJ0451-01) Vapor | Sampled: 10/11/07 0 | 8:30 Rec | eived: 10/12 | /07 10:1 | 9 | | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | mg/m³ Air | 1 | 7J12008 | 10/12/07 | 10/12/07 19:01 | LUFT GCMS | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97 % | 70-13 | 0 | " | " | 11 | " | |
| Surrogate: 4-Bromofluorobenzene | | 84 % | 60-13 | 5 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 105 % | 75-12 | 0 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 91 % | 80-12 | 0 | " | " | " | " | |
| Gasoline Range Organics (C4-C12) | ND | 14 | ppmv | 0 | n | n | n | 11 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97 % | 70-13 | 0 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 84 % | 60-13 | 5 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 105 % | 75-12 | 0 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 91 % | 80-12 | 0 | " | " | " | u u | |





Project: ARCO #2111, San Leandro, CA

MQJ0451 Reported:

Project Number: G0C28-0023
Project Manager: Jay Johnson

10/17/07 12:45

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B TestAmerica - Morgan Hill, CA

| | | Reporting | | | | | | | |
|----------------------------------|-------------------|-----------|--------------|-----------|---------|----------|-------------------|-----------|------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
| 02111AEFF (MQJ0451-01) Vapor | Sampled: 10/11/07 | 08:30 Red | eived: 10/12 | 2/07 10:1 | 9 | | | | |
| Methyl tert-butyl ether | ND | 0.50 | mg/m³ Air | 1 | 7J12008 | 10/12/07 | 10/12/07 19:01 | EPA 8260B | |
| Benzene | ND | 0.50 | н | 11 | N . | u | II . | II. | |
| Toluene | ND | 0.50 | 11 | tr. | н | н | 11 | н | |
| Ethylbenzene | ND | 0.50 | 11 | Ħ | 11 | 11 | 11 | 11 | |
| Xylenes (total) | ND | 0.50 | H | # | " | 11 | n | U | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97 % | 70-13 | 30 | " | " | 11 | " | |
| Surrogate: 4-Bromofluorobenzene | | 84 % | 60-13 | 35 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 105 % | 75-12 | 20 | " | " | n | n . | |
| Surrogate: Toluene-d8 | | 91 % | 80-12 | 20 | " | " | " | n . | |
| Benzene | ND | 0.16 | ppmv | н | u | | II . | II. | |
| Ethylbenzene | ND | 0.12 | н | u | ** | " | н | n | |
| Methyl tert-butyl ether | ND | 0.14 | 11 | If | н | 11 | 11 | u | |
| Toluene | ND | 0.13 | 11 | ** | u | IÌ | 11 | n | |
| Xylenes (total) | ND | 0.12 | н | 0 | Ħ | 11 | н | п | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97 % | 70-13 | 30 | " | " | " | n | |
| Surrogate: 4-Bromofluorobenzene | | 84 % | 60-13 | 35 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 105 % | 75-12 | 20 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 91 % | 80-12 | 20 | " | " | " | " | |





Project: ARCO #2111, San Leandro, CA

Spike

Source

%REC

Project Number: G0C28-0023

Project Manager: Jay Johnson

MQJ0451 Reported: 10/17/07 12:45

RPD

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

Reporting

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|-------------------------------------|------------|-------|-----------|------------|-----------|------------|--------|-----|---|-------|
| Batch 7J12008 - EPA 5030B P/T / | LUFT GCMS | | | | | | | | | |
| Blank (7J12008-BLK1) | | | | Prepared a | & Analyze | d: 10/12/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | ND | 14 | ppmv | | | | •• | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | mg/m³ Air | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.551 | | рртч | 0.594 | | 93 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.32 | | mg/m³ Air | 2.50 | | 93 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.302 | | ppmv | 0.349 | | 86 | 60-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.16 | | mg/m³ Air | 2.50 | | 86 | 60-135 | | | |
| Surrogate: Dibromofluoromethane | 2.29 | | " | 2.50 | | 92 | 75-120 | | | |
| Surrogate: Dibromofluoromethane | 0.292 | | ppmv | 0.318 | | 92 | 75-120 | | | |
| Surrogate: Toluene-d8 | 0.625 | | " | 0.665 | | 94 | 80-120 | | | |
| Surrogate: Toluene-d8 | 2.35 | | mg/m³ Air | 2.50 | | 94 | 80-120 | | | |
| Laboratory Control Sample (7J12008 | -BS2) | | | Prepared & | & Analyze | d: 10/12/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 130 | 14 | ppmv | 142 | | 92 | 65-120 | | | |
| Gasoline Range Organics (C4-C12) | 458 | 50 | mg/m³ Air | 500 | | 92 | 65-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.50 | | " | 2.50 | | 100 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.594 | | ppmv | 0.594 | | 100 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.344 | | n | 0.349 | | 98 | 60-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.46 | | mg/m³ Air | 2.50 | | 98 | 60-135 | | | |
| Surrogate: Dibromofluoromethane | 0.298 | | ppmv | 0.318 | | 94 | 75-120 | | | |
| Surrogate: Dibromofluoromethane | 2.34 | | mg/m³ Air | 2.50 | | 94 | 75-120 | | | |
| Surrogate: Toluene-d8 | 0.638 | | ppmv | 0.665 | | 96 | 80-120 | | | |
| Surrogate: Toluene-d8 | 2.40 | | mg/m³ Air | 2.50 | | 96 | 80-120 | | | |
| Laboratory Control Sample Dup (7J1) | 2008-BSD2) | | | Prepared & | k Analyze | d: 10/12/0 |)7 | | | |
| Gasoline Range Organics (C4-C12) | 135 | 14 | ppmv | 142 | | 95 | 65-120 | 3 | 20 | |
| Gasoline Range Organics (C4-C12) | 474 | 50 | mg/m³ Air | 500 | | 95 | 65-120 | 3 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.19 | | " | 2.50 | | 88 | 70-130 | | *************************************** | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.520 | | ppmv | 0.594 | | 88 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.32 | | mg/m³ Air | 2.50 | | 93 | 60-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.324 | | ppmv | 0.349 | | 93 | 60-135 | | | |
| Surrogate: Dibromofluoromethane | 0.308 | | " | 0.318 | | 97 | 75-120 | | | |
| Surrogate: Dibromofluoromethane | 2.42 | | mg/m³ Air | 2.50 | | 97 | 75-120 | | | |
| Surrogate: Toluene-d8 | 0.665 | | ppmv | 0.665 | | 100 | 80-120 | | | |
| Surrogate: Toluene-d8 | 2.50 | | mg/m³ Air | 2.50 | | 100 | 80-120 | | | |





Project: ARCO #2111, San Leandro, CA

Spike

Source

%REC

MQJ0451 Reported:

RPD

Project Number: G0C28-0023 Project Manager: Jay Johnson

10/17/07 12:45

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B - Quality Control TestAmerica - Morgan Hill, CA

Reporting

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|-------------------------------------|-----------|-----------|-----------|------------|-----------|------------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 7J12008 - EPA 5030B P/T / | EPA 8260B | | | | | | | | | |
| Blank (7J12008-BLK1) | | | | Prepared | & Analyze | d: 10/12/ | 07 | | | |
| Methyl tert-butyl ether | ND | 0.50 | mg/m³ Air | | | | | | | |
| Benzene | ND | 0.16 | ppmv | | | | | | | |
| Benzene | ND | 0.50 | mg/m³ Air | | | | | | | |
| Toluene | ND | 0.50 | н | | | | | | | |
| Ethylbenzene | ND | 0.50 | 11 | | | | | | | |
| Xylenes (total) | ND | 0.50 | п | | | | | | | |
| Ethylbenzene | ND | 0.12 | ppmv | | | | | | | |
| Methyl tert-butyl ether | ND | 0.14 | 11 | | | | | | | |
| Toluene | ND | 0.13 | Ħ | | | | | | | |
| Xylenes (total) | ND | 0.12 | н | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.32 | | mg/m³ Air | 2.50 | | 93 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.551 | | ppmv | 0.594 | | 93 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.16 | | mg/m³ Air | 2.50 | | 86 | 60-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.302 | | ppmv | 0.349 | | 86 | 60-135 | | | |
| Surrogate: Dibromofluoromethane | 2.29 | | mg/m³ Air | 2.50 | | 92 | 75-120 | | | |
| Surrogate: Dibromofluoromethane | 0.292 | | ppmv | 0.318 | | 92 | 75-120 | | | |
| Surrogate: Toluene-d8 | 2.35 | | mg/m³ Air | 2.50 | | 94 | 80-120 | | | |
| Surrogate: Toluene-d8 | 0.625 | | ppmv | 0.665 | | 94 | 80-120 | | | |
| Laboratory Control Sample (7J12008- | BS1) | | | Prepared & | & Analyze | d: 10/12/0 |)7 | | | |
| Methyl tert-butyl ether | 10.8 | 0.50 | mg/m³ Air | 10.0 | | 108 | 50-140 | | | |
| Benzene | 3.16 | 0.16 | ppmv | 3.14 | | 101 | 75-120 | | | |
| Benzene | 10.1 | 0.50 | mg/m³ Air | 10.0 | | 101 | 75-120 | | | |
| Toluene | 9.50 | 0.50 | 11 | 10.0 | | 95 | 75-120 | | | |
| Ethylbenzene | 9.85 | 0.50 | н | 10.0 | | 98 | 75-120 | | | |
| Kylenes (total) | 29.4 | 0.50 | II. | 30.0 | | 98 | 75-130 | | | |
| Ethylbenzene | 2.27 | 0.12 | ppmv | 2.31 | | 98 | 75-120 | | | |
| Methyl tert-butyl ether | 3.01 | 0.14 | н | 2.78 | | 108 | 50-140 | | | |
| Coluene | 2.53 | 0.13 | 0 | 2.66 | | 95 | 75-120 | | | |
| Xylenes (total) | 6.78 | 0.12 | 11 | 6.92 | | 98 | 75-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.40 | | mg/m³ Air | 2.50 | | 96 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.570 | | ppmv | 0.594 | | 96 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.31 | | mg/m³ Air | 2.50 | | 92 | 60-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.323 | | ppmv | 0.349 | | 92 | 60-135 | | | |
| 'urrogate: Dibromofluoromethane | 2.42 | | mg/m³ Air | 2.50 | | 97 | 75-120 | | | |
| Surrogate: Dibromofluoromethane | 0.308 | | ppmv | 0.318 | | 97 | 75-120 | | | |

TestAmerica - Morgan Hill, CA

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





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023 Project Manager: Jay Johnson

MQJ0451 Reported:

10/17/07 12:45

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B - Quality Control TestAmerica - Morgan Hill, CA

| | | | | | | | | | | | 4 |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|---|
| | | Reporting | | Spike | Source | | %REC | | RPD | | l |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes | l |

| Laboratory Control Sample (7J12008 | 3-BS1) | | | Prepared & An | alyzed: 10/12 | /07 | | | |
|------------------------------------|-------------|-------------------------------|-----------|---------------|---------------|--------|----|----|--|
| Surrogate: Toluene-d8 | 2.37 | | mg/m³ Air | 2.50 | 95 | 80-120 | | | |
| Surrogate: Toluene-d8 | 0.630 | | ppmv | 0.665 | 95 | 80-120 | | | |
| Laboratory Control Sample Dup (7J1 | 12008-BSD1) | Prepared & Analyzed: 10/12/07 | | | | | | | |
| Methyl tert-butyl ether | 8.91 | 0.50 | mg/m³ Air | 10.0 | 89 | 50-140 | 19 | 25 | |
| Benzene | 2.99 | 0.16 | ppmv | 3.14 | 95 | 75-120 | 6 | 20 | |
| Benzene | 9.53 | 0.50 | mg/m³ Air | 10.0 | 95 | 75-120 | 6 | 20 | |
| Γoluene | 9.02 | 0.50 | II . | 10.0 | 90 | 75-120 | 5 | 25 | |
| Ethylbenzene | 9.95 | 0.50 | " | 10.0 | 100 | 75-120 | 1 | 20 | |
| Kylenes (total) | 29.9 | 0.50 | 11 | 30.0 | 100 | 75-130 | 2 | 20 | |
| Ethylbenzene | 2.30 | 0.12 | ppmv | 2.31 | 99 | 75-120 | 1 | 20 | |
| Methyl tert-butyl ether | 2.48 | 0.14 | 11 | 2.78 | 89 | 50-140 | 19 | 25 | |
| Coluene | 2.40 | 0.13 | н | 2.66 | 90 | 75-120 | 5 | 25 | |
| (ylenes (total) | 6.89 | 0.12 | 0 | 6.92 | 100 | 75-130 | 2 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.20 | | mg/m³ Air | 2.50 | 88 | 70-130 | | | |
| 'urrogate: 1,2-Dichloroethane-d4 | 0.522 | | ppmv | 0.594 | 88 | 70-130 | | | |
| 'urrogate: 4-Bromofluorobenzene | 2.34 | | mg/m³ Air | 2.50 | 94 | 60-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.327 | | ppmv | 0.349 | 94 | 60-135 | | | |
| urrogate: Dibromofluoromethane | 2.29 | | mg/m³ Air | 2.50 | 92 | 75-120 | | | |
| urrogate: Dibromofluoromethane | 0.292 | | ppmv | 0.318 | 92 | 75-120 | | | |
| urrogate: Toluene-d8 | 2.39 | | mg/m³ Air | 2.50 | 96 | 80-120 | | | |
| urrogate: Toluene-d8 | 0.635 | | ppmv | 0.665 | 96 | 80-120 | | | |





Stratus Environmental Inc. [Arco]
Project: ARCO #2111, San Leandro, CA
MQJ0451
3330 Cameron Park Dr., Suite 550
Project Number: G0C28-0023
Project Manager: Jay Johnson
10/17/07 12:45

Notes and Definitions

DET Analyte DETECTED

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

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

| Hantic | | | | Page ⊥ of _ |
|----------------------|--------------------------------------|------|---------------------|-------------|
| tlantic Richfield | Chain of Custody Record | RUSH | On-site Time: USIS | Temp: |
| Kicimeia | Project Name: ARCO Facility No. 2111 | | Off-site Time: 0345 | Temp: |

| C | O | m | n | a | n | V |
|--------|----|-----------|-------|-----|------|-----|
| bo | | | | _ | | J |
| Shift. | | | | | | |
| 100 | Λ. | ITTO AFFI | hotoi | con | 1011 | 71/ |

ARCO Facility No. 2111

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda

State or Lead Regulatory Agency:

California Regional Water Quality Control Board

Requested Due Date (mm/dd/yy):

24 hours for Effluent

Direction: Wind Speed:

Sky Conditions:

Meteorological Events:

& STD for others ab Name: TestAmerica BP/AR Facility No.: Consultant/Contractor: Stratus Environmental, Inc. 2111 Address: 885 Jarvis Drive BP/AR Facility Address: 1156 Davis St., San Leandro 3330 Cameron Park Drive, Suite 550 Address: Cameron Park, CA 95682 Morgan Hill, CA 95937 Site Lat/Long: Lab PM: Lisa Race California Global ID No.: T0600101764 Consultant/Contractor Project No.: E2111-03 Tele/Fax: 408-782-8156/ 408-782-6308 Jay Johnson Enfos Project No.: G0C28-0023 Consultant/Contractor PM: (530) 676-6000 / (530) 676-6005 BP/AR PM Contact: Paul Supple Provision or OOC (circle one) Provision Tele/Fax: Address: 2010 Crow Canyon Place, Suite 150 03-O&M Report Type & QC Level: Level 1 with EDF Phase/WBS: E-mail EDD To: shayes@stratusinc.net San Ramon, CA Sub Phase/Task: 03-Analytical 925-275-3506/925-275-3815 Tele/Fax: Subcontractor Cost Invoice to: Atlantic Richfield Co. Cost Element: Lab Bottle Order No: Matrix Preservative Requested Analysis Turnaround Time ATBE by 8260 Sample Point Lat/Long and **3TEX by 8260** 3RO by 8015 Water/Liquid Time Unpreserved Comments Item Sample Description Laboratory No. Soil/Solid Methanol No. 24-hours Standard H2SO4 HNO3 HCI MQJ0451 02111DPEAINF 02111ASAEFT 02111ASYSINF 92111AGAC1 0830 1011 01 02111AEFF х х х Х 6 7 8 9 10 Sampler's Name: Belinquished By / Affiliation Date Time Accepted By / Affiliation Date Time Sampler's Company: Stratus Environmental, Inc. 101104 1600 1019 10/12 10-11-07 Shipment Date: Shipment Method: hipment Tracking No: al Instructions: Please cc results to bpedf@broadbentinc.Com stody Seals In Place: Yes / No Temp Blank: Yes / No MS/MSD Sample Submitted: Yes / No Cooler Temp on Receipt: Trip Blank: Yes // No

TEST AMERICA SAMPLE RECEIPT LOG

| REC. BY (PRINT) WORKORDER: MQJ0451 | | | DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN: | 10[19]87 | | | | For Regulatory Purposes? DRINKING WATER YES NO | | |
|--|---------------------|----------------|---|-----------------------|--|---------------|--|---|------------------|--|
| | | | DATE LOGGED IN. | 10/12 | <u> 40/ </u> | | | WASTE W | ATER YES (NO | |
| | ROPRIATE RESPONSE | LAB SAMPLE# | CLIENT ID | CONTAINER DESCRIPTION | | рН | SAMPLE | DATE SAMPLED | REMARKS: | |
| Custody Seal(s) | Present / Acsent | | | | | | WALNA | SWINLTED | CONDITION (ETC.) | |
| | Intact / Broken* | | | | | | - | | | |
| 2. Chain-of-Custody | Present / Absent* | | | | | | | | | |
| Traffic Reports or | | | | | | | | | | |
| Packing List: | Present / Absent | | | | | | | | | |
| 4. Airbill: | Airbill / Sticker | | | | | | | | | |
| | Present / Absent | | | | | | | / | | |
| 5. Airbill #: | | | | | | | | | | |
| 6. Sample Labels: | Present / Absent | | | | | | | | | |
| 7. Sample IDs: | Listed / Not Listed | | | | | | / | | | |
| | on Chain-of-Custody | | | | | | \leftarrow | | | |
| 8. Sample Condition: | Intact / Broken* / | | | selia | | / | | | | |
| • | Leaking* | | | 101140 | -1 | | | *************************************** | | |
| 9. Does information o | | | | 100 J | / | | | | | |
| traffic reports and | sample labels | | , 1 | | | | | | | |
| agree? | Yes / No* | | | | | | | | | |
| Sample received with | | | | | | | | | | |
| hold time? | Yes / No* | | | | | _ | | | | |
| 11. Adequate sample vol | | | | | | | | | | |
| received? | Yes / No* | | | | | | | | | |
| Proper preservatives | | | | | | \rightarrow | | | | |
| 13. Trip Blank / Temp Bla | ank Received? | -30 | | | | - | | | | |
| (circle which, if yes) | Yes / No* | | | | | | | | | |
| Read Temp: | | | | | | -+ | | | | |
| Correction Factor: | | | | | | + | | | | |
| Corrected Temp: | | | / | | | -+ | | | : | |
| Is corrected temp. 0-6 | / | | (\$ ¹) | | | \dashv | | | | |
| **Exception (if any): ME | | | 7 | | | - | | | | |
| or Problem COC | AIR T | | | | | =+ | | | | |

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

SAMPLERECEIPTLOG Revision 8 (09/26/07)

Page ____ of ____



December 6, 2007

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

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

General Information

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

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

On-Site Supplier Representatives: Chris Hill

Number of Site Visits: 3 (November 6, 14, and 20, 2007)

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

Operational Status: Continuous operation

Scope of Work Performed: Conduct routine system operation and maintenance, and record field measurements. Influent, mid-fluent, and effluent air and water samples were collected on November 6, 2007.

Variations from Scope of Work: The remediation systems were found non-functioning on November 6, 2007 due to high-water level alarm on the air stripper. The remediation systems were re-started momentarily on November 6, 2007 and shutdown after sampling, pending receipt of analytical results. Upon receipt of analytical results and compliance verification, the remediation systems were re-started on November 14, 2007.

The battery for the totalizer (prior to the air stripper) was found to have malfunctioned during a site visit conducted on November 14, 2007 and the totalizer reading (prior to the air stripper) was reset to zero. The battery was replaced on November 14, 2007.

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

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Kiran Nagaraju Staff Engineer

Attachments:

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

CC: Paul Supple, BP/ARCO

Jay R. Johnson

No. 5867

inson, P.G.

Project Manager

1156 Davis Street San Leandro, California

Dual Phase Extraction and Air Stripper System

| Date: Onsite Time: Offsite Time: Equipment Manufacturer/Mo | odel# | Technician: Weather Cor Ambient Tem | | <u>0141</u> Fog 50 | 7 | |
|--|-----------------|---|------------|--------------------------|----------|----------|
| | System I | nformation | | | | <u> </u> |
| System Status Upon Arrival | Operationa | | Non-Opera | ational [| Z High | |
| System Status Upon Depart | ure: Operationa | | Non-Opera | ational [5 | Z | |
| Electric Meter Reading: | 34556 | | · | Wait fo | yo LABR: | o H |
| Hour Meter Reading: | 1500 | · | | Ti | o Tum on | |
| Totalizer Reading Prior to Air Stripper: | 615/61 | PID Calibratio | on Date: 🖊 | 1507 | 7 | |
| Totalizer Reading After Air Stripper: | 629030 | | | | | |

| Field Measurements | | | | | | | | | |
|--------------------|-------------------|--|--|-------------------------|---------------------------------|--------------------|--|--|--|
| Para | ameter | Influent (after blower, 2111DPEAINF) | Air Stripper (2111ASAEFF) | System | Stack Air Flow (2111AEFF) | Comments | | | |
| Differential P | ressure, "wc | | 22 | | | | | | |
| Air Velocity, F | Air Velocity, FPM | | 3535 | | | | | | |
| Pipe Diamete | er, inches | 3 | 4 | Ц | 3 | | | | |
| Air Flow Rate | e, cfm | | ŀ | 190 | | | | | |
| Applied Vacu | um, "wc | 23"HG | 35 | NA NA | NA | | | | |
| Temperature, deg F | | | 121 | 95 | | | | | |
| PID Readings | s, ppmv | 715 | 8 | 263 | * | PID for GAC-1: *8_ | | | |
| | | O4h | D | | | | | | |
| | | | | Measurements | | | | | |
| Well ID | % Open | Applied Vac., "Hg | Total depth, feet bgs | Stinger Depth, feet bgs | | | | | |
| V-1 | 25 | 15 | | - 0 | | | | | |
| V-2 | フラ | 15 | | | | | | | |
| V-3 | スラ | 15 | | | | | | | |
| MW-1 | 100 | 18 | | | | | | | |
| MW-3 | 100 | 14 | | | | | | | |
| MW-7 | 100 | 15 | 1990 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | - | | | | | |
| mu8 | 100 /) | 19 | | | | | | | |

Signature: Mulhal Date: 11607

1156 Davis Street San Leandro, California

Dual Phase Extraction and Air Stripper System



| | | | | | - 中日 ALST |
|------------------------|------------------|--|------------------|-------|--|
| | Sar | mpling Infor | mation (monthly) | | |
| Sample ID | | & Time | Sample ID | Date | € & Time |
| 02111DPEAINF | 11607 | 0550 | 02111AGAC1 | 11407 | 0557 |
| 02111ASAEFF | | 7553 | | 1100 | MERCA |
| 02111ASYSINF | | りょうり | | | - <i>U </i> |
| | | - | | | |
| Analyses Required: GRC |), BTEX, and MTB | 3E | | | |
| | | | | | |
| | | | | | |
| | Ор | eration & Ma | intenance Notes | | *** ···· |
| | | | | | |
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| 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: 1160 7

1156 Davis Street San Leandro, California

Groundwater Treatment System



| | | , | | | | | - FREFARIN |
|----------------------------|--|--|----------------|--|---------------|-----------------|------------|
| Date: | 11600 | 7 | | Technici | an: | CHILL | |
| Onsite Time: Offsite Time: | 1474 | | | | Conditions: | Clar | - Forg |
| | 10 | | | | Temperature | 30 | |
| System Status | | | Operation | nal [S | Non-operati | ional High | Yant L |
| System Status | | | Operation | nal 🔀 | Non-operati | ional Wail - | tor hotel |
| Transfer Pump |); | No. | Operation | nal 🔽 | A Non-operati | onal | |
| Transfer Pump | Hour Meter R | leading: | | | Effluent W | /ater Charact | teristics |
| Effluent Flow T | otalizer Readi | ng: | 3125 | 52 | i | by Field Instru | |
| No. of Carbon | Vessels: | - | Z_ | | Temperature | ā. | 15,170 |
| Lead Carbon V (psi): | essel Pressure | 10 | | - - | | | |
| Well ID | Hour Meter | Reading | Totalize | er Reading | Total Depth | Pump Depth | |
| MW-2 | | | 38/ | 7 | | | |
| | | | | | | | |
| | | | <u> </u> | | | | |
| | | Sam | pling Infor | rmation | | | |
| Samp | le ID | Date 8 | Time Sample ID | | mple ID | Date & Time | |
| 2111DPEWINI | = | 11607 | | 02111MW | 2WINF | 11407 C | 7503 |
| 2111ASWINF | | | 054 | | | | |
| 2111ASWEFF | | | 0519 | | | | |
| 2111WGAC1 | | | 0517 | | | | |
| 2111WEFF | | / | 0514 | | | | |
| Lab Parai | meters | Sampling F | requency | Sampl | e Location | Analytical Me | thod |
| GRO, BTEX, | & 5-Oxys | Moni | thly | INF | & EFF | EPA Method 82 | 260B |
| | | | | | | | |
| | | | j | | | | |
| otes: Run | MWZ B | efore 5 | mpk | | | | |
| | THE STATE OF THE S | | **** | | | | |
| | A | | | ······································ | | M | |
| gnature: | Ehn Mil | • | | | 1160% | 7 | |
| maturo. | | | | Date: | 1160/ | | |

Signature:

1156 Davis Street San Leandro, California

Dual Phase Extraction and Air Stripper System



| Date: Onsite Time: Offsite Time: Equipment Manufacturer/Model# | | - | Technician: Weather Cond Ambient Temp | | Chis 40 | | |
|--|---|--|---|-------------------------------|---------------------------------|----------------|--|
| | | | System Inf | formation | | | |
| System Statu | s Upon Arrival | l: | Operational | | Non-Operat | ional 🗹 | |
| System Statu | s Upon Depar | ture: | Operational | X | Non-Operat | ional Resta | |
| Electric Meter | Reading: | | | | · | | |
| Hour Meter R | eading: | 1500 | 7 | - | | | |
| Totalizer Read Air Stripper: | Totalizer Reading Prior to Buttery Dead Replace PID Calibration Date: Air Stripper: | | | | | | |
| Totalizer Read Stripper: | ding After Air | 6292 | _ | - | | | |
| | | | Field Meas | urements | | | |
| Para | meter | Influent (after blower, 2111DPEAINF) | Air Stripper (2111ASAEFF) | System Influent (2111ASYSINF) | Stack Air Flow (2111AEFF) | Comments | |
| Differential Pr | essure, "wc | | | | | | |
| Air Velocity, F | РМ | | | | | | |
| Pipe Diameter | , inches | 3 | 4 | 4 | 3 | | |
| Air Flow Rate, | cfm | | | | | | |
| Applied Vacuu | Applied Vacuum, "wc | | | NA | NA | | |
| Temperature, | deg F | | | | | | |
| PID Readings | , ppmv | | | | | PID for GAC-1: | |
| | | Oth | er Readings/I | Measurements (| | | |
| Well ID | % Open | Applied Vac., "Hg | Total depth, feet bgs | Stinger Depth, feet bgs | | | |
| V-1 | | | | | | | |
| V-2 | | | | | | | |
| V-3 | | | | | | | |
| MW-1 | | | | | | | |
| MW-3 | | | | | | | |
| MW-7 | 1 | h_ | | | | | |
| Signature: | 1////////////////////////////////////// | | | | 1/1/6 | 2 | |

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, BT | EX, and MTBE | | |
| | | | |
| | | | |
| | Operation & M | aintenance Notes | |
| | | | · · · · · · · · · · · · · · · · · · · |
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| 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 |
| | | | · |
| | 1 / | | |

Signature:

Date: 1/1407

ARCO FACILITY NO. 2111

1156 Davis Street San Leandro, California

San Leandro, California Groundwater Treatment System



| Date: Onsite Time: Offsite Time: | 11 140 0 0000 0700 | 7 | • | Technician Weather C Ambient Te | onditions: | Che | |
|----------------------------------|--------------------------|---|-------------|---------------------------------------|--------------|----------------------------------|-------|
| System Status | Upon Arrival: | | Operationa | | nal | | |
| System Status | At Departure: | Ø | Operationa | 1 | Non-operatio | nal | |
| Transfer Pum | o: | 区 | Operationa | | Non-operatio | nal | |
| Transfer Pum | p Hour Meter Rea | | | | | ater Characte / Field Instrur | |
| Effluent Flow | Totalizer Reading | y: 💪 | 1255 | _ | pH: | | |
| No. of Carbon | Vessels: | 2 | | | Temperature | : | |
| Lead Carbon '(psi): | Vessel Pressure - | 411-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | | | | | |
| Well ID | Hour Meter F | Reading | Totalizer | Reading | Total Depth | Pump Depth | |
| MW-2 | | | | | | | |
| | : | | | | | | |
| | | | | | | | |
| | | | pling Infor | | | T | |
| San | nple ID | Date o | & Time | | nple ID | Date & Ti | me |
| 02111DPEWI | NF | | | 02111MW | 2WINF | | |
| 02111ASWIN | | | | | | | |
| 02111ASWEF | | | | | | | |
| 02111WGAC | 1 | | | | | | |
| 02111WEFF | | | | | | | |
| Lab Pa | arameters | Sampling | Frequency | Sampl | e Location | Analytical M | ethod |
| GRO, BT | EX, & 5-Oxys | Mo | nthly | IN | F& EFF | EPA Method | 8260B |
| | | | | | | | |
| | | | | | | | |
| Notes: | | 7/ | | | 11/4 | 07 | |
| Signature: | / And/ | 'V(| | Date | :11 10 | | · |

Page 1 of 1

ARCO FACILITY NO. 2111

1156 Davis Street San Leandro, California

Dual Phase Extraction and Air Stripper System

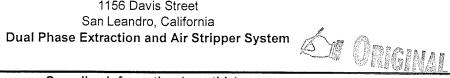
| Dual Phas | | and Air Stripp | ST COLORIDA | | | | | | | | |
|--|-------------|--|------------------|----------------|----|--|--|--|--|--|--|
| Date: 12007 Onsite Time: 080 | - - | Technician: Weather Cond Ambient Tem | Clun | | | | | | | | |
| Equipment Manufacturer/Model# | | | | | | | | | | | |
| System Information | | | | | | | | | | | |
| System Status Upon Arrival: | Operational | | Non-Opera | ational K Term | te | | | | | | |
| System Status Upon Departure: | Operational | | Non-Opera | ational | | | | | | | |
| Electric Meter Reading: 4662 | | - | , | ——— | | | | | | | |
| Hour Meter Reading: 1507 | - | - | | | | | | | | | |
| Totalizer Reading Prior to Air Stripper: | <u> </u> | PID Calibratio - | n Date: <u>L</u> | 1-19.07 | | | | | | | |
| Totalizer Reading After Air § \$305 | 70 | - | | | | | | | | | |

| | | | Field Meas | urements | | |
|----------------------------|---------|--|------------------------------|-------------------------------------|---------------------------------|----------------|
| Para | ımeter | Influent (after blower, 2111DPEAINF) | Air Stripper (2111ASAEFF) | System Influent (2111ASYSINF) | Stack Air Flow (2111AEFF) | Comments |
| Differential Pressure, "wc | | | 26 | | | |
| Air Velocity, F | PM | | 2142 | | | |
| Pipe Diameter, inches | | 3 | 4 | 4 | 3 | |
| Air Flow Rate, cfm | | 180 | | \$ 180 | | |
| Applied Vacuu | um, "wc | 22"H6 | ,3L | NA | NA | |
| Temperature, deg F | | 840 | 107 | 80 | | |
| PID Readings | s, ppmv | 791 | 2,4 | 38Z | t | PID for GAC-1: |
| | | Oth | er Readings/l | Measurements (| | |
| Well ID | % Open | Applied Vac., "Hg | | Stinger Depth, feet bgs | | |
| V-1 | 50 | 12 | | | | |
| V-2 | 50 | <i>)</i> | | | | |
| V-3 | 50 | 11 | | | | |
| MW-1 | 100 | 10 | | | | |
| MW-3 | 100 | 13 | | | | |
| MW-7 | 100 | 12 | | | | |
| m68 /7 | | 171 | | | | |

Date: 1/2007 Signature:

ARCO FACILITY NO. 2111

1156 Davis Street



| | Sampling Info | ormation (monthly) | |
|--|--------------------|---------------------|-------------|
| Sample ID | Date & Time | Sample ID | Date & Time |
| 02111DPEAINF | | 02111AGAC1 | |
| 02111ASAEFF | | 02111AEFF | |
| 02111ASYSINF | | | |
| Analyses Required: GRO, B | I ΓΕΧ, and MTBE | | |
| | Operation & f | Maintenance Notes | |
| | operation a r | viaintenance rvotes | |
| | | | |
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| THE REAL PROPERTY OF THE PROPE | | | |
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| 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 |
| | 1 | | |

| Signature: | CADM | Date: 112007 |
|------------|------|--------------|
|------------|------|--------------|

ARCO FACILITY NO. 2111 1156 Davis Street Gro

| A. | |
|----|------|
| | Mar. |
| | |

| Date: Onsite Time: Offsite Time: | 11200 0650 0800 | 7 | - - - | Technician Weather C Ambient Te | | CHILL Clar 50 | | | |
|---|---|---|---|---------------------------------------|-----------------|---------------------|----------|--|--|
| System Status System Status Transfer Pump Transfer Pump | At Departure: | □ ☑ ☑ ading: | Operational Operational Operational | al 🔲 | | onal | eristics | | |
| No. of Carbon | otalizer Reading Vessels: 'essel Pressure | 2 | 1353 PS1 | <u>7</u> | pH: Temperature | | | | |
| Well ID | Hour Meter I | Reading | Totalize | r Reading | Total Depth | Pump Depth | | | |
| MW-2 | | | 380 | | | | | | |
| | 1.15 | | pling Infor | | | 1 5 | | | |
| | ole ID | Date 8 | & Time | | nple ID | Date & Ti | me | | |
| 02111DPEWIN | ****** | | | 02111MW2 | WINF | | | | |
| 02111ASWINF 02111ASWEFF | ************************************** | *************************************** | *************************************** | | | | | | |
| 02111WGAC1 | | | | | | | | | |
| 02111WEFF | | | | | | | | | |
| Lab Par | ameters | Sampling | Frequency | Sample | Location | Analytical Method | | | |
| GRO, BTE) | <, & 5-Охуs | Mor | nthly | INF | & EFF | EPA Method 8260B | | | |
| Notes: Ch. | anje u | ratur 1 | Fith | | // ¬ - | 7 609 | | | |
| Signature: | (An) | M | | Date: | 1120 | 0/ | - | | |

Page 1 of 1



Atlantic Richfie Compan

Custody Seals In Place: Yes / No)

RUSH

| | | |
|------|------|------|
| T | emp: | |

| hisiola | Chain of Custody Record | | | | | | |
|------------------|-------------------------|------------------|---------|--|--|--|--|
| chfield | Project Name: | ARCO Facility No | o. 2111 | | | | |
| nnanv | BP BU/AR Region | /Enfos Segment: | BP > | | | | |
| npany | State or Lead Regi | ılatory Agency: | Cali | | | | |
| official company | - | Requested Di | ie Date | | | | |

BP > Americas > West > Retail > Alameda

California Regional Water Quality Control Board 24 hours for Effluent Requested Due Date (mm/dd/yy):

& STD for others

| On-site Time: 0430 | Temp: | |
|------------------------|------------|--|
| Off-site Time: 0630 | Тетр: | |
| Sky Conditions: | | |
| Meteorological Events: | | |
| Wind Speed: | Direction: | |

MS/MSD Sample Submitted: Yes / No

Trip Blank: Yes / No

| Lab Name: TestAmerica BP/AR Facility No.: 2111 | | | | | Const | iltant | | | | Stratus Environme | | | - | | | | | | | | | | | | |
|--|----------------------------------|---------|----------|-----------------|---------------|----------|---|-------------------|-------------|--------------------------------|------------------|-----------------|---|---------------|--------------|----------------------|------------------------|----------|----------------|--------|-------------|--------------------|--|--------|-------------|
| Addr | ess: 885 Jarvis Drive | | | | | | BP/AR Facility Address: 1156 Davis St., San Leandro | | | | | Addre | Address: 3330 Cameron Park Drive, Suite 550 | | | | | | | | | | | | |
| Morg | an Hill, CA 95937 | | | | | | Site Lat/Long: | | | | | | | | | | Cameron Park, CA 95682 | | | | | | | | |
| Lab F | M: Lisa Race | | | | | | California Global | ID N | √o.: | T0600 | 1017 | 64 | | | | | l | | | | r Projec | | | | 4 |
| Tele/ | Fax: 408-782-8156/408-782-630 | 08 | | | | | Enfos Project No. | : | G0C28- | 0023 | | | | | | | Consu | iltant | | | | Jay Jol | | | 4 |
| BP/A | R PM Contact: Paul Supple | | ····· | | | | Provision or OOC | (ci | rcle one) | | Pro | visio | 1 | | | | Tele/I | | | | | 000 / (530) 676-6 | | | 4 |
| Addr | ess: 2010 Crow Canyon Place, Sui | ite 150 | | | | | Phase/WBS: | | 03-O&M | [| | | | | | | Repo | | | | | | with EDF | | \parallel |
| San Ramon, CA | | | | Sub Phase/Task: | | 03-Analy | /tical | | | | | | | | | | | | @stratusinc.ne | | | 4 | | | |
| Tele/Fax: 925-275-3506/925-275-3815 | | | | Cost Element: | | Subcontr | actor C | ost | | | | | | | | | | Richfiel | d Co. | | | 4 | | | |
| Lab | Bottle Order No: | | | | Mat | rix | | | | Pres | erva | ive | | Reg | uest | ed Anal | ysis | Tu | rnaro | ound | Time | | | | |
| Item No. | Sample Description | Time | Date | Soil/Solid | Water/Liquid | Air | Laboratory No. | No. of Containers | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCI | Methanol | GRO by 8015 | BTEX by 8260 | 5-oxygenates by 8260 | | 24-hours | Standard | | | Sample Poin Con | Z. To programme to the control of th | and | |
| 1 | 02111DP W in NF . | 0525 | 11/2 | İ | x | | | 5 | | | | 1 | | х | х | х | | | х | | | 5-oxygenates rec | | | |
| | | 0521 | (| ╢ | x | _ | | 5 | | | | 1/ | | X | х | x | | | x | | | MTBE, DIPE, E | TBE, TAM | E, and | 1 |
| 2 | 02111ASWINF • | | <u> </u> | | ^ | | | | | | | 1 | | - | \vdash | - | - | | | | | TBA. | | | |
| 3 | 02111ASWEFF . | 0519 | | | х | | | 5 | | | | <u> </u> | | x | Х | Х | - | | X | | | 1 | | | - |
| 4 | 02111WGAC1 . | 0517 | | | x | | | 5 | | | | $ \mathcal{Y} $ | | х | x | х | | | х | | | | | | |
| l | 02111WEFF • | 0574 | | | x | | | 5 | | | | V | | х | х | х | | х | | | | | | | |
| | | 0523 | / | ╟ | $\frac{1}{x}$ | | | 5 | | | 1 | X | | $\frac{1}{x}$ | x | $\frac{1}{x}$ | | | x | | <u> </u> | | | | |
| 6 | 02111MW2WINF - | 050 | / | ╢ | 1^1 | | <u> </u> | 2 | | | - | - | | 1 | | | | - | - | - | _ | | | | \exists |
| 7 | | _ | | | | _ | | <u></u> | | | - | | | | - | | | | | | | | | | \dashv |
| 8 | | | | | | | | | | | | | | _ | | | | | | | | | | | 4 |
| 9 | | | | | | | | | | | | ļ | | | | | | | | | | | | | ╝ |
| 10 | - f | | | | | | | | | | | | | | | | | | | | | | | | |
| لسبيسا | oler's Name: | Gul | <u> </u> | <u> </u> | | | | china | uisherBy | / Affilia | tion | | <u></u> | Da | te | Time | | | A | ccepte | d By / A | Affiliation | Date, | Time | e] |
| | oler's Company: Stratus Environ | | Inc. | | | | May 11 | 1 | uisher By | CH. | × | e. | | | | 11456 | (T) | Mi | EN | | | MH | 11/6/0 | 111 | 4 |
| | ment Date: 1607 | | | | | | | | t o | | | | | 1 | | | | | | | | | | | |
| | ment Method: 54vr44 | | | | | | | | · | | | | | 1 | | | | | | | | | | | |
| | ment Tracking No: | | | | | | | | | | | | | | | | | | | | | | | | |
| Speci | al Instructions: | | Please | cc re | esults | s to bp | edf@broadbentin | ıc.C | om | | | | | | | | | | | | | | | | 1 |

Temp Blank: Yes / No | Cooler Temp on Receipt: 7. × °F(C) |

| Atl | ar | ıti | С | |
|-----------|-----|-------------|----|---|
| Atl Co | ich | 1 fi | e | d |
| Co | m | pa | an | y |

A BP affiliated company

Custody Seals In Place: Yes / No

ab Name: TestAmerica

ddress: 885 Jarvis Drive

Chain of Custody Record

CONCINE RUSH Project Name: ARCO Facility No. 2111

BP BU/AR Region/Enfos Segment:

State or Lead Regulatory Agency:

Temp Blank: Yes / No

BP > Americas > West > Retail > Alameda California Regional Water Quality Control Board

Requested Due Date (mm/dd/yy):

BP/AR Facility No.:

2111

BP/AR Facility Address: 1156 Davis St., San Leandro

24 hours for Effluent & STD for others

Stratus Environmental, Inc.

| On-site Time: 0490 | Temp: | |
|------------------------|------------|--|
| Off-site Time: Oli W | Temp: | |
| Sky Conditions: | | |
| Meteorological Events: | | |
| Wind Speed: | Direction: | |

3330 Cameron Park Drive, Suite 550

MS/MSD Sample Submitted: Yes / No

Consultant/Contractor:

Address:

| Address: 885 Jarvis Drive | BP/AR Facility Address: 1136 Davis St., Sail Lealidio | Address. 5556 Carreton 2 days | | | | |
|---|---|---|--|--|--|--|
| Iorgan Hill, CA 95937 | Site Lat/Long: | Cameron Park, CA 95682 | | | | |
| ab PM: Lisa Race | California Global ID No.: T0600101764 | Consultant/Contractor Project No.: E2111-03 | | | | |
| ele/Fax: 408-782-8156/ 408-782-6308 | Enfos Project No.: G0C28-0023 | Consultant/Contractor PM: Jay Johnson | | | | |
| P/AR PM Contact: Paul Supple | Provision or OOC (circle one) Provision | Tele/Fax: (530) 676-6000 / (530) 676-6005 | | | | |
| ddress: 2010 Crow Canyon Place, Suite 150 | Phase/WBS: 03-O&M | Report Type & QC Level: Level 1 with EDF | | | | |
| San Ramon, CA | Sub Phase/Task: 03-Analytical | E-mail EDD To: shayes@stratusinc.net | | | | |
| ele/Fax: 925-275-3506/925-275-3815 | Cost Element: Subcontractor Cost | Invoice to: Atlantic Richfield Co. | | | | |
| ab Bottle Order No: Matrix | Preservative Requested Ana | alysis Turnaround Time | | | | |
| Time Date Soil/Solid Water/Liquid Air | No. of Containers Unpreserved H ₂ SO ₄ HCI Methanol GRO by 8015 BTEX by 8260 MTBE by 8260 | Sample Point Lat/Long and Comments | | | | |
| 1 02111DPEAINF - 0550 147 x | 2 | X | | | | |
| 2 02111ASAEFF - 0553 \ x | | x | | | | |
| 3 02111ASYSINF - 0555 X | 2 | x | | | | |
| 4 02111AGAC1 - 0557 X | 2 x x x | x | | | | |
| 5 02111AEFF - 9559 X | Z | x | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| ampler's Name: (3hr15 1901) | Relinquished by / Affiliation Date Time | <u>, </u> | | | | |
| ampler's Company: Stratus Environmental, Inc. | Chops Sherre 11607 1145 | Juit N. / TAMH IV6/07 114 | | | | |
| nipment Date: | | | | | | |
| nipment Method: 57vills | | | | | | |
| | | | | | | |
| rease ce results to of | heartean og a a cum comi | | | | | |

— °F/C

Cooler Temp on Receipt:

Trip Blank: Yes / No





20 November, 2007

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

RE: ARCO #2111, San Leandro, CA Work Order: MQK0155

Enclosed are the results of analyses for samples received by the laboratory on 11/06/07 11:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race

Senior Project Manager

CA ELAP Certificate # 1210

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



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

Stratus Environmental Inc. [Arco]
Project: ARCO #2111, San Leandro, CA
MQK0155
3330 Cameron Park Dr., Suite 550
Project Number: G0C28-0023
Reported:
Project Manager: Jay Johnson
11/20/07 12:41

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|--------------|---------------|--------|----------------|----------------|
| 02111DPEAINF | MQK0155-01 | Vapor | 11/06/07 05:50 | 11/06/07 11:45 |
| 02111ASAEFF | MQK0155-02 | Vapor | 11/06/07 05:53 | 11/06/07 11:45 |
| 02111ASYSINF | MQK0155-03 | Vapor | 11/06/07 05:55 | 11/06/07 11:45 |
| 02111AGAC1 | MQK0155-04 | Vapor | 11/06/07 05:57 | 11/06/07 11:45 |
| 02111AEFF | MQK0155-05 | Vapor | 11/06/07 05:59 | 11/06/07 11:45 |

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





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023 Project Manager: Jay Johnson MQK0155 Reported: 11/20/07 12:41

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
|----------------------------------|------------------|--------------------|-------------|-----------|---------|----------|-------------------|----------------|------|
| 02111DPEAINF (MQK0155-01) Vapor | Sampled: 11/00 | 5/07 05:50 | Received: | 11/06/07 | 11:45 | | | | |
| Methyl tert-butyl ether | 80 | 0.50 | mg/m³ Air | 1 | 7K07010 | 11/07/07 | 11/07/07 15:54 | EPA 8260B | |
| Benzene | 8.3 | 0.50 | 0 | n | H | | 11 | a a | |
| Toluene | ND | 0.50 | # | H | II | ** | " | " | |
| Ethylbenzene | 18 | 0.50 | ** | " | " | H . | H | R | |
| Xylenes (total) | 18 | 0.50 | tf | " | | 11 | 11 | 11 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 114 % | 60-1: | 50 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 107 % | 55-13 | 30 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 113 % | 75-13 | 30 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 94 % | 75-12 | 20 | " | " | " | " | |
| Benzene | 2.6 | 0.16 | ppmv | " | и | н | 11 | II. | |
| Ethylbenzene | 4.0 | 0.12 | н | 11 | 11 | # | 11 | ** | |
| Methyl tert-butyl ether | 22 | 0.14 | II | ** | n | ** | " | н | |
| Toluene | ND | 0.13 | " | " | " | 11 | II |) I | |
| Xylenes (total) | 4.1 | 0.12 | II . | H | 11 | " | u | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 114% | 60-15 | 50 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 107 % | 55-13 | 80 | " | " | n | n . | |
| Surrogate: Dibromofluoromethane | | 113 % | 75-13 | 20 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 94 % | 75-12 | 20 | " | n | " | " | |
| 02111ASAEFF (MQK0155-02) Vapor | Sampled: 11/06/0 | 07 05:53 | Received: 1 | 1/06/07 1 | 1:45 | | | | |
| Methyl tert-butyl ether | 15 | 0.50 | mg/m³ Air | 1 | 7K07010 | 11/07/07 | 11/07/07 16:26 | EPA 8260B | |
| Benzene | ND | 0.50 | н | 11 | " | II | 10.20 | 11 | |
| Toluene | ND | 0.50 | 11 | 11 | II | " | ** | и | |
| Ethylbenzene | ND | 0.50 | H | # | 11 | 11 | н | U | |
| Xylenes (total) | ND | 0.50 | " | ** | u | 11 | II . | н | |
| Surrogate: 1,2-Dichloroethane-d4 | | 116% | 60-15 | 0 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 96 % | 55-13 | 0 | " | " | " | n | |
| Surrogate: Dibromofluoromethane | | 99 % | 75-13 | 0 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 96 % | 75-12 | | " | " | " | n . | |
| Benzene | ND | 0.16 | ppmv | 11 | | п | II . | n | |
| Ethylbenzene | ND | 0.12 | , h | n . | n | ** | 11 | n | |
| Methyl tert-butyl ether | 4.1 | 0.14 | II | # | п | | " | n . | |
| Γoluene | ND | 0.13 | ** | 0 | ** | 11 | и | н | |
| Xylenes (total) | ND | 0.12 | " | 11 | 11 | н | и | II. | |
| Surrogate: 1,2-Dichloroethane-d4 | | 116% | 60-15 | 0 | " | " | " | u . | |
| | | | | | | | | | |

TestAmerica - Morgan Hill, CA

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





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023 Project Manager: Jay Johnson MQK0155 Reported: 11/20/07 12:41

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | | Dilution | Batch | Prepared | Analyzed | Method | Note |
|----------------------------------|------------------|--------------------|--------------|-----------|---------|----------|-------------------|-----------|------|
| 02111ASAEFF (MQK0155-02) Vapor | Sampled: 11/06 | /07 05:53 | Received: | 11/06/07 | 11:45 | | | | |
| Surrogate: Dibromofluoromethane | | 99 % | 75-1 | 30 | 7K07010 | 11/07/07 | 11/07/07 16:26 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 96 % | 75-1 | 20 | " | " | " | n | |
| 02111ASYSINF (MQK0155-03) Vapor | Sampled: 11/0 | 6/07 05:55 | Received: | 11/06/07 | 11:45 | | | | |
| Methyl tert-butyl ether | 23 | 0.50 | mg/m³ Air | 1 | 7K07010 | 11/07/07 | 11/07/07 16:59 | EPA 8260B | |
| Benzene | 2.0 | 0.50 | н | п | " | н | 11 | н | |
| Toluene | ND | 0.50 | # | " | tf. | 11 | " | 11 | |
| Ethylbenzene | 4.0 | 0.50 | 11 | 11 | н | * | Ш | П | |
| Xylenes (total) | 5.3 | 0.50 | II . | " | " | 11 | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 60-1 | 50 | " | " | " | n | |
| Surrogate: 4-Bromofluorobenzene | | 85 % | 55-1 | 30 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 102 % | 75-1 | 30 | n | " | " | " | |
| Surrogate: Toluene-d8 | | 93 % | 75-1. | 20 | " | " | " | п | |
| Benzene | 0.64 | 0.16 | ppmv | 10 | 11 | # | 11 | п | |
| Ethylbenzene | 0.93 | 0.12 | | " | " | n | n | " | |
| Methyl tert-butyl ether | 6.4 | 0.14 | " | 11 | П | " | " | tt | |
| Гoluene | ND | 0.13 | H | ** | # | н | II | н | |
| Xylenes (total) | 1.2 | 0.12 | 11 | | n | 11 | | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 60-1. | 50 | " | " | " | n . | |
| Surrogate: 4-Bromofluorobenzene | | 85 % | 55-1. | 30 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 102 % | 75-1. | 30 | " | " | " | n | |
| Surrogate: Toluene-d8 | | 93 % | 75-12 | 20 | " | " | " | " | |
| 02111AGAC1 (MQK0155-04) Vapor S | Sampled: 11/06/0 | 7 05:57 F | Received: 11 | /06/07 11 | :45 | | | | |
| Methyl tert-butyl ether | ND | 0.50 | mg/m³ Air | 1 | 7K07010 | 11/07/07 | 11/07/07 17:32 | EPA 8260B | |
| Benzene | ND | 0.50 | n . | 11 | H | ** | 11 | п | |
| Toluene | ND | 0.50 | II | " | n | 91 | " | 11 | |
| Ethylbenzene | ND | 0.50 | ** | п | П | " | " | II | |
| (Yylenes (total) | ND | 0.50 | 11 | | н | ır . | | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 105 % | 60-15 | 50 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 72 % | 55-13 | 30 | " | " | " | n | |
| Surrogate: Dibromofluoromethane | | 98 % | 75-13 | 30 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 94 % | 75-12 | 20 | n . | " | " | " | |
| Benzene | ND | 0.16 | ppmv | II. | 11 | H | | н | |
| Ethylbenzene | ND | 0.12 | 11 | " | ** | 0 | #1 | н | |
| Aethyl tert-butyl ether | ND | 0.14 | # | - 11 | II. | н | n | n . | |

TestAmerica - Morgan Hill, CA

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





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023 Project Manager: Jay Johnson MQK0155 Reported: 11/20/07 12:41

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
|----------------------------------|-------------------|--------------------|--------------|-----------|---------|----------|-------------------|-----------|------|
| 02111AGAC1 (MQK0155-04) Vapor | Sampled: 11/06/0 | 07 05:57 I | Received: 1 | 1/06/07 1 | 1:45 | | | | |
| Toluene | ND | 0.13 | ppmv | 1 | 7K07010 | 11/07/07 | 11/07/07 17:32 | EPA 8260B | |
| Xylenes (total) | ND | 0.12 | " | | 11 | ŧI | | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 105 % | 60-1. | 50 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 72 % | 55-1. | 30 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 98 % | 75-1. | 30 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 94 % | 75-12 | 20 | " | " | " | " | |
| 02111AEFF (MQK0155-05) Vapor | Sampled: 11/06/07 | 05:59 Re | ceived: 11/0 | 6/07 11: | 45 | | | | |
| Methyl tert-butyl ether | ND | 0.50 | mg/m³ Air | 1 | 7K07010 | 11/06/07 | 11/07/07 12:03 | EPA 8260B | |
| Benzene | ND | 0.50 | ** | 11 | | 11 | " | tf. | |
| Toluene | ND | 0.50 | II | 11 | If . | 11 | ((| # | |
| Ethylbenzene | ND | 0.50 | " | n | #1 | u | H | • | |
| Xylenes (total) | ND | 0.50 | n | 11 | Ħ | | " | 0 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 130 % | 60-13 | 50 | " | " | n | n | |
| Surrogate: 4-Bromofluorobenzene | | 86 % | 55-13 | 30 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 125 % | 75-13 | 30 | n | " | " | " | |
| Surrogate: Toluene-d8 | | 86 % | 75-12 | 20 | " | " | " | " | |
| Benzene | ND | 0.16 | ppmv | II. | # | 11 | | ** | |
| Ethylbenzene | ND | 0.12 | Ħ | 0 | " | u | n | H | |
| Methyl tert-butyl ether | ND | 0.14 | 0 | 11 | II. | ff. | II . | 11 | i |
| Toluene | ND | 0.13 | " | 11 | ** | ** | # | 11 | |
| Xylenes (total) | ND | 0.12 | n | Ħ | n | IF | 11 | п | |
| Surrogate: 1,2-Dichloroethane-d4 | | 130 % | 60-15 | 0 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 86 % | 55-13 | 80 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 125 % | 75-13 | 20 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 86 % | 75-12 | 0 | " | " | " | " | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQK0155 Reported: 11/20/07 12:41

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

| | | Reporting | | | | | | , | |
|----------------------------------|------------------|------------|--------------|-----------|---------|----------|-------------------|---|------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
| 02111DPEAINF (MQK0155-01) Vapor | Sampled: 11/0 | 6/07 05:50 | Received: | 11/06/07 | 11:45 | | | | |
| Gasoline Range Organics (C4-C12) | 3600 | 500 | mg/m³ Air | 50 | 7K07002 | 11/07/07 | 11/07/07 13:03 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 99 % | 70-1. | 25 | " | " | и | " | |
| Gasoline Range Organics (C4-C12) | 1000 | 120 | ppmv | 50 | 11 | n | | II . | |
| Surrogate: 4-Bromofluorobenzene | | 99 % | 70-1. | 25 | " | " | " | " | |
| 02111ASAEFF (MQK0155-02) Vapor | Sampled: 11/06/ | 07 05:53 | Received: 1 | 1/06/07 | 11:45 | | | | |
| Gasoline Range Organics (C4-C12) | 13 | 10 | mg/m³ Air | 1 | 7K07002 | 11/07/07 | 11/07/07 13:42 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 95 % | 70-12 | 25 | " | n | " | " | |
| Gasoline Range Organics (C4-C12) | 3.7 | 2.4 | ppmv | 11 | " | " | п | и | |
| Surrogate: 4-Bromofluorobenzene | | 95 % | 70-12 | 25 | ıı . | " | " | H | |
| 02111ASYSINF (MQK0155-03) Vapor | Sampled: 11/06 | 5/07 05:55 | Received: | 11/06/07 | 11:45 | | | | |
| Gasoline Range Organics (C4-C12) | 1000 | 500 | mg/m³ Air | 50 | 7K07002 | 11/07/07 | 11/07/07 14:11 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 93 % | 70-12 | 25 | " | " | " | " | |
| Gasoline Range Organics (C4-C12) | 300 | 120 | ppmv | 50 | 11 | 11 | | 11 | |
| Surrogate: 4-Bromofluorobenzene | | 93 % | 70-12 | 25 | " | " | " | " | |
| 02111AGAC1 (MQK0155-04) Vapor S | Sampled: 11/06/0 | 7 05:57 R | Received: 11 | /06/07 11 | :45 | | | | |
| Gasoline Range Organics (C4-C12) | ND | 10 | mg/m³ Air | 1 | 7K07002 | 11/07/07 | 11/07/07 15:30 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 93 % | 70-12 | ?5 | " | " | " | " | |
| Gasoline Range Organics (C4-C12) | ND | 2.4 | ppmv | 11 | n | 11 | " | *** | |
| Surrogate: 4-Bromofluorobenzene | | 93 % | 70-12 | 25 | " | " | u | " | |
| 02111AEFF (MQK0155-05) Vapor Sai | mpled: 11/06/07 | 05:59 Rec | eived: 11/0 | 6/07 11:4 | 15 | | | | |
| Gasoline Range Organics (C4-C12) | ND | 10 | mg/m³ Air | 1 | 7K07002 | 11/07/07 | 11/07/07 08:14 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 93 % | 70-12 | 5 | n | " | " | " | |
| Gasoline Range Organics (C4-C12) | ND | 2.4 | ppmv | # | н | " | 11 | II . | |
| Surrogate: 4-Bromofluorobenzene | | 93 % | 70-12 | 5 | " | " | " | " | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQK0155 Reported: 11/20/07 12:41

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B - Quality Control TestAmerica - Morgan Hill, CA

| Methyl terl-butyl ether ND | Analyte | Result | Reporting Limit | | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|---|-------------|--------------------|-----------|----------------|------------------|------------|----------------|-----|--------------|-------|
| Methyl terr-butyl ether ND | Batch 7K07010 - EPA 5030B P/T / EPA | 8260B | | | | | | | | | |
| Methyl terr-butyl ether ND | Blank (7K07010-BLK1) | | | | Prepared & | & Analyze | :d: 11/07/ | 07 | | | |
| Senzene ND 0.16 ppmv | Methyl tert-butyl ether | ND | 0.50 | | | | | | | | |
| Toluene ND 0.50 " Sthylbenzene ND 0.50 " Sthylbenzene ND 0.50 " Sthylbenzene ND 0.50 " Sthylbenzene ND 0.14 " " Sthylbenzene ND 0.14 " " Sthylbenzene ND 0.14 " " Sthylbenzene ND 0.13 " " Sthylbenzene ND 0.15 " Sthylbenzene ND 0.15 " Sthylbenzene ND 0.15 " Sthylbenzene 0.526 ppmv 0.594 102 60-150 Sthylbenzene 0.594 ppmv 0.594 102 60-150 ptmv 0.594 102 0.595 0.594 102 0.595 0.594 102 0.595 0.594 102 0.595 0.594 102 0.595 0.594 102 0.595 0.594 102 0.595 0.594 102 0.595 0.594 102 0.595 0.594 102 0.595 0.594 102 0.595 0.594 102 0.595 0.594 102 0.595 0.594 0.594 0.594 0.595 0.594 | Benzene | ND | 0.16 | ppmv | | | | | | | |
| Ethylbenzene (Mal) ND 0.50 " Kylenes (total) ND 0.50 " Kylenes (total) ND 0.12 ppmv Methyl tert-buyl ether ND 0.14 " Foluene ND 0.13 " Kylenes (total) ND 0.13 " Kylenes (total) ND 0.12 " Kylenes (total) ND 0.13 " Kylenes (total) ND 0.13 " Kylenes (total) ND 0.13 " Kylenes (total) ND 0.13 " Kylenes (total) ND 0.13 " Kylenes (total) ND 0.13 " Kylenes (total) ND 0.13 " Kylenes (total) ND 0.13 " Kylenes (total) ND 0.13 " Kylenes (total) ND 0.13 " Kylenes (total) ND 0.13 " Kylenes (total) ND 0.13 " Kylenes (total) ND 0.13 " Kylenes (total) ND 0.14 " Kylenes (total) ND 0.14 " Kylenes (total) ND 0.14 " Kylenes (total) ND 0.15 " Kylenes (tota | Benzene | ND | 0.50 | mg/m³ Air | | | | | | | |
| ND 0.50 ND 0.12 Pprovide Here ND 0.14 " ND 0.15 Propose ND 0.15 Propose ND 0.15 Propose ND 0.16 ND 0.17 Propose ND 0.18 " ND 0.18 " ND 0.18 " ND 0.19 Propose ND 0.13 " ND 0.12 " ND 0.12 " ND 0.12 " ND 0.15 Propose ND P | Toluene | ND | | - | | | | | | | |
| Survey S | Ethylbenzene | ND | 0.50 | ш | | | | | | | |
| Note | Xylenes (total) | ND | 0.50 | н | | | | | | | |
| ND 0.13 " | Ethylbenzene | ND | 0.12 | ppmv | | | | | | | |
| No. 1.12 " Surrogate: 1,2-Dichloroethane-d4 | Methyl tert-butyl ether | ND | 0.14 | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | Toluene | ND | 0.13 | п | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 0.606 ppmv 0.594 102 60-150 surrogate: 4-Bromofluorobenzene 2.33 mg/m² Air 2.50 93 55-130 surrogate: 4-Bromofluorobenzene 0.326 ppmv 0.349 93 55-130 surrogate: Dibromofluoromethane 0.324 " 0.318 102 75-130 surrogate: Dibromofluoromethane 2.54 mg/m² Air 2.50 102 75-130 surrogate: Dibromofluoromethane 2.54 mg/m² Air 2.50 102 75-130 surrogate: Toluene-d8 0.609 ppmv 0.665 92 75-120 surrogate: Toluene-d8 0.50 mg/m² Air 10.0 107 80-130 senzene 11.2 0.50 mg/m² Air 10.0 107 80-130 senzene 11.2 0.50 mg/m² Air 10.0 112 75-120 surrogate: Toluene 10.9 0.50 " 10.0 112 75-120 surrogate: Toluene 10.9 0.50 " 10.0 114 80-125 surrogate: Toluene 10.9 0.50 " 10.0 114 80-125 surrogate: Toluene 2.90 0.13 " 2.66 109 80-120 surrogate: Toluene 2.90 0.13 " 2.66 109 80-120 surrogate: 1.2-Dichloroethane-d4 0.660 ppmv 0.594 111 80-125 surrogate: 1.2-Dichloroethane-d4 0.660 ppmv 0.594 111 80-125 surrogate: 1.2-Dichloroethane-d4 0.660 ppmv 0.594 111 60-150 surrogate: 1.2-Dichloroethane-d4 0.660 ppmv 0.594 111 60-150 surrogate: 4-Bromofluorobenzene 0.375 ppmv 0.349 107 55-130 surrogate: 4-Bromofluorobenzene 0.375 ppmv 0.349 107 55-130 surrogate: 4-Bromofluorobenzene 0.375 ppmv 0.349 107 55-130 surrogate: Dibromofluoromethane 2.49 mg/m² Air 2.50 100 75-130 | Xylenes (total) | ND | 0.12 | 11 | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | Surrogate: 1,2-Dichloroethane-d4 | 2.55 | | mg/m³ Air | 2.50 | | 102 | 60-150 | | | |
| Surrogate: 4-Bromofluorobenzene 0.326 ppmv 0.349 93 55-130 Surrogate: Dibromofluoromethane 0.324 " 0.318 102 75-130 Surrogate: Dibromofluoromethane 2.54 mg/m² Air 2.50 102 75-130 Surrogate: Toluene-d8 2.29 " 2.50 92 75-120 Surrogate: Toluene-d8 0.609 ppmv 0.665 92 75-120 Surrogate: Toluene-d8 0.609 ppmv 0.665 92 75-120 Surrogate: Toluene-d8 0.609 ppmv 0.665 92 75-120 Surrogate: Toluene-d8 0.609 ppmv 0.665 92 75-120 Surrogate: Toluene-d8 0.609 ppmv 0.665 92 75-120 Surrogate: Toluene-d8 0.609 ppmv 0.665 92 75-120 Surrogate: Toluene-d8 0.501 mg/m² Air 10.0 107 80-130 Surrogate: Dibromofluoromethane 0.554 11.0 Surrogate: Toluene-d8 0.609 ppmv 0.665 92 75-120 Surrogate: Toluene-d8 0.600 mg/m² Air 10.0 107 80-130 Surrogate: Toluene-d8 0.600 mg/m² Air 10.0 109 80-120 Surrogate: Toluene 0.500 mg/m² Air 10.0 112 75-120 Surrogate: Toluene 0.500 mg/m² Air 10.0 114 80-125 Surrogate: Toluene 0.500 mg/m² Air 10.0 114 80-125 Surrogate: Toluene 0.500 mg/m² Air 10.0 114 80-125 Surrogate: Toluene 0.500 mg/m² Air 10.0 114 80-125 Surrogate: Toluene 0.500 mg/m² Mg/m² Air 10.0 114 80-125 Surrogate: Toluene 0.500 mg/m² Mg/m² Air 10.0 114 80-125 Surrogate: Toluene 0.500 mg/m² Mg/m² | Surrogate: 1,2-Dichloroethane-d4 | 0.606 | | ppmv | 0.594 | | 102 | 60-150 | | | |
| Surrogate: Dibromofluoromethane 0.324 " 0.318 102 75-130 Surrogate: Dibromofluoromethane 2.54 mg/m³ Air 2.50 102 75-130 Surrogate: Toluene-d8 2.29 " 2.50 92 75-120 Surrogate: Toluene-d8 0.609 ppmv 0.665 92 75-120 Surrogate: Toluene-d8 0.609 ppmv 0.665 92 75-120 Surrogate: Toluene-d8 0.609 ppmv 0.665 92 75-120 Surrogate: Toluene-d8 0.609 ppmv 0.665 92 75-120 Surrogate: Toluene-d8 O.500 mg/m³ Air 10.0 107 80-130 Surrogate: Dibromofluoromethane 11.7 0.50 mg/m³ Air 10.0 107 80-130 Surrogate: Dibromofluoromethane 0.351 0.16 ppmv 0.314 112 75-120 Surrogate: Dibromofluoromethane 0.351 0.16 ppmv 0.50 mg/m³ Air 10.0 109 80-120 Surrogate: Dibromofluoromethane 0.333 0.50 mg/m³ Air 10.0 114 80-125 Surrogate: Dibromofluoromethane 0.360 ppmv 0.300 111 80-125 Surrogate: Dibromofluoromethane 0.375 ppmv 0.594 111 60-150 Surrogate: Dibromofluoromethane 0.375 ppmv 0.349 107 55-130 Surrogate: Dibromofluoromethane 0.375 ppmv 0.349 107 55-130 Surrogate: Dibromofluoromethane 0.375 ppmv 0.349 107 55-130 Surrogate: Dibromofluoromethane 0.49 mg/m³ Air 0.50 100 75-130 Surrogate: Dibromofluoromethane 0.49 mg/m² Air 0.50 100 75-130 Surrogate: Dibromofluoromethane 0.49 mg/m² Air 0.50 100 75-130 Surrogate: Dibromofluoromethane 0.49 mg/m² Air 0.50 100 75-130 Surrogate: Dibromofluoromethane 0.49 mg/m² Air 0.50 100 75-130 Surrogate: Dibromofluoromethane 0.49 mg/m² Air 0.50 100 75-130 Surrogate: Dibromofluoromethane 0.49 mg/m² Air 0.50 100 75-130 Surrogate: Dibromofluoromethane 0.49 mg/m² Air 0.50 100 75-130 Surrogate: Dibromofluoromethane 0.49 mg/m² Air 0.50 100 75-130 Surrogate: Dibromofluoromethane 0.49 mg/m² Air 0.50 100 75-130 Surrogate: Dibromofluoromethane 0.49 mg/m² Air 0.50 100 75-130 Surrogate: Dibromofluoromethane 0.49 mg/m² Air 0.50 100 75-130 Surrogate: Dibromofluoromethane 0.49 mg/m² Air 0.50 100 75-130 Surrogate: Dibromofluoromethane 0.49 mg/m² Air 0.50 100 75-130 Surrogate: Dibromofluoromethane 0.49 mg/m² Air 0.50 100 75-130 Surrogate: Dibromofluoromethane 0.49 mg/m² Air 0.50 100 75-130 Surrogate: Dibromofluoromethane 0.49 mg/m² | Surrogate: 4-Bromofluorobenzene | 2.33 | | mg/m³ Air | 2.50 | | 93 | 55-130 | | | |
| Surrogate: Dibromofluoromethane 2.54 mg/m³ Air 2.50 102 75-130 Surrogate: Toluene-d8 0.609 ppmv 0.665 92 75-120 Surrogate: Toluene-d8 0.609 ppmv 0.50 mg/m³ Air 10.0 107 80-130 Surrogate: Toluene 11.2 0.50 mg/m³ Air 10.0 112 75-120 Surrogate: Toluene 11.4 0.50 mg/m³ Air 10.0 114 80-125 Surrogate: Surrogate: Toluene 0.600 ppmv 0.50 111 80-125 Surrogate: Toluene 0.600 ppmv 0.50 111 80-125 Surrogate: Toluene-d4 0.600 ppmv 0.594 111 80-125 Surrogate: Toluene-d4 0.660 ppmv 0.594 111 60-150 Surrogate: Toluene-d8 0.600 ppmv 0.500 100 75-130 Surrogate: Toluene-d8 0.600 ppmv 0.500 100 75-130 Surrogate: Toluene- | Surrogate: 4-Bromofluorobenzene | 0.326 | | ppmv | 0.349 | | 93 | 55-130 | | | |
| Surrogate: Toluene-d8 2.29 " 2.50 92 75-120 | Surrogate: Dibromofluoromethane | 0.324 | | " | 0.318 | | 102 | 75-130 | | | |
| ## Analysis | Surrogate: Dibromofluoromethane | 2.54 | | mg/m³ Air | 2.50 | | 102 | 75-130 | | | |
| Aboratory Control Sample (7K07010-BS1) Methyl tert-butyl ether 10.7 0.50 Mg/m³ Air 10.0 107 80-130 80- | Surrogate: Toluene-d8 | 2.29 | | n n | 2.50 | | 92 | 75-120 | | | |
| Methyl tert-butyl ether 10.7 0.50 mg/m³ Air 10.0 107 80-130 Benzene 3.51 0.16 ppmv 3.14 112 75-120 Benzene 11.2 0.50 mg/m³ Air 10.0 112 75-120 Boluene 10.9 0.50 " 10.0 109 80-120 Ethylbenzene 11.4 0.50 " 10.0 114 80-125 Kylenes (total) 33.3 0.50 " 30.0 111 80-125 Ethylbenzene 2.62 0.12 ppmv 2.31 114 80-125 Methyl tert-butyl ether 2.99 0.14 " 2.78 107 80-130 Foluene 2.90 0.13 " 2.66 109 80-120 Kylenes (total) 7.67 0.12 " 6.92 111 80-125 Surrogate: 1,2-Dichloroethane-d4 0.660 ppmv 0.594 111 60-150 111 60-150 Surrogate: 4-Bromofluorobenzene 2.68 mg/m³ Air 2.50 107 55-130 107 55-130 Surrogate: 4-Bromofluorobenzene 0.375 ppmv 0.349 107 55-130 100 75-130 Surrogate: Dibromofluoromethane 2.49 mg/m³ Air 2.50 100 75-130 | Surrogate: Toluene-d8 | 0.609 | | ppmv | 0.665 | | 92 | 75-120 | | | |
| Methyl tert-butyl ether 10.7 0.50 mg/m³ Air 10.0 107 80-130 Benzene 3.51 0.16 ppmv 3.14 112 75-120 Benzene 11.2 0.50 mg/m³ Air 10.0 112 75-120 Boluene 10.9 0.50 " 10.0 109 80-120 Ethylbenzene 11.4 0.50 " 10.0 114 80-125 Kylenes (total) 33.3 0.50 " 30.0 111 80-125 Ethylbenzene 2.62 0.12 ppmv 2.31 114 80-125 Methyl tert-butyl ether 2.99 0.14 " 2.78 107 80-130 Foluene 2.90 0.13 " 2.66 109 80-120 Kylenes (total) 7.67 0.12 " 6.92 111 80-125 Surrogate: 1,2-Dichloroethane-d4 2.78 mg/m³ Air 2.50 111 60-150 Surrogate: 4-Bromofluorobenzene 2.68 mg/m³ Air 2.50 107 55-130 Surrogate: 4-Bromofluorobenzene 2.68 mg/m³ Air 2.50 107 55-130 Surrogate: 4-Bromofluorobenzene 0.375 ppmv 0.349 107 55-130 Surrogate: Dibromofluoromethane 2.49 mg/m³ Air 2.50 100 75-130 | Laboratory Control Sample (7K07010-BS1) | | | | Prepared & | & Analyze | d: 11/07/0 | 07 | | | |
| Serizene 11.2 0.50 mg/m³ Air 10.0 112 75-120 | Methyl tert-butyl ether | 10.7 | 0.50 | | | | | | | | |
| Toluene 10.9 0.50 " 10.0 109 80-120 114 80-125 11.4 0.50 " 10.0 114 80-125 125 125 125 125 125 125 125 125 125 | Benzene | 3.51 | 0.16 | ppmv | 3.14 | | 112 | 75-120 | | | |
| Sthylbenzene 11.4 0.50 " 10.0 114 80-125 (Sylenes (total) 33.3 0.50 " 30.0 111 80-125 (Sylenes (total) 33.3 0.50 " 30.0 111 80-125 (Sthylbenzene 2.62 0.12 ppmv 2.31 114 80-125 (Methyl tert-butyl ether 2.99 0.14 " 2.78 107 80-130 (Sylenes (total) 7.67 0.12 " 6.92 111 80-125 (Sylenes (total) 7.67 0.12 " 6.92 111 80-125 (Sylenes (total) 7.67 0.60 ppmv 0.594 111 60-150 (sylenes 4-Bromofluorobenzene 2.68 mg/m³ Air 2.50 107 55-130 (sylenes 4-Bromofluorobenzene 0.375 ppmv 0.349 107 55-130 (sylenes 4-Bromofluoromethane 2.49 mg/m³ Air 2.50 100 75-130 (sylenes 4-Bromofluoromethane 2.49 mg/m³ Air 2.50 | Benzene | 11.2 | 0.50 | mg/m³ Air | 10.0 | | 112 | 75-120 | | | |
| Explanation 33.3 0.50 " 30.0 111 80-125 Exhylbenzene 2.62 0.12 ppmv 2.31 114 80-125 Methyl tert-butyl ether 2.99 0.14 " 2.78 107 80-130 Foluene 2.90 0.13 " 2.66 109 80-120 Explenes (total) 7.67 0.12 " 6.92 111 80-125 **urrogate: 1,2-Dichloroethane-d4 2.78 mg/m³ Air 2.50 111 60-150 **urrogate: 1,2-Dichloroethane-d4 0.660 ppmv 0.594 111 60-150 **urrogate: 4-Bromofluorobenzene 2.68 mg/m³ Air 2.50 107 55-130 **urrogate: 4-Bromofluorobenzene 0.375 ppmv 0.349 107 55-130 **urrogate: Dibromofluoromethane 2.49 mg/m³ Air 2.50 100 75-130 | Toluene | 10.9 | 0.50 | " | 10.0 | | 109 | 80-120 | | | |
| Ethylbenzene 2.62 0.12 ppmv 2.31 114 80-125 Methyl tert-butyl ether 2.99 0.14 " 2.78 107 80-130 Foluene 2.90 0.13 " 2.66 109 80-120 Kylenes (total) 7.67 0.12 " 6.92 111 80-125 turrogate: 1,2-Dichloroethane-d4 2.78 mg/m³ Air 2.50 111 60-150 turrogate: 1,2-Dichloroethane-d4 0.660 ppmv 0.594 111 60-150 turrogate: 4-Bromofluorobenzene 2.68 mg/m³ Air 2.50 107 55-130 turrogate: 4-Bromofluorobenzene 0.375 ppmv 0.349 107 55-130 turrogate: Dibromofluoromethane 2.49 mg/m³ Air 2.50 100 75-130 | Ethylbenzene | 11.4 | 0.50 | II | 10.0 | | 114 | 80-125 | | | |
| Methyl tert-butyl ether 2.99 0.14 " 2.78 107 $80-130$ Foluene 2.90 0.13 " 2.66 109 $80-120$ Gylenes (total) 7.67 0.12 " 6.92 111 $80-125$ $aurrogate: 1,2-Dichloroethane-d4 2.78 mg/m^3 Air 2.50 111 60-150 aurrogate: 1,2-Dichloroethane-d4 0.660 ppmv 0.594 111 60-150 aurrogate: 4-Bromofluorobenzene 2.68 mg/m^3 Air 2.50 107 55-130 aurrogate: 4-Bromofluorobenzene 0.375 ppmv 0.349 107 55-130 aurrogate: Dibromofluoromethane 2.49 mg/m^3 Air 2.50 100 75-130 $ | Xylenes (total) | 33.3 | 0.50 | Ħ | 30.0 | | 111 | 80-125 | | | |
| Soluene 2.90 0.13 " 2.66 109 80-120 Sylenes (total) 7.67 0.12 " 6.92 111 80-125 surrogate: 1,2-Dichloroethane-d4 2.78 mg/m³ Air 2.50 111 60-150 surrogate: 1,2-Dichloroethane-d4 0.660 ppmv 0.594 111 60-150 surrogate: 4-Bromofluorobenzene 2.68 mg/m² Air 2.50 107 55-130 surrogate: 4-Bromofluorobenzene 0.375 ppmv 0.349 107 55-130 surrogate: Dibromofluoromethane 2.49 mg/m³ Air 2.50 100 75-130 | Ethylbenzene | 2.62 | 0.12 | ppmv | 2.31 | | 114 | 80-125 | | | |
| Cylenes (total) 7.67 0.12 " 6.92 111 80-125 uurogate: 1,2-Dichloroethane-d4 2.78 mg/m³ Air 2.50 111 60-150 uurogate: 1,2-Dichloroethane-d4 0.660 ppmv 0.594 111 60-150 uurogate: 4-Bromofluorobenzene 2.68 mg/m² Air 2.50 107 55-130 uurogate: 4-Bromofluorobenzene 0.375 ppmv 0.349 107 55-130 uurogate: Dibromofluoromethane 2.49 mg/m³ Air 2.50 100 75-130 | Methyl tert-butyl ether | 2.99 | 0.14 | Ш | 2.78 | | 107 | 80-130 | | | |
| turrogate: 1,2-Dichloroethane-d4 2.78 mg/m³ Air 2.50 111 60-150 turrogate: 1,2-Dichloroethane-d4 0.660 ppmv 0.594 111 60-150 turrogate: 4-Bromofluorobenzene 2.68 mg/m³ Air 2.50 107 55-130 turrogate: 4-Bromofluorobenzene 0.375 ppmv 0.349 107 55-130 turrogate: Dibromofluoromethane 2.49 mg/m³ Air 2.50 100 75-130 | Toluene | 2.90 | 0.13 | " | 2.66 | | 109 | 80-120 | | | |
| surrogate: 1,2-Dichloroethane-d4 0.660 ppmv 0.594 111 60-150 surrogate: 4-Bromofluorobenzene 2.68 mg/m³ Air 2.50 107 55-130 surrogate: 4-Bromofluorobenzene 0.375 ppmv 0.349 107 55-130 surrogate: Dibromofluoromethane 2.49 mg/m³ Air 2.50 100 75-130 | Xylenes (total) | 7.67 | 0.12 | n | 6.92 | | 111 | | | | |
| urrogate: 4-Bromofluorobenzene 2.68 $mg/m^3 Air$ 2.50 107 $55-130$ urrogate: 4-Bromofluorobenzene 0.375 $ppmv$ 0.349 107 $55-130$ urrogate: Dibromofluoromethane 2.49 $mg/m^3 Air$ 2.50 100 $75-130$ | Surrogate: 1,2-Dichloroethane-d4 | 2.78 | | mg/m³ Air | 2.50 | | 111 | 60-150 | | | |
| urrogate: 4-Bromofluorobenzene 0.375 ppmv 0.349 107 55-130 urrogate: Dibromofluoromethane 2.49 mg/m³ Air 2.50 100 75-130 | Surrogate: 1,2-Dichloroethane-d4 | 0.660 | | ppmv | 0.594 | | 111 | 60-150 | | | |
| urrogate: Dibromofluoromethane 2.49 mg/m³ Air 2.50 100 75-130 | Surrogate: 4-Bromofluorobenzene | 2.68 | | mg/m³ Air | 2.50 | | 107 | 55-130 | | | |
| | Surrogate: 4-Bromofluorobenzene | 0.375 | | ppmv | 0.349 | | 107 | 55-130 | | | |
| urrogate: Dibromofluoromethane 0.317 ppmv 0.318 100 75-130 | Surrogate: Dibromofluoromethane | 2.49 | | | 2.50 | | 100 | | | | |
| | Surrogate: Dibromofluoromethane | 0.317 | | ppmv | 0.318 | | 100 | 75-130 | | | |

TestAmerica - Morgan Hill, CA

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





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023 Project Manager: Jay Johnson

MQK0155 Reported: 11/20/07 12:41

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B - Quality Control TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|------------|--------------------|-----------|----------------|------------------|------------|----------------|-----|--------------|--------|
| Batch 7K07010 - EPA 5030B P/T | | | | | | | | | 2 | 1.0103 |
| Laboratory Control Sample (7K07010 | -BS1) | | | Prepared 6 | & Analyze | ed: 11/07/ | 07 | | | |
| Surrogate: Toluene-d8 | 2.41 | | mg/m³ Air | 2.50 | | 96 | 75-120 | | | |
| Surrogate: Toluene-d8 | 0.641 | | ppmv | 0.665 | | 96 | 75-120 | | | |
| Laboratory Control Sample Dup (7K) | 7010-BSD1) | | | Prepared 6 | & Analyze | ed: 11/07/ | 07 | | | |
| Methyl tert-butyl ether | 8.31 | 0.50 | mg/m³ Air | 10.0 | | 83 | 80-130 | 26 | 25 | BA |
| Benzene | 2.98 | 0.16 | ppmv | 3.14 | | 95 | 75-120 | 16 | 20 | |
| Benzene | 9.51 | 0.50 | mg/m³ Air | 10.0 | | 95 | 75-120 | 16 | 20 | |
| Toluene | 8.19 | 0.50 | н | 10.0 | | 82 | 80-120 | 29 | 25 | ВА |
| Ethylbenzene | 8.73 | 0.50 | n | 10.0 | | 87 | 80-125 | 26 | 20 | BA |
| Xylenes (total) | 26.7 | 0.50 | II | 30.0 | | 89 | 80-125 | 22 | 20 | BA |
| Ethylbenzene | 2.01 | 0.12 | ppmv | 2.31 | | 87 | 80-125 | 26 | 20 | BA |
| Methyl tert-butyl ether | 2.31 | 0.14 | 11 | 2.78 | | 83 | 80-130 | 26 | 25 | BA |
| Toluene | 2.18 | 0.13 | H . | 2.66 | | 82 | 80-120 | 29 | 25 | BA |
| Xylenes (total) | 6.17 | 0.12 | ** | 6.92 | | 89 | 80-125 | 22 | 20 | BA |
| Surrogate: 1,2-Dichloroethane-d4 | 2.61 | | mg/m³ Air | 2.50 | | 104 | 60-150 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.620 | | ppmv | 0.594 | | 104 | 60-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.305 | | " | 0.349 | | 87 | 55-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.18 | | mg/m³ Air | 2.50 | | 87 | 55-130 | | | |
| Surrogate: Dibromofluoromethane | 0.287 | | ppmv | 0.318 | | 90 | 75-130 | | | |
| Surrogate: Dibromofluoromethane | 2.25 | | mg/m³ Air | 2.50 | | 90 | 75-130 | | | |
| Surrogate: Toluene-d8 | 2.17 | | " | 2.50 | | 87 | 75-120 | | | |
| Surrogate: Toluene-d8 | 0.577 | | ppmv | 0.665 | | 87 | 75-120 | | | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023 Project Manager: Jay Johnson

MQK0155 Reported: 11/20/07 12:41

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

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--|-----------|-----------|-----------|------------|-----------|------------|--------|---|---|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 7K07002 - EPA 5030B [P/T] / EP | 4 8015B-Y | VOA | | | | | | *************************************** | | |
| Blank (7K07002-BLK1) | | | | Prepared | & Analyze | ed: 11/07/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | mg/m³ Air | | | | | | | |
| Gasoline Range Organics (C4-C12) | ND | 12 | ppmv | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 5.09 | | n | 5.59 | | 91 | 70-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 36.4 | | mg/m³ Air | 40.0 | | 91 | 70-125 | | | |
| Laboratory Control Sample (7K07002-BS1) | | | | Prepared a | & Analyze | ed: 11/07/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 61.4 | 12 | ppmv | 78.0 | | 79 | 60-120 | | *************************************** | |
| Gasoline Range Organics (C4-C12) | 216 | 50 | mg/m³ Air | 275 | | 7 9 | 60-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 38.1 | | # | 40.0 | | 95 | 70-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 5.33 | | ppmv | 5.59 | | 95 | 70-125 | | | |
| Laboratory Control Sample Dup (7K07002-E | SD1) | | | Prepared 6 | & Analyze | d: 11/07/0 | 07 | | | |
| Gasoline Range Organics (C4-C12) | 237 | 50 | mg/m³ Air | 275 | | 86 | 60-120 | 9 | 20 | |
| Gasoline Range Organics (C4-C12) | 67.4 | 12 | ppmv | 78.0 | | 86 | 60-120 | 9 | 20 | |
| Surrogate: 4-Bromofluorobenzene | 38.4 | | mg/m³ Air | 40.0 | | 96 | 70-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 5.36 | | ppmv | 5.59 | | 96 | 70-125 | | | |



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

MQK0155

Reported:

Stratus Environmental Inc. [Arco] Project: ARCO #2111, San Leandro, CA 3330 Cameron Park Dr., Suite 550 Project Number: G0C28-0023 Cameron Park CA, 95682 Project Manager: Jay Johnson 11/20/07 12:41

Notes and Definitions

DET Analyte DETECTED

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

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Atlantic Richfield

A BP affiliated company

Chain of Custody Record

RUSH

Project Name: ARCO Facility No. 2111

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

BP > Americas > West > Retail > Alameda California Regional Water Quality Control Board

Requested Due Date (nun/dd/yy):

24 hours for Effluent & STD for others

| | (sage A ora | |
|------------------------|-------------|---|
| On-site Time: 0470 | Тетр | _ |
| Off-site Time: Of H | Temp: | _ |
| Sky Conditions: | | |
| Meteorological Events: | - | |
| Wind Speed: | Direction: | |
| | | |

| ad justine: 1 esperinarica | BY/AJC PROTICE NO.: ZIII | Constitution Conflictor. Strates Constitutions in the |
|--|---|--|
| ddress: 885 Jarvis Drive | 8P/AR Facility Address: 1156 Davis St., San Leandro | Address: 3330 Cameron Park Drive, Suite 550 |
| forgan Hill, CA 95937 | Site Lat/Long: | Cameron Park, CA 95682 |
| ab PM: Lisa Race | California Global ID No.: T0600101764 | Consultant/Contractor Project No.: E2111-03 |
| ele/Fax: 408-782-8156/ 408-782-6308 | Enfos Project No.: G0C28-0023 | Consultant/Contractor PM: Jay Johnson |
| P/AR PM Contact: Paul Supple | Provision or OOC (circle one) Provision | Tele/Fex: (530) 676-6000 / (530) 676-6005 |
| ddress: 2010 Crow Canyon Place, Suite 150 | Pirase/WBS: 03-O&M | Report Type & QC Level . Level 1 with EDF |
| San Ramon, CA | Sub Phase/Task: 03-Analytical | E-mail EDD To: shayes@stratusinc.net |
| ele/Tax: 925-275-3506/925-275-3815 | Cost Element: Subcontractor Cost | Invoice to: Atlantic Richfield Co. |
| ab Dottle Order No: Matrix | Preservative Re | quested Analysis Turnaround Time |
| Time Time Date Doubled WaterfLiqpid | Tapocatory On Containers Unpresserved Hoso, Hoso, Hoso, Hoso, Hoso, GRoby 8015 | Sample Point LattLong and Comments Standard Comments |
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| 2 02111ASABFF . 0533 x | ου 2 x | x x x |
| 3 02111ASYSINF - 0555 × | 03 2 x | x x x |
| 4 02111AGAC1 - 7557 X | 03 2 × × | x x x |
| 5 02111AEFF - 9359 X | 0√ Z × | x x x |
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| 10 | | |
| ampler's Name: Chris Hill | Accimquisticity / Accillation D | rate Time Accepted By / Affiliation Date Time |
| ampler's Company: Stratus Environmental, Inc. | Chilled States W. | 07 1145 Julie N. / TAMH 11/5/07 116 |
| úpment Date: ///6/07 | | |
| ipment Method: 51vills | | |
| ipment Tracking No: | | |
| ceial Instructions: Please or results to b | pedf@broadbentinc,Com | |
| Control of the state of the sta | | |
| Custody Seals In Place: Yes / No Temp Blank: Yes | /100 Cooler Temp on Receipt: — T/C 1 | (rip Blank: Yes / No) MS/MSD Sample Submitted: Yes / No |

TEST AMERICA SAMPLE RECEIPT LOG

| CLIENT NAME: | ARCO ZI | 1 | | / — | | XVIII on one or | engarin menang | elangs maranahala | Samuel and the second s |
|----------------------------|--|---------------------------------------|--------------------|------------------------|--|-----------------|--|--|--|
| REC. BY (PRINT) | JULIE N. | | DATE REC'D AT LAB: | 11/6 | / <u>°</u> Z_ | _ | | For Regula | tory Purposes? |
| WORKORDER: | Makoist | · · · · · · · · · · · · · · · · · · · | TIME REC'D AT LAB: | | 45 | _ | | DRINE | ING WATER |
| | | | DATE LOGGED IN: | 1116 | [97 | _ | | WAST | E WATER |
| CIDCLE THE ADDR | | | | | | | | ✓ OTHE | R ДÏR |
| CIRCLE THE APPRO | OPRIATE RESPONSE | LAB | CLIENT (D | CONTAINER | PRESER | | SAMPLE | DATE | REMARKS: |
| 1 Control Cooks | | SAMPLE# | TENERI ID | DESCRIPTION | VATIVE | pH | _ | SAMPLED | CONDITION (ETC.) |
| Custody Seal(s) | Present / Absent | | | | | | | | |
| 2.0-: | Intact / Broken | | | | | | | | |
| 2. Chain-of-Custody | Present / Absent* | | | | | | | | 1 |
| 3. Traffic Reports or | <i>~</i> * | | | | | 7 | | | 101/ |
| Packing List | Present / Absent | | - | | | | | \ | \ |
| 4. Airbilt: | Airbill / Sticker | | | 1 | | | | _ \ @ | <i>y</i> |
| | Present / Abs@nt | | | | | | | * \ | <u> </u> |
| 5. Airbill #: | | | | | | | <u>-</u> | `` | : |
| 6. Sample Labels: | Present / Absent | | * | | | **** | | -/- | · · · · · · · · · · · · · · · · · · · |
| 7. Sample IDs: | Listed / Not Listed | · · · · · · · · · · · · · · · · · · · | | <u> </u> | | | | 40 | : |
| · | on Chain-of-Custody | | | <u> </u> | | | 6 | $\frac{\vee}{\cdot}$ | |
| 8. Sample Condition: | Intact / Broken* / | | | | | | N/AX | <u>. </u> | |
| | Leaking* | | | | | A) | 7 | | |
| 9. Does information on | | · | | | | 4 | | | : |
| traffic reports and s | ample labels | | | | <i>_</i> | \angle | | | |
| agree? | Yea / No* | | : | | - / | | | | |
| 10. Sample received withi | 7 (09) (10) | | | | | | | | |
| hold time? | (es)/ No* | | | | | | | , | |
| 11. Adequate sample volu | | | | | | | | | |
| received? | (eg/No* | | | ./ | | | | | |
| 12. Proper preservatives u | | | | | | | | | |
| 13. Trip Blank / Temp Blan | | | | | | | | | |
| (circle which, if yes) | | | | | | | | | |
| 14. Read Temp: | Yes / No* | | | | | | | | |
| | | | | | | | | | |
| Correction Factor: | | <u>l</u> | | • | | | | | |
| Corrected Temp: | | | | | | | - | | |
| is corrected temp. 0-6° | | | | | | | | | |
| **Exception (if any): Meta | ls / Perchlorate | / | | | | | | | |
| DFF on Ica or Problem | COC | | | | | | | | |
| | A STATE OF THE STA | ME CIDO | | gerowa in an anggyenia | Marana e e e e e e e e e e e e e e e e e e | (20 m) 10 m | 100 CO 10 | Merch Salvery | |

SAMPLERECEIPTLOG Ravision 9 (10/25/07) IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

Pege___of___





20 November, 2007

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

RE: ARCO #2111, San Leandro, CA Work Order: MQK0161

Enclosed are the results of analyses for samples received by the laboratory on 11/06/07 11:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race

Senior Project Manager

CA ELAP Certificate # 1210

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





Stratus Environmental Inc. [Arco]
Project: ARCO #2111, San Leandro, CA
MQK0161
3330 Cameron Park Dr., Suite 550
Project Number: G0C28-0023
Cameron Park CA, 95682
Project Manager: Jay Johnson
11/20/07 13:10

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|--------------|---------------|--------|----------------|----------------|
| 02111DPEWINF | MQK0161-01 | Water | 11/06/07 05:25 | 11/06/07 11:45 |
| 02111ASWINF | MQK0161-02 | Water | 11/06/07 05:21 | 11/06/07 11:45 |
| 02111ASWEFF | MQK0161-03 | Water | 11/06/07 05:19 | 11/06/07 11:45 |
| 02111WGAC1 | MQK0161-04 | Water | 11/06/07 05:17 | 11/06/07 11:45 |
| 02111WEFF | MQK0161-05 | Water | 11/06/07 05:14 | 11/06/07 11:45 |
| 02111MW2WINF | MQK0161-06 | Water | 11/06/07 05:23 | 11/06/07 11:45 |

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





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQK0161 Reported: 11/20/07 13:10

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|----------------|--------------------|----------|-------------|----------|----------|----------|--|-------|
| 02111DPEWINF (MQK0161-01) Water | Sampled: 11 | /06/07 05:25 | Receive | ed: 11/06/0 | 7 11:45 | | | CH THE COLUMN TO THE COLUMN TH | |
| Gasoline Range Organics (C4-C12) | 1100 | 500 | ug/l | 10 | 7K14002 | 11/14/07 | 11/14/07 | EPA 8015B-VOA | PV |
| Surrogate: 4-Bromofluorobenzene | | 98 % | 70- | -125 | " | ,, | " | u | |
| 02111ASWINF (MQK0161-02) Water | Sampled: 11/0 | 6/07 05:21 | Received | : 11/06/07 | 11:45 | | | | |
| Gasoline Range Organics (C4-C12) | 1100 | 500 | ug/l | 10 | 7K14002 | 11/14/07 | 11/14/07 | EPA 8015B-VOA | PV |
| Surrogate: 4-Bromofluorobenzene | | 99 % | 70- | -125 | " | " | " | " | |
| 02111ASWEFF (MQK0161-03) Water | Sampled: 11/0 | 6/07 05:19 | Received | l: 11/06/07 | 11:45 | | | | |
| Gasoline Range Organics (C4-C12) | 120 | 50 | ug/l | 1 | 7K14002 | 11/14/07 | 11/14/07 | EPA 8015B-VOA | PV |
| Surrogate: 4-Bromofluorobenzene | | 146 % | 70- | 125 | " | " | " | " | LH,AY |
| 02111WGAC1 (MQK0161-04) Water S | Sampled: 11/06 | 5/07 05:17 R | eceived: | 11/06/07 1 | 11:45 | | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | ug/l | 1 | 7K14002 | 11/14/07 | 11/14/07 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 94 % | 70- | 125 | " | " | " | " | |
| 02111WEFF (MQK0161-05) Water San | npled: 11/06/0 | 7 05:14 Rec | eived: 1 | 1/06/07 11: | :45 | | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | ug/l | 1 | 7K07003 | 11/07/07 | 11/07/07 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 94 % | 70- | 125 | " | " | п | " | |
| 02111MW2WINF (MQK0161-06) Water | Sampled: 11 | /06/07 05:23 | Receiv | ed: 11/06/0 | 07 11:45 | | | | |
| Gasoline Range Organics (C4-C12) | 1600 | 1000 | ug/l | 20 | 7K14002 | 11/14/07 | 11/14/07 | EPA 8015B-VOA | PV |
| Surrogate: 4-Bromofluorobenzene | | 98 % | 70- | 125 | " | " | " | " | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQK0161 Reported: 11/20/07 13:10

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|----------------|--------------------|-------------|-----------|---------|----------|----------|-----------|-------|
| 02111DPEWINF (MQK0161-01) Water | Sampled: 11/ | 06/07 05:25 | Received | : 11/06/0 | 7 11:45 | | | | |
| tert-Amyl methyl ether | 5.9 | 5.0 | ug/l | 10 | 7K12013 | 11/12/07 | 11/13/07 | EPA 8260B | |
| Benzene | 12 | 5.0 | " | " | 11 | 11 | II | n n | |
| tert-Butyl alcohol | 1100 | 200 | II . | | 49 | II . | " | 11 | |
| Di-isopropyl ether | ND | 5.0 | 11 | ** | ** | # | H | # | |
| Ethyl tert-butyl ether | ND | 5.0 | ** | " | D. | " | П | If . | |
| Ethylbenzene | 27 | 5.0 | II | 11 | 11 | 11 | ** | IJ | |
| Methyl tert-butyl ether | 870 | 5.0 | 11 | " | " | н | " | ** | |
| Toluene | ND | 5.0 | " | 11 | n | H | 11 | H | |
| Xylenes (total) | 39 | 5.0 | | II | ** | | | ¥1 | |
| Surrogate: Dibromofluoromethane | | 98 % | 75-1. | 30 | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 60-1. | 50 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 92 % | 75-12 | 20 | " | " | " | n | |
| Surrogate: 4-Bromofluorobenzene | | 88 % | 55-13 | 30 | " | " | " | " | |
| 02111ASWINF (MQK0161-02) Water | Sampled: 11/06 | 5/07 05:21 I | Received: 1 | 11/06/07 | 11:45 | | | | |
| tert-Amyl methyl ether | 6.9 | 5.0 | ug/l | 10 | 7K12013 | 11/12/07 | 11/13/07 | EPA 8260B | |
| Benzene | 20 | 5.0 | " | п | II . | н | II . | tt. | |
| tert-Butyl alcohol | 1300 | 200 | 11 | U | 11 | II . | 11 | II. | |
| Di-isopropyl ether | ND | 5.0 | II . | 41 | н | u | 11 | u | |
| Ethyl tert-butyl ether | ND | 5.0 | н | " | 11 | " | 11 | н | |
| Ethylbenzene | 20 | 5.0 | " | ** | II | 11 | 11 | II | |
| Methyl tert-butyl ether | 920 | 5.0 | n | н | ** | 41 | | " | |
| Toluene | ND | 5.0 | II . | ** | n | ** | * | ** | |
| Xylenes (total) | 24 | 5.0 | " | " | 11 | ji . | 11 | II . | |
| Surrogate: Dibromofluoromethane | | 96 % | 75-13 | 30 | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96 % | 60-15 | 50 | " | " | n | n | |
| Surrogate: Toluene-d8 | | 93 % | 75-12 | 20 | " | " | " | n . | |
| Surrogate: 4-Bromofluorobenzene | | 96 % | 55-13 | 30 | " | " | " | " | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQK0161 Reported: 11/20/07 13:10

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|-----------------|--------------------|-------------|-----------|---------|----------|----------|-----------|-------|
| 02111ASWEFF (MQK0161-03) Water | Sampled: 11/0 | 6/07 05:19 | Received: | 11/06/07 | 11:45 | | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | 1 | 7K12013 | 11/12/07 | 11/13/07 | EPA 8260B | |
| Benzene | ND | 0.50 | Н | n | II | 11 | " | н | |
| tert-Butyl alcohol | 1100 | 20 | n | н | н | 11 | 11 | H | |
| Di-isopropyl ether | ND | 0.50 | п | " | " | ** | 11 | " | |
| Ethyl tert-butyl ether | ND | 0.50 | н | 11 | II | 10 | " | u | |
| Ethylbenzene | ND | 0.50 | # | " | H | 11 | 11 | 11 | |
| Methyl tert-butyl ether | 93 | 0.50 | tt. | ** | " | 11 | 11 | n | |
| Toluene | ND | 0.50 | 11 | Ħ | " | H | n | 11 | |
| Xylenes (total) | ND | 0.50 | 11 | #1 | 11 | П | n | II . | |
| Surrogate: Dibromofluoromethane | | 96 % | 75-1. | 30 | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 106 % | 60-13 | 50 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 104 % | 75-12 | 20 | " | " | " | n . | |
| Surrogate: 4-Bromofluorobenzene | | 104 % | 55-13 | 30 | " | " | " | n | |
| 02111WGAC1 (MQK0161-04) Water | Sampled: 11/06/ | 07 05:17 | Received: 1 | 1/06/07 1 | 1:45 | | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | 1 | 7K12013 | 11/12/07 | 11/13/07 | EPA 8260B | |
| Benzene | ND | 0.50 | " | H | ** | н | н | н | |
| tert-Butyl alcohol | ND | 20 | " | 11 | 11 | н | " | n | |
| Di-isopropyl ether | ND | 0.50 | II | n. | D | H | " | ii . | |
| Ethyl tert-butyl ether | ND | 0.50 | 11 | H | ** | ** | n . | " | |
| Ethylbenzene | ND | 0.50 | n . | n | n | " | н | n | |
| Methyl tert-butyl ether | ND | 0.50 | U | 41 | II . | II | H | н | |
| Toluene | ND | 0.50 | ** | н | " | " | 11 | " | |
| Xylenes (total) | ND | 0.50 | n n | 11 | " | H | ** | И | |
| Surrogate: Dibromofluoromethane | | 98 % | 75-13 | 30 | n | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 105 % | 60-15 | 50 | " | n | " | n | |
| Surrogate: Toluene-d8 | | 97 % | 75-12 | 20 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 86 % | 55-13 | 80 | " | " | " | " | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQK0161 Reported: 11/20/07 13:10

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
|----------------------------------|------------------|--------------------|-----------|-------------|----------|----------|----------|-----------|------|
| 02111WEFF (MQK0161-05) Water S | Sampled: 11/06/0 | 7 05:14 Rec | eived: 11 | 1/06/07 11: | :45 | | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | 1 | 7K06011 | 11/06/07 | 11/06/07 | EPA 8260B | |
| Benzene | ND | 0.50 | ** | ** | 11 | H | 11 | п | |
| tert-Butyl alcohol | ND | 20 | " | " | u | II | " | n n | |
| Di-isopropyl ether | ND | 0.50 | n | 11 | u | n | n | n | |
| Ethyl tert-butyl ether | ND | 0.50 | D . | II | II | | n | n n | |
| Ethylbenzene | ND | 0.50 | ** | ** | # | " | Ħ | ti . | |
| Methyl tert-butyl ether | ND | 0.50 | | " | " | II | H | " | |
| Toluene | ND | 0.50 | " | n | " | #1 | " | | |
| Xylenes (total) | ND | 0.50 | Ш | П | II . | ** | II. | H | |
| Surrogate: Dibromofluoromethane | | 96 % | 75- | 130 | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99 % | 60- | 150 | n . | " | " | " | |
| Surrogate: Toluene-d8 | | 95 % | 75-1 | 120 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 95 % | 55-1 | 130 | " | " | " | " | |
| 02111MW2WINF (MQK0161-06) Wat | er Sampled: 11. | /06/07 05:23 | Receive | ed: 11/06/0 | 07 11:45 | | | | |
| tert-Amyl methyl ether | ND | 10 | ug/l | 20 | 7K13006 | 11/13/07 | 11/13/07 | EPA 8260B | |
| Benzene | 62 | 10 | п | II. | п | 11 | II . | 11 | |
| tert-Butyl alcohol | 2200 | 400 | " | " | # | 11 | # | ** | |
| Di-isopropyl ether | ND | 10 | | u | ** | | " | tt . | |
| Ethyl tert-butyl ether | ND | 10 | н | Ш | H H | H | II . | 11 | |
| Ethylbenzene | 38 | 10 | ** | ** | н | 11 | н | ** | |
| Methyl tert-butyl ether | 1300 | 10 | n | n | H | n | " | n | |
| Toluene | ND | 10 | н | II | II | n | 11 | 41 | |
| Xylenes (total) | 20 | 10 | " | 11 | 11 | 11 | 11 | и | |
| Surrogate: Dibromofluoromethane | | 108 % | 75-1 | 30 | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 60-1 | 50 | " | " | n | " | |
| Surrogate: Toluene-d8 | | 106 % | 75-1 | 20 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 104 % | 55-1 | 30 | " | " | " | " | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQK0161 Reported: 11/20/07 13:10

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|------------|--------------------|-------|----------------|------------------|------------|----------------|------|---------------------------------------|---|
| Batch 7K07003 - EPA 5030B [P/T] / | | | | 20.01 | | , viac | Dillitto | IG D | 1,711111 | 110105 |
| Blank (7K07003-BLK1) | | , 0.11 | | Prepared 6 | & Analyze | d: 11/07/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | ug/l | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 83.7 | | " | 80.0 | | 105 | 70-125 | | | |
| Laboratory Control Sample (7K07003-B | SS1) | | | Prepared 6 | & Analyze | d: 11/07/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 238 | 50 | ug/l | 275 | | 86 | 60-120 | | · · · · · · · · · · · · · · · · · · · | |
| Surrogate: 4-Bromofluorobenzene | 79.4 | | " | 80.0 | | 99 | 70-125 | | | |
| Matrix Spike (7K07003-MS1) | Source: M | IQJ1082-02 | | Prepared & | & Analyze | d: 11/07/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 289 | 50 | ug/l | 275 | 62.7 | 82 | 45-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 79.9 | | " | 80.0 | | 100 | 70-125 | | | |
| Matrix Spike Dup (7K07003-MSD1) | Source: M | QJ1082-02 | | Prepared & | & Analyze | d: 11/07/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 287 | 50 | ug/l | 275 | 62.7 | 82 | 45-135 | 0.6 | 20 | |
| Surrogate: 4-Bromofluorobenzene | 80.5 | | " | 80.0 | | 101 | 70-125 | | | |
| Batch 7K14002 - EPA 5030B [P/T] / | EPA 8015B- | VOA | | | | | | | | |
| Blank (7K14002-BLK1) | | | | Prepared & | & Analyze | d: 11/14/0 | 07 | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | ug/l | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 37.5 | | " | 40.0 | | 94 | 70-125 | | | |
| Laboratory Control Sample (7K14002-B | S1) | | | Prepared & | & Analyze | d: 11/14/0 |)7 | | | |
| Gasoline Range Organics (C4-C12) | 236 | 50 | ug/l | 275 | | 86 | 60-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 41.3 | | " | 40.0 | | 103 | 70-125 | | | *************************************** |
| Matrix Spike (7K14002-MS1) | Source: M | QK0119-01 | | Prepared & | & Analyze | d: 11/14/0 |)7 | | | |
| Gasoline Range Organics (C4-C12) | 243 | 50 | ug/l | 275 | ND | 89 | 45-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 41.0 | | " | 40.0 | | 102 | 70-125 | | | |



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

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

Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQK0161 Reported: 11/20/07 13:10

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

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

Batch 7K14002 - EPA 5030B [P/T] / EPA 8015B-VOA

| Matrix Spike Dup (7K14002-MSD1) | Source: MQK0119-01 Prepared & Analyzed: 11/14/07 | | | | | | /07 | | | |
|----------------------------------|--|----|------|------|----|-----|--------|---|----|--|
| Gasoline Range Organics (C4-C12) | 235 | 50 | ug/l | 275 | ND | 86 | 45-135 | 3 | 20 | |
| Surrogate: 4-Bromofluorobenzene | 41.1 | | " | 40.0 | | 103 | 70-125 | | | |





Project: ARCO #2111, San Leandro, CA

Spike

Source

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQK0161 Reported: 11/20/07 13:10

RPD

%REC

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

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|------------------------------------|-------------|-------|-------|------------|-----------|------------|--------|-----|-------|-------|
| Batch 7K06011 - EPA 5030B P/T | / EPA 8260B | | | | | | | | | |
| Blank (7K06011-BLK1) | | | | Prepared | & Analyze | ed: 11/06/ | 07 | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ** | | | | | | | |
| tert-Butyl alcohol | ND | 20 | н | | | | | | | |
| Di-isopropyl ether | ND | 0.50 | " | | | | | | | |
| Ethyl tert-butyl ether | ND | 0.50 | 11 | | | | | | | |
| Ethylbenzene | ND | 0.50 | 0 | | | | | | | |
| Methyl tert-butyl ether | ND | 0.50 | ** | | | | | | | |
| Toluene | ND | 0.50 | н | | | | | | | |
| Xylenes (total) | ND | 0.50 | ** | | | | | | | |
| Surrogate: Dibromofluoromethane | 2.26 | | " | 2.50 | | 90 | 75-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.32 | | " | 2.50 | | 93 | 60-150 | | | |
| Surrogate: Toluene-d8 | 2.38 | | " | 2.50 | | 95 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.33 | | " | 2.50 | | 93 | 55-130 | | | |
| Laboratory Control Sample (7K06011 | 1-BS1) | | | Prepared a | & Analyze | d: 11/06/0 |)7 | | | |
| tert-Amyl methyl ether | 10.5 | 0.50 | ug/l | 10.0 | | 105 | 75-125 | | | |
| Benzene | 10.2 | 0.50 | " | 10.0 | | 102 | 75-120 | | | |
| tert-Butyl alcohol | 212 | 20 | II . | 200 | | 106 | 80-120 | | | |
| Di-isopropyl ether | 9.97 | 0.50 | II . | 10.0 | | 100 | 70-130 | | | |
| Ethyl tert-butyl ether | 10.3 | 0.50 | *1 | 10.0 | | 103 | 75-130 | | | |
| Ethylbenzene | 10.6 | 0.50 | " | 10.0 | | 106 | 80-125 | | | |
| Methyl tert-butyl ether | 10.3 | 0.50 | n | 10.0 | | 103 | 80-130 | | | |
| Toluene | 10.7 | 0.50 | 0 | 10.0 | | 107 | 80-120 | | | |
| Xylenes (total) | 32.2 | 0.50 | " | 30.0 | | 107 | 80-125 | | | |
| Surrogate: Dibromofluoromethane | 2.48 | | " | 2.50 | | 99 | 75-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.31 | | " | 2.50 | | 92 | 60-150 | | | |
| Surrogate: Toluene-d8 | 2.52 | | " | 2.50 | | 101 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.50 | | " | 2.50 | | 100 | 55-130 | | | |
| | | | | | | | | | | |





Project: ARCO #2111, San Leandro, CA

Spike

Source

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQK0161 Reported: 11/20/07 13:10

RPD

%REC

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

| | | recporting | | Spike | Bource | | /OICEC | | KLD | |
|-----------------------------------|------------|------------|-------|------------|-----------|-------------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 7K06011 - EPA 5030B P/T / F | EPA 8260B | | | | | | | | | |
| Matrix Spike (7K06011-MS1) | Source: MC | QK0146-05 | | Prepared | & Analyze | ed: 11/06/ | 07 | | | |
| tert-Amyl methyl ether | 11.7 | 0.50 | ug/l | 10.0 | ND | 117 | 75-140 | | | |
| Benzene | 10.7 | 0.50 | II. | 10.0 | 0.110 | 106 | 80-120 | | | |
| tert-Butyl alcohol | 226 | 20 | ** | 200 | ND | 113 | 80-125 | | | |
| Di-isopropyl ether | 10.7 | 0.50 | H | 10.0 | ND | 107 | 75-135 | | | |
| Ethyl tert-butyl ether | 11.2 | 0.50 | п | 10.0 | ND | 112 | 80-135 | | | |
| Ethylbenzene | 10.6 | 0.50 | " | 10.0 | ND | 106 | 75-130 | | | |
| Methyl tert-butyl ether | 11.5 | 0.50 | H | 10.0 | 0.200 | 113 | 75-145 | | | |
| Toluene | 10.8 | 0.50 | п | 10.0 | ND | 108 | 80-125 | | | |
| Xylenes (total) | 32.8 | 0.50 | 11 | 30.0 | 0.340 | 108 | 75-125 | | | |
| Surrogate: Dibromofluoromethane | 2.57 | | " | 2.50 | | 103 | 75-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.34 | | " | 2.50 | | 94 | 60-150 | | | |
| Surrogate: Toluene-d8 | 2.56 | | n | 2.50 | | 102 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.49 | | " | 2.50 | | 100 | 55-130 | | | |
| Matrix Spike Dup (7K06011-MSD1) | Source: MQ | QK0146-05 | | Prepared a | & Analyze | ed: 11/06/0 | 07 | | | |
| tert-Amyl methyl ether | 11.9 | 0.50 | ug/l | 10.0 | ND | 119 | 75-140 | 2 | 25 | |
| Benzene | 10.8 | 0.50 | #1 | 10.0 | 0.110 | 107 | 80-120 | 1 | 20 | |
| tert-Butyl alcohol | 223 | 20 | " | 200 | ND | 112 | 80-125 | 0.9 | 25 | |
| Di-isopropyl ether | 11.1 | 0.50 | 11 | 10.0 | ND | 111 | 75-135 | 4 | 25 | |
| Ethyl tert-butyl ether | 11.5 | 0.50 | II . | 10.0 | ND | 115 | 80-135 | 2 | 25 | |
| Ethylbenzene | 10,6 | 0.50 | ** | 10.0 | ND | 106 | 75-130 | 0.2 | 20 | |
| Methyl tert-butyl ether | 11.7 | 0.50 | tt | 10.0 | 0.200 | 115 | 75-145 | 2 | 25 | |
| Гoluene | 10.7 | 0.50 | II | 10.0 | ND | 107 | 80-125 | 1 | 25 | |
| Xylenes (total) | 32.7 | 0.50 | " | 30.0 | 0.340 | 108 | 75-125 | 0.5 | 20 | |
| Surrogate: Dibromofluoromethane | 2.54 | | " | 2.50 | | 102 | 75-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.36 | | " | 2.50 | | 94 | 60-150 | | | |
| Surrogate: Toluene-d8 | 2.58 | | " | 2.50 | | 103 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.48 | | " | 2.50 | | 99 | 55-130 | | | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023 Project Manager: Jay Johnson

MQK0161 Reported: 11/20/07 13:10

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|--------------------|-------|----------------|------------------|------------|----------------|-----|--------------|-------|
| Batch 7K12013 - EPA 5030B P/T / EPA | 8260B | | | | | | | | | |
| Blank (7K12013-BLK1) | | | | Prepared a | & Analyze | d: 11/12/0 | 07 | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | 11 | | | | | | | |
| tert-Butyl alcohol | ND | 20 | # | | | | | | | |
| Di-isopropyl ether | ND | 0.50 | " | | | | | | | |
| Ethyl tert-butyl ether | ND | 0.50 | H . | | | | | | | |
| Ethylbenzene | ND | 0.50 | #1 | | | | | | | |
| Methyl tert-butyl ether | ND | 0.50 | n | | | | | | | |
| Toluene | ND | 0.50 | н | | | | | | | |
| Xylenes (total) | ND | 0.50 | п | | | | | | | |
| Surrogate: Dibromofluoromethane | 2.41 | | " | 2.50 | | 96 | 75-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.67 | | " | 2.50 | | 107 | 60-150 | | | |
| Surrogate: Toluene-d8 | 2.34 | | " | 2.50 | | 94 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.38 | | " | 2.50 | | 95 | 55-130 | | | |
| Laboratory Control Sample (7K12013-BS1) | | | | Prepared & | & Analyze | d: 11/12/0 |)7 | | | |
| tert-Amyl methyl ether | 9.42 | 0.50 | ug/l | 10.0 | | 94 | 75-125 | | | |
| Benzene | 10.1 | 0.50 | " | 10.0 | | 101 | 75-120 | | | |
| tert-Butyl alcohol | 171 | 20 | " | 200 | | 86 | 80-120 | | | |
| Di-isopropyl ether | 8.79 | 0.50 | н | 10.0 | | 88 | 70-130 | | | |
| Ethyl tert-butyl ether | 9.16 | 0.50 | ** | 10.0 | | 92 | 75-130 | | | |
| Ethylbenzene | 10.8 | 0.50 | 11 | 10.0 | | 108 | 80-125 | | | |
| Methyl tert-butyl ether | 9.36 | 0.50 | " | 10.0 | | 94 | 80-130 | | | |
| Toluene | 10.5 | 0.50 | H | 10.0 | | 105 | 80-120 | | | |
| Xylenes (total) | 28.0 | 0.50 | II | 30.0 | | 93 | 80-125 | | | |
| Surrogate: Dibromofluoromethane | 2.36 | | " | 2.50 | | 94 | 75-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.37 | | " | 2.50 | | 95 | 60-150 | | | |
| Surrogate: Toluene-d8 | 2.27 | | " | 2.50 | | 91 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.37 | | " | 2.50 | | 95 | 55-130 | | | |





Project: ARCO #2111, San Leandro, CA

Spike

Source

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQK0161 Reported: 11/20/07 13:10

RPD

%REC

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

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|-----------------------------------|-----------|------------|-------|-----------|----------|----------|------------|-----|-------|-------|
| Batch 7K12013 - EPA 5030B P/T / E | EPA 8260B | | | | | | | | | |
| Matrix Spike (7K12013-MS1) | Source: M | IQK0192-01 | | Prepared: | 11/12/07 | Analyzed | : 11/13/07 | | | |
| tert-Amyl methyl ether | 10.6 | 0.50 | ug/l | 10.0 | ND | 106 | 75-140 | | | |
| Benzene | 10.0 | 0.50 | II. | 10.0 | ND | 100 | 80-120 | | | |
| tert-Butyl alcohol | 193 | 20 | п | 200 | 2.87 | 95 | 80-125 | | | |
| Di-isopropyl ether | 9.31 | 0.50 | ** | 10.0 | ND | 93 | 75-135 | | | |
| Ethyl tert-butyl ether | 10.1 | 0.50 | ** | 10.0 | ND | 101 | 80-135 | | | |
| Ethylbenzene | 10.9 | 0.50 | Ħ | 10.0 | ND | 109 | 75-130 | | | |
| Methyl tert-butyl ether | 11.3 | 0.50 | п | 10.0 | 0.260 | 110 | 75-145 | | | |
| Toluene | 10.1 | 0.50 | 11 | 10.0 | ND | 101 | 80-125 | | | |
| Xylenes (total) | 29.5 | 0.50 | " | 30.0 | ND | 98 | 75-125 | | | |
| Surrogate: Dibromofluoromethane | 2.66 | | " | 2.50 | | 106 | 75-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.55 | | " | 2.50 | | 102 | 60-150 | | | |
| Surrogate: Toluene-d8 | 2.31 | | " | 2.50 | | 92 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.53 | | " | 2.50 | | 101 | 55-130 | | | |
| Matrix Spike Dup (7K12013-MSD1) | Source: M | QK0192-01 | | Prepared: | 11/12/07 | Analyzed | : 11/13/07 | | | |
| tert-Amyl methyl ether | 8.76 | 0.50 | ug/l | 10.0 | ND | 88 | 75-140 | 19 | 25 | |
| Benzene | 9.98 | 0.50 | 0 | 10.0 | ND | 100 | 80-120 | 0.6 | 20 | |
| tert-Butyl alcohol | 178 | 20 | # | 200 | 2.87 | 88 | 80-125 | 8 | 25 | |
| Di-isopropyl ether | 9.66 | 0.50 | " | 10.0 | ND | 97 | 75-135 | 4 | 25 | |
| Ethyl tert-butyl ether | 10.0 | 0.50 | II . | 10.0 | ND | 100 | 80-135 | 0.8 | 25 | |
| Ethylbenzene | 10.4 | 0.50 | ** | 10.0 | ND | 104 | 75-130 | 4 | 20 | |
| Methyl tert-butyl ether | 9.69 | 0.50 | | 10.0 | 0.260 | 94 | 75-145 | 15 | 25 | |
| Toluene | 9.40 | 0.50 | | 10.0 | ND | 94 | 80-125 | 7 | 25 | |
| Xylenes (total) | 31.2 | 0.50 | *1 | 30.0 | ND | 104 | 75-125 | 6 | 20 | |
| Surrogate: Dibromofluoromethane | 2.55 | | " | 2.50 | | 102 | 75-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.78 | | " | 2.50 | | 111 | 60-150 | | | |
| Surrogate: Toluene-d8 | 2.45 | | " | 2.50 | | 98 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.52 | | " | 2.50 | | 101 | 55-130 | | | |
| | | | | | | | | | | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQK0161 Reported: 11/20/07 13:10

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|--------------------|-------|----------------|------------------|-----------|----------------|-----|--------------|-------|
| Batch 7K13006 - EPA 5030B P/T / EPA 8 | 260B | | | | | | | | | |
| Blank (7K13006-BLK1) | | | | Prepared 6 | & Analyze | d: 11/13/ | 07 | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | п | | | | | | | |
| tert-Butyl alcohol | ND | 20 | ** | | | | | | | |
| Di-isopropyl ether | ND | 0.50 | ** | | | | | | | |
| Ethyl tert-butyl ether | ND | 0.50 | п | | | | | | | |
| Ethylbenzene | ND | 0.50 | ** | | | | | | | |
| Methyl tert-butyl ether | ND | 0.50 | Ħ | | | | | | | |
| Toluene | ND | 0.50 | п | | | | | | | |
| Xylenes (total) | ND | 0.50 | " | | | | | | | |
| Surrogate: Dibromofluoromethane | 2.54 | | " | 2.50 | **** | 102 | 75-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.95 | | " | 2.50 | | 118 | 60-150 | | | |
| Surrogate: Toluene-d8 | 2.87 | | " | 2.50 | | 115 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.37 | | " | 2.50 | | 95 | 55-130 | | | |
| Laboratory Control Sample (7K13006-BS1) | | | | Prepared & | & Analyze | d: 11/13/ | 07 | | | |
| tert-Amyl methyl ether | 9.60 | 0.50 | ug/l | 10.0 | | 96 | 75-125 | | | |
| Benzene | 9.65 | 0.50 | II . | 10.0 | | 96 | 75-120 | | | |
| tert-Butyl alcohol | 167 | 20 | ** | 200 | | 84 | 80-120 | | | |
| Di-isopropyl ether | 9.23 | 0.50 | H | 10.0 | | 92 | 70-130 | | | |
| Ethyl tert-butyl ether | 8.74 | 0.50 | 11 | 10.0 | | 87 | 75-130 | | | |
| Ethylbenzene | 9.40 | 0.50 | n | 10.0 | | 94 | 80-125 | | | |
| Methyl tert-butyl ether | 8.55 | 0.50 | " | 10.0 | | 86 | 80-130 | | | |
| Toluene | 9.59 | 0.50 | n | 10.0 | | 96 | 80-120 | | | |
| Xylenes (total) | 30.6 | 0.50 | Ш | 30.0 | | 102 | 80-125 | | | |
| Surrogate: Dibromofluoromethane | 2.38 | | " | 2.50 | | 95 | 75-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.35 | | " | 2.50 | | 94 | 60-150 | | | |
| Surrogate: Toluene-d8 | 2.41 | | " | 2.50 | | 96 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.14 | | " | 2.50 | | 86 | 55-130 | | | |





Project: ARCO #2111, San Leandro, CA

Spike

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQK0161 Reported: 11/20/07 13:10

RPD

%REC

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

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|-----------------------------------|------------|-----------|-------|----------|-----------|------------|--------|-----|---------------------------------------|--|
| Batch 7K13006 - EPA 5030B P/T / E | EPA 8260B | | | | | | | | | |
| Matrix Spike (7K13006-MS1) | Source: MC | QK0160-01 | | Prepared | & Analyz | ed: 11/13/ | 07 | | | |
| tert-Amyl methyl ether | 10.8 | 0.50 | ug/l | 10.0 | ND | 108 | 75-140 | | | |
| Benzene | 12.6 | 0.50 | ** | 10.0 | 4.55 | 81 | 80-120 | | | |
| tert-Butyl alcohol | 211 | 20 | н | 200 | 8.00 | 102 | 80-125 | | | |
| Di-isopropyl ether | 9.84 | 0.50 | 0 | 10.0 | ND | 98 | 75-135 | | | |
| Ethyl tert-butyl ether | 10.3 | 0.50 | ** | 10.0 | ND | 103 | 80-135 | | | |
| Ethylbenzene | 28.4 | 0.50 | n | 10.0 | 21.9 | 65 | 75-130 | | | LN,AY |
| Methyl tert-butyl ether | 123 | 0.50 | п | 10.0 | 102 | 205 | 75-145 | | | BE |
| Toluene | 11.0 | 0.50 | ** | 10.0 | 1.89 | 91 | 80-125 | | | |
| Xylenes (total) | 50.2 | 0.50 | u | 30.0 | 28.4 | 73 | 75-125 | | | LN,AY |
| Surrogate: Dibromofluoromethane | 2.28 | | " | 2.50 | | 91 | 75-130 | | | ************************************** |
| Surrogate: 1,2-Dichloroethane-d4 | 2.46 | | " | 2.50 | | 98 | 60-150 | | | |
| Surrogate: Toluene-d8 | 2.40 | | " | 2.50 | | 96 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.37 | | " | 2.50 | | 95 | 55-130 | | | |
| Matrix Spike Dup (7K13006-MSD1) | Source: MQ | QK0160-01 | | Prepared | & Analyze | ed: 11/13/ | 07 | | | |
| tert-Amyl methyl ether | 11.3 | 0.50 | ug/l | 10.0 | ND | 113 | 75-140 | 4 | 25 | |
| Benzene | 14.0 | 0.50 | " | 10.0 | 4.55 | 95 | 80-120 | 11 | 20 | |
| tert-Butyl alcohol | 213 | 20 | n . | 200 | 8.00 | 103 | 80-125 | 1 | 25 | |
| Di-isopropyl ether | 10.2 | 0.50 | II. | 10.0 | ND | 102 | 75-135 | 4 | 25 | |
| Ethyl tert-butyl ether | 9.96 | 0.50 | # | 10.0 | ND | 100 | 80-135 | 3 | 25 | |
| Ethylbenzene | 30.2 | 0.50 | " | 10.0 | 21.9 | 83 | 75-130 | 6 | 20 | |
| Methyl tert-butyl ether | 119 | 0.50 | ** | 10.0 | 102 | 167 | 75-145 | 3 | 25 | ВВ |
| Toluene | 10.9 | 0.50 | n | 10.0 | 1.89 | 90 | 80-125 | 0.7 | 25 | |
| Xylenes (total) | 55.4 | 0.50 | н | 30.0 | 28.4 | 90 | 75-125 | 10 | 20 | |
| Surrogate: Dibromofluoromethane | 2.59 | | " | 2.50 | | 104 | 75-130 | | · · · · · · · · · · · · · · · · · · · | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.36 | | " | 2.50 | | 94 | 60-150 | | | |
| Surrogate: Toluene-d8 | 2.66 | | " | 2.50 | | 106 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.80 | | " | 2.50 | | 112 | 55-130 | | | |
| | | | | | | | | | | |



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

Stratus Environmental Inc. [Arco] Project: ARCO #2111, San Leandro, CA MQK0161
3330 Cameron Park Dr., Suite 550 Project Number: G0C28-0023 Reported:
Cameron Park CA, 95682 Project Manager: Jay Johnson 11/20/07 13:10

Notes and Definitions

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

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

LH,AY Surrogate recovery above the acceptance limits. Matrix interference suspected.

BB Sample > 4x spike concentration

DET Analyte DETECTED

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

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Atlantic Richfield Company

A BP affiliated company

Chain of Custody Record

RUSH

Project Name:

ARCO Facility No. 2111

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

BP > Americas > West > Retail > Alameda

eucy: California Regional Water Quality Control Board

Requested Due Date (mm/dd/yy):

24 hours for Effluent & STD for others

| | Page_f_of_ | |
|------------------------|------------|---|
| In-site Time 1440 | Темър: | |
| M-site Time: 0630 | Темр: | |
| ky Conditions; | | |
| ieteorological Events: | | |
| /iud Speed: | Direction: | • |

| ao ivame: lestAmerica | | | | | BP/AR Facility I | | . 2111 | | | | | | | | | Consu | tent | Cont | ractor | - | Stratus E | avironin | ental, Inc. | | |
|-----------------------------------|----------------|---|---|--------|--------------------------|--------------|-------------|--|------------|-----------------|----------|----------------|--------------|---------------------|----------|----------|----------|----------|----------|---------------------|-------------|---|-------------------|-------------|----|
| ddress: 885 Jarvis Drive | | *** | | | BP/AR Facility / | Addr | ess: 1.156 | Davis S | t, Sa | n Lea | indro | | | | | Addre | SS: | 3 | 330 (| Came | eron Park I | ····· | | | |
| lorgan Hill, CA 95937 | | | | | Site Lat/Long: | | | | | | | | | | | | | | | | ark, CA 9 | | | | _ |
| ab PM: Lisa Race | | | | | California Globa | l ID | No.: | TO69 0 | 1017 | 64 | | | | | | Consu | tant/ | | | | ect No.; | E2111 | 1-03 | | |
| elc/Fax: 408-782-8156/408-782-6 | 5308 | | | **** | Enfos Project No |).; | G0C28- | 0023 | | | | | | | | Consuj | femi/ | Содь | ractor | PM: | | Jay Jo | hason | | _ |
| P/AR PM Confact: Faul Supple | | | | | Provision or OO | C (c | ircle oue) | | Pro | visio | n | | | | | Tele/F: | 9X: | (: | (0E | 676-ı | 6000 / (530 | J) 676- | 6005 | | |
| ddress: 2010 Crow Canyon Place, S | Suite 150 | | | | Pluse/WBS: | | 03-O&N | 4 | | | | | | | | Report | Тук | | | | • | | 1 with EDF | - | |
| San Ramon, CA | 7000 | | | | Sub Phase/Task: | | 03-Anal | ytical | | | | | | | — | | | | | | s@stratus | | <u> </u> | | |
| cle/Fax: 925-275-3506/925-275-3 | 1815 | | | | Cost Element: | | Subcont | ractor C | ost | | | | | | | nvoice | to: . | Atlan | tic Ri | chfie | ld Co. | | | - | |
| ab Bottle Order No: | |][· · · · · · · · · · · · · · · · · · · | Ma | trix | | 1 | 1 | Pres | EL VS | ive | | R | eque | sted A | nalys | is . | Tar | narq | F Squ | inc | | | | | |
| em Sample Description DPELINE | Time | Date | Soll/Solid Water/Liquid | Air | M&KO63 Laboratory No. | ∙₩ | 2 | H.SO4 | HNO | HCI | Mechanol | GRO by 2015 | BTEX by 8250 | 5-oxygenams by 8260 | | | 44-hours | Standard | | | Sem | ple Pais Com | i Li " pinastr | : and | |
| 1 02111DP KPI NE | · 15525 | 11/19 | ж | | Ol | 5 | | | | 1 | | x | · T | | | | ٦, | | _ | 1 | 5-охудел | ates rec | ouested ar | 2 | - |
| 2 02111ASWINF , | 054 | 1 | x | | 02 | 5 | | | ╁┈ | Ľ | | x | ┪ | + | \dashv | \dashv | +- | + | + | +- | | | TBE, TAI | | rđ |
| 2 00111 A CUMPEE | akit | ┃ ┈╋┈ | | | | K | | | | X. | - | - | ╁ | 1 | - | _ - | x | | 1 | | TBA, | | | | |
| | | | x | | 03 | 5 | | | <u> </u> | <i>y</i> | | × | × | x | | _ _ | K | (| <u> </u> | <u> </u> | _ | | | | j |
| 4 02111WGAC1 | · <i>(2517</i> | | Х | | 04 | 5 | Ĺ | | <u>L</u> . | $ \mathcal{X} $ | | x | . x | x | | i | X | ١ | | | | | | | |
| 5 02111WEFF | - 0514 | 1 / 1 | x | | QE | <i>5</i> ′ | ļ | | | X | | х | x | х | | ٦, | | \top | 1 | | 1 | | | | |
| 02111MW2WING | 1523 | | х | | OT. | 5 | | | | K | | T _x | x | x | \top | ┪ | l x | _ | ╁ | | | | | | |
| 7 | | / | | | | 1 | | ······································ | - | | | ╫┈ | Ť | 1- | - | | +^ | + | + | + | | | | | _ |
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|) | | | ├ ─ ├ ╼ | | · | Ш | | | | | | _ | L | | | | | | | | | | | | |
| 0 0 | 1. / | | <u> </u> | | | | <u>a</u> | | - | | | Ŀ | L | | | | - | | | | | | | | |
| | HILL | | | | 0/3 | Mijel | sish y Dy . | Affillag | A)01 | | | | ate | Time | | | | Ace | cpied l | <u></u> - Ву / Д | Hiliation | | Date | Tim | |
| mpler's Company: Stratus Enviro | onunental, | Inc. | | 4 | frull | L | | <u> 1/4</u> | ٦, | _ | 7 | IK | 37 | 146 | 3 | JW. | JE. | N. | 7- | T Ą ľ | VHF. | | 11/6/6 | | |
| ipment Method: 54444 | | | | | • | | | | | | T | | | | | | | | 1 | | | *************************************** | 1,4 | | 1 |
| proceed Tracking No: | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Instructions: | | Plance o | عائب سمت | | 4631 41 | | | - | | | | <u> </u> | | <u> </u> | ╨ | | | | | ******** | | | | | |
| | | redse c | r (csuits | to ope | df@broadbentin | <u>c.Cc</u> | m | - | | ···· | | | | | | | | | | | | | | | |
| ndy Seals In Place: Ye | s/No) ! | Tem | p Blank: | Vac / | 100 1 C1- | T- | | | ٠. | y ac- | <u> </u> | | | | | | | | | | | | | | |
| | | 1 0111 | P DIMIN | 1-01 | NO 1 COOLE | 4 46 | anp on R | eccipt: | 1. | 5_1 | (C) | T | rip I | Blank: | Yes | / No ` | ì | M | S/MS | SDS: | ample Sub | mitted: | Yes No |] | _ |

TEST AMERICA SAMPLE RECEIPT LOG

| A STATE OF THE PARTY OF THE PAR | (00) | | ANIE I WOA GAINF L | uuseille ja sõlimelust on vastiines | | Several and an | -/ | W. D. Miller open var over transporter | | | | | |
|--|---------------------------------|---|---------------------------------------|-------------------------------------|---------------|--|---------------------------------------|--|------------------|--|--|--|--|
| CLIENT NAME: | ARCO (ZIII) | | DATE REC'D AT LAB: | u /6 | /ºフ | | · · · · · · · · · · · · · · · · · · · | For Regula | tory Purposes? | | | | |
| REC. BY (PRINT) | JULIE N. | | TIME REC'D AT LAB: | tst | +5 | DRINKING WATER | | | | | | | |
| WORKORDER: | Makole | | DATE LOGGED IN: | 11/6/0 | フ | | | WASTE WATER | | | | | |
| | | | | - | | OTHER | | | | | | | |
| CIRCLE THE APPRO | PRIATE RESPONSE | LAB | | CONTAINED | Inneach | | | | | | | | |
| | | SAMPLE# | CLIENT (D | CONTAINER DESCRIPTION | VATRE | pH | SAMPLE | DATE | REMARKS: | | | | |
| 1. Custody Seal(s) | Present / Absent | | | DEBOM HOR | WHITE | | MATRIX | SAMPLEO | CONDITION (ETC.) | | | | |
| | Intact / Broken* | | | | | - | | | | | | | |
| 2. Chain-of-Custody | Present / Absent* | | | | | | ļ <u>-</u> | | | | | | |
| 3. Traffic Reports or | | | | | | ļ | | | 18/ | | | | |
| Packing List: | Present / Absen | | | | | | | | \/ | | | | |
| 4. Airbill: | Airbill / Sticker | | | | | | | _/.co | У | | | | |
| | Present / Absent | | | | | | | 11/ | <u> </u> | | | | |
| 5. Airbill # | | *************************************** | | | | | | | | | | | |
| 6. Sample Labels: | Present / Absent | - | 1 | | | | | /// | | | | | |
| 7. Sample IDs: | Listed / Not Listed | *·· · · · · · · · · · · · · · · · · · · | | | | | 4 | 45 | | | | | |
| | on Chain-of-Custody | | | | | | \$ 7.00 | `` | | | | | |
| 8. Sample Condition: | Intact / Broken* / | | | | • | 7 | 1 | | | | | | |
| | Leaking* | | | <u> </u> | | 5 | 7 - | | | | | | |
| 9. Does Information on | chain-of-custody, | | | | | 7 | | | | | | | |
| traffic reports and s | | | 3 | | / | _ | | | | | | | |
| agree? | Yea / No* | | | | \rightarrow | | | | 4474 | | | | |
| 0. Sample received within | | | · · · · · · · · · · · · · · · · · · · | | / | | | | | | | | |
| hold time? | √es// No* | | | | | | | | | | | | |
| Adequate sample volu | me | | | / | | | | | | | | | |
| received? | Yes / No* | | <u> </u> | / - | | | | - | | | | | |
| Proper preservatives u | sed? (resi/No* | - | | -/ 1 | | | | | | | | | |
| 3. Trip Blank / Temp Blan | k Received? | 74 | | | | | | | | | | | |
| (circle which, if yes) | Yes/No* | | | | | | | | | | | | |
| 4. Read Temp: | 8.80 | | | | | | | | | | | | |
| Correction Factor. | -1.00 | | | | | | | <u>}</u> | | | | | |
| Corrected Temp: | 7.8C | | | | | | | | - | | | | |
| Is corrected temp. 0-6" | C? Yes/No**) | | · · | | | | | | <u> </u> | | | | |
| Exception (if any): Metal | s / Perchlorate | | | | | | | | | | | | |
| DFF on ice or Problem | coc | 4 | | | | | | | | | | | |
| | Magazina and managing transport | eiden kalanta karanta | ED CONTACT PROJEC | T MANAGER A | ONE CANADA | E2980-0157-0 | N. (4.00 / 10.00 / 10.00) | 000.540.31 et | | | | | |

AMPLERECEIPTLOG Malan 9 (10/26/07)

Page of



January 8, 2008

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

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

General Information

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

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

On-Site Supplier Representatives: Chris Hill

Number of Site Visits: 2 (December 5 and 17, 2007)

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

Operational Status: Continuous operation

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

Variations from Scope of Work: The remediation systems were found non-functioning on December 5, 2007 due to high-water level alarm on the air stripper. The remediation systems were re-started momentarily on December 5, 2007 and shutdown after sampling, pending receipt of analytical results. Upon receipt of analytical results and compliance verification, the remediation systems were re-started on December 17, 2007.

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

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Kiran Nagaraju Staff Engineer Jay R. Johnson, P.G.

Project Manager

Project Manager

Attachments:

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

CC: Paul Supple, BP/ARCO

1156 Davis Street San Leandro, California Dual Phase Extraction and Air Stripper System



Date: Technician: Onsite Time: Weather Conditions: Offsite Time: Ambient Temperature: Equipment Manufacturer/Model# System Information System Status Upon Arrival: Operational Non-Operational System Status Upon Departure: Operational Non-Operational Electric Meter Reading: Hour Meter Reading: 12307 Totalizer Reading Prior to PID Calibration Date: Air Stripper: Totalizer Reading After Air 650720 Stripper:

| Field Measurements | | | | | | | |
|--------------------|--------------|--|------------------------------|-------------------------------------|---------------------------------|------------------|--|
| Parameter | | Influent (after blower, 2111DPEAINF) | Air Stripper (2111ASAEFF) | System Influent (2111ASYSINF) | Stack Air Flow (2111AEFF) | Comments | |
| Differential P | ressure, "wc | | 15 | | | | |
| Air Velocity, I | FPM | | 2121 | | | | |
| Pipe Diamete | er, inches | 3 | 4 | 4 | 3 | | |
| Air Flow Rate | e, cfm | | | 190 | | | |
| Applied Vacu | um, "wc | 20'HG | 630 | NA NA | NA | | |
| Temperature | , deg F | | 114 | 85 | | | |
| PID Readings | s, ppmv | 284 | 4 | 107 | 8 | PID for GAC-1: 🖰 | |
| | | | | | | | |
| | | | er Readings/I | Measurements | | | |
| Well ID | % Open | Applied Vac., "Hg | Total depth, feet bgs | Stinger Depth, feet bgs | | | |
| V-1 | 25 | 15 | | | | | |
| V-2 | スゲ | 19 | | | | | |
| V-3 | 25 | JY | | | | | |
| MW-1 | 100 | 17 | | | | | |
| MW-3 | 100 | 18 | | | | | |
| MW-7 | 100 | 17 | | | | | |
| muss | 100 / | 181 | | | | | |

Signature: Date: 12507

1156 Davis Street



| | | Sam | pling Inform | ation (monthly) | | |
|-----------------|-------------------------|--------------|--------------|-----------------|-------------|--|
| Sample ID | | Date & Time | | Sample ID | Date & Time | |
| 02111DPEAINF | 0536 | 12507 | 053/1 | 02111AGAC1 | 12507 0600 | |
| 02111ASAEFF | 0539 | 1 | 0539 | 02111AEFF | 1 0602 | |
| 02111ASYSINF | 05H1 |) | 1954 | | 10602 | |
| Analyses Requir | <u> </u> ed: GRO, BT | EX, and MTBE | | | | |

| Operation & Maintenance Notes |
|-------------------------------|
| |
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| |
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| |
| |

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

Date: 1250 7

1156 Davis Street

San Leandro, California Groundwater Treatment System



| Date: Onsite Time: Offsite Time: | 12-5-0 0500 | 7 | | | n: Conditions: emperature | CHILL | e e e e e e e e e e e e e e e e e e e | |
|--|---------------------------|--------------|-------------------------------|-------------------|---------------------------------|---------------------------------|---------------------------------------|---------|
| System Status I System Status A Transfer Pump: | | | Operation Operation Operation | nal 🔀 | · | | ank follow | b Routs |
| Transfer Pump If Effluent Flow To No. of Carbon Vo Lead Carbon Ve (psi): | talizer Readii essels: | ng: <u>(</u> | 7331 | 21 | | ater Charact by Field Instru | | J |
| Well ID MW-2 | Hour Meter | Reading | Totalize | er Reading | Total Depth | Pump Depth | | |
| | | Sam | pling Info | rmation | | | | |
| Sample 02111DPEWINF | : ID | Date 8 | Time | | ple ID | Date & Ti | | |
| 02111ASWINF | | (| 0349 | 02111MW2 | WINF | 12507 65 | ,35 | |
| 02111ASWEFF | | | 0547 | | | | | |
| 02111WGAC1 02111WEFF | | | 0545 0543 | | | | | |
| Lab Param | eters | Sampling F | requency | Sample | Location | Analytical Me | thod | |
| GRO, BTEX, & | 5-Oxys | Mont | hly | INF8 | EFF | EPA Method 82 | 260B | |
| Notes: | | | | | رينو سا | | | |
| Signature: | mulh | | Page | Date: e 1 of 1 | 1250 | | | |

1156 Davis Street San Leandro, California



| | | Dual Pha | se Extraction | and Air Strippe | er System | | ere are take | |
|---|-------------------------------|--|------------------------------|---|---------------------------------|--------------------|--------------|--------|
| Date: 12-17:09 Onsite Time: 0430 Offsite Time: 0620 Equipment Manufacturer/Model# | | | - | Technician: Weather Cond Ambient Temp | | CHIL Rain 50 | | |
| | | | System In | fa | | | | _ |
| Combana Ot 1 | | | | Iormation | | _ | _ > 4 | 4 |
| System Statu | ıs Upon Arrival | • | Operational | | Non-Operat | tional | Z Restur | Sil |
| System Statu | System Status Upon Departure: | | Operational | 又 | Non-Operat | ional | | |
| Electric Meter Reading: | | | | | | | | |
| Hour Meter R | leading: | 1546 | t | _ | | | | |
| Totalizer Reading Prior to Air Stripper: 2260 | | 73.2 | PID Calibratior | Date: | 2-17-0 | 7 | | |
| Totalizer Rea Stripper: | ding After Air | 6510 | 20 | _ | | | | |
| | | | Field Meas | urements | | | | ł [|
| Para | meter | Influent (after blower, 2111DPEAINF) | Air Stripper (2111ASAEFF) | System Influent (2111ASYSINF) | Stack Air Flow (2111AEFF) | Co | mments | |
| Differential Pr | essure, "wc | | 2517 | | | | | |
| Air Velocity, F | PM | | 1628 | | | | | |
| Pipe Diamete | r, inches | 3 | 4 | 4 | 3 | | | |
| Air Flow Rate | cfm | | | 200 | | | | |
| Applied Vacuι | ım, "wc | 22"H6 | 025 | NA | NA | | | |
| Temperature, | deg F | | 117 | 85 | | | | |
| PID Readings, ppmv | | 11 | 181 | 62 | PID for GA | PID for GAC-1: | | |
| | | Oth | er Poodings/ | Measurements | | | | |
| Well ID | % Open | Applied Vac., "Hg | Total depth, feet bgs | Stinger Depth, feet bgs | | | | |
| V-1 | 50 | 16 | | <u> </u> | | | | |
| V-2 | 50 | _ 17 | | | | | | |
| V-3 | 70 | 18 | 1 | 1 | | | | |

Signature:

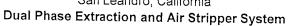
100

MW-1

MW-3 MW-7 MW8

Date: 12-17-09

1156 Davis Street San Leandro, California





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

| Operation & Maintenance Notes | |
|-------------------------------|-------------|
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| Lab Parameters | Sampling Frequency | Sample Location | Analytical Method | |
|----------------|--------------------|--|-------------------|--|
| GRO | Monthly | 02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF | EPA Method 8015 | |
| втех | Monthly | 02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF | EPA Method 8260B | |
| MTBE | Monthly | 02111DPEAINF, 02111ASAINF, 02111ASYSINF, 02111AGAC1, & 02111AEFF | EPA Method 8260B | |
| | | | | |
| | 101 | | | |

Signature:

Date: 12-17-07

1156 Davis Street

San Leandro, California **Groundwater Treatment System**



| Date: Onsite Time: Offsite Time: | 12-17- | 07 | | Techniciar Weather C Ambient T | | CHIL Kon 50 | L | |
|--|-----------------|------------|-----------------------|--------------------------------------|---------------|--|------|--|
| System Status | Upon Arrival: | | Operation | nal 🗵 | Non-operation | onal Resta | i¥ | |
| System Status | At Departure: | 区 | Operation | nal 🔲 | Non-operation | onal | | |
| Transfer Pump | o: | N. | Operation | nal | Non-operation | onal | | |
| Transfer Pump Hour Meter Reading: | | | | | | Effluent Water Characteristics (Quarterly by Field Instrument) | | |
| Effluent Flow Totalizer Reading: | | | // 1 | | рН: | | | |
| No. of Carbon | Vessels: | 2 | | _ | Temperature | : | | |
| Lead Carbon V (psi): | essel Pressure/ | 8 | | _ | | | | |
| Well ID | Hour Meter | Reading | Totalize | er Reading | Total Depth | Pump Depth | | |
| MW-2 | | | 397 | ĺ | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | Sam | pling Info | rmation | | | | |
| Samp | ole ID | Date 8 | Time | Sam | nple ID | Date & Ti | me | |
| 02111DPEWIN | IF | | | 02111MW2 | WINF | | | |
| 02111ASWINF | | | | | | | | |
| 02111ASWEFF | | | | | | | | |
| 02111WGAC1 | | | | | | | | |
| 02111WEFF | | | | i | | | | |
| Lab Para | ameters | Sampling F | requency | Sample | Location | Analytical Me | thod | |
| GRO, BTEX | (, & 5-Oxys | Mont | hly | INF8 | & EFF | EPA Method 8 | 260B | |
| | | | | | | | | |
| Notes: Flow At J Orcher UZOU | ines The Long & | oil fun N | enter et le ent | | | | y my | |
| Signature: / | The 1 | M | | Date: 4 | 12170 | > | | |

Atlantic Richfield Company

A BP affiliated company

Chain of Custody Record

RUSH

Project Name: ARCO Facility No. 2111

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda

State or Lead Regulatory Agency:

California Regional Water Quality Control Board

Requested Due Date (mm/dd/yy):

24 hours for Effluent & STD for others

| Pageo | t |
|-------|---|
| Тетр: | |
| Temp: | |
| | 1 |

| On-site Time: 0500 | Тетр: | |
|------------------------|------------|--|
| Off-site Time: (9(430) | Тетр: | |
| Sky Conditions: | | |
| Meteorological Events: | | |
| Wind Speed: | Direction: | |

| Lab Name: TestAmerica | BP/AR Facility No.: 2111 | Consultant/Contractor: Stratus Environmental, Inc. |
|---|---|--|
| Address: 885 Jarvis Drive | BP/AR Facility Address: 1156 Davis St., San Leandro | Address: 3330 Cameron Park Drive, Suite 550 |
| Morgan Hill, CA 95937 | Site Lat/Long: | Cameron Park, CA 95682 |
| Lab PM: Lisa Race | Camorina Grobal in 110 | Consultant/Contractor Project No.: E2111-03 |
| Tele/Fax: 408-782-8156/ 408-782-6308 | Enfos Project No.: G0C28-0023 | Consultant/Contractor PM: Jay Johnson |
| BP/AR PM Contact: Paul Supple | Provision or OOC (circle one) Provision | Tele/Fax: (530) 676-6000 / (530) 676-6005 |
| Address: 2010 Crow Canyon Place, Suite 150 | | Report Type & QC Level: Level 1 with EDF |
| San Ramon, CA | | E-mail EDD To: shayes@stratusinc.net |
| Tele/Fax: 925-275-3506/925-275-3815 | Cost Bioment. Successive Cost | Invoice to: Atlantic Richfield Co. |
| Lab Bottle Order No: Matrix | Preservative Requested Analy. | sis Turnaround Time |
| Item No. Date Description Time Water/Liquid Air | No. of Containers Unpreserved H2SO4 HCI Methanol GRO by 8015 BTEX by 8260 5-oxygenates by 8260 | Sample Point Lat/Long and Comments |
| 1 02111DP WINF 055 133 x | 3 2 2 2 2 | x 5-oxygenates requested are |
| mbell G | | MTBE, DIPE, ETBE, TAME, and |
| | | |
| 3 02111ASWEFF 0547 x | 3 X X X X | X |
| 4 02111WGAC1 0549 \ \ x | | |
| 5 02111WEFF 0543 / X | 3 | X |
| 6 02111MW2WINF 6555 X | 3 K X X X | X |
| | | |
| 8 | | |
| 9 | | |
| 10 1 (/ , | | |
| Sampler's Name: CWMG HILL | Reinquisted By / Affiliation Date Time | , Accepted By / Affiliation Date/ Time |
| Sampler's Company: Stratus Environmental, Inc. | 1250 Del 3744 1250 1034 | JULE N. / TAMH 12/5/07/1035 |
| Shipment Date: 2507 | | |
| Shipment Method: StuM | | |
| Shipment Tracking No: | | |
| Special Instructions: Please cc results to bp | edf@broadbentinc.Com | |
| Custody Seals In Place: Yes /No) Temp Blank: Yes | No Cooler Temp on Receipt: °F/C Trip Blank: Ye | es/No) MS/MSD Sample Submitted: Yes/No |

Atlantic Richfield Company

A BP affiliated company

Chain of Custody Record

Project Name:

ARCO Facility No. 2111

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

BP > Americas > West > Retail > Alameda

Requested Due Date (mm/dd/yy):

California Regional Water Quality Control Board 24 hours for Effluent

& STD for others

RUSH

Temp: Temp:

On-site Time: // E Off-site Time: Sky Conditions: Meteorological Events: Direction: Wind Speed: Consultant/Contractor: Stratus Environmental, Inc.

| Lab N | ame: TestAmerica | | | | | | BP/AR Facility No | | 2111 | | | | | | | | | Cons | | | | | | Stratus Environn | | |
|-------------|--------------------------------------|---|---------------------------------------|-------------|--------------|---|-------------------------|-------------------|---------------------------------------|--|------------------|----------|-----------|--------------|------------------------|----------------------|--------------|----------|-----------|-------------|----------|-------|--------|----------------------|---|------|
| | ss: 885 Jarvis Drive | | | | | | BP/AR Facility A | ddre | ss: 1156 I | Davis St. | , San | Lean | idro | | | | | Addr | ess: | | | | | on Park Drive, | Suite 550 | |
| | an Hill, CA 95937 | | | | | | Site Lat/Long: | | | | | | | | | | | . | | | | | | k, CA 95682 | ······································ | |
| <u>-</u> | M: Lisa Race | | | | | | California Global | ID N | lo.: | T06001 | 10176 | 4 | | | | | | | | | | | oject | | | |
| | Fax: 408-782-8156/408-782-6308 | 8 | | | | | Enfos Project No. | : | G0C28- | 0023 | | | | | | | | Cons | ultan | | | | | | ohnson | |
| | R PM Contact: Paul Supple | *************************************** | | | | | Provision or OOC | (cir | rcle one) | | Prov | ision | l | | | | | Tele/ | Fax: | | (530 |) 67 | 6-60 | 00 / (530) 676 | | |
| | ess: 2010 Crow Canyon Place, Suit | te 150 | | | | *************************************** | Phase/WBS: | | 03-O&N | 1 | | | | | | | | Repo | rt Ty | ре & | | | | | 1 with EDF | |
| | San Ramon, CA | | | ****** | | | Sub Phase/Task: | | 03-Anal | ytical | | | | | | | | E-ma | | | | | | <u>@stratusinc.n</u> | <u>et </u> | |
| Tele/I | Fax: 925-275-3506/925-275-381 | 5 | | | | | Cost Element: | | Subcont | ractor Co | ost | | | | | | | Invoi | | | | | | Co. | | |
| | Bottle Order No: | | | | Mat | rix | | | | Pres | ervat | ive | | | Requ | ieste | d Ana | lysis | Tı | ırnaı | ounc | 1 Tir | ne | | | |
| Item No. | Sample Description | Time | Date | Soil/Solid | Water/Liquid | Air | Laboratory No. | No. of Containers | res | H ₂ SO ₄ | HNO ₃ | HCI | Methanol | | GRO by 8015 | BTEX by 8260 | MTBE by 8260 | | 24-hours | Standard | | | | • | int Lat/Long a | and |
| 1 | 02111DPEAINF | 0536 | 125 | | | x | | 2 | J | | | | | | x | x | x | | | х | | | | | | |
| 2 | 02111ASAEFF | 0539 | | | | х | | 12 | | | | | | | х | х | x | | | х | | | | | | |
| | 02111ASYSINF | 5×11 | | | \Box | x | | Z | 1 | | | | | | х | х | х | | | х | | | | | | |
| | | Olecti | | | | х | | 2 | 11 | | | | | | х | х | х | | | х | | | | | | _ |
| l | 02111AGAC1 | | | - | | | | | 1 | | \vdash | | | | \mathbf{x} | x | x | | х | | - | | | | | |
| 5 | 02111AEFF | 7602 | //_ | $\ - \ $ | | х | | ∦2 | | | ┼ | - | \vdash | $-\parallel$ | $\stackrel{\wedge}{+}$ | $\stackrel{\sim}{+}$ | 1 | + | <u> </u> | _ | \dashv | | | | | |
| 6 | | | | | | | 1 | Д_ | ļ | | | ļ | | | | | _ | | <u> </u> | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 9 | | 1 | | \parallel | | _ | | 1 | 1 | | | | | | | | | | | | | | | | | |
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| 10 | oler's Name: Chris | 11. | } / | <u> </u> | <u> </u> | | | * | juisher B | v / A ffilio | ¥ion | 1 | <u></u> _ | | Dat | te | Time | ╁ | <u> </u> | <u></u> | \ccen | ted I | 3v / A | .ffiliation | Date | Time |
| ļ | | | · · · · · · · · · · · · · · · · · · · | | | | 12/1 | H | luisher D | Z 7 | 211 | 1 | | ᠆ | | | 103 | | 111 | <u>.</u> | | + | 1721 | | 12/5/0 | |
| | nent Date: (7,50) | nmentai, | inc. | | | | mill | | | 7/ | | | | | 071 | 4 | 10/ | | /00 | <u> </u> | <u> </u> | 1 | 1-4 | * *111 | | |
| ļ | | ^ | · | | | | | | | | | | | | | ╼╫ | | ╢ | | | | | | | | |
| | ment Method: Strutument Tracking No: | | | | ····· | | _ | | | | | | | | | ╌╢ | | | | | | | | | | |
| | al Instructions: | | Pleace | CC T | ecult | e to b | _lL pedf@broadbentii | nc C | om. | | | | | | | | | | | | | | | | | |
| Spec | at their actions: | | 1 ICase | CC IC | csuit | 3100 | peditigoroadociui | 10.0 | , , , , , , , , , , , , , , , , , , , | | | | | | | | | , | | | | | | | | |
| | Custody Seals In Place: Yes | :/(No) | Ter | np B | Blank | : Yes | //No Coo | ler I | Temp on | Receip | t: | - 0 | F/C | | Tr | ip E | Blank: | Yes // | No \ |) [| MS | S/M | SD S | Sample Submitt | ed: Yes/No | |
| | | \ / | <u> </u> | | | | | | | | | | | | | | | | \supset | | | | | RP C | OC Rev. 5 10/11/2 | 2006 |





14 December, 2007

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

RE: ARCO #2111, San Leandro, CA

Work Order: MQL0093

Enclosed are the results of analyses for samples received by the laboratory on 12/05/07 10:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race

Senior Project Manager

CA ELAP Certificate # 1210

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





| Stratus Environmental Inc. [Arco] | Project: | ARCO #2111, San Leandro, CA | MQL0093 |
|-----------------------------------|------------------|-----------------------------|----------------|
| 3330 Cameron Park Dr., Suite 550 | Project Number: | G0C28-0023 | Reported: |
| Cameron Park CA, 95682 | Project Manager: | Jay Johnson | 12/14/07 14:06 |

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|--------------|---------------|--------|----------------|----------------|
| 02111DPEAINF | MQL0093-01 | Vapor | 12/05/07 05:36 | 12/05/07 10:35 |
| 02111ASAEFF | MQL0093-02 | Vapor | 12/05/07 05:39 | 12/05/07 10:35 |
| 02111ASYSINF | MQL0093-03 | Vapor | 12/05/07 05:41 | 12/05/07 10:35 |
| 02111AGAC1 | MQL0093-04 | Vapor | 12/05/07 06:00 | 12/05/07 10:35 |
| 02111AEFF | MQL0093-05 | Vapor | 12/05/07 06:02 | 12/05/07 10:35 |

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





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQL0093 Reported: 12/14/07 14:06

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B TestAmerica Morgan Hill

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
|----------------------------------|----------------|--------------------|-------------|------------|---------|----------|-------------------|-----------|------|
| 02111DPEAINF (MQL0093-01) Vapor | Sampled: 12/0 | 5/07 05:36 | Received | : 12/05/07 | 10:35 | | | | |
| Methyl tert-butyl ether | 21 | 1.0 | mg/m³ Air | 2 | 7L07006 | 12/07/07 | 12/07/07 13:05 | EPA 8260B | |
| Benzene | 2.2 | 1.0 | П | 11 | II . | ** | * | II | |
| Toluene | ND | 1.0 | # | " | ** | " | H. | " | |
| Ethylbenzene | 1.4 | 1.0 | " | " | " | tt | II . | # | |
| Xylenes (total) | 1.4 | 1.0 | | " | II . | | | 0 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 60-1 | 50 | " | " | " | n | |
| Surrogate: 4-Bromofluorobenzene | | 100 % | 55-1 | 30 | " | n . | " | " | |
| Surrogate: Dibromofluoromethane | | 98 % | 75-1 | 30 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 102 % | 75-1 | 20 | " | " | " | " | |
| Benzene | 0.68 | 0.31 | ppmv | 2 | H | н | " | 11 | |
| Ethylbenzene | 0.32 | 0.23 | н | | #1 | ** | ** | n . | |
| Methyl tert-butyl ether | 5.9 | 0.28 | ** | | " | " | " | u | |
| Toluene | ND | 0.27 | и | " | Ħ | ш | II . | U | |
| Xylenes (total) | 0.33 | 0.23 | n | n | н | П | " | 11 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 60-1 | 50 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 100 % | 55-1 | 30 | " | " | n | " | |
| Surrogate: Dibromofluoromethane | | 98 % | 75-1 | 30 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 102 % | 75-1 | 20 | " | " | " | " | |
| 02111ASAEFF (MQL0093-02) Vapor | Sampled: 12/05 | 07 05:39 | Received: 1 | 12/05/07 1 | 0:35 | | | | |
| Methyl tert-butyl ether | ND | 0.50 | mg/m³ Air | 1 | 7L06004 | 12/06/07 | 12/06/07 14:08 | EPA 8260B | |
| Benzene | ND | 0.50 | tt | II | 11 | # | 0 | n . | |
| Гoluene | ND | 0.50 | П | н | " | " | 41 | II . | |
| Ethylbenzene | ND | 0.50 | " | " | ** | II. | ** | п | |
| Xylenes (total) | ND | 0.50 | 11 | 11 | 11 | 11 | н | # | |
| Surrogate: 1,2-Dichloroethane-d4 | | 107 % | 60-1 | 50 | " | " | n | " | |
| Surrogate: 4-Bromofluorobenzene | | 87 % | 55-1 | 30 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 102 % | 75-1 | 30 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 97% | 75-1 | 20 | " | " | " | " | |
| Benzene | ND | 0.16 | ppmv | # | " | 0 | 11 | n . | |
| Ethylbenzene | ND | 0.12 | " | " | tŧ | H . | н | н | |
| Methyl tert-butyl ether | ND | 0.14 | 11 | ** | и | ** | ** | # | |
| Toluene | ND | 0.13 | " | n | ** | н | 11 | " | |
| Kylenes (total) | ND | 0.12 | 11 | #1 | " | 11 |)) | 16 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 107 % | 60-1. | 50 | " | " | n | n . | |
| | | | | | | | | | |

TestAmerica Morgan Hill

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





Stratus Environmental Inc. [Arco] Project: ARCO #2111, San Leandro, CA MQL0093
3330 Cameron Park Dr., Suite 550 Project Number: G0C28-0023 Reported:
Cameron Park CA, 95682 Project Manager: Jay Johnson 12/14/07 14:06

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B TestAmerica Morgan Hill

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
|----------------------------------|------------------|--------------------|----------------|----------|---------|----------|-------------------|-----------|------|
| 02111ASAEFF (MQL0093-02) Vapor | Sampled: 12/05/ | 07 05:39 | Received: 12 | /05/07 1 | 10:35 | | | | |
| Surrogate: Dibromofluoromethane | | 102 % | 75-130 |) | 7L06004 | 12/06/07 | 12/06/07 14:08 | EPA 8260B | |
| Surrogate: Toluene-d8 | | 97 % | 75-120 |) | " | " | " | rr . | |
| 02111ASYSINF (MQL0093-03) Vapor | Sampled: 12/05 | /07 05:41 | Received: 1 | 2/05/07 | 10:35 | | | | |
| Methyl tert-butyl ether | 2.5 | 0.50 | mg/m³ Air | 1 | 7L07006 | 12/07/07 | 12/07/07 13:35 | EPA 8260B | |
| Benzene | ND | 0.50 | ** | 11 | п | n | н | 11 | |
| Toluene | ND | 0.50 | H | ** | U | n | 11 | " | |
| Ethylbenzene | 1.0 | 0.50 | " | ** | н | II | IF. | # | |
| Xylenes (total) | 1.2 | 0.50 | " | " | *** | 11 | 16 | ti . | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 60-150 |) | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 97 % | 55-130 |) | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 98 % | 75-130 |) | " | " | " | " | |
| Surrogate: Toluene-d8 | | 100 % | 75-120 |) | " | " | " | " | |
| Benzene | ND | 0.16 | ppmv | 11 | п | tt | II | H | |
| Ethylbenzene | 0.23 | 0.12 | | # | # | II | 11 | O . | |
| Methyl tert-butyl ether | 0.70 | 0.14 | и | " | " | U | " | 11 | |
| Toluene | ND | 0.13 | 11 | n | n | 11 | 11 | " | |
| Xylenes (total) | 0.28 | 0.12 | | II . | II . | 11 | II. | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 60-150 |) | " | н | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 97 % | 55-130 |) | " | n | " | " | |
| Surrogate: Dibromofluoromethane | | 98 % | 75-130 |) | " | " | " | " | |
| Surrogate: Toluene-d8 | | 100 % | 75-120 |) | n | " | n | " | |
| 02111AGAC1 (MQL0093-04) Vapor | Sampled: 12/05/0 | 7 06:00 R | Received: 12/0 |)5/07 10 |):35 | | | | |
| Methyl tert-butyl ether | ND | | mg/m³ Air | 1 | 7L06004 | 12/06/07 | 12/06/07 14:42 | EPA 8260B | |
| Benzene | ND | 0.50 | n | H | 11 | n n | 11 | п | |
| Toluene | ND | 0.50 | 11 | # | П | " | II | n | |
| Ethylbenzene | ND | 0.50 | " | | | n | | | |
| Xylenes (total) | ND | 0.50 | | | ** | II . | 11 | П | |
| Surrogate: 1,2-Dichloroethane-d4 | | 111% | 60-150 |) | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 92 % | 55-130 |) | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 100 % | 75-130 |) | " | " | " | " | |
| Surrogate: Toluene-d8 | | 102 % | 75-120 |) | " | " | " | " | |
| Benzene | ND | 0.16 | ppmv | 11 | 11 | ıı | #1 | 11 | |
| Ethylbenzene | ND | 0.12 | | II | ii | п | Ħ | н | |
| Methyl tert-butyl ether | ND | 0.14 | # | 11 | ** | n | н | H | |

TestAmerica Morgan Hill

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





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQL0093 Reported: 12/14/07 14:06

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B TestAmerica Morgan Hill

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|-------------------|--------------------|-------------|------------|-----------------|----------|-------------------|-----------|-------|
| 02111AGAC1 (MQL0093-04) Vapor | Sampled: 12/05/0 | 7 06:00 R | eceived: 12 | 2/05/07 10 |):35 | | | | |
| Toluene | ND | 0.13 | ppmv | 1 | 7L06004 | 12/06/07 | 12/06/07 14:42 | EPA 8260B | |
| Xylenes (total) | ND | 0.12 | И | n | " | D | П | # | |
| Surrogate: 1,2-Dichloroethane-d4 | | 111% | 60-1 | 50 | " | и | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 92 % | 55-1. | 30 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 100 % | 75-1 | 30 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 102 % | 75-1. | 20 | " | " | " | " | |
| 02111AEFF (MQL0093-05) Vapor | Sampled: 12/05/07 | 06:02 Rec | eived: 12/0 | 5/07 10:3 | 35 | | | | |
| Methyl tert-butyl ether | ND | 0.50 | mg/m³ Air | 1 | 7 L05010 | 12/05/07 | 12/05/07 18:02 | EPA 8260B | |
| Benzene | ND | 0.50 | 11 | H | 11 | *11 | " | н | |
| Toluene | ND | 0.50 | " | 41 | # | н | " | " | |
| Ethylbenzene | ND | 0.50 | " | 1) | " | Ħ | II | It | |
| Xylenes (total) | ND | 0.50 | ll . | " | " | 11 | li . | II . | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98 % | 60-1. | 50 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 80 % | 55-1. | 30 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 86 % | 75-1. | 30 | " | " | " | n | |
| Surrogate: Toluene-d8 | | 84 % | 75-1. | 20 | " | " | " | " | |
| Benzene | ND | 0.16 | ppmv | n | # | n | ** | H | |
| Ethylbenzene | ND | 0.12 | " | н | 11 | " | " | ** | |
| Methyl tert-butyl ether | ND | 0.14 | " | 11 | U | н | n | " | |
| Toluene | ND | 0.13 | II . | *** | ** | н | II | н | |
| Xylenes (total) | ND | 0.12 | 11 | " | " | 11 | | II | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98 % | 60-1. | 50 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 80 % | 55-1. | 30 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 86 % | 75-1. | 30 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 84 % | 75-12 | 20 | " | " | n | n | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQL0093 Reported: 12/14/07 14:06

Purgeable Hydrocarbons by EPA 8015B TestAmerica Morgan Hill

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
|----------------------------------|-----------------|--------------------|--------------|-----------|---------|----------|-------------------|---------------|------|
| 02111DPEAINF (MQL0093-01) Vapor | Sampled: 12/0 | 5/07 05:36 | Received: | 12/05/07 | 10:35 | | | | |
| Gasoline Range Organics (C4-C12) | 3000 | 500 | mg/m³ Air | 50 | 7L06003 | 12/06/07 | 12/06/07 18:07 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 101 % | 70-1. | 25 | " | " | " | " | |
| Gasoline Range Organics (C4-C12) | 850 | 120 | ppmv | 50 | r) | | " | II . | |
| Surrogate: 4-Bromofluorobenzene | | 101 % | 70-1. | 25 | " | " | " | n . | |
| 02111ASAEFF (MQL0093-02) Vapor | Sampled: 12/05 | /07 05:39 | Received: 1 | 2/05/07 | 10:35 | | | | |
| Gasoline Range Organics (C4-C12) | ND | 10 | mg/m³ Air | 1 | 7L06003 | 12/06/07 | 12/06/07 18:37 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 94 % | 70-12 | 25 | " | " | " | " | |
| Gasoline Range Organics (C4-C12) | ND | 2.4 | ppmv | 11 | # | II . | n | Ħ | |
| Surrogate: 4-Bromofluorobenzene | | 94 % | 70-12 | 25 | " | " | " | " | |
| 02111ASYSINF (MQL0093-03) Vapor | Sampled: 12/0 | 5/07 05:41 | Received: | 12/05/07 | 10:35 | | | | |
| Gasoline Range Organics (C4-C12) | 830 | 500 | mg/m³ Air | 50 | 7L06003 | 12/06/07 | 12/06/07 19:06 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 93 % | 70-12 | 25 | " | " | " | ıı . | |
| Gasoline Range Organics (C4-C12) | 240 | 120 | ppmv | 50 | n | H | ** | | |
| Surrogate: 4-Bromofluorobenzene | | 93 % | 70-12 | 25 | n . | " | " | " | |
| 02111AGAC1 (MQL0093-04) Vapor S | ampled: 12/05/0 | 07 06:00 R | Received: 12 | /05/07 10 |):35 | | | | |
| Gasoline Range Organics (C4-C12) | ND | 10 | mg/m³ Air | 1 | 7L06003 | 12/06/07 | 12/06/07 19:36 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 100 % | 70-12 | 25 | " | " | " | " | |
| Gasoline Range Organics (C4-C12) | ND | 2.4 | ppmv | ш | #1 | 10 | n | n | |
| Surrogate: 4-Bromofluorobenzene | | 100 % | 70-12 | 25 | " | " | п | " | |
| 02111AEFF (MQL0093-05) Vapor Sai | npled: 12/05/07 | 06:02 Red | ceived: 12/0 | 5/07 10:3 | 35 | | | | |
| Gasoline Range Organics (C4-C12) | ND | 10 | mg/m³ Air | 1 | 7L05020 | 12/05/07 | 12/05/07 16:45 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 95 % | 70-12 | 25 | " | " | " | " | |
| Gasoline Range Organics (C4-C12) | ND | 2.4 | ppmv | | " | " | н | *1 | |
| Surrogate: 4-Bromofluorobenzene | | 95 % | 70-12 | 25 | " | " | " | " | |





Project: ARCO #2111, San Leandro, CA

Spike

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQL0093 Reported: 12/14/07 14:06

RPD

%REC

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B - Quality Control TestAmerica Morgan Hill

Reporting

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|-------------------------------------|-----------|-------|-----------|------------|-----------|------------|--------|-----|-------|-------|
| Batch 7L05010 - EPA 5030B P/T / | EPA 8260B | | | | | | | | | |
| Blank (7L05010-BLK1) | | | | Prepared 6 | & Analyze | d: 12/05/ | 07 | | | |
| Methyl tert-butyl ether | ND | 0.50 | mg/m³ Air | | | | | | | |
| Benzene | ND | 0.16 | ppmv | | | | | | | |
| Benzene | ND | 0.50 | mg/m³ Air | | | | | | | |
| Toluene | ND | 0.50 | п | | | | | | | |
| Ethylbenzene | ND | 0.50 | " | | | | | | | |
| Xylenes (total) | ND | 0.50 | " | | | | | | | |
| Ethylbenzene | ND | 0.12 | ppmv | | | | | | | |
| Methyl tert-butyl ether | ND | 0.14 | 0 | | | | | | | |
| Toluene | ND | 0.13 | " | | | | | | | |
| Xylenes (total) | ND | 0.12 | " | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.37 | | mg/m³ Air | 2.50 | | 95 | 60-150 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.563 | | ppmv | 0.594 | | 95 | 60-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.310 | | " | 0.349 | | 89 | 55-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.22 | | mg/m³ Air | 2.50 | | 89 | 55-130 | | | |
| Surrogate: Dibromofluoromethane | 0.285 | | ppmv | 0.318 | | 90 | 75-130 | | | |
| Surrogate: Dibromofluoromethane | 2.24 | | mg/m³ Air | 2.50 | | 90 | 75-130 | | | |
| Surrogate: Toluene-d8 | 0.609 | | ppmv | 0.665 | | 92 | 75-120 | | | |
| Surrogate: Toluene-d8 | 2.29 | | mg/m³ Air | 2.50 | | 92 | 75-120 | | | |
| Laboratory Control Sample (7L05010- | BS1) | | | Prepared & | & Analyze | d: 12/05/0 |)7 | | | |
| Methyl tert-butyl ether | 9.58 | 0.50 | mg/m³ Air | 10.0 | | 96 | 80-130 | | | |
| Benzene | 3.04 | 0.16 | ppmv | 3.14 | | 97 | 75-120 | | | |
| Benzene | 9.70 | 0.50 | mg/m³ Air | 10.0 | | 97 | 75-120 | | | |
| Toluene | 9.65 | 0.50 | 41 | 10.0 | | 96 | 80-120 | | | |
| Ethylbenzene | 10.1 | 0.50 | n | 10.0 | | 101 | 80-125 | | | |
| Xylenes (total) | 30.4 | 0.50 | H | 30.0 | | 101 | 80-125 | | | |
| Ethylbenzene | 2.34 | 0.12 | ppmv | 2.31 | | 101 | 80-125 | | | |
| Methyl tert-butyl ether | 2.66 | 0.14 | 11 | 2.78 | | 96 | 80-130 | | | |
| Toluene | 2.57 | 0.13 | n | 2.66 | | 96 | 80-120 | | | |
| Xylenes (total) | 7.02 | 0.12 | u | 6.92 | | 101 | 80-125 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.27 | | mg/m³ Air | 2.50 | | 91 | 60-150 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.539 | | ppmv | 0.594 | | 91 | 60-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.335 | | " | 0.349 | | 96 | 55-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 2,40 | | mg/m³ Air | 2.50 | | 96 | 55-130 | | | |
| Surrogate: Dibromofluoromethane | 0.293 | | ррти | 0.318 | | 92 | 75-130 | | | |
| Surrogate: Dibromofluoromethane | 2.30 | | mg/m³ Air | 2.50 | | 92 | 75-130 | | | |

TestAmerica Morgan Hill

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



RPD

%REC



Stratus Environmental Inc. [Arco] Project: ARCO #2111, San Leandro, CA MQL0093 3330 Cameron Park Dr., Suite 550 Project Number: G0C28-0023 Reported: Project Manager: Jay Johnson Cameron Park CA, 95682 12/14/07 14:06

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B - Quality Control TestAmerica Morgan Hill

Spike

Reporting

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|------------------------------------|------------|-------|-----------|------------|-----------|------------|--------|-----|-------|-------|
| Batch 7L05010 - EPA 5030B P/T / | EPA 8260B | | | | | | | | | |
| Laboratory Control Sample (7L05010 | -BS1) | | | Prepared | & Analyze | d: 12/05/ | 07 | | | |
| Surrogate: Toluene-d8 | 0.622 | | рртч | 0.665 | | 94 | 75-120 | | | |
| Surrogate: Toluene-d8 | 2.34 | | mg/m³ Air | 2.50 | | 94 | 75-120 | | | |
| Laboratory Control Sample Dup (7L0 | 5010-BSD1) | | | Prepared a | & Analyze | d: 12/05/ | 07 | | | |
| Methyl tert-butyl ether | 9.73 | 0.50 | mg/m³ Air | 10.0 | | 97 | 80-130 | 2 | 25 | |
| Benzene | 3.07 | 0.16 | ppmv | 3.14 | | 98 | 75-120 | 0.8 | 20 | |
| Benzene | 9.78 | 0.50 | mg/m³ Air | 10.0 | | 98 | 75-120 | 0.8 | 20 | |
| Toluene | 9.46 | 0.50 | " | 10.0 | | 95 | 80-120 | 2 | 25 | |
| Ethylbenzene | 9.98 | 0.50 | " | 10.0 | | 100 | 80-125 | 2 | 20 | |
| Xylenes (total) | 30.1 | 0.50 | ŧ | 30.0 | | 100 | 80-125 | 1 | 20 | |
| Ethylbenzene | 2.30 | 0.12 | ppmv | 2.31 | | 100 | 80-125 | 2 | 20 | |
| Methyl tert-butyl ether | 2.70 | 0.14 | " | 2.78 | | 97 | 80-130 | 2 | 25 | |
| Toluene | 2.52 | 0.13 | " | 2.66 | | 95 | 80-120 | 2 | 25 | |
| Xylenes (total) | 6.94 | 0.12 | n | 6.92 | | 100 | 80-125 | 1 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.34 | | mg/m³ Air | 2.50 | | 94 | 60-150 | - | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.556 | | ppmv | 0.594 | | 94 | 60-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.330 | | " | 0.349 | | 94 | 55-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.36 | | mg/m³ Air | 2.50 | | 94 | 55-130 | | | |
| Surrogate: Dibromofluoromethane | 0.298 | | ppmv | 0.318 | | 94 | 75-130 | | | |
| Surrogate: Dibromofluoromethane | 2.34 | | mg/m³ Air | 2.50 | | 94 | 75-130 | | | |
| Surrogate: Toluene-d8 | 0.606 | | ppmv | 0.665 | | 91 | 75-120 | | | |
| Surrogate: Toluene-d8 | 2.28 | | mg/m³ Air | 2.50 | | 91 | 75-120 | | | |
| Batch 7L06004 - EPA 5030B P/T / | EPA 8260B | | | | | | | | | |
| Blank (7L06004-BLK1) | | | | Prepared & | & Analyze | d: 12/06/0 |)7 | | | |
| Methyl tert-butyl ether | ND | 0.50 | mg/m³ Air | | | | | | | |
| Benzene | ND | 0.16 | ppmv | | | | | | | |
| Benzene | ND | 0.50 | mg/m³ Air | | | | | | | |
| Toluene | ND | 0.50 | 11 | | | | | | | |
| Ethylbenzene | ND | 0.50 | H | | | | | | | |
| Xylenes (total) | ND | 0.50 | u | | | | | | | |
| Ethylbenzene | ND | 0.12 | ppmv | | | | | | | |
| Methyl tert-butyl ether | ND | 0.14 | łi . | | | | | | | |
| Toluene | ND | 0.13 | Ħ | | | | | | | |
| Xylenes (total) | ND | 0.12 | " | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.41 | | mg/m³ Air | 2.50 | | 96 | 60-150 | | | |

TestAmerica Morgan Hill

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





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQL0093 Reported: 12/14/07 14:06

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B - Quality Control TestAmerica Morgan Hill

| | | Reporting | | Spike | Source | | %REC | | RPD | Ī |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

| 8260B | | | | | |
|-------|--|---|---|---|------------------------------------|
| | | | Prepared & . | Analyzed: 12/06/ | 07 |
| 0.572 | | ppmv | 0.594 | 96 | 60-150 |
| 2.68 | | mg/m³ Air | 2.50 | 107 | 55-130 |
| 0.375 | | ppmv | 0.349 | 107 | 55-130 |
| 0.282 | | " | 0.318 | 88 | 75~130 |
| 2.21 | | mg/m³ Air | 2.50 | 88 | 75-130 |
| 2.35 | | " | 2.50 | 94 | 75-120 |
| 0.625 | | ppmv | 0.665 | 94 | 75-120 |
| 1 | | | Prepared & A | Analyzed: 12/06/ | 07 |
| 9.69 | 0.50 | mg/m³ Air | 10.0 | 97 | 80-130 |
| 3.16 | 0.16 | ppmv | 3.14 | 101 | 75-120 |
| 10.1 | 0.50 | mg/m³ Air | 10.0 | 101 | 75-120 |
| 9.98 | 0.50 | u | 10.0 | 100 | 80-120 |
| 9.14 | 0.50 | u | 10.0 | 91 | 80-125 |
| 27.4 | 0.50 | n | 30.0 | 91 | 80-125 |
| 2.11 | 0.12 | ppmv | 2.31 | 91 | 80-125 |
| 2.69 | 0.14 | # | 2.78 | 97 | 80-130 |
| 2.65 | 0.13 | " | 2.66 | 100 | 80-120 |
| 6.31 | 0.12 | 11 | 6.92 | 91 | 80-125 |
| 2.07 | | mg/m³ Air | 2.50 | 83 | 60-150 |
| 0.492 | | ppmv | 0.594 | 83 | 60-150 |
| 0.296 | | " | 0.349 | 85 | 55-130 |
| 2.12 | | mg/m³ Air | 2.50 | 85 | 55-130 |
| 0.290 | | ppmv | 0.318 | 91 | 75-130 |
| 2.28 | | mg/m³ Air | 2.50 | 91 | 75-130 |
| 2.25 | | " | 2.50 | 90 | 75-120 |
| 0.598 | | ppmv | 0.665 | 90 | 75-120 |
| | 2.68 0.375 0.282 2.21 2.35 0.625 9.69 3.16 10.1 9.98 9.14 27.4 2.11 2.69 2.65 6.31 2.07 0.492 0.296 2.12 0.290 2.28 2.25 | 0.572 2.68 0.375 0.282 2.21 2.35 0.625 9.69 0.50 3.16 0.16 10.1 0.50 9.98 0.50 9.14 0.50 27.4 0.50 2.11 0.12 2.69 0.14 2.65 0.13 6.31 0.12 2.07 0.492 0.296 2.12 0.290 2.28 2.25 | 0.572 ppmv 2.68 mg/m³ Air 0.375 ppmv 0.282 " 2.21 mg/m³ Air 2.35 " 0.625 ppmv 9.69 0.50 mg/m³ Air 3.16 0.16 ppmv 10.1 0.50 mg/m³ Air 9.98 0.50 " 9.14 0.50 " 27.4 0.50 " 2.11 0.12 ppmv 2.69 0.14 " 2.65 0.13 " 6.31 0.12 " 2.07 mg/m³ Air ppmv 0.296 " " 2.12 mg/m² Air ppmv 2.28 mg/m² Air mg/m² Air 2.25 " " | ## Prepared & ## ## ## ## ## ## ## ## ## ## ## ## # | Prepared & Analyzed: 12/06/ 0.572 |





Stratus Environmental Inc. [Arco] Project: ARCO #2111, San Leandro, CA MQL0093
3330 Cameron Park Dr., Suite 550 Project Number: G0C28-0023 Reported:
Cameron Park CA, 95682 Project Manager: Jay Johnson 12/14/07 14:06

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B - Quality Control TestAmerica Morgan Hill

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------------|------------|--------------------|-----------|----------------|------------------|------------|----------------|-----|--------------|--------|
| Batch 7L06004 - EPA 5030B P/T / | EPA 8260B | | | | | | | | | |
| Laboratory Control Sample Dup (7L06 | 6004-BSD1) | | | Prepared a | & Analyze | ed: 12/06/ | 07 | | | |
| Methyl tert-butyl ether | 9.19 | 0.50 | mg/m³ Air | 10.0 | | 92 | 80-130 | 5 | 25 | |
| Benzene | 2.86 | 0.16 | ppmv | 3.14 | | 91 | 75-120 | 10 | 20 | |
| Benzene | 9.13 | 0.50 | mg/m³ Air | 10.0 | | 91 | 75-120 | 10 | 20 | |
| Toluene | 9.53 | 0.50 | II | 10.0 | | 95 | 80-120 | 5 | 25 | |
| Ethylbenzene | 13.1 | 0.50 | #1 | 10.0 | | 131 | 80-125 | 36 | 20 | LQ, BA |
| Xylenes (total) | 31.0 | 0.50 | " | 30.0 | | 103 | 80-125 | 12 | 20 | |
| Ethylbenzene | 3.02 | 0.12 | ppmv | 2.31 | | 131 | 80-125 | 36 | 20 | LQ, BA |
| Methyl tert-butyl ether | 2.55 | 0.14 | II. | 2.78 | | 92 | 80-130 | 5 | 25 | |
| Toluene | 2.53 | 0.13 | II | 2.66 | | 95 | 80-120 | 5 | 25 | |
| Xylenes (total) | 7.14 | 0.12 | II | 6.92 | | 103 | 80-125 | 12 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.26 | | mg/m³ Air | 2.50 | | 90 | 60-150 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.537 | | ppmv | 0.594 | | 90 | 60-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.372 | | " | 0.349 | | 106 | 55-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.66 | | mg/m³ Air | 2.50 | | 106 | 55-130 | | | |
| Surrogate: Dibromofluoromethane | 2.37 | | n . | 2.50 | | 95 | 75-130 | | | |
| Surrogate: Dibromofluoromethane | 0.302 | | ppmv | 0.318 | | 95 | 75-130 | | | |
| Surrogate: Toluene-d8 | 2.22 | | mg/m³ Air | 2.50 | | 89 | 75-120 | | | |
| Surrogate: Toluene-d8 | 0.590 | | ppmv | 0.665 | | 89 | 75-120 | | | |
| Batch 7L07006 - EPA 5030B P/T / 1 | EPA 8260B | | | | | | | | | |
| Blank (7L07006-BLK1) | | | | Prepared & | & Analyze | d: 12/07/0 | 07 | · | | |
| Methyl tert-butyl ether | ND | 0.50 | mg/m³ Air | | | | | | | |
| Benzene | ND | 0.16 | ppmv | | | | | | | |
| Benzene | ND | 0.50 | mg/m³ Air | | | | | | | |
| Toluene | ND | 0.50 | " | | | | | | | |
| Ethylbenzene | ND | 0.50 | n | | | | | | | |
| Xylenes (total) | ND | 0.50 | 11 | | | | | | | |
| Ethylbenzene | ND | 0.12 | ppmv | | | | | | | |
| Methyl tert-butyl ether | ND | 0.14 | " | | | | | | | |
| Toluene | ND | 0.13 | 11 | | | | | | | |
| Xylenes (total) | ND | 0.12 | ** | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.50 | | mg/m³ Air | 2.50 | | 100 | 60-150 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.594 | | ррти | 0.594 | | 100 | 60-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.50 | | mg/m³ Air | 2.50 | | 100 | 55-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.349 | | ррти | 0.349 | | 100 | 55-130 | | | |

TestAmerica Morgan Hill

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





Project: ARCO #2111, San Leandro, CA

Spike

Source

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQL0093 Reported: 12/14/07 14:06

RPD

%REC

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B - Quality Control TestAmerica Morgan Hill

Reporting

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|------------------------------------|------------|-----------|-----------|------------|-----------|------------|--------|------|-------|------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Note |
| Batch 7L07006 - EPA 5030B P/T | EPA 8260B | | | | | | | | | |
| Blank (7L07006-BLK1) | | | | Prepared | & Analyze | ed: 12/07/ | 07 | | | |
| Surrogate: Dibromofluoromethane | 2.50 | | mg/m³ Air | 2.50 | | 100 | 75-130 | | | |
| Surrogate: Dibromofluoromethane | 0.318 | | ppmv | 0.318 | | 100 | 75-130 | | | |
| Surrogate: Toluene-d8 | 0.665 | | " | 0.665 | | 100 | 75-120 | | | |
| Surrogate: Toluene-d8 | 2.50 | | mg/m³ Air | 2.50 | | 100 | 75-120 | | | |
| Laboratory Control Sample (7L07006 | -BS1) | | | Prepared | & Analyze | ed: 12/07/ | 07 | | | |
| Methyl tert-butyl ether | 9.98 | 0.50 | mg/m³ Air | 10.0 | | 100 | 80-130 | | | |
| Benzene | 3.01 | 0.16 | ppmv | 3.14 | | 96 | 75-120 | | | |
| Benzene | 9.59 | 0.50 | mg/m³ Air | 10.0 | | 96 | 75-120 | | | |
| Γoluene | 9.98 | 0.50 | 11 | 10.0 | | 100 | 80-120 | | | |
| Ethylbenzene | 10.8 | 0.50 | 11 | 10.0 | | 108 | 80-125 | | | |
| Xylenes (total) | 31.8 | 0.50 | # | 30.0 | | 106 | 80-125 | | | |
| Ethylbenzene | 2.48 | 0.12 | ppmv | 2.31 | | 108 | 80-125 | | | |
| Methyl tert-butyl ether | 2.77 | 0.14 | н | 2.78 | | 100 | 80-130 | | | |
| Toluene | 2.65 | 0.13 | II . | 2.66 | | 100 | 80-120 | | | |
| Kylenes (total) | 7.34 | 0.12 | 0 | 6.92 | | 106 | 80-125 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.47 | | mg/m³ Air | 2.50 | | 99 | 60-150 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.587 | | ppmv | 0.594 | | 99 | 60-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.56 | | mg/m³ Air | 2.50 | | 102 | 55-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.358 | | ppmv | 0.349 | | 102 | 55-130 | | | |
| Surrogate: Dibromofluoromethane | 0.321 | | " | 0.318 | | 101 | 75-130 | | | |
| Surrogate: Dibromofluoromethane | 2.52 | | mg/m³ Air | 2.50 | | 101 | 75-130 | | | |
| Surrogate: Toluene-d8 | 0.683 | | ppmv | 0.665 | | 103 | 75-120 | | | |
| Surrogate: Toluene-d8 | 2.57 | | mg/m³ Air | 2.50 | | 103 | 75-120 | | | |
| Laboratory Control Sample Dup (7L0 | 7006-BSD1) | | | Prepared a | & Analyze | d: 12/07/0 |)7 | | | |
| Methyl tert-butyl ether | 9.97 | 0.50 | mg/m³ Air | 10.0 | | 100 | 80-130 | 0.1 | 25 | |
| Benzene | 3.00 | 0.16 | ppmv | 3.14 | | 96 | 75-120 | 0.3 | 20 | |
| Benzene | 9.56 | 0.50 | mg/m³ Air | 10.0 | | 96 | 75-120 | 0.3 | 20 | |
| Toluene | 9.90 | 0.50 | II | 10.0 | | 99 | 80-120 | 0.8 | 25 | |
| Ethylbenzene | 10.7 | 0.50 | 11 | 10.0 | | 107 | 80-125 | 0.9 | 20 | |
| (ylenes (total) | 31.8 | 0.50 | " | 30.0 | | 106 | 80-125 | 0.06 | 20 | |
| Ethylbenzene | 2.46 | 0.12 | ppmv | 2.31 | | 107 | 80-125 | 0.9 | 20 | |
| Methyl tert-butyl ether | 2.77 | 0.14 | н | 2.78 | | 100 | 80-130 | 0.1 | 25 | |
| Coluene | 2.63 | 0.13 | 11 | 2.66 | | 99 | 80-120 | 0.8 | 25 | |
| Xylenes (total) | 7.34 | 0.12 | # | 6.92 | | 106 | 80-125 | 0.06 | 20 | |

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





Stratus Environmental Inc. [Arco]
Project: ARCO #2111, San Leandro, CA
MQL0093
3330 Cameron Park Dr., Suite 550
Project Number: G0C28-0023
Cameron Park CA, 95682
Project Manager: Jay Johnson
12/14/07 14:06

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B - Quality Control TestAmerica Morgan Hill

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

| | Batch | 7L07006 - | EPA 5030B | P/T / EPA | 8260B |
|--|-------|-----------|-----------|-----------|-------|
|--|-------|-----------|-----------|-----------|-------|

| Laboratory Control Sample Dup (7Le | | Prepared & Analyzed: 12/07/07 | | | | | |
|------------------------------------|-------|-------------------------------|-------|-----|--------|--|--|
| Surrogate: 1,2-Dichloroethane-d4 | 2.40 | mg/m³ Air | 2.50 | 96 | 60-150 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.570 | ppmv | 0.594 | 96 | 60-150 | | |
| Surrogate: 4-Bromofluorobenzene | 0.358 | n | 0.349 | 102 | 55-130 | | |
| Surrogate: 4-Bromofluorobenzene | 2.56 | mg/m³ Air | 2.50 | 102 | 55-130 | | |
| Surrogate: Dibromofluoromethane | 2.51 | n | 2.50 | 100 | 75-130 | | |
| Surrogate: Dibromofluoromethane | 0.320 | ppmv | 0.318 | 100 | 75-130 | | |
| Surrogate: Toluene-d8 | 0.675 | " | 0.665 | 102 | 75-120 | | |
| Surrogate: Toluene-d8 | 2.54 | mg/m³ Air | 2.50 | 102 | 75-120 | | |





Project: ARCO #2111, San Leandro, CA

Spike

Source

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQL0093 Reported: 12/14/07 14:06

RPD

%REC

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

Reporting

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|--------------------------------------|---------------|-------|-----------|-------------|-----------|-------------|--------|-----|-------|-------|
| Batch 7L05020 - EPA 5030B [P/T] | / EPA 8015B-V | OA | | | | | | | | |
| Blank (7L05020-BLK1) | | | | Prepared | & Analyze | ed: 12/05/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | mg/m³ Air | | | | | | | |
| Gasoline Range Organics (C4-C12) | ND | 12 | ppmv | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 37.2 | | mg/m³ Air | 40.0 | | 93 | 70-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 5.19 | | ppmv | 5.59 | | 93 | 70-125 | | | |
| Laboratory Control Sample (7L05020- | BS1) | | | Prepared | & Analyze | ed: 12/05/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 235 | 50 | mg/m³ Air | 275 | | 85 | 60-120 | | | |
| Gasoline Range Organics (C4-C12) | 66.6 | 12 | ppmv | 78.0 | | 85 | 60-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 38.4 | | mg/m³ Air | 40.0 | | 96 | 70-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 5.37 | | ppmv | 5.59 | | 96 | 70-125 | | | |
| Laboratory Control Sample Dup (7L05 | (020-BSD1) | | | Prepared | & Analyze | ed: 12/05/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 240 | 50 | mg/m³ Air | 275 | | 87 | 60-120 | 2 | 20 | |
| Gasoline Range Organics (C4-C12) | 68.0 | 12 | ppmv | 78.0 | | 87 | 60-120 | 2 | 20 | |
| Surrogate: 4-Bromofluorobenzene | 38.7 | | mg/m³ Air | 40.0 | | 97 | 70-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 5.42 | | ppmv | 5.59 | | 97 | 70-125 | | | |
| Batch 7L06003 - EPA 5030B [P/T] | / EPA 8015B-V | OA | | | | | | | | |
| Blank (7L06003-BLK1) | | | | Prepared of | & Analyze | ed: 12/06/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | ND | 10 | mg/m³ Air | | | | | | | |
| Gasoline Range Organics (C4-C12) | ND | 2.4 | ppmv | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 1.15 | | " | 1.12 | | 103 | 70-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 8.20 | | mg/m³ Air | 8.00 | | 103 | 70-125 | | | |
| Laboratory Control Sample (7L06003-1 | BS2) | | | Prepared 6 | & Analyze | ed: 12/06/0 | 07 | | | |
| Gasoline Range Organics (C4-C12) | 53.9 | 10 | mg/m³ Air | 55.0 | | 98 | 60-120 | | | |
| Gasoline Range Organics (C4-C12) | 15.3 | 2.4 | ppmv | 15.6 | | 98 | 60-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 1.05 | | " | 1.12 | | 94 | 70-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 7.50 | | mg/m³ Air | 8.00 | | 94 | 70-125 | | | |





Stratus Environmental Inc. [Arco] Project: ARCO #2111, San Leandro, CA MQL0093
3330 Cameron Park Dr., Suite 550 Project Number: G0C28-0023 Reported:
Cameron Park CA, 95682 Project Manager: Jay Johnson 12/14/07 14:06

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

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

| Laboratory Control Sample Dup (7L00 | 6003-BSD2) | I | Prepared & Ai | nalyzed: 12/06/ | 07 | | | |
|-------------------------------------|------------|--------------|---------------|-----------------|--------|---|----|--|
| Gasoline Range Organics (C4-C12) | 55.3 | 10 mg/m³ Air | 55.0 | 101 | 60-120 | 2 | 20 | |
| Gasoline Range Organics (C4-C12) | 15.7 | 2.4 ppmv | 15.6 | 101 | 60-120 | 2 | 20 | |
| Surrogate: 4-Bromofluorobenzene | 7.33 | mg/m³ Air | 8.00 | 92 | 70-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 1.03 | ppmv | 1.12 | 92 | 70-125 | | | |



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

| | Stratus Environmental Inc. [Arco] | Project: ARCO #2111, San Leandro, CA | MQL0093 |
|---|-----------------------------------|--------------------------------------|----------------|
| - | 3330 Cameron Park Dr., Suite 550 | Project Number: G0C28-0023 | Reported: |
| | Cameron Park CA, 95682 | Project Manager: Jay Johnson | 12/14/07 14:06 |

Notes and Definitions

| LQ | LCS recovery above method control limits. |
|-----|--|
| BA | Relative percent difference out of control |
| DET | Analyte DETECTED |
| ND | Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified |
| NR | Not Reported |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |

| Atl | ant | ic ield |
|-----|-----|------------|
| 1/1 | CHI | ICIU |
| Co | mp | any |
| bgo | - | |

A BP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 2111 BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda

State or Lead Regulatory Agency: California Regional Water Quality Control Board Requested Due Date (mm/dd/yy):

24 hours for Effluent & STO for others

RUSH

| | T 515160000000000000000000000000000000000 | |
|------------------------|---|--|
| On-site Time: 17500 | Temp: | |
| Off-site Time: Dan | Темр: | |
| ky Conditions: | | |
| Meteorological Events: | | |
| Wind Counds | Direction: | |

| ab Nam | e: TestAmerica | | | | | - | BP/AR Facility No | ə.: | 2111 | | | | | | *************************************** | | | Col | rsulta | nt/Ce | yılığı | tor: | | Stratus Env | vingenthe) | ntal, Inc. | - | |
|-------------|-------------------------------|--------|--------|------------|--------------|---|--------------------|-------------------|-------------|---|--------|--------|----------|---------|---|--------------|--------------|--------|----------|----------|--------|------------|-------------|---------------|------------|------------|------------|--------|
| ddress: | 885 Jarvis Drive | | | | | | BP/AR Facility A | | ss: 1156 I | Javis St | ., San | Lean | adro | | | | | Adı | dress: | | 333 | 0 C | amer | ron Park Dr | rive, Su | ite 550 | | |
| lorgan H | Hill, CA 95937 | | | | | | Site Lat/Long | | | | | | | | | | | | | | Cag | nero | m Pa | ark, CA 956 | 582 | | | |
| tb PM: | Lisa Race | | | | • | | California Global | (D) | ₹o.: | T0600 | 10176 | 4 | | | | | | Cou | rsulta | nt/Co | entrac | tor P | rojec | ct No.: | E2111- | 03 | | |
| Je/Fax: | 408-782-8156/408-782-6308 | 8 | | | | | Enfos Project No.: | : | G0C28-4 | 0023 | | | | | | | | Сог | rsulta | nt/Co | mirac | tor P | M: | | Jay Joh | ason | | |
| P/AR P | M Contact: Paul Supple | | | | | | Provision or OOC | (cir | rcle one) | | Prov | risior | ì | | | | | Tel | e/Fax | : | (53 | 0) 6 | 76-6 | 000 / (530) | 676-60 |)05 | | |
| ddress: | 2010 Crow Canyon Place, Suite | e 150 | | | | | Phase/WBS: | | 03-0&M | [| | | | | | | | Reg | xart T | ype å | Ł QC | Lev | e\$: | | Level 1 | with EDI | F | |
| | San Ramon, CA | | | | | | Sub Phase/Task: | | 03-Analy | tical | | | | | | | | €-n | mil E | DD 1 | Ţο: | <u>sha</u> | <u>ayes</u> | @stratusii | nc.net | | | |
| ele/Fax: | 925-275-3506/925-275-3815 | 5 | | | | | Cost Element: | | Subcenti | | | | | | | | | Inv | | | | | | ld Co. | | | | |
| ab Bott | tte Order No: | | | | Mat | rix | | | | Pres | eryat | îve | | | Requ | ueste | al Ai | alysis | Ţ | urnz | rou | d Ti | òrne | | | | , | |
| em vo. | Sample Description | Time | Date | Soil/Solid | Water/Liquid | Air | Laboratory No. | No. of Containers | Unpreserved | H ₂ SO, | HINO3 | HCI | Methano] | | GRO by 8015 | BTBX by 8260 | MTBB by 8260 | | 24-hours | Standard | | | | Sampl | | Lat/Lon | ıg an |)d |
| 1 02 | 111DPEAINF | 0536 | 125 | | 1 | x | ٥١ | 2 | | | Т | | 1 | | | | x | | 1 | x | Τ | | | | | | | |
| 2 02 | 111ASAEFF | 0539 | 1 | | | х | 07_ | 2 | | | | | П | 1 | х | x | x | | | x | | | | | | | , | |
| 3 02 | 111ASYSINF | 1071 | | | | х | 03 | 2 | | | | | | | X | x | x | | | x | | | | | | | | |
| 4 02 | I I I AGACI | Olocal | | | | × | ઝવ | 2 | | | | | | | х | х | x | | | х | | | | | | | | |
| 5 02 | 111AEFF | 7002 | | | | х | <i>o</i> 5 | 2 | | | | | | | х | х | х | | х | | | | | | | | | |
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| umpler | 's Name: Chris | Hil | t | | | | 1 | Zijol | uishe By | / Affilig | Klen | Ζ | | | Dat | te | Tim | e | | | Acce | pt kd | By / / | Affiliation | | Djut | 66 | Time |
| umpler' | 's Company: Stratus Environ | | Inc. | | | | 1000 | 4 | 1 | <i>37</i> | rs. | L | | | ציונים | 四 | 107 | 7 3 | W | ĬĘ ľ | J. | | ŢΔ | \mathcal{M} | | 12/5 | <i>[</i>] | 133 |
| | it Date: 【ス <i>ち</i> 07 | | | | | | | | | | | | | \prod | | | | | | | | ! | | | | ′ 7 | | ; } |
| | n Method: Strufe | 2 | | | | | | | | | | | | | | | | | | | | | | | | | _ | |
| | it Tracking No: | | | | | *************************************** | | | | | | | | | | | | | | | | | | | | <u>_#</u> | <u></u> _ | · |
| ecial L | nstructions: | | Please | cc re | sults | s to bp | edf@broadbentin | c.C | om | | | | | | | | | | | | | | | | | | | |
| | Custody Seals In Place: Yes | 74. Y | | т. | 10-10 | . 37 | //No \ Cool | | emp on) | n | | 91 | F/C | | m. | | | Yes/ | 70 | | | | | Sample Sub | 200.4 | | | |

TEST AMERICA SAMPLE RECEIPT LOG

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|---|---|--|---------------------------------------|---------------------------------------|----------------|--------------|---------------------------------------|--|------------------------------|
| CLIENT NAME: | <u> ARCO</u> | | DATE REC'D AT LAB: | 12/5 | /o7 | - | | For Regula | itory Purposes? |
| REC. BY (PRINT) | JULIEN, | | TIME REC'D AT LAB; | <u> </u> | 35 | - | | | ING WATER |
| WORKORDER: | MAL00 93 | | DATE LOGGED IN: | 12/05 | 07 | | | | E WATER |
| | | | | | , | . | | | R AÎR |
| CIRCLE THE APPRO | PRIATE RESPONSE | LAB | | CONTAINER | PRESER | | SAMPLE | | |
| | | SAMPLE# | CLIENT ID | DESCRIPTION | | Нq | 1 | SAMPLED | REMARKS: CONDITION (ETC.) |
| 1. Custody Seal(s) | Present / Absent | | | | | | mw triv | SAMPLED | COUDITION (S10.) |
| | Intact / Broken | | | | | | | | |
| 2. Chain-of-Custody | Present / Absent* | | | | | | · · · · · · · · · · · · · · · · · · · | | |
| 3. Traffic Reports or | | | | | | | | | 6 |
| Packing List: | Present / Absent | · | | | | | | 1 | \ <u>/</u> |
| 4. Airbill: | Airbill / Sticker | | | | | | | 15 | |
| | Present / Absent | | <u>0.</u> | | · | | | 3/1 | |
| 5. Alrbill #: | | | | | | | | ~ | |
| 6. Sample Labels: | Present / Absent | | | | | | | 1/20 | 1 |
| 7. Sample IDs: | Listed / Not Listed | | | | | | - 7 | (0)²⁻ - | |
| | on Chain-of-Custody | ······································ | | | | | XXX | , | - |
| 8. Sample Condition: | Intact / Broken* / | | | 1 | | 7 | 1743 | · | · · · |
| | Leaking* | | | | | \sim | | | |
| 9. Does information on | chain-of-custody. | | | ನ | | 7 | | | |
| traffic reports and sa | | | 1 | | | - | | | |
| agree? | Yes / No* | | | | -/- | | | | |
| 0. Sample received within | | | | · · · · · · · · · · · · · · · · · · · | / | | | | |
| hold time? | Yes/No* | | | - / | $\overline{}$ | | | | |
| 1. Adequate sample volun | ne | | | / | | | | | |
| received? | (es / No* | | | / | | | | | |
| 2. Proper preservatives us | | | | | | | | - | |
| 13. Trip Blank / Temp Blan | | *** | | / | | | | | |
| (circle which, if yes) | Yes / No* | · · · · · · · · · · · · · · · · · · · | / | | | | | | <u> </u> |
| 4. Read Temp. | | | | | <u>.</u> | | | | |
| Correction Factor: | | | | | ····· | | | | |
| Corrected Temp: | | | | | | | | | <u> </u> |
| is corrected temp. 0-6°(| C? Yes/No** | | · · · · · · · · · · · · · · · · · · · | - | | | | | |
| "Exception (if any): Metals | | | | | | | | | |
| DFF on Ice or Problem | | -4 | | | | | | | |
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SAMPLERECEIPTLOG Prision 9 (10/26/07)

Page of



17 December, 2007

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

RE: ARCO #2111, San Leandro, CA

Work Order: MQL0103

Enclosed are the results of analyses for samples received by the laboratory on 12/05/07 10:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race

Senior Project Manager

CA ELAP Certificate # 1210

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



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

Stratus Environmental Inc. [Arco] Project: ARCO #2111, San Leandro, CA MQL0103
3330 Cameron Park Dr., Suite 550 Project Number: G0C28-0023 Reported:
Cameron Park CA, 95682 Project Manager: Jay Johnson 12/17/07 14:46

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|--------------|---------------|--------|----------------|----------------|
| 02111DPEWINF | MQL0103-01 | Water | 12/05/07 05:51 | 12/05/07 10:35 |
| 02111ASWINF | MQL0103-02 | Water | 12/05/07 05:49 | 12/05/07 10:35 |
| 02111ASWEFF | MQL0103-03 | Water | 12/05/07 05:47 | 12/05/07 10:35 |
| 02111WGAC1 | MQL0103-04 | Water | 12/05/07 05:45 | 12/05/07 10:35 |
| 02111WEFF | MQL0103-05 | Water | 12/05/07 05:43 | 12/05/07 10:35 |
| 02111MW2WINF | MQL0103-06 | Water | 12/05/07 05:55 | 12/05/07 10:35 |

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

These samples were received with no custody seals.

These samples were received with no trip blank.





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQL0103 Reported: 12/17/07 14:46

Purgeable Hydrocarbons by EPA 8015B TestAmerica Morgan Hill

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|-----------------|--------------------|-----------|-------------|---------|----------|----------|---------------|-------|
| 02111DPEWINF (MQL0103-01) Water | Sampled: 12/0 | 05/07 05:51 | Receive | d: 12/05/0′ | 7 10:35 | | | | |
| Gasoline Range Organics (C4-C12) | 120 | 50 | ug/l | 1 | 7L06009 | 12/06/07 | 12/06/07 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 98 % | 70- | 125 | " | " | " | n | |
| 02111ASWINF (MQL0103-02) Water | Sampled: 12/05 | /07 05:49 R | Received: | 12/05/07 | 10:35 | | | | |
| Gasoline Range Organics (C4-C12) | 80 | 50 | ug/l | 1 | 7L06009 | 12/06/07 | 12/06/07 | EPA 8015B-VOA | PV |
| Surrogate: 4-Bromofluorobenzene | | 105 % | 70- | 125 | " | " | " | " | |
| 02111ASWEFF (MQL0103-03) Water | Sampled: 12/05 | 5/07 05:47 F | Received | : 12/05/07 | 10:35 | | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | ug/l | 1 | 7L06009 | 12/06/07 | 12/06/07 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 93 % | 70- | 125 | " | " | " | ıı . | |
| 02111WGAC1 (MQL0103-04) Water S | Sampled: 12/05/ | 07 05:45 R | eceived: | 12/05/07 1 | 0:35 | | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | ug/l | 1 | 7L06009 | 12/06/07 | 12/06/07 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 93 % | 70- | 125 | " | " | " | " | |
| 02111WEFF (MQL0103-05) Water Sa | mpled: 12/05/07 | 05:43 Rec | eived: 12 | 2/05/07 10: | 35 | | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | ug/l | 1 | 7L06009 | 12/06/07 | 12/06/07 | EPA 8015B-VOA | |
| Surrogate: 4-Bromofluorobenzene | | 93 % | 70- | 125 | " | " | " | n . | |
| 02111MW2WINF (MQL0103-06) Water | Sampled: 12 | 05/07 05:55 | Receive | ed: 12/05/0 | 7 10:35 | | | | |
| Gasoline Range Organics (C4-C12) | 1100 | 500 | ug/l | 10 | 7L06009 | 12/06/07 | 12/06/07 | EPA 8015B-VOA | PV |
| Surrogate: 4-Bromofluorobenzene | | 98 % | 70- | 125 | " | " | " | n | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQL0103 Reported: 12/17/07 14:46

Volatile Organic Compounds by EPA Method 8260B TestAmerica Morgan Hill

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|----------------|--------------------|-----------|-----------|---------|----------|----------|---|-------|
| 02111DPEWINF (MQL0103-01) Water | Sampled: 12/ | 05/07 05:51 | Received | : 12/05/0 | 7 10:35 | | | *************************************** | PC |
| tert-Amyl methyl ether | 0.52 | 0.50 | ug/l | 1 | 7L08003 | 12/08/07 | 12/08/07 | EPA 8260B | |
| Benzene | 0.99 | 0.50 | n | ** | н | 11 | II . | н | |
| tert-Butyl alcohol | 51 | 20 | ш | 11 | Ħ | н | łi . | # | |
| Di-isopropyl ether | ND | 0.50 | H | 11 | " | ** | ** | ** | |
| Ethyl tert-butyl ether | ND | 0.50 | ** | 11 | " | " | " | н | |
| Ethylbenzene | 2.3 | 0.50 | " | 11 | " | " | " | ff . | |
| Methyl tert-butyl ether | 79 | 0.50 | " | ** | " | It | Ħ | II . | |
| Toluene | ND | 0.50 | n | " | 11 | II | n | II | |
| Xylenes (total) | 6.7 | 0.50 | lt . | | 11 | #1 | | | |
| Surrogate: Dibromofluoromethane | | 89 % | 75-1 | 30 | n n | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 94 % | 60-1 | 50 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 91 % | 75-1 | 20 | " | n | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 86 % | 55-1 | 30 | " | " | " | n | |
| 02111ASWINF (MQL0103-02) Water | Sampled: 12/05 | 5/07 05:49 1 | Received: | 12/05/07 | 10:35 | | | | PC |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | 1 | 7L08003 | 12/08/07 | 12/08/07 | EPA 8260B | |
| Benzene | 0.69 | 0.50 | U | n | # | н | # | п | |
| tert-Butyl alcohol | 21 | 20 | II . | II | ** | " | II. | п | |
| Di-isopropyl ether | ND | 0.50 | H | " | " | 16 | " | II. | |
| Ethyl tert-butyl ether | ND | 0.50 | " | ** | n | 11 | II | 11 | |
| Ethylbenzene | 1.0 | 0.50 | ** | " | ŧI | н | ** | " | |
| Methyl tert-butyl ether | 74 | 0.50 | II . | 11 | " | " | " | er e | |
| Toluene | ND | 0.50 | # | 11 | u | H | n | н | |
| Xylenes (total) | 1.1 | 0.50 | " | ** | 11 | П | U | | |
| Surrogate: Dibromofluoromethane | | 88 % | 75-1 | 30 | " | " | n | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96 % | 60-1 | 50 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 88 % | 75-1. | 20 | " | " | " | ıı . | |
| Surrogate: 4-Bromofluorobenzene | | 85 % | 55-1. | 30 | " | " | " | " | |
| | | | | | | | | | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQL0103 Reported: 12/17/07 14:46

Volatile Organic Compounds by EPA Method 8260B TestAmerica Morgan Hill

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|-----------------|--------------------|-------------|-----------|---------|----------|----------|-----------|-------------|
| 02111ASWEFF (MQL0103-03) Water | Sampled: 12/0: | 5/07 05:47 | Received: | 12/05/07 | 10:35 | | | | |
| tert-Amyl methyl ether | 0.61 | 0.50 | ug/l | 1 | 7L06024 | 12/06/07 | 12/07/07 | EPA 8260B | |
| Benzene | ND | 0.50 | " | ** | n | п | ti | R | |
| tert-Butyl alcohol | ND | 20 | 11 | | 11 | n | U | II | |
| Di-isopropyl ether | ND | 0.50 | 11 | ** | 41 | ** | lt. | 11 | |
| Ethyl tert-butyl ether | ND | 0.50 | II . | U | q | " | ii . | ** | |
| Ethylbenzene | ND | 0.50 | · · | 11 | " | n | ti . | • | |
| Methyl tert-butyl ether | 2.7 | 0.50 | ** | -0 | " | n | ** | n | |
| Toluene | ND | 0.50 | 11 | " | 11 | II | н | II. | |
| Xylenes (total) | ND | 0.50 | 11 | н | 11 | #1 | H | II . | |
| Surrogate: Dibromofluoromethane | | 93 % | 75-1. | 30 | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 60-1. | 50 | " | " | " | rr . | |
| Surrogate: Toluene-d8 | | 92 % | 75-1. | 20 | " | n | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 86 % | 55-1. | 30 | " | " | " | n | |
| 02111WGAC1 (MQL0103-04) Water | Sampled: 12/05/ | 07 05:45 | Received: 1 | 2/05/07 1 | 0:35 | | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | 1 | 7L06024 | 12/06/07 | 12/07/07 | EPA 8260B | |
| Benzene | ND | 0.50 | 11 | ** | 11 | n | " | 11 | |
| tert-Butyl alcohol | ND | 20 | H | " | ti . | 11 | tt . | 11 | |
| Di-isopropyl ether | ND | 0.50 | 11 | ** | 11 | ** | II | н | |
| Ethyl tert-butyl ether | ND | 0.50 | 11 | *** | н | " | #1 | ii. | |
| Ethylbenzene | ND | 0.50 | # | ** | ** | H | " | lt. | |
| Methyl tert-butyl ether | ND | 0.50 | * | " | " | II. | " | II . | |
| Toluene | ND | 0.50 | " | " | 11 | II . | 11 | н | |
| Xylenes (total) | ND | 0.50 | # | " | II . | # | II . | " | |
| Surrogate: Dibromofluoromethane | | 92 % | 75-13 | 30 | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 100 % | 60-13 | 50 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 88 % | 75-12 | 20 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 86 % | 55-13 | 30 | " | n | " | n . | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQL0103 Reported: 12/17/07 14:46

Volatile Organic Compounds by EPA Method 8260B TestAmerica Morgan Hill

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|------------------|--------------------|-----------|-------------|---------|----------|----------|-----------|-------|
| 02111WEFF (MQL0103-05) Water | Sampled: 12/05/0 | 7 05:43 Rec | eived: 12 | 2/05/07 10: | 35 | | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | 1 | 7L05007 | 12/05/07 | 12/06/07 | EPA 8260B | |
| Benzene | ND | 0.50 | н | 11 | IF | 11 | " | II . | |
| tert-Butyl alcohol | ND | 20 | H | 11 | 11 | Ш | " | ** | |
| Di-isopropyl ether | ND | 0.50 | н | " | н | 11 | " | # | |
| Ethyl tert-butyl ether | ND | 0.50 | # | ii. | " | # | II | If | |
| Ethylbenzene | ND | 0.50 | ** | tt. | н | " | Ħ | 11 | |
| Methyl tert-butyl ether | ND | 0.50 | " | II | II. | н | ** | 11 | |
| Toluene | ND | 0.50 | n | H | 11 | Ш | n | " | |
| Xylenes (total) | ND | 0.50 | | | " | 11 | П | " | |
| Surrogate: Dibromofluoromethane | | 103 % | 75- | 130 | " | n | " | n | |
| Surrogate: 1,2-Dichloroethane-d4 | | 104 % | 60- | 150 | " | " | n . | " | |
| Surrogate: Toluene-d8 | | 100 % | 75- | 120 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 100 % | 55- | 130 | " | " | " | " | |
| 02111MW2WINF (MQL0103-06) Wa | ter Sampled: 12 | /05/07 05:55 | Receive | ed: 12/05/0 | 7 10:35 | | | | |
| tert-Amyl methyl ether | ND | 10 | ug/l | 20 | 7L06024 | 12/06/07 | 12/07/07 | EPA 8260B | |
| Benzene | 30 | 10 | n | " | ii . | ** | II . | n | |
| tert-Butyl alcohol | 1800 | 400 | 11 | " | u | " | ** | II . | |
| Di-isopropyl ether | ND | 10 | 41 | Ħ | n | n | ** | II | |
| Ethyl tert-butyl ether | ND | 10 | " | II | п | n | " | И | |
| Ethylbenzene | 12 | 10 | " | II . | н | 11 | ** | " | |
| Methyl tert-butyl ether | 890 | 10 | 11 | " | ** | " | II. | " | |
| Toluene | ND | 10 | н | " | " | " | II | rt | |
| Xylenes (total) | ND | 10 | 1) | " | H | II . | II . | it . | |
| Surrogate: Dibromofluoromethane | | 91 % | 75- | 130 | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 100 % | 60- | 150 | " | u | n | " | |
| Surrogate: Toluene-d8 | | 91 % | 75- | 120 | " | " | n . | " | |
| Surrogate: 4-Bromofluorobenzene | | 83 % | 55- | 130 | " | " | n | " | |





Project: ARCO #2111, San Leandro, CA

Spike

Source

%REC

Project Number: G0C28-0023 Project Manager: Jay Johnson MQL0103 Reported: 12/17/07 14:46

RPD

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

Reporting

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|--------------------------------------|-------------|----------|-------|------------|----------|------------|--------|-----|-------|-------|
| Batch 7L06009 - EPA 5030B [P/T] / | EPA 8015B-V | OA | | | | | | | | |
| Blank (7L06009-BLK1) | | | | Prepared | & Analyz | ed: 12/06/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | ug/l | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 38.2 | | " | 40.0 | | 96 | 70-125 | | | |
| Laboratory Control Sample (7L06009-B | S1) | | | Prepared | & Analyz | ed: 12/06/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 249 | 50 | ug/l | 275 | | 90 | 60-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 39.9 | | " | 40.0 | | 100 | 70-125 | | | |
| Matrix Spike (7L06009-MS1) | Source: MQ | L0103-03 | | Prepared a | & Analyz | ed: 12/06/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 256 | 50 | ug/l | 275 | ND | 93 | 45-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 40.4 | | " | 40.0 | | 101 | 70-125 | | | |
| Matrix Spike Dup (7L06009-MSD1) | Source: MQ | L0103-03 | | Prepared 6 | & Analyz | ed: 12/06/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 248 | 50 | ug/l | 275 | ND | 90 | 45-135 | 3 | 20 | |
| Surrogate: 4-Bromofluorobenzene | 40.5 | | " | 40.0 | | 101 | 70-125 | | | |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023 Project Manager: Jay Johnson MQL0103 Reported: 12/17/07 14:46

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

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|------------------------------|-----------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| - | | | | | | | | | | |
| Ratch 71 05007 FDA 5030R D/T | EDA 9260D | | | | | | | | | |

| Blank (7L05007-BLK1) | | | | Prepared: 12/0 | 5/07 Analyzec | l: 12/06/07 |
|--------------------------------------|------|------|----------|----------------|---------------|-------------|
| tert-Amyl methyl ether | ND | 0.50 | ug/l | | | |
| Benzene | ND | 0.50 | " | | | |
| tert-Butyl alcohol | ND | 20 | | | | |
| Di-isopropyl ether | ND | 0.50 | H | | | |
| Ethyl tert-butyl ether | ND | 0.50 | н | | | |
| Ethylbenzene | ND | 0.50 | п | | | |
| Methyl tert-butyl ether | ND | 0.50 | н | | | |
| Toluene | ND | 0.50 | ** | | | |
| Xylenes (total) | ND | 0.50 | n | | | |
| Surrogate: Dibromofluoromethane | 2.50 | | " | 2.50 | 100 | 75-130 |
| Surrogate: 1,2-Dichloroethane-d4 | 2.50 | | <i>n</i> | 2.50 | 100 | 60-150 |
| Surrogate: Toluene-d8 | 2.50 | | " | 2.50 | 100 | 75-120 |
| Surrogate: 4-Bromofluorobenzene | 2.50 | | " | 2.50 | 100 | 55-130 |
| Laboratory Control Sample (7L05007-B | S1) | | | Prepared: 12/0 | 5/07 Analyzed | l: 12/06/07 |
| tert-Amyl methyl ether | 10.1 | 0.50 | ug/l | 10.0 | 101 | 75-125 |
| Benzene | 9.24 | 0.50 | " | 10.0 | 92 | 75-120 |
| tert-Butyl alcohol | 202 | 20 | tt | 200 | 101 | 80-120 |
| Di-isopropyl ether | 9.00 | 0.50 | п | 10.0 | 90 | 70-130 |
| Ethyl tert-butyl ether | 9.78 | 0.50 | ** | 10.0 | 98 | 75-130 |
| Ethylbenzene | 9.95 | 0.50 | • | 10.0 | 100 | 80-125 |
| Methyl tert-butyl ether | 10.0 | 0.50 | n | 10.0 | 100 | 80-130 |
| Toluene | 9.57 | 0.50 | n | 10.0 | 96 | 80-120 |
| Xylenes (total) | 29.5 | 0.50 | 11 | 30.0 | 98 | 80-125 |
| Surrogate: Dibromofluoromethane | 2.52 | | " | 2.50 | 101 | 75-130 |
| Surrogate: 1,2-Dichloroethane-d4 | 2.50 | | " | 2.50 | 100 | 60-150 |
| Surrogate: Toluene-d8 | 2.53 | | " | 2.50 | 101 | 75-120 |
| Surrogate: 4-Bromofluorobenzene | 2.51 | | " | 2.50 | 100 | 55-130 |





Project: ARCO #2111, San Leandro, CA

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQL0103 Reported: 12/17/07 14:46

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

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

| Matrix Spike (7L05007-MS1) | Source: MQL0099-05 | | | Prepared: | : 12/06/07 | | | | | |
|----------------------------------|--------------------|----------|------|-----------|------------|----------|------------|-----|----|--|
| tert-Amyl methyl ether | 10.4 | 0.50 | ug/l | 10.0 | ND | 104 | 75-140 | | | |
| Benzene | 9.61 | 0.50 | U. | 10.0 | ND | 96 | 80-120 | | | |
| tert-Butyl alcohol | 219 | 20 | - 0 | 200 | ND | 110 | 80-125 | | | |
| Di-isopropyl ether | 9.64 | 0.50 | н | 10.0 | ND | 96 | 75-135 | | | |
| Ethyl tert-butyl ether | 10.4 | 0.50 | " | 10.0 | ND | 104 | 80-135 | | | |
| Ethylbenzene | 10.0 | 0.50 | | 10.0 | ND | 100 | 75-130 | | | |
| Methyl tert-butyl ether | 10.3 | 0.50 | п | 10.0 | ND | 103 | 75-145 | | | |
| Toluene | 9.74 | 0.50 | n | 10.0 | 0.140 | 96 | 80-125 | | | |
| Xylenes (total) | 30.1 | 0.50 | 11 | 30.0 | 0.220 | 100 | 75-125 | | | |
| Surrogate: Dibromofluoromethane | 2.61 | | " | 2.50 | | 104 | 75-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.63 | | " | 2.50 | | 105 | 60-150 | | | |
| Surrogate: Toluene-d8 | 2.50 | | " | 2.50 | | 100 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.50 | | " | 2.50 | | 100 | 55-130 | | | |
| Matrix Spike Dup (7L05007-MSD1) | Source: MQ | L0099-05 | | Prepared: | 12/05/07 | Analyzed | : 12/06/07 | | | |
| tert-Amyl methyl ether | 10.4 | 0.50 | ug/l | 10.0 | ND | 104 | 75-140 | 1 | 25 | |
| Benzene | 10.0 | 0.50 | | 10.0 | ND | 100 | 80-120 | 4 | 20 | |
| tert-Butyl alcohol | 222 | 20 | н | 200 | ND | 111 | 80-125 | 1 | 25 | |
| Di-isopropyl ether | 10.1 | 0.50 | II. | 10.0 | ND | 101 | 75-135 | 5 | 25 | |
| Ethyl tert-butyl ether | 10.6 | 0.50 | п | 10.0 | ND | 106 | 80-135 | 2 | 25 | |
| Ethylbenzene | 10.6 | 0.50 | u | 10.0 | ND | 106 | 75-130 | 6 | 20 | |
| Methyl tert-butyl ether | 10.2 | 0.50 | n | 10.0 | ND | 102 | 75-145 | 0.5 | 25 | |
| Toluene | 10.3 | 0.50 | 11 | 10.0 | 0.140 | 102 | 80-125 | 6 | 25 | |
| Xylenes (total) | 31.8 | 0.50 | ** | 30.0 | 0.220 | 105 | 75-125 | 5 | 20 | |
| Surrogate: Dibromofluoromethane | 2,53 | | " | 2.50 | | 101 | 75-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.50 | | " | 2.50 | | 100 | 60-150 | | | |
| Surrogate: Toluene-d8 | 2.63 | | " | 2.50 | | 105 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.62 | | " | 2.50 | | 105 | 55-130 | | | |





Project: ARCO #2111, San Leandro, CA

Spike

Project Number: G0C28-0023
Project Manager: Jay Johnson

Source

%REC

MQL0103 Reported: 12/17/07 14:46

RPD

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

Reporting

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|------------------------------------|-------------------------------|-------|-------|-------|--------|------|--------|-----|-------|-------|
| Batch 7L06024 - EPA 5030B P/T | EPA 8260B | | | | | | | | | |
| Blank (7L06024-BLK1) | Prepared & Analyzed: 12/06/07 | | | | | | | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | " | | | | | | | |
| tert-Butyl alcohol | ND | 20 | 11 | | | | | | | |
| Di-isopropyl ether | ND | 0.50 | 10 | | | | | | | |
| Ethyl tert-butyl ether | ND | 0.50 | II | | | | | | | |
| Ethylbenzene | ND | 0.50 | 83 | | | | | | | |
| Methyl tert-butyl ether | ND | 0.50 | ** | | | | | | | |
| Toluene | ND | 0.50 | n | | | | | | | |
| Xylenes (total) | ND | 0.50 | II | | | | | | | |
| Surrogate: Dibromofluoromethane | 2.28 | | " | 2.50 | | 91 | 75-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.35 | | " | 2.50 | | 94 | 60-150 | | | |
| Surrogate: Toluene-d8 | 2.27 | | " | 2.50 | | 91 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.14 | | " | 2.50 | | 86 | 55-130 | | | |
| Laboratory Control Sample (7L06024 | Prepared & Analyzed: 12/06/07 | | | | | | | | | |
| tert-Amyl methyl ether | 10.9 | 0.50 | ug/l | 10.0 | | 109 | 75-125 | | | |
| Benzene | 10.1 | 0.50 |)) | 10.0 | | 101 | 75-120 | | | |
| tert-Butyl alcohol | 209 | 20 | ** | 200 | | 105 | 80-120 | | | |
| Di-isopropyl ether | 10.0 | 0.50 | " | 10.0 | | 100 | 70-130 | | | |
| Ethyl tert-butyl ether | 10.4 | 0.50 | H | 10.0 | | 104 | 75-130 | | | |
| Ethylbenzene | 10.4 | 0.50 | n | 10.0 | | 104 | 80-125 | | | |
| Methyl tert-butyl ether | 9.81 | 0.50 | ** | 10.0 | | 98 | 80-130 | | | |
| Toluene | 10.0 | 0.50 | н | 10.0 | | 100 | 80-120 | | | |
| Xylenes (total) | 31.1 | 0.50 | n | 30.0 | | 104 | 80-125 | | | |
| Surrogate: Dibromofluoromethane | 2.34 | | " | 2.50 | | 94 | 75-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.29 | | " | 2.50 | | 92 | 60-150 | | | |
| Surrogate: Toluene-d8 | 2.32 | | " | 2.50 | | 93 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.34 | | n | 2.50 | | 94 | 55-130 | | | |
| | | | | | | | | | | |





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

Analyte

Project: ARCO #2111, San Leandro, CA

Spike

Level

10.0

10.0

30.0

2.50

2.50

2.50

2.50

ND

ND

97

98

102

97

93

94

94

75-145

80-125

75-125

75-130

60-150

75-120

55-130

0.6

2

2

25

25

Source

Result

%REC

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQL0103 Reported: 12/17/07 14:46

Notes

RPD

Limit

%REC

Limits

RPD

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

Units

Reporting

9.70

9.80

30.5

2.42

2.32

2.36

2.35

0.50

0.50

0.50

Limit

| Matrix Spike (7L06024-MS1) | Source: MQ | L0060-08 | | Prepared a | & Analyze | ed: 12/06 | /07 | | | |
|----------------------------------|------------|----------|------|------------|-----------|-----------|--------|-----|----|---|
| tert-Amyl methyl ether | 10.7 | 0.50 | ug/l | 10.0 | ND | 107 | 75-140 | | | |
| Benzene | 10.2 | 0.50 | ** | 10.0 | ND | 102 | 80-120 | | | |
| tert-Butyl alcohol | 207 | 20 | " | 200 | ND | 104 | 80-125 | | | |
| Di-isopropyl ether | 10.2 | 0.50 | " | 10.0 | ND | 102 | 75-135 | | | |
| Ethyl tert-butyl ether | 10.3 | 0.50 | " | 10.0 | ND | 103 | 80-135 | | | |
| Ethylbenzene | 10.3 | 0.50 | ** | 10.0 | ND | 103 | 75-130 | | | |
| Methyl tert-butyl ether | 9.64 | 0.50 | " | 10.0 | ND | 96 | 75-145 | | | |
| Toluene | 9.99 | 0.50 | Ħ | 10.0 | ND | 100 | 80-125 | | | |
| Xylenes (total) | 31.1 | 0.50 | n | 30.0 | ND | 104 | 75-125 | | | |
| Surrogate: Dibromofluoromethane | 2.42 | | " | 2.50 | | 97 | 75-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.35 | | " | 2.50 | | 94 | 60-150 | | | |
| Surrogate: Toluene-d8 | 2.37 | | " | 2.50 | | 95 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.42 | | " | 2.50 | | 97 | 55-130 | | | |
| Matrix Spike Dup (7L06024-MSD1) | Source: MQ | L0060-08 | | Prepared & | & Analyze | ed: 12/06 | 07 | | | |
| ert-Amyl methyl ether | 10.6 | 0.50 | ug/l | 10.0 | ND | 106 | 75-140 | 1 | 25 | - |
| Benzene | 10.1 | 0.50 | 11 | 10.0 | ND | 101 | 80-120 | 0.9 | 20 | |
| ert-Butyl alcohol | 200 | 20 | | 200 | ND | 100 | 80-125 | 4 | 25 | |
| Di-isopropyl ether | 10.1 | 0.50 | " | 10.0 | ND | 101 | 75-135 | 2 | 25 | |
| thyl tert-butyl ether | 10.2 | 0.50 | H | 10.0 | ND | 102 | 80-135 | 1 | 25 | |
| Ethylbenzene | 10.3 | 0.50 | n | 10.0 | ND | 103 | 75-130 | 0.1 | 20 | |

Methyl tert-butyl ether

Surrogate: Toluene-d8

Surrogate: Dibromofluoromethane

Surrogate: 1,2-Dichloroethane-d4

Surrogate: 4-Bromofluorobenzene

Toluene

Xylenes (total)





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

Analyte

Toluene

Xylenes (total)

Surrogate: Toluene-d8

Project: ARCO #2111, San Leandro, CA

Spike

Level

10.0

30.0

2.50

2.50

2.50

2.50

Source

Result

%REC

96

101

91

93

90

94

80-120

80-125

75-130

60-150

75-120

55-130

MQL0103 Reported: 12/17/07 14:46

Notes

RPD

Limit

%REC

Limits

RPD

Project Number: G0C28-0023
Project Manager: Jay Johnson

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

Units

Reporting

Limit

0.50

0.50

9.64

30.4

2.27

2.33

2.25

2.34

Result

| Batch 7L08003 - EPA 5030B P/T / EPA | 8260B | | | | | | |
|---|-------|------|------|---------------|-----------------|--------|--|
| Blank (7L08003-BLK1) | | | | Prepared & Ar | nalyzed: 12/08/ | 07 | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | | | | |
| Benzene | ND | 0.50 | 41 | | | | |
| tert-Butyl alcohol | ND | 20 | ** | | | | |
| Di-isopropyl ether | ND | 0.50 | 11 | | | | |
| Ethyl tert-butyl ether | ND | 0.50 | n | | | | |
| Ethylbenzene | ND | 0.50 | " | | | | |
| Methyl tert-butyl ether | ND | 0.50 | " | | | | |
| Toluene | ND | 0.50 | II | | | | |
| Xylenes (total) | ND | 0.50 | н | | | | |
| Surrogate: Dibromofluoromethane | 2.20 | | 11 | 2.50 | 88 | 75-130 | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.31 | | " | 2.50 | 92 | 60-150 | |
| Surrogate: Toluene-d8 | 2.21 | | " | 2.50 | 88 | 75-120 | |
| Surrogate: 4-Bromofluorobenzene | 2.15 | | " | 2.50 | 86 | 55-130 | |
| Laboratory Control Sample (7L08003-BS1) | | | | Prepared & An | nalyzed: 12/08/ | 07 | |
| tert-Amyl methyl ether | 10.0 | 0.50 | ug/l | 10.0 | 100 | 75-125 | |
| Benzene | 9.72 | 0.50 | 11 | 10.0 | 97 | 75-120 | |
| tert-Butyl alcohol | 204 | 20 | " | 200 | 102 | 80-120 | |
| Di-isopropyl ether | 9.76 | 0.50 | " | 10.0 | 98 | 70-130 | |
| Ethyl tert-butyl ether | 9.57 | 0.50 | " | 10.0 | 96 | 75-130 | |
| Ethylbenzene | 10.1 | 0.50 | H | 10.0 | 101 | 80-125 | |
| Methyl tert-butyl ether | 9.08 | 0.50 | n | 10.0 | 91 | 80-130 | |
| | | | | | | | |

Surrogate: Dibromofluoromethane

Surrogate: 1,2-Dichloroethane-d4

Surrogate: 4-Bromofluorobenzene





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

Project: ARCO #2111, San Leandro, CA

Spike

Source

Project Number: G0C28-0023
Project Manager: Jay Johnson

MQL0103 Reported: 12/17/07 14:46

RPD

%REC

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

Reporting

2.42

| 1 | | Reporting | | Spike | Source | | 70KEC | | KPD | |
|-----------------------------------|-----------|-----------|-------|----------|-----------|------------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 7L08003 - EPA 5030B P/T / E | EPA 8260B | | | | | | | | | |
| Matrix Spike (7L08003-MS1) | Source: M | QL0215-02 | | Prepared | & Analyz | ed: 12/08/ | 07 | | | |
| tert-Amyl methyl ether | 10.1 | 0.50 | ug/l | 10.0 | ND | 101 | 75-140 | | | |
| Benzene | 9.15 | 0.50 | u | 10.0 | ND | 92 | 80-120 | | | |
| tert-Butyl alcohol | 189 | 20 | н | 200 | ND | 94 | 80-125 | | | |
| Di-isopropyl ether | 9.33 | 0.50 | n | 10.0 | ND | 93 | 75-135 | | | |
| Ethyl tert-butyl ether | 9.60 | 0.50 | H | 10.0 | ND | 96 | 80-135 | | | |
| Ethylbenzene | 9.45 | 0.50 | н | 10.0 | ND | 94 | 75-130 | | | |
| Methyl tert-butyl ether | 9.25 | 0.50 | tf | 10.0 | ND | 92 | 75-145 | | | |
| Toluene | 9.03 | 0.50 | n | 10.0 | ND | 90 | 80-125 | | | |
| Xylenes (total) | 28.2 | 0.50 | " | 30.0 | ND | 94 | 75-125 | | | |
| Surrogate: Dibromofluoromethane | 2.31 | | " | 2.50 | | 92 | 75-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.35 | | " | 2.50 | | 94 | 60-150 | | | |
| Surrogate: Toluene-d8 | 2.32 | | " | 2.50 | | 93 | 75-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.47 | | " | 2.50 | | 99 | 55-130 | | | |
| Matrix Spike Dup (7L08003-MSD1) | Source: M | QL0215-02 | | Prepared | & Analyze | d: 12/08/ | 07 | | | |
| tert-Amyl methyl ether | 10.1 | 0.50 | ug/l | 10.0 | ND | 101 | 75-140 | 0.5 | 25 | |
| Benzene | 9.45 | 0.50 | " | 10.0 | ND | 94 | 80-120 | 3 | 20 | |
| tert-Butyl alcohol | 199 | 20 | " | 200 | ND | 100 | 80-125 | 5 | 25 | |
| Di-isopropyl ether | 9.63 | 0.50 | " | 10.0 | ND | 96 | 75-135 | 3 | 25 | |
| Ethyl tert-butyl ether | 9.75 | 0.50 | 11 | 10.0 | ND | 98 | 80-135 | 2 | 25 | |
| Ethylbenzene | 9.73 | 0.50 | " | 10.0 | ND | 97 | 75-130 | 3 | 20 | |
| Methyl tert-butyl ether | 9.15 | 0.50 | | 10.0 | ND | 92 | 75-145 | 1 | 25 | |
| Toluene | 9.24 | 0.50 | | 10.0 | ND | 92 | 80-125 | 2 | 25 | |
| Xylenes (total) | 28.8 | 0.50 | 11 | 30.0 | ND | 96 | 75-125 | 2 | 20 | |
| Surrogate: Dibromofluoromethane | 2.31 | | " | 2.50 | | 92 | 75-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.37 | | " | 2.50 | | 95 | 60-150 | | | |
| Surrogate: Toluene-d8 | 2.26 | | " | 2.50 | | 90 | 75-120 | | | |
| | | | | | | | | | | |

2.50

Surrogate: 4-Bromofluorobenzene

55-130



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

Stratus Environmental Inc. [Arco] Project: ARCO #2111, San Leandro, CA MQL0103
3330 Cameron Park Dr., Suite 550 Project Number: G0C28-0023 Reported:
Cameron Park CA, 95682 Project Manager: Jay Johnson 12/17/07 14:46

Notes and Definitions

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

PC Sample taken from VOA vial with air bubble > 6mm diameter

DET Analyte DETECTED

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

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

| | , | | 1 | |
|------|---|----|---|--|
| 'age | Ł | of | | |

| Atla | ntic hfield |
|------|----------------|
| Ric | hfield |
| Com | pany |

A BP affiliated company

Chain of Custody Record

RUSH

Project Name:

ARCO Facility No. 2111

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda

State or Lead Regulatory Agency:

California Regional Water Quality Control Board

Requested Due Date (mm/dd/yy):

24 hours for Effluent & STD for others

| 1.00 | | |
|------------------------|------------|--|
| On-site Time: 0500 | Temp: | |
| Off-site Time: (9/09/) | Тетр: | |
| Sky Conditions: | | |
| Meteorological Events: | | |
| Wind Speed: | Direction: | |

| Lab Name: TestAmerica | BP/AR Facility No.: | 2111 | | Consultant/Confractor: | Strates Environmental, Inc. |
|---|----------------------|---|---|------------------------------|---------------------------------------|
| Address: 885 Jarvis Drive | BP/AR Facility Add | lress: 1156 Davis St., San Leandro | | Address: 3330 Carne | von Park Drive, Suite 550 |
| Morgan Hill, CA 95937 | Site Lat/Long: | | | Cameron P | ark, CA 95682 |
| Lab PM: Lisa Race | California Global IU | No.; T0500191764 | | Consultant/Contractor Proje | ect No.: E2111-03 |
| Tele/Fax: 408-782-8156/ 408-782-6308 | Enfos Project No.: | G0C28-0023 | | Consultant/Contractor PM: | Jay Johnson |
| BP/AR PM Contact: Faul Supple | Provision or OOC (| circle ouc) Provision | | Tele/Fax: (530) 676-6 | 6000 / (530) 676-6005 |
| Address: 2010 Crow Canyon Place, Suite 150 | Pliase/WBS: | 03-O&M | | Report Type & QC Level: | Level 1 with EDF |
| San Ramon, CA | Sub Phase/Task: | 03-Analytical | | | s@stratusing.net |
| Tele/Fax: 925-275-3506/925-275-3815 | Cost Elentent; | Subcontractor Cost | | Invoice to: Atlantic Richfie | dd Co. |
| Lab Bottle Order No: Mat | x | Prescryative | Requested Ana | lysis Turnaround Time | |
| No. Samble Describtion Time Date U | Laburatory No. | No. of Containers Unpreserved H2SO, HNO, HCI Methanol | GRO by 8015 BTEX by 8260 5-oxygenates by 8260 | 24-hours Standard | Sample Point Lat/Long and Comments |
| | | <u> </u> | x x x | X X | 5-oxygenates requested are |
| 1 02111DP (NF 05) 33 x | 0.1 | <u> </u> | | | MTBE, DIPE, ETBE, TAME, and |
| 2 02111ASWINF 0549 X | 02 | 2 | x x x | x | TBA. |
| 3 02111ASWEFF 8547 x | 03 7 | 3 | xxx | x | |
| 4 02111WGAC1 7549 X | ठप ह | 3 1 | xxx | x | |
| 5 02111WEFF D543 / x | 05 | 3 | x x x | x | |
| 6 02111MW2WINF 0559 x | 06 | 3 1 | ххх | ж | |
| 7 | | | - | | |
| 9 | - - | | | | |
| io , , , , | | | | | |
| Sampler's Name: CV/19 HIII | Repl | nquisted By / Affillasion | Date Time | , Accepted By / | Alliliation Dates Time |
| Sampler's Company: Stratus Environmental, Inc. Shipment Date: | That the | 1 stutu | 1234 1034 | June 10. /17 | 7WH 15/2/02 103 |
| Shipment Method: 5 mM | | | | | |
| ioment Tracking No: | | | | | |
| | o bpedf@broadbentinc | Com | | JL | <u> </u> |
| dy Seals In Place: Yes / No) Temp Blank: | | Temp on Receipt: 7, 8 °F/C |)[Trip Blank: Y | Yes/No MS/MSD | Sample Submitted: Yes / No |

TEST AMERICA SAMPLE RECEIPT LOG CLIENT NAME: $\Delta R(x)$ DATE REC'D AT LAB: 以夕/07 REC. BY (PRINT) JULIE N. For Regulatory Purposes? TIME REC'D AT LAB: WORKORDER: Malonio3 DRINKING WATER DATE LOGGED IN: 12/05/07 **WASTE WATER** CIRCLE THE APPROPRIATE RESPONSE 🗴 OTHER LAB CONTAINER PRESER CLIENT ID SAMPLE DATE SAMPLE # REMARKS: DESCRIPTION VATIVE рΗ 1. Custody Seal(s) Present / Absent MATRIX SAMPLED CONDITION (ETC.) Intact / Broken 2. Chain-of-Custody Present / Absent* 3. Traffic Reports or Packing List: Present / Absent 4. Airbill: Airbill / Sticker Present / Absent 5. Airbill #: 6. Sample Labels: Present / Absent 7. Sample IDs: Ligted / Not Listed on Chain-of-Custody 8. Sample Condition: Intact / Broken*/ Leaking* 9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes / No* 10. Sample received within hold time? Yes/ No* 11. Adequate sample volume received? Yes / No* 12. Proper preservatives used? Yes / No* 13. Trip Blank / Temp Blank Received? (Circle which, & yes) Yes / Mo* 14. Read Temp: Correction Factor: ~1.0°C Corrected Temp: is corrected temp, 0-8°C? Yes/No** **Exception (if any): Metals / Perchlorate DFF on log or Problem COC *IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION. MPLERECEIPTLOG g **8 (10/26/07)**

APPENDIX D

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



TRANSMITTAL

| | | Date | November 5, 2007 |
|-------------|--------------------------------------|-----------|---------------------------|
| | | Project | E2111-03 |
| To: | | | |
| Ms. Tiffany | Treece | | |
| City of San | Leandro | | |
| Civic Cente | r, 835 E. 14 th Street | | |
| San Leandro | o, CA 94577 | | |
| Re: Permit | SD-036, ARCO Service Station No. 2 | 111, 1156 | Davis Street, San Leandro |
| <u>Item</u> | Description | | |
| 1 | Monthly Discharge Report for October | r 2007 | |
| 2 | Table 1– Sewer Discharge Summary F | Report | |
| | | | |
| Comments: | | | |

Dear Ms. Treece:

Please find attached for your review the *Monthly Discharge Report* for October 2007, for the remediation system at ARCO Service Station No. 2111, located at 1156 Davis Street, San Leandro, California. A total of approximately 2,204 gallons of treated groundwater were discharged to the sanitary sewer between September 17, 2007 and October 30, 2007.

If you have any questions or need any additional information, please call either Kiran Nagaraju at (530) 676 6007 or myself at (530) 676-6000.

Sincerely,

Jay R. Johnson, P.G. Project Manager

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

MONTHLY DISCHARGE REPORT ARCO SERVICE STATION #2111, 1156 DAVIS STREET

This form and enclosed documents serve as the remediation activities monthly discharge report to the City of San Leandro for the reporting period of: <u>September 17, 2007</u> to <u>October 30, 2007</u>. 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 <u>Kiran Nagaraju</u> at (530) 676 6007.

Number of days discharged: 43

Total monthly discharge: 2,204 U. S. Gallons

Signature of Certifying Official:

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

Title: Project Manager

Date: November 5, 2007

<u>Include a brief statement summarizing the month's operations:</u>

The operation of the dual phase extraction (DPE) system, air stripper (AS) and the groundwater extraction and treatment system (GETS) was initiated on January 29, 2007. Soil vapors and groundwater were concurrently extracted from wells V-1, V-2, V-3, MW-1, MW-3, MW-7, and MW-8 using the liquid ring pump of the DPE system. In addition, groundwater was also extracted from well MW-2 using the electrical submersible pump. The groundwater extracted by both the DPE and the submersible pump is treated using the air stripper and two 2,000-pound carbon vessels in series prior to the discharge to the sewer. The remediation systems were shutdown on October 1, 2007, after sampling, pending receipt and verification of analytical results. Since MTBE (0.61 mg/m³) was reported in the effluent air sample collected on October 1, 2007, it was re-sampled on October 11, 2007 and the remediation systems were shutdown on October 11, 2007 pending receipt and verification of analytical results for the effluent air sample. Petroleum hydrocarbons and fuel oxygenates were below laboratory reporting limits in the effluent air sample collected on October 11, 2007. The GETS was re-started on October 23, 2007. The GETS was found non-functioning during a site visit conducted on October 30, 2007 due to high-water level alarm on the air-stripper. The GETS was re-started on the same day after re-setting the air stripper.

Submit reports to:

City of San Leandro - Environmental Services Division

835 East 14th Street, San Leandro CA 94577

| | 1 | 7 | |
|---------------------------|--|---|-------------------------------|
| Report Month (month/year) | Date | Effluent Totalizer Reading (gallons) | Monthy Discharge (gallons) |
| | 1/29/07 8:00 | System Start-up | |
| | 1/29/07 8:00 | 3,000 | |
| January-07 | 1/29/07 ¹ 12:00 | 5,000 | 5,560 |
| | 01/30/07 | 6,200 | |
| | 01/31/07 | 8,560 | |
| | 2/1/07 5:15 | 16,860 | |
| February-07 | 2/2/07 5:00 | 25,480 | 114,230 |
| • | 2/5/07 5:00 | 33,400 | 111,250 |
| | 2/20/07 6:30 | 122,790 | |
| | 3/5/07 ² 5:00 | 130,565 | |
| March-07 | 3/8/07 ³ 4:50 | 132,951 | 10,472 |
| | 3/14/07 ⁴ 7:00 | NM | 10,472 |
| | 3/29/07 ⁵ 10:00 | 133,262 | |
| | 4/2/07 ⁶ 5:30 | 170,596 | |
| April-07 | 4/10/07 ⁷ 5:00 4/23/07 ⁸ 7:00 | NM | 66,881 |
| | 4/26/07 6:00 | 172,210 200,143 | |
| | 5/1/2007 ⁹ 4:50 | 220,892 | |
| May-07 | 5/15/2007 ¹⁰ 5:00 | 225,297 | 210,103 |
| | 5/29/07 8:30 | 410,246 | |
| | 6/4/2007 ¹¹ 5:00 | 429,450 | |
| June-07 | 6/12/2007 ¹² 5:00 | 430,092 | 19,976 |
| | 6/26/2007 ¹³ 4:30 | 430,222 | |

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

| Report Month (month/year) | Date | Effluent Totalizer Reading (gallons) | Monthy Discharge (gallons) |
|---------------------------|---|---|-------------------------------|
| July-07 | 7/2/07 5:30 7/10/2007 ¹⁴ 5:45 7/17/2007 ¹⁵ 5:00 | , | 115,872 |
| August-07 | 8/1/2007 ¹⁵ 5:00 8/7/07 5:00 8/20/2007 ¹⁵ 5:00 | 580,301 580,662 582,706 | 36,612 |
| September-07 | 9/5/2007 ¹⁶ 5:00 9/11/2007 ¹⁷ 9:00 9/17/2007 ¹⁸ 5:30 | 589,944 589,950 591,443 | 8,737 |
| October-07 | 10/1/07 ¹⁹ 5:00 10/11/07 ²⁰ 8:15 10/23/07 ¹⁷ 5:00 10/30/07 ¹⁵ 7:10 | 592,403 NM NM 593,647 | 2,204 |

Notes:

NM = Not measured

¹ Submersible pump at well MW-2 was shutdown. This pump will be re-started after troubleshooting the level floats/controller malfunction.

System observed non-functioning upon arrival. Re-started by re-setting power supply.

System shutdown to verify effluent air results.

⁴ System shutdown due to float malfunction.

⁵ System re-started after replacing the floats.

⁶ System shutdown due to high-level in oil-water separator. System restarted after replacing a capacitor on the transfer pump.

System shutdown due to transfer pump malfunction. System could not be restarted pending replacement of transfer pump.

System restarted after replacing transfer pump.

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.

lo System re-started upon compliance verification and after conducting maintenance on the liquid ring pump.

¹¹ System observed non-functioning upon arrival due to high water level alarm on air stripper. System re-started, but shutdown after sampling pending receipt and verification of analytical results.

TABLE 1

SEWER DISCHARGE SUMMARY REPORT

| Report Month (month/year) | i Date | Effluent Totalizer Reading (gallons) | , , |
|------------------------------|--------|---|-----|
|------------------------------|--------|---|-----|

¹² System re-started momentarily upon compliance verification and to collect carbon sample for profiling and change-out.

¹³ System re-started upon receipt of analytical results for carbon profile.

¹⁴ System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started after replacing particulate filters on the system.

¹⁵ System observed non-functioning upon arrival due to high water level alarm on air stripper. System re-started after re-setting air stripper.

¹⁶ System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started, but shutdown after sampling pending receipt and verification of analytical results.

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

¹⁸ System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started momentarily after conducting maintenance, but shutdown pending further troubleshooting.

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

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



TRANSMITTAL

| | Date | December 3, 2007 |
|---|-----------|---------------------------|
| | Project _ | E2111-03 |
| To: | | |
| Ms. Tiffany Treece | | |
| City of San Leandro | _ | |
| Civic Center, 835 E. 14 th Street | | |
| San Leandro, CA 94577 | _ | |
| Re: Permit # SD-036, ARCO Service Station No. 2 | 111, 1156 | Davis Street, San Leandro |
| <u>Item</u> <u>Description</u> | | |

Monthly Discharge Report for November 2007

Table 1– Sewer Discharge Summary Report

Comments:

1

2

Dear Ms. Treece:

Please find attached for your review the *Monthly Discharge Report* for November 2007, for the remediation system at ARCO Service Station No. 2111, located at 1156 Davis Street, San Leandro, California. A total of approximately 19,890 gallons of treated groundwater were discharged to the sanitary sewer between October 30, 2007 and November 20, 2007.

If you have any questions or need any additional information, please call either Kiran Nagaraju at (530) 676 6007 or myself at (530) 676-6000.

Sincerely,

Jay R. Johnson, P.G. Project Manager

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

MONTHLY DISCHARGE REPORT ARCO SERVICE STATION #2111, 1156 DAVIS STREET

This form and enclosed documents serve as the remediation activities monthly discharge report to the City of San Leandro for the reporting period of: October 30, 2007 to November 20, 2007. This report is submitted in compliance with 40 CFR 403.12 and Part III (A) of Special Discharge Permit **SD-036**. The information contained in this report is accurate and complete. For any questions or comments regarding this report, contact <u>Kiran Nagaraju</u> at (530) 676 6007.

Number of days discharged: 21

Total monthly discharge: 19,890 U. S. Gallons

Signature of Certifying Official:

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

Title: Project Manager

Date: December 3, 2007

<u>Include a brief statement summarizing the month's operations:</u>

The operation of the dual phase extraction (DPE) system, air stripper (AS) and the groundwater extraction and treatment system (GETS) was initiated on January 29, 2007. Soil vapors and groundwater were concurrently extracted from wells V-1, V-2, V-3, MW-1, MW-3, MW-7, and MW-8 using the liquid ring pump of the DPE system. In addition, groundwater was also extracted from well MW-2 using the electrical submersible pump. The groundwater extracted by both the DPE and the submersible pump is treated using the air stripper and two 2,000-pound carbon vessels in series prior to the discharge to the sewer. The remediation systems were found non-functioning on November 6, 2007, due to high-water level alarm on the air stripper. The remediation systems were re-started momentarily on November 6, 2007 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 November 14, 2007. The remediation systems were found non-functioning during a site visit conducted on November 20, 2007 due to high-water level alarm on the air-stripper. The remediation systems were re-started on the same day after re-setting the air stripper.

Submit reports to:

City of San Leandro – Environmental Services Division 835 East 14th Street, San Leandro CA 94577

| Report Month (month/year) | Date | Effluent Totalizer Reading (gallons) | Monthy Discharge (gallons) | |
|---------------------------|---|---|----------------------------|--|
| | 1/29/07 8:00 | System Start-up | | |
| | 1/29/07 8:00 | 3,000 | | |
| January-07 | 1/29/07 ¹ 12:00 | 5,000 | 5,560 | |
| | 01/30/07 | 6,200 | | |
| | 01/31/07 | 8,560 | · | |
| | 2/1/07 5:15 | 16,860 | | |
| February-07 | 2/2/07 5:00 | 25,480 | 114,230 | |
| | 2/5/07 5:00 | 33,400 | 111,250 | |
| | 2/20/07 6:30 | 122,790 | | |
| | 3/5/07 ² 5:00 | 130,565 | | |
| March-07 | 3/8/07 ³ 4:50 | 132,951 | 10,472 | |
| | 3/14/07 ⁴ 7:00 | NM | 10,472 | |
| | 3/29/07 ⁵ 10:00 | 133,262 | | |
| | 4/2/07 ⁶ 5:30 | 170,596 | 1.70 | |
| April-07 | 4/10/07 ⁷ 5:00 | NM | 66,881 | |
| | 4/23/07 ⁸ 7:00 4/26/07 6:00 | 172,210 200,143 | · | |
| | 4/20/07 0.00 | 200,143 | | |
| | 5/1/20079 4:50 | 220,892 | | |
| May-07 | 5/15/2007 ¹⁰ 5:00 | 225,297 | 210,103 | |
| | 5/29/07 8:30 | 410,246 | | |
| | 6/4/2007 ¹¹ 5:00 | 429,450 | | |
| June-07 | 6/12/2007 ¹² 5:00 | 430,092 | 19,976 | |
| | 6/26/2007 ¹³ 4:30 | 430,222 | | |

TABLE 1

SEWER DISCHARGE SUMMARY REPORT

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

| Report Month (month/year) | Date | Effluent Totalizer Reading (gallons) | Monthy Discharge (gallons) |
|---|-----------------------------|---|----------------------------|
| | 7/2/07 5:30 | 480,377 | |
| July-07 | 7/10/2007 14 5:45 | 523,553 | 115,872 |
| | 7/17/2007 15 5:00 | 546,094 | |
| | 8/1/2007 15 5:00 | 580,301 | |
| August-07 | 8/7/07 5:00 | 580,662 | 36,612 |
| | 8/20/2007 15 5:00 | 582,706 | |
| 1 | 9/5/2007 16 5:00 | 700011 | |
| Contourbon 07 | | 589,944 | 0.727 |
| September-07 | 9/11/2007 17 9:00 | , | 8,737 |
| | 9/17/2007 18 5:30 | 591,443 | |
| | 10/1/07 19 5:00 | 592,403 | |
| October-07 | 10/11/07 ²⁰ 8:15 | NM | 2,204 |
| 0010001-07 | 10/23/07 ¹⁷ 5:00 | NM | 2,204 |
| | 10/30/07 15 7:10 | 593,647 | |
| | 11/6/07 11 4:30 | 612.552 | |
| November-07 | 11/14/07 17 6:00 | 612,552 | 19,890 |
| 140VCHIOCI-U/ | 11/20/07 15 6:50 | 612,552 | 19,090 |
| | 11/20/07 6:50 | 613,537 | |
| | | | |

Notes:

NM = Not measured

Submersible pump at well MW-2 was shutdown. This pump will be re-started after troubleshooting the level floats/controller malfunction.

² System observed non-functioning upon arrival. Re-started by re-setting power supply.

³ System shutdown to verify effluent air results.

⁴ System shutdown due to float malfunction.

System re-started after replacing the floats.

⁶ System shutdown due to high-level in oil-water separator. System restarted after replacing a capacitor on the transfer pump.

System shutdown due to transfer pump malfunction. System could not be restarted pending replacement of transfer pump.

⁸ System restarted after replacing transfer pump.

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.

TABLE 1

SEWER DISCHARGE SUMMARY REPORT

| Report Month (month/year) | Date | Effluent Totalizer Reading (gallons) | • |
|---------------------------|------|---|---|
|---------------------------|------|---|---|

¹⁰ System re-started upon compliance verification and after conducting maintenance on the liquid ring pump.

¹¹ System observed non-functioning upon arrival due to high water level alarm on air stripper. System re-started, but shutdown after sampling pending receipt and verification of analytical results.

¹² System re-started momentarily upon compliance verification and to collect carbon sample for profiling and change-out.

¹³ System re-started upon receipt of analytical results for carbon profile.

¹⁴ System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started after replacing particulate filters on the system.

¹⁵ System observed non-functioning upon arrival due to high water level alarm on air stripper. System re-started after re-setting air stripper.

¹⁶ System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started, but shutdown after sampling pending receipt and verification of analytical results.

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

¹⁸ System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started momentarily after conducting maintenance, but shutdown pending further troubleshooting.

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

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



TRANSMITTAL

| | Date | January 4, 2008 |
|--|-----------|---------------------------|
| | Project | E2111-03 |
| To: | | |
| Ms. Tiffany Treece | | |
| City of San Leandro | _ | |
| Civic Center, 835 E. 14 th Street | _ | |
| San Leandro, CA 94577 | _ | |
| Re: Permit # SD-036, ARCO Service Station No. 21 | 111, 1156 | Davis Street, San Leandro |

| <u>Item</u> | <u>Description</u> |
|-------------|--|
| 1 | Monthly Discharge Report for December 2007 |
| 2 | Table 1- Sewer Discharge Summary Report |
| | |

Comments:

Dear Ms. Treece:

Please find attached for your review the *Monthly Discharge Report* for December 2007, for the remediation system at ARCO Service Station No. 2111, located at 1156 Davis Street, San Leandro, California. A total of approximately 19,586 gallons of treated groundwater were discharged to the sanitary sewer between November 20, 2007 and December 17, 2007.

If you have any questions or need any additional information, please call either Kiran Nagaraju at (530) 676 6007 or myself at (530) 676-6000.

Sincerely,

Jay R. Johnson, P.G. Project Manager

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

MONTHLY DISCHARGE REPORT ARCO SERVICE STATION #2111, 1156 DAVIS STREET

This form and enclosed documents serve as the remediation activities monthly discharge report to the City of San Leandro for the reporting period of: November 20, 2007 to December 17, 2007. This report is submitted in compliance with 40 CFR 403.12 and Part III (A) of Special Discharge Permit **SD-036**. The information contained in this report is accurate and complete. For any questions or comments regarding this report, contact <u>Kiran Nagaraju</u> at (530) 676 6007.

Number of days discharged: 27

Total monthly discharge: 19,586 U.S. Galtons

Signature of Certifying Official:

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

Title: Project Manager

Date: January 4, 2008

<u>Include a brief statement summarizing the month's operations:</u>

The operation of the dual phase extraction (DPE) system, air stripper (AS) and the groundwater extraction and treatment system (GETS) was initiated on January 29, 2007. Soil vapors and groundwater were concurrently extracted from wells V-1, V-2, V-3, MW-1, MW-3, MW-7, and MW-8 using the liquid ring pump of the DPE system. In addition, groundwater was also extracted from well MW-2 using the electrical submersible pump. The groundwater extracted by both the DPE and the submersible pump is treated using the air stripper and two 2,000-pound carbon vessels in series prior to the discharge to the sewer. The remediation systems were found non-functioning on December 5, 2007 due to high-water level alarm on the air stripper. The remediation systems were re-started momentarily on December 5, 2007 and shutdown after sampling, pending receipt of analytical results. Upon receipt of analytical results and compliance verification, the remediation systems were re-started on December 17, 2007.

Submit reports to:

City of San Leandro - Environmental Services Division

835 East 14th Street, San Leandro CA 94577

| Report Month (month/year) | Date | Effluent Totalizer Reading (gallons) | Monthy Discharge (gallons) |
|---|--|---|--|
| | 1/29/07 8:00 | System Start-up | |
| | 1/29/07 8:00 | 3,000 | |
| January-07 | 1/29/07 ¹ 12:00 | 5,000 | 5,560 |
| | 01/30/07 | 6,200 | |
| | 01/31/07 | 8,560 | |
| | 2/1/07 5:15 | 16,860 | ************************************** |
| February-07 | 2/2/07 5:00 | 25,480 | 114,230 |
| | 2/5/07 5:00 | 33,400 | 111,250 |
| | 2/20/07 6:30 | 122,790 | |
| | 3/5/07 ² 5:00 | 130,565 | |
| March-07 | 3/8/07 ³ 4:50 | 132,951 | 10,472 |
| | 3/14/07 ⁴ 7:00 | NM | 10,472 |
| | 3/29/07 ⁵ 10:00 | 133,262 | |
| | 4/2/07 ⁶ 5:30 | 170,596 | |
| April-07 | 4/10/07 ⁷ 5:00 4/23/07 ⁸ 7:00 | NM | 66,881 |
| | 4/26/07 6:00 | 172,210 200,143 | |
| | | | |
| | 5/1/20079 4:50 | 220,892 | |
| May-07 | 5/15/2007 ¹⁰ 5:00 | 225,297 | 210,103 |
| | 5/29/07 8:30 | 410,246 | |
| 7 77 77 77 77 77 77 77 77 77 77 77 77 7 | 6/4/2007 ¹¹ 5:00 | 429,450 | |
| June-07 | 6/12/2007 ¹² 5:00 | 430,092 | 19,976 |
| | 6/26/2007 ¹³ 4:30 | 430,222 | |

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

| Report Month (month/year) | Date | Effluent Totalizer Reading (gallons) | Monthy Discharge (gallons) |
|---------------------------|---|---|-------------------------------|
| July-07 | 7/2/07 5:30 7/10/2007 ¹⁴ 5:45 7/17/2007 ¹⁵ 5:00 | 1 , | 115,872 |
| August-07 | 8/1/2007 ¹⁵ 5:00 8/7/07 5:00 | 580,301 580,662 | 36,612 |
| September-07 | 8/20/2007 ¹⁵ 5:00 9/5/2007 ¹⁶ 5:00 9/11/2007 ¹⁷ 9:00 | 582,706 589,944 589,950 | 8,737 |
| September-07 | 9/17/2007 ¹⁸ 5:30 | 591,443 | 0,737 |
| October-07 | 10/1/07 ¹⁹ 5:00 10/11/07 ²⁰ 8:15 10/23/07 ¹⁷ 5:00 10/30/07 ¹⁵ 7:10 | 592,403 NM NM 593,647 | 2,204 |
| November-07 | 11/6/07 ¹¹ 4:30 11/14/07 ¹⁷ 6:00 11/20/07 ¹⁵ 6:50 | 612,552 612,552 613,537 | 19,890 |
| December-07 | 12/5/07 ¹¹ 5:00 12/17/07 ¹⁷ 4:30 | 633,121 633,123 | 19,586 |

Notes:

NM = Not measured

¹ Submersible pump at well MW-2 was shutdown. This pump will be re-started after troubleshooting the level floats/controller malfunction.

² System observed non-functioning upon arrival. Re-started by re-setting power supply.

B System shutdown to verify effluent air results.

⁴ System shutdown due to float malfunction.

⁵ System re-started after replacing the floats.

System shutdown due to high-level in oil-water separator. System restarted after replacing a capacitor on the transfer pump.

⁷ System shutdown due to transfer pump malfunction. System could not be restarted pending replacement of transfer pump.

TABLE 1

SEWER DISCHARGE SUMMARY REPORT

| Report Month (month/year) | Date | Effluent Totalizer Reading (gallons) | , , |
|---------------------------|------|---|-----|
|---------------------------|------|---|-----|

System restarted after replacing transfer pump.

System observed non-functioning upon arrival due to DPE liquid ring pump malfunction. System re-started, but shutdown after sampling pending receipt and verification of analytical results.

¹⁰ System re-started upon compliance verification and after conducting maintenance on the liquid ring pump.

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

¹² System re-started momentarily upon compliance verification and to collect carbon sample for profiling and change-out.

¹³ System re-started upon receipt of analytical results for carbon profile.

¹⁴ System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started after replacing particulate filters on the system.

¹⁵ System observed non-functioning upon arrival due to high water level alarm on air stripper. System re-started after re-setting air stripper.

¹⁶ System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started, but shutdown after sampling pending receipt and verification of analytical results.

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

¹⁸ System observed non-functioning upon arrival due to high-level in oil-water separator. System re-started momentarily after conducting maintenance, but shutdown pending further troubleshooting.

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

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



TRANSMITTAL

| | | Date | December 14, 2007 |
|--------------|-----------------------------------|-------------|--------------------|
| | | Project _ | E2111-03 |
| To: | | | |
| Mr. Robert | Cave | | |
| Bay Area A | ir Quality Management District | | |
| 939 Ellis St | reet | | |
| San Francis | co, CA 94109-7799 | | |
| Re: | Plant Number 16189, 1156 Davis St | reet, San L | eandro, California |
| <u>Item</u> | Description | | |
| 1 | Completed Annual Data Update Form | | |

Comments:

Dear Mr. Cave:

Please find attached for your review the completed *Annual Data Update Form* for the soil vapor extraction (SVE) system and air stripper installed at ARCO Service Station No. 2111, located at 1156 Davis Street, San Leandro, California. The operation of the SVE system, air stripper, and the groundwater extraction and treatment system (GETS) was initiated on January 29, 2007. The SVE system operated for a total of approximately 1,531 hours between January 2007 and December 2007. The average soil vapor flow rate during this period was 195.38 cfm. Additionally, the GETS discharged a total of approximately 630,121 gallons of treated groundwater between January 2007 and December 2007.

If you have any questions or need any additional information, please call Kiran Nagaraju at (530) 676-6007 or Jay Johnson at (530) 676-6000.

Sincerely,
Jay R. Johnson, P.G.
Project Manager

cc: Mr. Paul Supple, Atlantic Richfield Company Mr. Rob Miller, Broadbent and Associates, Inc.



NOV 2 6 2007

PLANT# 16189

INFORMATION UPDATE ______

Date: Nov 12, 2007

TO:

Arco #2111 c/o Stratus Environmental Inc

3330 Cameron Park Dr, Suite 550

Cameron Park, CA 95682

ATTN: Kiran Nagaraju, Staff Engineer

Direct inquiries to:

(530) 676-6007

Robert E Cave (415) 749-5048

PLANT# 16189

Arco #2111 c/o Stratus Environmental Inc <---- Permitted Operator 1156 Davis Street San Leandro, CA 94577

Information about certain sources of air pollution at your plant must be obtained annually. Please complete the enclosed Annual Update Forms, and return them by Dec 17, 2007, in the envelope provided.

IMPORTANT

Failure to provide the requested data may result in the suspension of your Permit to Operate and/or other legal action.

PLANT CLOSED

If this plant is no longer in operation, please write "CLOSED" on the top of this sheet and send it to us in the return envelope.

NEW OPERATOR

If the "Permitted Operator" shown above is incorrect, please mark corrections on this sheet and return it together with the COMPLETED Data Update Forms.

ENCLOSURES

- Description of Annual Update Program,
 Instructions for filling out forms,
- 3) Annual Update Forms for selected sources,
- 4) X-Forms (additional forms will be sent upon request)
- 5) Toxic Substance Checklist

Arco #2111 c/o Stratus Environmental Inc 1156 Davis Street San Leandro, CA 94577

ANNUAL DATA UPDATE FORM

| S# 3 | 1 | GROUNDWATER TREATMENT SYSTEM ************** |
|------|---|--|
| | | Water/organics mixture (1-G7155502) |
| | | 12-month throughput, thou gallons 630 |
| | | For period ending (date) |
| | | Complete Form X, Part 2, for any other material used in this source. |
| S# 2 | ? | SOIL VAPOR EXTRACTION SYSTEM ************** |
| | | Contaminated soil vapor (2-G7156572) |
| | | 12-month throughput, cubic feet |
| | | For period ending (date) |
| | (| omplete Form X, Part 2, for any other material used in this source. |