RECEIVED



2:27 pm, May 01, 2007

Alameda County Environmental Health



Atlantic Richfield Company (a BP affiliated company)

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

April 30, 2007

Re: First Quarter, 2007 Ground-Water Monitoring Report Atlantic Richfield Company Station #4977 2770 Castro Valley Boulevard Castro Valley, California ACEH Case No. RO0002436

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

Submitted by:

Paul Supple

Environmental Business Manger

First Quarter, 2007 Ground-Water Monitoring Report

Atlantic Richfield Company Station #4977 2770 Castro Valley Boulevard Castro Valley, California

Prepared for

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

Prepared by



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

April 2007

Project No. 06-02-625

Broadbent & Associates, Inc. 1324 Mangrove Ave., Suite 212 Chico, CA 95926 Voice (530) 566-1400 Fax (530) 566-1401



April 30, 2007

Project No. 06-02-625

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

Attn.: Mr. Paul Supple

Re:

First Quarter, 2007 Ground-Water Monitoring Report, Atlantic Richfield Company (a BP

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

Valley, CA. ACEH Case No. RO0002436.

Dear Mr. Supple:

Provided herein is the *First Quarter*, 2007 Ground-Water Monitoring Report for Atlantic Richfield Company Station #4977 (herein referred to as Station #4977) located at 2770 Castro Valley Boulevard, Castro Valley, CA (Property). This report presents a summary of First Quarter, 2007 ground-water monitoring results.

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

Sincerely,

BROADBENT & ASSOCIATES, INC.

Matthew Herrick, P.G. Project Hydrogeologist

Aby 71. Mill

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

Enclosures

cc: Mr. Steven Plunkett, Alameda County Environmental Health (submitted via ACEH ftp

site)

ARIZONA

CALIFORNIA

NEVADA

TEXAS

ROBERT H

MILLER

STATION #4977 QUARTERLY GROUND-WATER MONITORING REPORT

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

Station #4977 Environmental Business

Manager: Mr. Paul Supple

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

Consultant Project No.: 06-02-625

Facility Permits/Permitting Agency.: NA

WORK PERFORMED THIS QUARTER (First Quarter, 2007):

- 1. Submitted Fourth Quarter, 2006 Ground-Water Monitoring Report. Work performed by BAI.
- 2. Conducted ground-water monitoring/sampling for First Quarter, 2007. Work performed by Stratus Environmental, Inc.

WORK PROPOSED FOR NEXT QUARTER (Second Quarter, 2007):

- 1. Submit First Quarter, 2007 Ground-Water Monitoring Report (contained herein).
- 2. Conduct quarterly ground-water monitoring/sampling for Second Quarter, 2007.

QUARTERLY RESULTS SUMMARY:

| Current phase of project: | Ground-water monitoring/sampling |
|---------------------------------------|------------------------------------|
| Frequency of ground-water sampling: | Wells MW-1 through MW-3: Quarterly |
| Frequency of ground-water monitoring: | Quarterly |
| Is free product (FP) present on-site: | No |
| Current remediation techniques: | None |
| Depth to ground water (below TOC): | 6.03 (MW-2) to 7.70 (MW-1) feet |
| General ground-water flow direction: | South |
| Approximate hydraulic gradient: | 0.020 Feet per foot |

DISCUSSION:

Gasoline range organics (GRO) were detected in MW-2 and MW-3 at 16,000 micrograms per liter (μ g/L) and 390 μ g/L, respectively. Benzene was detected in MW-2 and MW-3 at 530 μ g/L and 3.0 μ g/L, respectively. Ethylbenzenene was detected in MW-2 and MW-3 at 1,100 μ g/L and 9.1 μ g/L, respectively. Xylenes were detected in MW-2 and MW-3 at 1,100 μ g/L and 0.60 μ g/L, respectively. Methyl tert-butyl ether (MTBE) was detected in MW-1, MW-2, and MW-3 at concentrations ranging from 2.3 μ g/L (MW-1) to 80 μ g/L (MW-2). Tert-Butyl alcohol was detected in MW-3 at 130 μ g/L. No other analytes were detected in ground-water samples collected during First Quarter, 2007.

Analytes detected during First Quarter, 2007 were all within the historic minimum and maximum concentration ranges recorded for each well. Ground-water elevations measured during First Quarter, 2007 were also within historic minimum and maximum ranges for each well.

Drawing 1 depicts the ground-water elevation contour and an analytical summary map for the First Quarter, 2007. Table 1 includes a summary of ground-water monitoring data including relative water elevations and laboratory analyses. Table 2 provides a summary of fuel additives analytical data. Table 3 presents historical ground-water flow direction and gradient.

CLOSURE:

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

ATTACHMENTS:

| Drawing 1. | Ground-Water Elevation Contour and Analytical Summary Map, Station #4977, Castro |
|------------|--|
| | Valley, CA |

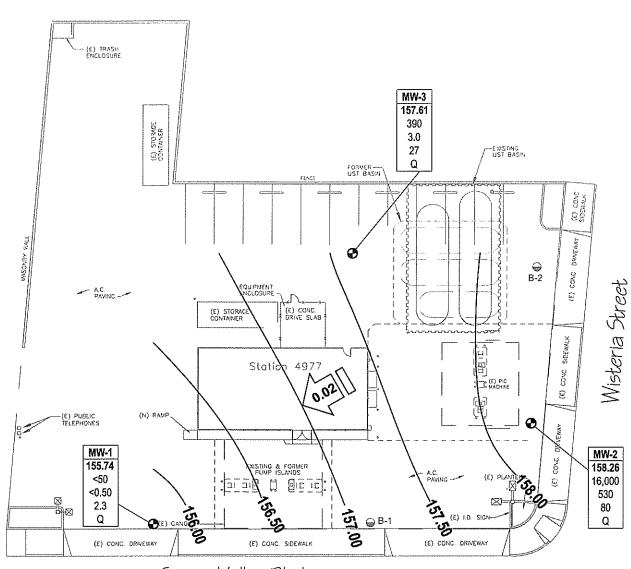
| Table 1. | Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory |
|----------|---|
| | Analyses, Station #4977, Castro Valley, CA |

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

Table 3. Historical Ground-Water Flow Direction and Gradient, Station #4977, Castro Valley, CA

Appendix A. Stratus Environmental, Inc. Ground-Water Sampling Data Package (Includes Bill of Lading, Field Data Sheets, and Laboratory Report and Chain of Custody Documentation)

Appendix B. GeoTracker Upload Confirmation



Castro Valley Blvd.

LEGEND

MONITORING WELL

SOIL BORING

Well WELL DESIGNATION

ELEV GROUND-WATER ELEVATION (FT ABOVE MSL)

GRO
BZ CONCENTRATION OF GRO, BENZENE
AND MTBE IN GROUND WATER (µg/L)

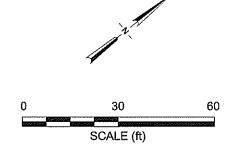
SAMPLING FREQUENCY

- NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
- Q SAMPLED QUARTERLY

-156.50 GROUND-WATER ELEVATION CONTOUR (FT ABOVE MSL)

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

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





ENGINEERING, WATER RESOURCES & ENVIRONMENTAL 1324 Mangrove Ave. Suite 212, Chico, California 95926
Project No.: 06-02-625 Date: 4/19/07

Station #4977 2770 Castro Valley Blvd. Castro Valley, California Ground-Water Elevation Contour and Analytical Summary Map March 29, 2007 Drawing

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

| - Contraction of the Contraction | | | | Top of | Bottom of | | Water Level | | | Concentra | tions in (µ | g/L) | | | |
|--|------|---|------------|----------|-----------|------------|-------------|--------|---------|-----------|-------------|---------|-------|--------|--------|
| Well and | | | тос | Screen | Screen | DTW | Elevation | GRO/ | | | Ethyl- | Total | | DO | |
| Sample Date | P/NP | Comments | (feet msl) | (ft bgs) | (ft bgs) | (feet bgs) | (feet msl) | TPHg | Benzene | Toluene | Benzene | Xylenes | MTBE | (mg/L) | рH |
| MW-1 | | | | | | | | | | | | | | | |
| 4/19/2002 | | | 161.11 | 5.0 | 15.0 | 11.21 | 149.90 | 660 | 12 | 1.3 | 4.3 | 8.0 | 38 | - | 77 |
| 9/27/2002 | w | | 161.11 | 5.0 | 15.0 | 9.29 | 151.82 | 130 | 7.7 | 0.87 | 5.4 | 0.79 | 39 | 1.7 | 6.9 |
| 12/16/2002 | | a | 161.11 | 5.0 | 15.0 | 8.55 | 152.56 | 77 | 1.8 | <0.50 | 0.69 | <1.0 | 42 | 1.6 | 6.9 |
| 3/11/2003 | | 1 | 161.11 | 5.0 | 15.0 | 8.07 | 153.04 | 140 | 9.8 | <0.50 | 5.6 | <0.50 | 20 | 1.4 | 7.4 |
| 6/17/2003 | - | | 161.11 | 5.0 | 15.0 | 8.31 | 152.80 | 510 | 60 | 1.4 | 81 | <1.0 | 23 | 2.2 | 7 |
| 9/18/2003 | | ь | 161.11 | 5.0 | 15.0 | 9.45 | 151.66 | 72 | 2.4 | 1.4 | 1.6 | 1.5 | 39 | 2.7 | 7 |
| 12/11/2003 | P | n in the little of the special section. | 161.11 | 5.0 | 15.0 | 8.80 | 152,31 | 79 | 1.5 | <0.50 | 1.5 | 4.4 | 48 | 2.1 | 7.0 |
| 03/11/2004 | P | | 163.44 | 5.0 | 15.0 | 7.61 | 155.83 | <50 | 1.3 | <0.50 | 0.77 | 1.3 | 17 | 1.4 | 6.8 |
| 06/02/2004 | P | | 163.44 | 5.0 | 15.0 | 8.95 | 154:49 | 53 | 1.4 | <0:50 | 0.93 | <0.50 | 39 | 2.3 | 7.1 |
| 09/22/2004 | P | | 163.44 | 5.0 | 15.0 | 9,42 | 154.02 | 70 | <0.50 | <0.50 | <0.50 | <0.50 | 48 | 1.7 | 6.8 |
| 12/15/2004 | P | | 163.44 | 5.0 | 15.0 | 7.88 | 155.56 | 63 | <0.50 | <0.50 | <0.50 | <0.50 | 45 | 1.8 | 6.9 |
| 03/07/2005 | P | | 163.44 | 5.0 | 15.0 | 7.02 | 156.42 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 4.0 | 2.4 | 6.8 |
| 06/27/2005 | P | A DESCRIPTION OF THE PROPERTY | 163.44 | 5.0 | 15.0 | 7.53 | 155.91 | 52 | 2.0 | <0.50 | 1.9 | 0.78 | 8.1 | 2.8 | 7.1 |
| 09/16/2005 | P | | 163.44 | 5.0 | 15.0 | 9.20 | 154.24 | <50 | <0.50 | <0.50 | <0.50 | 0.76 | 14 | 1.82 | 6.9 |
| 12/27/2005 | P | rations flows the second | 163.44 | 5.0 | 15.0 | 7.60 | 155.84 | <50 | 1.3 | <0.50 | 1.5 | <0.50 | 9.4 | 2.02 | 7.87 |
| 03/16/2006 | P | | 163.44 | 5.0 | 15.0 | 6.97 | 156.47 | 71 | 3.0 | <0.50 | 3.5 | <0.50 | 3.4 | 1.6 | 7.1 |
| 6/26/2006 | P | | 163.44 | 5.0 | 15.0 | 8.58 | 154.86 | 71 | 0.69 | <0.50 | 1.1 | 3.5 | 3.2 | 2.2 | 6.9 |
| 9/29/2006 | P | | 163.44 | 5.0 | 15.0 | 8.85 | 154.59 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 5.2 | 2.35 | 6.7 |
| 12/19/2006 | P | | 163.44 | 5.0 | 15.0 | 8.00 | 155.44 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 4.3 | 4.80 | 7.21 |
| 3/29/2007 | P | | 163.44 | 5.0 | 15.0 | 7.70 | 155.74 | <50 | <0.50 | < 0.50 | <0.50 | <0.50 | 2.3 | 3.44 | 7.18 |
| MW-2 | | | | | | | | | | | | | | | |
| 4/19/2002 | | | 161.87 | 5.0 | 15.0 | 6.59 | 155.28 | 28,000 | 970 | 120 | 860 | 6,900 | 760 | I | 102-00 |
| 9/27/2002 | | | 161.87 | 5.0 | 15.0 | 7.18 | 154.69 | 17,000 | 1,400 | <50 | 1,200 | 3,700 | 1,400 | 1.5 | 6.8 |
| 12/16/2002 | | a | 161.87 | 5.0 | 15.0 | 7.31 | 154.56 | 17,000 | 1,000 | - <50 | 980 | 3,300 | 980 | 1.9 | 6.8 |
| 3/11/2003 | | | 161.87 | 5.0 | 15.0 | 6.02 | 155.85 | 24,000 | 1,600 | 70 | 1,300 | 4,300 | 920 | 1.7 | 7.4 |
| 6/17/2003 | | | 161.87 | 5.0 | 15.0 | 6.31 | 155.56 | 28,000 | 1,300 | 55 | 1,300 | 4,500 | 610 | 1.4 | 6.9 |
| 9/18/2003 | ** | | 161.87 | 5.0 | 15.0 | 7.61 | 154,26 | 19,000 | 960 | 63 | 1,100 | 3,100 | 580 | 2.7 | 6.8 |
| 12/11/2003 | P | | 161.87 | 5.0 | 15.0 | 6:50 | 155.37 | 29,000 | 710 | 53 | 1,300 | 3,800 | 490 | 2.0 | 7.0 |
| 03/11/2004 | P | | 164.29 | 5.0 | 15.0 | 6.02 | 158.27 | 19,000 | 830 | 49 | 1,500 | 4,000 | 410 | 0.8 | 6.5 |
| 06/02/2004 | P | | 164.29 | 5.0 | 15.0 | 7.14 | 157:15 | 25,000 | 680 | <50 | 1,300 | 3,900 | 240 | 4.3 | 7.1 |

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

| | | | | Top of | Bottom of | | Water Level | | | Concentra | tions in (µ | g/L) | | Ė | |
|-------------|------|--|------------|----------|-----------|------------|-------------|--------|---|-----------|-------------|---------|--|---------------------|------|
| Well and | | | тос | Screen | Screen | DTW | Elevation | GRO/ | | | Ethyl- | Total | | DO | |
| Sample Date | P/NP | Comments | (feet msl) | (ft bgs) | (ft bgs) | (feet bgs) | (feet msl) | TPHg | Benzene | Toluene | Benzene | Xylenes | MTBE | (mg/L) | pН |
| MW-2 Cont. | | | | | | | | | | | | | | | |
| 09/22/2004 | | | 164.29 | 5.0 | 15.0 | 7.63 | 156.66 | 15,000 | 980 | <25 | 980 | 940 | 390 | - | 6.7 |
| 12/15/2004 | P | c | 164.29 | 5.0 | 15.0 | 6.48 | 157.81 | 22,000 | 610 | 26 | 1,300 | 3,200 | 290 | 0.3 | 6.9 |
| 03/07/2005 | P | 0.0000000000000000000000000000000000000 | 164.29 | 5.0 | 15.0 | 6.08 | 158.21 | 25,000 | 570 | 33 | 1,400 | 3,900 | 120 | 2.3 | 6.8 |
| 06/27/2005 | P | | 164.29 | 5.0 | 15.0 | 6.90 | 157.39 | 24,000 | 630 | 32 | 1,200 | 2,900 | 86 | 2.5 | 7.2 |
| 09/16/2005 | P | Company of the second | 164.29 | 5.0 | 15.0 | 7.66 | 156.63 | 25,000 | 550 | <25 | 1,400 | 3,000 | 82 | 1.41 | 7.0 |
| 12/27/2005 | P | | 164.29 | 5.0 | 15.0 | 5.60 | 158.69 | 33,000 | 540 | <25 | 1,300 | 2,700 | 100 | 2.26 | 7.19 |
| 03/16/2006 | P | C | 164.29 | 5.0 | 15.0 | 7.25 | 157.04 | 29,000 | 710 | <50 | 1,400 | 2,600 | 78 | 1.4 | 7.1 |
| 6/26/2006 | P | С | 164.29 | 5.0 | 15.0 | 6.60 | 157.69 | 20,000 | 630 | <25 | 1,200 | 1,100 | 110 | 0.64 | 6.8 |
| 9/29/2006 | P | | 164.29 | 5.0 | 15.0 | 6.85 | 157.44 | 24,000 | 530 | <25 | 1,300 | 1,800 | 86 | 1.36 | 6.7 |
| 12/19/2006 | P | | 164.29 | 5.0 | 15.0 | 6.02 | 158.27 | 21,000 | 500 | <25 | 1,400 | 1,700 | 70 | 1.11 | 7.42 |
| 3/29/2007 | P | | 164,29 | 5.0 | 15.0 | 6.03 | 158.26 | 16,000 | 530 | <25 | 1,100 | 1,100 | 80 | 2.98 | 7.18 |
| MW-3 | | | | | | | | | *************************************** | | | | The state of the s | | |
| 4/19/2002 | | | 162.14 | 5.0 | 15.0 | 6.94 | 155.20 | 1,200 | 29 | 1.1 | 43 | 62 | 1,700 | h chrod systematics | |
| 9/27/2002 | | | 162.14 | 5.0 | 15.0 | 8.26 | 153.88 | 740 | 7.8 | <2.5 | 6.8 | 4.4 | 1,100 | 1 | 6.7 |
| 12/16/2002 | | a | 162.14 | 5.0 | 15.0 | 6.76 | 155.38 | 1,200 | 13 | <10 | 170 | 88 | 910 | 2.3 | 6.8 |
| 3/11/2003 | | | 162.14 | 5.0 | 15.0 | 6.92 | 155.22 | <2,500 | <25 | <25 | <25 | <25 | 470 | 1.7 | 7.5 |
| 6/17/2003 | - | | 162.14 | 5.0 | 15.0 | 7.44 | 154.70 | <1,000 | <10 | <10 | 14 | <10 | 530 | 1.9 | 7 |
| 9/18/2003 | | | 162.14 | 5.0 | 15.0 | 8.43 | 153.71 | 470 | 4.8 | <2.5 | 10 | 9.2 | 300 | 2.9 | 6.8 |
| 12/11/2003 | P | | 162.14 | 5.0 | 15.0 | 6.72 | 155.42 | <500 | <5.0 | <5.0 | 7.0 | 13 | 180 | 1.9 | 6.9 |
| 03/11/2004 | P | | 164.53 | 5.0 | 15.0 | 6.09 | 158.44 | 360 | 1.9 | <1.0 | 5.6 | 5.0 | 110 | 2.6 | 6.8 |
| 06/02/2004 | P | | 164.53 | 5.0 | 15.0 | 7.50 | 157.03 | 380 | 2.8 | <0.50 | 8.0 | 2.1 | 43 | 3.6 | 7.3 |
| 09/22/2004 | P | PANAGES CONTROL MORE AND ESCALAR STREET, AND E | 164.53 | 5.0 | 15.0 | 8.00 | 156.53 | 270 | <0.50 | <0.50 | 0.54 | <0.50 | 50 | 1.8 | 6.9 |
| 12/15/2004 | P | 100000000000000000000000000000000000000 | 164.53 | 5.0 | 15.0 | 6.43 | 158.10 | 390 | 3.5 | <0.50 | 20 | 3.7 | 49 | 1.1 | 6.9 |
| 03/07/2005 | P | A CONTRACTOR OF THE PROPERTY O | 164.53 | 5.0 | 15.0 | 6.12 | 158.41 | 1,900 | 13 | <1.0 | 93 | 29 | 70 | 2.3 | 6.8 |
| 06/27/2005 | P | | 164.53 | 5.0 | 15.0 | 7.08 | 157.45 | 830 | 4.0 | <0.50 | 13 | 2.8 | 33 | 3.3 | 7.3 |
| 09/16/2005 | P | and the second of the second s | 164.53 | 5.0 | 15.0 | 7.28 | 157.25 | 320 | 2.1 | <0.50 | 5.4 | 0.60 | 21 | 2.11 | 7.0 |
| 12/27/2005 | P | | 164.53 | 5.0 | 15.0 | 6.47 | 158.06 | 770 | 6.0 | <0.50 | 33 | 2.7 | 36 | 2.96 | 7.42 |
| 03/16/2006 | P | | 164.53 | 5.0 | 15.0 | 6.10 | 158.43 | 1,600 | 11 | <0.50 | 59 | 6.4 | 45 | 1.4 | 7.1 |
| 6/26/2006 | P | | 164.53 | 5.0 | 15.0 | 6.92 | 157.61 | 400 | <0.50 | <0.50 | 1.6 | 2.1 | 26 | 2.41 | 7.0 |
| 9/29/2006 | P | | 164.53 | 5.0 | 15.0 | 7.38 | 157.15 | 220 | 0.86 | <0.50 | 2.2 | 0.58 | 14 | 1.95 | 7.0 |

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

| **** | | | | Top of | Bottom of | | Water Level | cel Concentrations in (µg/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) | рH |
| MW-3 Cont. | | | | | | | | | | | | | | | |
| 12/19/2006 | P | | 164.53 | 5.0 | 15.0 | 6.65 | 157.88 | 450 | 4.3 | <0.50 | 19 | 1.4 | 19 | 3.68 | 7.30 |
| 3/29/2007 | P | | 164.53 | 5.0 | 15.0 | 6.92 | 157.61 | 390 | 3.0 | <0.50 | 9.1 | 0.60 | 27 | 1.98 | 7.16 |

SYMBOLS AND ABBREVIATIONS:

< = Not detected at or above specified laboratory reporting limits

-- = Not measured, sampled, analyzed, applicable

ft bgs = Feet below ground surface

DO = Dissolved oxygen

DTW = Depth to water in ft bgs

GRO = Gasoline range organics

GWE = Groundwater elevation in ft MSL

mg/L = Milligrams per liter

ft MSL = Feet above mean sea level

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

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

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

TOC = Top of casing measured in ft MSL

μg/L = Micrograms per liter

FOOTNOTES:

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

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

c =Sheen in well.

NOTES:

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

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

Values for DO and pH were field measurements.

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

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

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

| Well and | Concentrations in (µg/L) | | | | | | | | |
|-------------|--------------------------|--------|------|-------|-------|-------|---------|---|--|
| Sample Date | Ethanol | TBA | MTBE | DIPE | ETBE | TAME | 1,2-DCA | EDB | Comments |
| MW-1 | | | | | | | | *************************************** | |
| 12/16/2002 | <50 | <5.0 | 42 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 3/11/2003 | <100 | <20 | 20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 6/17/2003 | <200 | <40 | 23 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 9/18/2003 | <100 | <20 | 39 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | a |
| 12/11/2003 | <100 | <20 | 48 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 03/11/2004 | <100 | <20 | 17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 06/02/2004 | <100 | <20 | 39 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 09/22/2004 | <100 | <20 | 48 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 200 / |
| 12/15/2004 | <100 | <20 | 45 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | a |
| 03/07/2005 | <100 | <20 | 4.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 06/27/2005 | <100 | <20 | 8.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 09/16/2005 | <100 | <20 | 14 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 12/27/2005 | <100 | <20 | 9.4 | <0,50 | <0.50 | <0.50 | <0.50 | <0.50 | b |
| 03/16/2006 | <300 | <20 | 3.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | c |
| 6/26/2006 | <300 | <20 | 3.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 9/29/2006 | <300 | <20 | 5.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | CONTENTS OF THE PROPERTY OF TH |
| 12/9/2006 | <300 | <20 | 4.3 | <0.50 | <0.50 | <0.50 | <0.50 | | b |
| 3/29/2007 | <300 | <20 | 2.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| MW-2 | | | | : | | | | | |
| 12/16/2002 | <5,000 | <500 | 980 | <50 | <50 | <50 | <50 | <50 | |
| 3/11/2003 | <10,000 | <2,000 | 920 | <50 | <50 | <50 | <50 | <50 | ************************************** |
| 6/17/2003 | <10,000 | <2,000 | 610 | <50 | <50 | <50 | <50 | <50 | |
| 9/18/2003 | <5,000 | <1,000 | 580 | <25 | <25 | <25 | <25 | <25 | ************************************** |
| 12/11/2003 | <5,000 | <1,000 | 490 | <25 | <25 | <25 | <25 | <25 | |
| 03/11/2004 | <2,000 | <400 | 410 | <10 | <10 | <10 | <10 | <10 | |
| 06/02/2004 | <10,000 | <2,000 | 240 | <50 | <50 | <50 | <50 | <50 | |
| 09/22/2004 | <5,000 | <1,000 | 390 | <25 | <25 | <25 | <25 | <25 | 11 P. A. D. |
| 12/15/2004 | <2,000 | <400 | 290 | <10 | <10 | <10 | <10 | <10 | a a |
| 03/07/2005 | <5,000 | <1,000 | 120 | <25 | <25 | <25 | <25 | <25 | · |
| 06/27/2005 | <5,000 | <1,000 | 86 | <25 | <25 | <25 | <25 | <25 | |
| 09/16/2005 | <5,000 | <1,000 | 82 | <25 | <25 | <25 | <25 | <25 | The state of the s |

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

| Well and | | | | Concentrati | ons in (µg/L) | | | | |
|-------------|---------|--------|------|-------------|---------------|-------|---------|-------|--|
| Sample Date | Ethanol | ТВА | MTBE | DIPE | ETBE | TAME | 1,2-DCA | EDB | Comments |
| MW-2 Cont. | | | | | | | | | |
| 12/27/2005 | <5,000 | <1,000 | 100 | <25 | <25 | <25 | <25 | <25 | b |
| 03/16/2006 | <30,000 | <2,000 | 78 | <50 | <50 | <50 | <50 | <50 | C |
| 6/26/2006 | <15,000 | <1,000 | 110 | <25 | <25 | <25 | <25 | <25 | |
| 9/29/2006 | <15,000 | <1,000 | 86 | <25 | <25 | <25 | <25 | <25 | |
| 12/9/2006 | <15,000 | <1,000 | 70 | <25 | <25 | <25 | <25 | - | de de la companya de |
| 3/29/2007 | <15,000 | <1,000 | 80 | <25 | <25 | <25 | <25 | <25 | |
| MW-3 | | | | | | | | | |
| 12/16/2002 | <1,000 | <100 | 910 | <10 | <10 | 12 | <10 | <10 | |
| 3/11/2003 | <5,000 | <1,000 | 470 | <25 | <25 | <25 | <25 | <25 | |
| 6/17/2003 | <2,000 | <400 | 530 | <10 | <10 | <10 | <10 | <10 | |
| 9/18/2003 | <500 | <100 | 300 | <2.5 | <2.5 | 3.2 | <2.5 | <2.5 | |
| 12/11/2003 | <1,000 | <200 | 180 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 03/11/2004 | <200 | 570 | 110 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 06/02/2004 | <100 | 130 | 43 | <0.50 | <0.50 | 0.56 | <0.50 | <0.50 | |
| 09/22/2004 | <100 | 28 | 50 | <0.50 | <0.50 | 0.51 | <0.50 | <0.50 | |
| 12/15/2004 | <100 | 110 | 49 | <0.50 | 0.52 | 0.61 | <0.50 | <0.50 | a a |
| 03/07/2005 | <200 | 190 | 70 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | Answersprendig Meets in management and extension of the mention of |
| 06/27/2005 | <100 | 130 | 33 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 09/16/2005 | <100 | 44 | 21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | A CONTROL CONT |
| 12/27/2005 | <100 | 150 | 36 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | b. |
| 03/16/2006 | <300 | 160 | 45 | <0.50 | <0.50 | 0.84 | <0.50 | <0.50 | с в серона в под оберпно не под предоставления на под под предоставления на под предост |
| 6/26/2006 | <300 | 53 | 26 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 9/29/2006 | <300 | 55 | 14 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 12/9/2006 | <300 | <20 | 19 | <0.50 | <0.50 | <0.50 | <0.50 | 4-1 | b b |
| 3/29/2007 | <300 | 130 | 27 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | The second secon |

SYMBOLS AND ABBREVIATIONS:

< = Not detected at or above specified laboratory reporting limit

1,2-DCA = 1,2-Dichloroethane

DIPE = Di-isopropyl ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

 $\mu g/L = Micrograms per liter$

FOOTNOTES:

- a = This sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. The results may still be used for their intended purpose.
- b = Calibration verification for ethanol was within method limits but outside contract limits.
- c = Possible high bias for DIPE, 1,2-DCA, and ethanol due to CCV falling outside acceptance criteria.

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

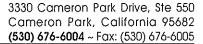
Table 3. Historical Ground-Water Flow Direction and Gradient Station #4977, 2770 Castro Valley Blvd., Castro Valley, CA

| Date Sampled | Approximate Flow Direction | Approximate Hydraulic Gradient |
|--------------|----------------------------|--------------------------------|
| 4/19/2002 | Southwest | 0.038 |
| 9/27/2002 | Southwest | 0.021 |
| 12/16/2002 | Southeast | 0.029 |
| 3/11/2003 | South | 0.024 |
| 6/17/2003 | South-Southwest | 0.022 |
| 9/18/2003 | South-Southwest | 0.022 |
| 3/11/2004 | South-Southwest | 0.024 |
| 6/2/2004 | South | 0,025 |
| 9/22/2004 | South | 0.025 |
| 12/15/2004 | South | 0.020 |
| 3/7/2005 | South | 0.02 |
| 6/27/2005 | South | 0.01 |
| 9/16/2005 | Southeast | 0.03 |
| 12/27/2005 | South-Southeast | 0.02 |
| 3/16/2006 | Southeast | 0.02 |
| 6/26/2006 | South | 0.03 |
| 9/29/2006 | South | 0.025 |
| 12/19/2006 | South | 0.024 |
| 3/29/2007 | South | 0.020 |

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

APPENDIX A

STRATUS ENVIRONMENTAL, INC. GROUND-WATER SAMPLING DATA PACKAGE (INCLUDES BILL OF LADING, FIELD DATA SHEETS, AND LABORATORY REPORT AND CHAIN OF CUSTODY DOCUMENTATION)





April 17, 2007

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

Re:

Groundwater Sampling Data Package, BP Service Station No. 4977, located at 2770 Castro Valley Road, Castro Valley, California (Quarterly Monitoring performed on March 29, 2007)

General Information

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

Phone Number: (530) 676-6000

On-Site Supplier Representative: Jerry Gonzales

Date: March 29, 2007

Arrival: 10:00 Departure: 12:30

Weather Conditions: Clear Unusual Field Conditions: None

Scope of Work Performed: Quarterly monitoring and sampling

Variations from Work Scope: None noted

This submittal presents the tabulation of data collected in association with routine groundwater monitoring. The attachments include bill of lading, 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,

STRAPUS ENVIRONMENTAL, INC. SIONAL GEO

Jay R. Johnson P.G.

Violect Manager

Attachments:

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

CC: Mr. Paul Supple, BP/ARCO

BP GEM OIL COMPANY

TYPE A BILL OF LADING

SOURCE RECORD BILL OF LADING FOR NON-**RECOVERED FROM PURGEWATER HAZARDOUS** GROUNDWATER WELLS AT BP GEM OIL COMPANY FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAS PURGEWATER WHICH HAZARDOUS RECOVERED FROM GROUNDWATER WELLS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY TO **SEAPORT** BELSHIRE ENVIRONMENTAL ENVIRONMENTAL IN REDWOOD CITY, CALIFORNIA.

The contractors performing this work are Stratus Environmental, Inc. [Stratus, 3330 Cameron Park Drive, Suite 550, Cameron Park, CA 95682, (530) 676-6004], and Doulos Environmental, Inc. [Doulos, PO Box 2559, Orangevale, CA 95662, (916) 990-03331. Stratus is authorized by BP GEM OIL COMPANY to recover, collect, and apportion into loads the nonhazardous well purgewater that is drawn from wells at BP GEM Oil Company facilities and deliver that purgewater to BP GEM Oil Company facility 5786 located in West Sacramento, California. Doulos also performs these services under subcontract to Stratus. Transport routing of the non-hazardous well purgewater may be direct from one BP GEM facility to the designated destination point; from one BP GEM facility to the designated destination point via another BP GEM facility; from a BP GEM facility to the designated destination point via the contractor's facility, or any combination thereof. The non-hazardous well purgewater is and remains the property of BP GEM Oil Company.

This Source Record BILL OF LADING was initiated to cover the recovery of non-hazardous well purgewater from wells at the BP GEM Oil Company facility described below:

| 4977 | |
|-----------------------------------|----------------------------|
| Station # | |
| 0. 7. 11 0.770 0 37.11 | T. J |
| Castro Valley – 2770 Castro Valle | y Ka. |
| Station Address | |
| | |
| Total Gallons Collected From Gro | undwater Monitoring Wells: |
| 40 | |
| 49 | |
| 4.11.17 | A mar Others |
| Added Equipment Rinse Water 5 | Any Other Adjustments |
| Rhise Water | Adjustments // |
| TOTAL GALS. S4 | loaded onto |
| RECOVERED 54 | Doulos vehicle # |
| Stratus Project # | time date |
| Status 110,000 ii | |
| | 1230 31 291 07 |
| 1. | <u> </u> |
| Signature Joshy | 0, |
| | |
| ****** | ****** |
| RECEIVED AT | time date |
| DD 5797 | 1845 3129 107 |
| BP 5786 Unloaded by | 1070 |
| Signature | , 6. |
| 1 - O | / |

BP ALAMEDA PORTFOLIO

HYDROLOGIC DATA SHEET

AK 10:00 DP. 1230

Gauge Date: 3.29.47

Project Name: Castro Valley - 2770 Castro Valley Rd.

Field Technician: Jerry

Project Number: 4977

TOC = Top of Well Casing Elevation
DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

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

| WELL OR LOCATION | TIME | | | MEASU | REMENT | PURGE & SAMPLE | SHEEN CONFIRMATION | COMMENTS | | |
|---------------------|-------|-----|-----|-------|---------------|-------------------|-----------------------|----------|------------|--|
| | | TOC | DTP | DTW | DTB | DIA | ELEV | | (w/bailer) | |
| mv.1 | 10:50 | | | 7.70 | 15,00 1458 | At | | | | |
| MW. 2 | 16:30 | | | 6.03 | 1458 | cf 11 | | | | |
| MW. 2 MW. 3 | 10:24 | | | 6,92 | 1485 | 411 | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | - | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| | BP ALAME | DA POF | RTFOLIO | | | |
|---|--|----------------------|--|---|--|-----------------|
| W | ATER SAMPL | LE FIELD | DATA SHEE | T | | |
| PROJECT #: 4977 CLIENT NAME: LOCATION: Castro Valley - 2770 Castro | PURGED BY: SAMPLED BY: Valley Road | <u>96</u> | | | D.: NULL PLES: | |
| DATE PURGED 3.29.37 DATE SAMPLED 3.29.37 SAMPLE TYPE: Groundwater x | START (2400hr) SAMPLE TIME (2 | (2400hr) | 722/5 Treatment Effi | END (2400 | | 16 |
| CASING DIAMETER: 2" Casing Volume: (gallons per foot) (0.17) | 3" (0.38) | 4" (0.67) | 5" (1.02) | 6" (1.50) | 8" (2.60) | Other () |
| DEPTH TO BOTTOM (feet) = 150 DEPTH TO WATER (feet) = 573 WATER COLUMN HEIGHT (feet) = 7.3 | 0 | | CASING VOL CALCULATEI ACTUAL PUR | D PURGE (gal) | | 7.6 |
| | FIELD M | /EASUREMEN | | <u>-</u> | | |
| DATE TIME VOLUME (2400hr) (gal) //:07 //:08 //// //:08 | TEMP. (degrees F) ? ? ? 2 0 - 9 | CONDUCTI (umhos/o | IVITY (m) (u) | pH units) 7.13 7.13 | COLOR (visual) | TURBIDITY (NTU) |
| SAMPLE DEPTH TO WATER: 9.84 | SAMPLE | INFORMATIO | | IPLE TURBIDIT | TY: <u>/</u> @ | Aller |
| 80% RECHARGE: YES NO | ANAL | YSES: 5€ | e work | otda | | |
| PURGING EQUIPMENT Bladder Pump Bailer (Tet Centrifugal Pump Bailer (PV Submersible Pump Peristalic Pump Dedicated Other: Pump Depth: | (C) ainless Steel) | Blac Cent Subs | | PLING EQUIPM Bailer (Bailer (Bailer (Dedicat | (Teflon) (PVC ((Stainless Steel) | or disposable) |
| WELL INTEGRITY: SOPE REMARKS: DO 3.44 | | | ro | ock#: M. | 0574 | |
| SIGNATURE: | | | | | Pa | ageof |

BP ALAMEDA PORTFOLIO WATER SAMPLE FIELD DATA SHEET PROJECT #: 4977 PURGED BY: WELL I.D.: CLIENT NAME: SAMPLED BY: SAMPLE I.D. Castro Valley - 2770 Castro Valley Road LOCATION: QA SAMPLES: 10:35 DATE PURGED START (2400hr) END (2400hr) DATE SAMPLED SAMPLE TIME (2400hr) SAMPLE TYPE: Groundwater Surface Water Treatment Effluent Other CASING DIAMETER: 2" Other Casing Volume: (gallons per foot) (0.17)(0.38)(1.02) (1.50)(2.60)DEPTH TO BOTTOM (feet) = CASING VOLUME (gal) = DEPTH TO WATER (feet) = CALCULATED PURGE (gal) = WATER COLUMN HEIGHT (feet) = ACTUAL PURGE (gal) = FIELD MEASUREMENTS DATE TIME VOLUME TEMP. CONDUCTIVITY pН COLOR TURBIDITY (2400 hr)(degrees F) (umhos/cm) (units) (visual) (NTU) 670 20.S SAMPLE INFORMATION SAMPLE DEPTH TO WATER: SAMPLE TURBIDITY: 80% RECHARGE: YES ANALYSES: See Work order ODOR: SAMPLE VESSEL/PRESERVATIVE: 3 60 PURGING EQUIPMENT SAMPLING EQUIPMENT Bladder Pump Bailer (Teflon) Bladder Pump Bailer (Teflon) Centrifugal Pump Bailer (PVC) Centrifugal Pump Bailer (PVC or disposable) Submersible Pump Bailer (Stainless Steel) Submersible Pump Bailer (Stainless Steel) Peristalic Pump Dedicated Peristalic Pump Dedicated Other: Other: Pump Depth: WELL INTEGRITY: LOCK#: REMARKS: SIGNATURE:

| BP | ALAMEDA PORTFOLIO | |
|---|---|---|
| WATE | R SAMPLE FIELD DATA SHEET | |
| | APLED BY: 3 - PROAD | WELL I.D.: MW-3 SAMPLE I.D.: MW-3 QA SAMPLES: |
| DATE SAMPLED 3.29.07 SAM | 10.40 | END (2400hr) / O.S.S. |
| CASING DIAMETER: 2" 3" Casing Volume: (gallons per foot) (0.17) | (0.38) 4" \(\sum \) 5" \(\frac{1.02}{} \) | (1.50) 8" Other (1.50) |
| DEPTH TO BOTTOM (feet) = /9.5 % DEPTH TO WATER (feet) = /9.2 WATER COLUMN HEIGHT (feet) = 7.6 | CV31I/Q AOFOMI | JRGE (gal) = |
| | FIELD MEASUREMENTS | |
| 3.29-7 (2400hr) (gal) (dej | EMP. CONDUCTIVITY pH (units) O. O 744 7/6 2. C 745 7-76 | COLOR TURBIDITY (visual) (NTU) Cloude Color TURBIDITY (NTU) |
| SAMPLE DEPTH TO WATER: 80% RECHARGE: YES NO | | TURBIDITY: /eex |
| | ANALYSES: <ee of<="" td="" work=""><td>da</td></ee> | da |
| PURGING EQUIPMENT Bladder Pump Centrifugal Pump Submersible Pump Peristalic Pump Dedicated Other: Pump Depth: 13 | SAMPLIN Bladder Pump Centrifical Pump | G EQUIPMENT Bailer (Teflon) Bailer (PVC or disposable) Bailer (Stainless Steel) Dedicated |
| WELL INTEGRITY: God REMARKS: 17.0 1-98 | LOCK#: | montes |
| SIGNATURE: | | Pageof |

Wellhead Observation Form

| Account: | |
|-------------|---------------|
| | |
| Sampled by: | Date: 3-28-07 |

| 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 |
|--------------|-----------------------------|---|-----------------|------------------|-------------------|------------------------|---|---|-------|-----------------------------|
| pw-2 pw-3 | 4 | PL AND | Çin . | M | K. J | N. | N | 11 | | |
| pr-2 | Ý | 10 | 4 | N | N | n/ | N | N | | |
| MV-3 | 4 | 1 | 4 | m | N | N | N | N | | |
| | f | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | · |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | • | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | 182-117 |
| | | | | | | | | | | |
| | | 7,77,74 | | | | | | | | |

| Atlantic Richfield |
|-------------------------|
| Company |
| A BP affiliated company |

| Chain of Custody Rec | cord | 1 |
|----------------------|------|---|
|----------------------|------|---|

| Project N | lame: | ARCO 4977 |
|-----------|-------|-----------|
| | | |

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda > 4977

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

| | rage_101_1 | |
|-----------------------------|------------|---|
| On-site Time: / 0.00 | Temp: 65 | ٦ |
| Off-site Time: / Z.130 | Temp: 65 | ٦ |
| Sky Conditions: C/ar | | |
| Meteorological Events: ルロルC | - | ٦ |
| Wind Speed: 🗢 | Direction: | ٦ |

| Lab Name: TestAmerica | BP/AR Facility No.: 4977 | Consultant/Contractor: Stratus Environmental, Inc. | | | |
|---|--|--|--|--|--|
| Address: 885 Jarvis Drive | BP/AR Facility Address: 2770 Castro Valley Road, Castro Valley | 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.: T060010089 | Consultant/Contractor Project No.: | | | |
| Tele/Fax: 408-782-8156 408-782-6308 (fax) | Enfos Project No.: G0C2H-0017 | Consultant/Contractor PM: Jay Johnson | | | |
| BP/AR PM Contact: Paul Supple | Provision or OOC (circle one) Provision | Tele/Fax: (530) 676-6000 / (530) 676-6005 | | | |
| Address: 2010 Crow Canyon Place, Suite 150 | Phase/WBS: 04-Monitoring | Report Type & QC Level: Level 1 with EDF | | | |
| San Ramon, CA | Sub Phase/Task: 03-Analytical | E-mail EDD To: cjewitt@stratusinc.net | | | |
| Tele/Fax: 925-275-3506 | Cost Element: 01-Contractor labor | Invoice to: Atlantic Richfield Co. | | | |
| Lab Bottle Order No: Matrix | Preservative Request | ed Analysis | | | |
| Time Date Description Date Water/Liquid | No. of Containers Unpreserved H ₂ SO ₄ HNO ₃ HCI Methanol GRO/BTEX/Oxy* 1,2-DCA Ethanol EDB | Sample Point Lat/Long and Comments | | | |
| 1 MW-1 /2/5 3-29.7 X | 3 X X X X | | | | |
| 2 MW-2 // 20 / X | 3 x x x x x | *Oxy = MTBE,TAME,ETBB,DIPE,TBA | | | |
| 3 MW-3 // 32 X | 6 x x x x x | | | | |
| 4 713-4997-32907 530 | 3 X X X | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| Sampler's Name: Terry Gonzales | Relinquished By / Affiliation Date Time | Accepted By / Affiliation Date, Time | | | |
| Sampler's Company: Doules ENU | 1030 4/2/07 1030 | Accepted by / Affiliation Date, Time | | | |
| Shipment Date: | | 100 | | | |
| Shipment Method: | | | | | |
| Shipment Tracking No: | | | | | |
| Special Instructions: Please cc results to rmille | r@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 | | | |
| | Tip Dialk, 16 | or tro Madriado Campio Saumaca, 105/170 | | | |





13 April, 2007

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

RE: ARCO #4977, Castro Valley, CA Work Order: MQD0208

Enclosed are the results of analyses for samples received by the laboratory on 04/03/07 09:00. 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 #4977, Castro Valley, CA MQD0208
3330 Cameron Park Dr., Suite 550 Project Number: G0C2H-0017 Reported:
Cameron Park CA, 95682 Project Manager: Jay Johnson 04/13/07 16:26

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---------------|---------------|--------|----------------|----------------|
| MW-1 | MQD0208-01 | Water | 03/29/07 12:15 | 04/03/07 09:00 |
| MW-2 | MQD0208-02 | Water | 03/29/07 11:20 | 04/03/07 09:00 |
| MW-3 | MQD0208-03 | Water | 03/29/07 11:32 | 04/03/07 09:00 |
| TB-4977-32907 | MQD0208-04 | Water | 03/29/07 05:30 | 04/03/07 09:00 |

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 #4977, Castro Valley, CA

Project Number: G0C2H-0017 Project Manager: Jay Johnson MQD0208 Reported: 04/13/07 16:26

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|------------------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| MW-1 (MQD0208-01) Water Sampled | : 03/29/07 12:15 | Received: | 04/03/0 | 7 09:00 | | | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | ug/l | t | 7D11014 | 04/11/07 | 04/12/07 | LUFT GCMS | |
| Surrogate: 1,2-Dichloroethane-d4 | | 103 % | 75- | 120 | n | " | 'n | 11 | |
| MW-2 (MQD0208-02) Water Sampled | : 03/29/07 11:20 | Received: | 04/03/07 | 7 09:00 | | | | | |
| Gasoline Range Organics (C4-C12) | 16000 | 2500 | ug/l | 50 | 7D11014 | 04/11/07 | 04/12/07 | LUFT GCMS | |
| Surrogate: 1,2-Dichloroethane-d4 | · | 102 % | 75- | 120 | " | " | n | " | |
| MW-3 (MQD0208-03) Water Sampled | : 03/29/07 11:32 | Received: | 04/03/07 | 7 09:00 | | | | | |
| Gasoline Range Organics (C4-C12) | 390 | 50 | ug/l | 1 | 7D11014 | 04/11/07 | 04/12/07 | LUFT GCMS | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 75- | 120 | " | н | " | n | |





Project: ARCO #4977, Castro Valley, CA

Project Number: G0C2H-0017 Project Manager: Jay Johnson MQD0208 Reported: 04/13/07 16:26

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

| Benzenc | Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
|--|----------------------------------|-------------------------|--------------------|-------------|----------------|---------|----------|----------|-----------|------|
| Benzene | MW-1 (MQD0208-01) Water | Sampled: 03/29/07 12:15 | Received | 04/03/07 | 7 09:00 | | | | | |
| Terr-Butyl alcohol ND 20 " " " " " " " " " " " " " | tert-Amyl methyl ether | | 0.50 | ug/l | 1 | 7D11014 | 04/11/07 | 04/12/07 | EPA 8260B | |
| Di-isopropyl ether ND 0.50 " " " " " " " " " " " " | Benzene | | 0.50 | ıı | a | " | n | U | п | |
| No | tert-Butyl alcohol | ND | 20 | " | 11 | " | n | U | h | |
| 1,2-Dichloroethane | Di-isopropyl ether | | 0.50 | 11 | 11 | +1 | a | 0 | n | |
| Ethyl tert-butyl ether ND 0.50 " " " " " " " " " " " " " | 1,2-Dibromoethane (EDB) | | | #I | u | n | U | I# | 9 | |
| Ethyl tert-butyl ether ND 0.50 " " " " " " " " " " " " " " " " " " " | 1,2-Dichloroethane | | | Ħ | U | 11 | U | lt . | 0 | |
| Methyl tert-butyl ether | Ethanol | | | | | | | | U | |
| Methyl tert-butyl ether 1.2.3 0.50 " " " " " " " " " | Ethyl tert-butyl ether | | | | D | | |)ı | n | |
| Toluene ND 0.50 " " " " " " " " " | Ethylbenzene | | | | I † | | | tı | И | |
| ND 0.50 " " " " " " " " " | Methyl tert-butyl ether | | | 0 | H | et . | н | U | И | |
| Surrogate: Dibromofluoromethane | Toluene | | | | И | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | Xylenes (total) | ND | 0.50 | И | | H | h | 11 | †I | |
| 103 % 70-120 70 | Surrogate: Dibromofluoromethan | e | 95 % | 75- | 120 | n | v | " | н | |
| Surrogate: 4-Bromofluorobenzeneer 84 % 60-135 " " " " " " " " " " " | Surrogate: 1,2-Dichloroethane-d4 | 1 | 103 % | <i>75</i> - | 120 | n | " | " | " | |
| MW-2 (MQD0208-02) Water Sampled: 03/29/07 11:20 Received: 04/03/07 09:00 Sampled: 03/29/07 11:20 Received: 04/03/07 09:00 | Surrogate: Toluene-d8 | | 95 % | 80- | 120 | n | ** | " | " | |
| Surrogate: Toluene | Surrogate: 4-Bromofluorobenzene | ? | 84 % | 60- | 135 | u | " | n | u | |
| Server Same Same | MW-2 (MQD0208-02) Water | Sampled: 03/29/07 11:20 | Received: | 04/03/07 | 09:00 | | | | | |
| tert-Butyl alcohol ND 1000 " " " " " " " " " " " " " " " " " | tert-Amyl methyl ether | ND | 25 | ug/l | 50 | 7D11014 | 04/11/07 | 04/12/07 | EPA 8260B | |
| Di-isopropyl ether ND 25 " " " " " " " " " " " " " " " " " " | Benzene | 530 | 25 | p | n | Ħ | U | It . | ti . | |
| 1,2-Dibromoethane (EDB) ND 25 " " " " " " " " " " " " " " " " " " " | tert-Butyl alcohol | ND | 1000 | n | #1 | ŧ | U | lt. | 0 | |
| I,2-Dichloroethane | Di-isopropyl ether | ND | 25 | и | ŧI | ţ1 | 17 | И | U | |
| Ethanol ND 15000 " " " " " " " " " " " " " " " " " " | 1,2-Dibromoethane (EDB) | ND | | н | u | tt | 11 | И | U | |
| Ethyl tert-butyl ether ND 25 " " " " " " " " " " " " " " " " " " | 1,2-Dichloroethane | | | tı | 41 | 0 | tt . | II . | D | |
| Ethylbenzene 1100 25 " | Ethanol | | 15000 | *1 | 0 | 0 | 11 | и | H | |
| Methyl tert-butyl ether 80 25 " " " " " " " " " " " " " " " " " " " | Ethyl tert-butyl ether | | | | | | Ħ | Ħ | If | • |
| Toluene ND 25 " | Ethylbenzene | | | n | U | | | Ħ | It- | |
| Xylcnes (total) 1100 25 " | Methyl tert-butyl ether | | | | | | II | | 11- | |
| Surrogate: Dibromofluoromethane 98 % 75-120 " " " " " " Surrogate: 1,2-Dichloroethane-d4 102 % 75-120 " " " " " " Surrogate: Toluene-d8 96 % 80-120 " " " " " | Toluene | | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 102 % 75-120 " " " " " Surrogate: Toluene-d8 96 % 80-120 " " " " " | Xylenes (total) | 1100 | 25 | 0 | 0 | tt | 11 | 11 | n | |
| Surrogate: Toluene-d8 96 % 80-120 " " " " | Surrogate: Dibromofluoromethan | е | 98 % | 75- | 120 | " | " | n | n | |
| | Surrogate: 1,2-Dichloroethane-d4 | t . | 102 % | 75- | 120 | " | " | " | u | |
| Surrogate: 4-Bromofluorobenzene 87 % 60-135 " " " " " | Surrogate: Toluene-d8 | | 96 % | 80- | 120 | " | " | u | u | |
| | Surrogate: 4-Bromofluorobenzene | ? | 87 % | 60- | 135 | Fr. | v | " | " | |





Project: ARCO #4977, Castro Valley, CA

Project Number: G0C2H-0017 Project Manager: Jay Johnson MQD0208 Reported: 04/13/07 16:26

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
|---------------------------------|-------------------------|--------------------|----------|----------|----------------|----------|-----------|-----------|------|
| MW-3 (MQD0208-03) Water | Sampled: 03/29/07 11:32 | Received: | 04/03/07 | 09:00 | | | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | 1 | 7D11014 | 04/11/07 | 04/12/07 | EPA 8260B | |
| Benzene | 3.0 | 0.50 | ** | " | U | 11 | μ | 0 | |
| tert-Butyl alcohol | 130 | 20 | ø | U | U | l7 | И | n | |
| Di-isopropyl ether | ND | 0.50 | O | b | D | и | 71 | u | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | D. | lt | l _T | Ħ | U | n | |
| 1,2-Dichloroethane | ND | 0.50 | Ir |)1 | n | Ħ | " | n | |
| Ethanol | ND | 300 | н | ч | n | U | II. | tt | |
| Ethyl tert-butyl ether | ND | 0.50 | H | ŧì | ţì. | U | В | 0 | |
| Ethylbenzene | 9.1 | 0.50 | ti | Ħ | 0 | 11 | U | 0 | |
| Methyl tert-butyl ether | 27 | 0.50 | ti | U | U | It | И | ĮŦ. | |
| Toluene | ND | 0.50 | U | II. | II. | II | ** | n. | |
| Xylenes (total) | 0.60 | 0.50 | | l+ | If | . " | †1 | H | |
| Surrogate: Dibromofluoromethar | пе | 99 % | 75-1 | 20 | u | 11 | n | rf | |
| Surrogate: 1,2-Dichloroethane-d | 4 | 102 % | 75-1 | 20 | " | ıı . | n . | Ħ | |
| Surrogate: Toluene-d8 | | 101 % | 80-1 | 20 | " | " | " | n | |
| Surrogate: 4-Bromofluorobenzen | e | 85 % | 60-1 | 35 | " | n | ** | и | |





Project: ARCO #4977, Castro Valley, CA

Project Number: G0C2H-0017 Project Manager: Jay Johnson MQD0208 Reported: 04/13/07 16:26

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

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--|---------|-----------|-------|-----------|-----------|------------|-------------|-----|---|--------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 7D11014 - EPA 5030B P/T / LU | FT GCMS | | | | | | | | | |
| Blank (7D11014-BLK1) | | | | Prepared: | 04/11/07 | Analyzec | i: 04/12/07 | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | ug/l | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.37 | | " | 2.50 | | 95 | 75-120 | | | / |
| Laboratory Control Sample (7D11014-BS2 | :) | | | Prepared | & Analyze | ed: 04/11/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 505 | 50 | ug/l | 500 | | 101 | 65-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.56 | | " | 2.50 | | 102 | 75-120 | *** | | |
| Laboratory Control Sample Dup (7D11014 | -BSD2) | | | Prepared | & Analyze | ed: 04/11/ | 07 | | | |
| Gasoline Range Organics (C4-C12) | 461 | 50 | ug/l | 500 | | 92 | 65-120 | 9 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.60 | | " | 2.50 | | 104 | 75-120 | | *************************************** | |





Project: ARCO #4977, Castro Valley, CA

Project Number: G0C2H-0017 Project Manager: Jay Johnson MQD0208 Reported: 04/13/07 16:26

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 7D11014 - EPA 5030B P/T | / EPA 8260B | | | | | | | | | |
| Blank (7D11014-BLK1) | | | | Prepared: | 04/11/07 | Analyzed | : 04/12/07 | | | • |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | | · | | | | | |
| Benzene | ND | 0.50 | U | | | | | | | |
| tert-Butyl alcohol | ND | 20 | U | | | | | | | |
| Di-isopropyl ether | ND | 0.50 | U | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | o | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | D | | | | | | | |
| Ethanol | ND | 300 | n | | | | | | | |
| Ethyl tert-butyl ether | ND | 0.50 | It | | | | | | | |
| Ethylbenzene | ND | 0.50 |)r | | | | | | | |
| Methyl tert-butyl ether | ND | 0.50 | It | | | | | | | |
| Toluene | ND | 0.50 | 11 | | | | | | | |
| Xylenes (total) | ND | 0.50 | n | | | | | | | |
| Surrogate: Dibromofluoromethane | 2.34 | | " | 2.50 | | 94 | 75-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.37 | | " | 2.50 | | 95 | 75-120 | | | |
| Surrogate: Toluene-d8 | 2.47 | | n | 2.50 | | 99 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.05 | | n | 2.50 | | 82 | 60-135 | | | |
| Laboratory Control Sample (7D11014 | I-BS1) | | | Prepared | & Analyz | ed: 04/11/0 |)7 | | | |
| tert-Amyl methyl ether | 11.4 | 0.50 | ug/l | 10.0 | | 114 | 65-135 | | | |
| Benzene | 10.0 | 0.50 | H | 10.0 | | 100 | 75-120 | | | |
| tert-Butyl alcohol | 194 | 20 | И | 200 | | 97 | 60-135 | | | |
| Di-isopropyl ether | 9.80 | 0.50 | п | 10.0 | | 98 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 11.9 | 0.50 | ч | 10.0 | | 119 | 80-135 | | | |
| 1,2-Dichloroethane | 10.8 | 0.50 | ** | 10.0 | | 108 | 70-125 | | | |
| Ethanol | 181 | 300 | Ħ | 200 | | 90 | 15-150 | | | |
| Ethyl tert-butyl ether | 10.4 | 0.50 | Ħ | 10.0 | | 104 | 65-130 | | | |
| Ethylbenzene | 9.42 | 0.50 | u | 10.0 | | 94 | 75-120 | | | |
| Methyl tert-butyl ether | 11,4 | 0.50 | u | 10.0 | | 114 | 50-140 | | | |
| Гоluene | 10.4 | 0.50 | o o | 10.0 | | 104 | 75-120 | | | |
| Xylenes (total) | 29.5 | 0.50 | ŋ | 30.0 | | 98 | 75-120 | | | |
| Surrogate: Dibromofluoromethane | 2.45 | | н | 2.50 | | 98 | 75-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.71 | | n | 2.50 | | 108 | 75-120 | | | |
| Surrogate: Toluene-d8 | 2.45 | | " | 2.50 | | 98 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.19 | | " | 2.50 | | 88 | 60-135 | | | |





Project: ARCO #4977, Castro Valley, CA

Project Number: G0C2H-0017
Project Manager: Jay Johnson

MQD0208 Reported: 04/13/07 16:26

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 7D11014 - EPA 5030B P/T / F | EPA 8260B | | | | | | | | | |
| Matrix Spike (7D11014-MS1) | Source: M | QD0209-01 | | Prepared | & Analyz | ed: 04/11/ | 07 | | | |
| tert-Amyl methyl ether | 13.1 | 0.50 | ug/l | 10.0 | ND | 131 | 65-135 | | | |
| Benzene | 11.8 | 0.50 | μ | 10.0 | ND | 118 | 75-120 | | | |
| tert-Butyl alcohol | 1530 | 20 | U | 200 | 1300 | 115 | 60-135 | | | BI |
| Di-isopropyl ether | 11.6 | 0.50 | 11 | 10.0 | ND | 116 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 13.5 | 0.50 | I+ | 10.0 | ND | 135 | 80-135 | | | |
| 1,2-Dichloroethane | 12.5 | 0,50 | 18 | 10.0 | ND | 125 | 70-125 | | | |
| Ethanol | 257 | 300 | 11 | 200 | ND | 128 | 15-150 | | | |
| Ethyl tert-butyl ether | 12.3 | 0.50 | 11 | 10.0 | ND | 123 | 65-130 | | | |
| Ethylbenzene | 11.7 | 0.50 | n | 10.0 | ND | 117 | 75-120 | | | |
| Methyl tert-butyl ether | 14.2 | 0.50 | n | 10.0 | 1.3 | 129 | 50-140 | | | |
| Toluene | 12.2 | 0.50 | n | 10.0 | ND | 122 | 75-120 | | | LN |
| Xylenes (total) | 35.9 | 0.50 | Ü | 30.0 | ND | 120 | 75-120 | | | |
| Surrogate: Dibromofluoromethane | 2.28 | | " | 2,50 | | 91 | 75-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.42 | | " | 2.50 | | 97 | 75-120 | | | |
| Surrogate: Toluene-d8 | 2.47 | | " | 2.50 | | 99 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.17 | | " | 2.50 | | <i>87</i> | 60-135 | | | |
| Matrix Spike Dup (7D11014-MSD1) | Source: M | QD0209-01 | | Prepared | & Analyz | ed: 04/11/ | 07 | | | |
| tert-Amyl methyl ether | 10.8 | 0.50 | ug/l | 10.0 | ND | 108 | 65-135 | 19 | 25 | |
| Веплепе | 10.2 | 0.50 | и | 10.0 | ND | 102 | 75-120 | 15 | 20 | |
| tert-Butyl alcohol | 1450 | 20 | 11 | 200 | 1300 | 75 | 60-135 | 5 | 25 | ВЕ |
| Di-isopropyl ether | 10.0 | 0.50 | н | 10.0 | ND | 100 | 70-130 | 15 | 25 | |
| 1,2-Dibromoethane (EDB) | 11.5 | 0.50 | п | 10.0 | ND | 115 | 80-135 | 16 | 30 | |
| 1,2-Dichloroethane | 10.9 | 0.50 | и | 10.0 | ND | 109 | 70-125 | 14 | 25 | |
| Ethanol | 203 | 300 | н | 200 | ND | 102 | 15-150 | 23 | 25 | |
| Ethyl tert-butyl ether | 10.6 | 0.50 | н | 10.0 | ND | 106 | 65-130 | 15 | 25 | |
| Ethylbenzene | 9.62 | 0,50 | n | 10.0 | ND | 96 | 75-120 | 20 | 20 | |
| Methyl tert-butyl ether | 12.3 | 0.50 | n | 10.0 | 1.3 | 110 | 50-140 | 14 | 25 | |
| Toluene | 10.1 | 0.50 | n | 10.0 | ND | 101 | 75-120 | 19 | 25 | |
| Xylenes (total) | 30.4 | 0.50 | ** | 30.0 | ND | 101 | 75-120 | 17 | 20 | |
| Surrogate: Dibromofluoromethane | 2.43 | | 'n | 2.50 | | 97 | 75-120 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.55 | | n | 2.50 | | 102 | 75-120 | | | |
| Surrogate: Toluene-d8 | 2.48 | | " | 2.50 | | 99 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.27 | | " | 2.50 | | 91 | 60-135 | | | |





Stratus Environmental Inc. [Arco]
Project: ARCO #4977, Castro Valley, CA
MQD0208
3330 Cameron Park Dr., Suite 550
Project Number: G0C2H-0017
Cameron Park CA, 95682
Project Manager: Jay Johnson
04/13/07 16:26

Notes and Definitions

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

BB Sample > 4x spike concentration

DET Analyte DETECTED

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

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Lisa Race

From:

Sandy Hayes [shayes@stratusinc.net] Friday, April 13, 2007 5:31 PM Lisa Race

Sent:

To: Subject:

Problem COC's

Hi Lisa,

Per our telephone conversation please put the trip blanks for sites 4977, 6041 and 11120 on hold.

Thank you!

Sandy Hayes Stratus Environmental, Inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682 shayes@stratusinc.net Phone: 530-676-6004

Fax: 530.676.6005

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

| Atlantic Richfield |
|-------------------------|
| Çompany |
| A BP affiliated company |

Chain of Custody Record

Project Name: ARCO 4977
BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda > 4977

State or Lead Regulatory Agency: Requested Due Date (mm/dd/yy):

| On-site Time: / 0:00 | Temp: 65 |
|-----------------------------|------------|
| Off-site Time: / 2!30 | Temp: 65 |
| Sky Conditions: | |
| Meteorological Events: NONC | |
| Wind Speed: 🍎 | Direction: |

| Lab N | Jame: TestAmerica | | | | <u> </u> | | BP/AR Facility No | .: | 49 | 77 | | | T. | | | | | Con | sultar | ıt/Con | itracto | or: | Stratus Environme | ental. Inc. | *************************************** |
|-------------|-----------------------------------|---------------------------------------|----------|----------|---------------------|----------------|--|-------------------|-------------|--------------------------------|---------|------------------|------|---------------|---------------------------------------|---------------|--------------|------------|---|----------|---------|--------|---------------------------------------|---|---|
| | ess: 885 Jarvis Drive | | | | | П | BP/AR Facility Ad | | | | Castr | o Valle | v Ro | ad C | astr | vall | ev | | Consultant/Contractor: Stratus Environmental, Inc. Address: 3330 Cameron Park Drive, Suite 550 | | | | | | |
| - | an Hill, CA 95937 | | | | | Ш | BP/AR Facility Address: 2770 Castro Valley Road, Castro Valley Address: 3330 Cameron Park Drive, Suite 550 Site Lat/Long: Cameron Park, CA 95682 | | | | | | | | | | | | | | | | | | |
| | M: Lisa Race | | | | | П | California Global I | D No | .: | T060 | 0100 | 39 | | ~~~~ | ******** | | | Con | sultar | | | | ject No.: | *************************************** | • |
| | Fax: 408-782-8156 408-782-630 |)8 (fax) | | | | | Enfos Project No.; | | | | 2H-00 | | | | | • | • | | | | | or PM | · · · · · · · · · · · · · · · · · · · | SOR | |
| - | R PM Contact: Paul Supple | <u> </u> | | | | i | Provision or OOC | (circ | le one | =) | P | rovisio | n | | | | | Tele | /Fax: | (| 530) | 676- | 6000 / (530) 676-6 | | |
| | ess: 2010 Crow Canyon Place, Suit | te 150 | | | | \Box | Phase/WBS: 04-Monitoring Report Type & QC Level: Level 1 with ED | | | | | | | | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | |
| | San Ramon, CA | | | | | | Sub Phase/Task: | ~~~~ | ~~~~ | naly | · | | | | | | | | | | | | t@stratusinc.net | ********** | |
| Tele/I | | | | | | \blacksquare | Cost Element: | | | | ctor la | bor | | | | | | ⊣— | | | | * | ield Co. | | |
| Lab l | Bottle Order No: | · · · · · · · · · · · · · · · · · · · | · | 1 | Matrix | | | | | P | eserv | ative | | T | | *** | Reques | ted A | naiys | is | | | | | |
| Item No. | Sample Description | Time | Date | | Water/Liquid Air | | Laboratory No. | No. of Containers | Unpreserved | H ₂ SO ₄ | HNO, | riCi Methanol | | GRO/BTEX/Oxy* | 1,2-DCA | Ethanol | EDB | DRO | | | | , | Sample Poir Cor | st Lat/Long | g and |
| ī | MW-1 | 1215 | 3-29.7 | , | χ | | 01 | 3 | | | X | | | X | x | x | Х | | | | | | | | |
| 2 | MW-2 | 7/20 | 7 | | ĸ | | 02 | 3 | | | X | : | | 1 | | Х | Х | | | | | | *Oxy = MTBE,TAM | E,ETBE,DII | E.TBA |
| 3 | MW-3 | 1132 | | 7 | ζ | | 03 | 6 | | | X | | | Х | x | х | Х | | | | | | | | |
| 4 | TB-4997-32907 | 5 30 | | | | | 04 | a. | | | 7 | <u> </u> | | х | X | X | _ X | | | | | | | | |
| 5 | | | ' | | | | | | | | | | | | | | ļ | | | | | | | | |
| 6 | | | ` | | | | | | | | | | Π | | | | | | | | | | | **** | *************************************** |
| 7 | | | | | | П | | | | | | 1 | | | | | | | | | | \top | | ** | |
| 8 | | 1 | | | | П | | | | | | | | ▮ | Τ | T | | | | | 1 | \top | | | |
| 9 | | | | | | | | | | | ŀ | | | | | | | T | | | | 1 | | | ······································ |
| 10 | | | | | | П | | | | | | | 1 | | | T | | | | | | 十 | | | |
| | oler's Name: Terry 60 | NZALO | <u>'</u> | <u> </u> | | | Reling | nishe | d By | / Affi | iation | | | D | ate | | Time | İ | | AR | cepts | By/ | Affiliation | Date, | Time |
| Sam | oler's Company: Doules | | | | | | Market | | | | 7_ | | | 4/2 | lo, | 1 | 034 | | | 14 | M | | 21A-SAE | 4/2/0 | 1030 |
| Ship | ment Date: | | | | | | - | | 7 P | 4 | | | | 41 | 2/0 | 2/ | 540 | 1/4 | udi | , LA | erte | 100 | | 4-3-07 | |
| | ment Method: | | | | | | | | 0 | | | | | Ľ | / | | | | 7 | | | | | | |
| | ment Tracking No: | | | | | | | | | | | | | <u> </u> | | <u> </u> | | | | | | | | | |
| Speci | al Instructions: | Please | cc resu | lts to | rmill | er@ | broadbentinc.com | n | v | | | | | | | | | | | | | | | | |
| 1 | <u> </u> | //:0 \ | | | | ئث | · · · · · · · · · · · · · · · · · · · | | | | ·-··· | ٠, | 7.5- | (c-1 | | - | | ∌ (| | | | * | | | |
| ٠. | Custody Seals In Place: Ye | s(/No) | <u> </u> | emp I | Blank: | Yes | Y No Cool | er T | emp | on R | eceip | 1: 3.° | 1 °F | <u>(C)</u> | | Tri | p Blank:(\) | /e}/1 | <u>Io</u> | <u> </u> | MS/I | MSD | Sample Submitted | (Yeş/No | |

TEST AMERICA SAMPLE RECEIPT LOG

| CIRCLE THE APPROPRIATE RESPONSE SAMPLE ## CLIENT ID CONTAINER PRESER* I Custody Seal(n) Present (Abegr) Intact Broken* | CLIENT NAME: Ayio 4977 REC. BY (PRINT) A.M. WORKORDER: MQD0208 | | 7 | DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN: | 4-3-0 9:00 4-5-0 | | | ประจากของโกลักรณหาก เ | | atory Purposes? WATER YES / NO ATER YES / NO |
|--|--|---------------------|--|--|---|---|--|--------------------------|---|--|
| Considering Present (Absent Initiacl / Broken' Initiacl / Broken | | OPRIATE RESPONSE | 1 | CILIENT ID | | | pH | Į. | | |
| 2. Chain-of-Custody (Freegyl / Absent" 3. Traffic Reports or Packing List: Present (Absent Packing List: Present Packing | Custody Seal(s) | Present Absent | | Account to the second s | * = 22.1.0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 | | ************************************* | | Colden 17 (21) | 0014711014 (E16.) |
| 3. Traffic Reports or Packing List: Present (Apsgult 4. Airbill: Christ) Sticker (Fresgul / Absent 5. Airbill #: See Fithered 6. Semple Labels: Presgul / Absent 7. Sample IDs: (Jistel) Not Listed on Chain-of Custody 0. Sample Condition: (Integl / Hroken' / Leaking' 9. Does information on chain-of-custody, traffic reports and sample labels agree? (eg/ No* 10. Sample received within lold time? (eg/ No* 11. Adequate sample volume received? (eg/ No* 12. Proper preservatives used? (eg/ No* 13. (Feb) No* 13. (Feb) No* 14. Read Temp: 3. 7. (Feb) No* 14. Read Temp: 3. 7. (Feb) No* 15. (Feb) No* 16. (Feb) No* 16. (Feb) No* 17. (Feb) No* 17. (Feb) No* 17. (Feb) No* 18. (Feb) No* 18. (Feb) No* 19. (Feb) | *************************************** | | | | | | | | | |
| Packing List: Present (Opport 4. Airbitt: (Airbitt) Sticker (Present Absent) 5. Airbitt : Question Absent 7. Sample Labels: Present Absent 7. Sample libs: (Isted) Not Listed on Chein-of-Custody 8. Sample Condition: (Inlad / Hroken*) (Lesking*) 9. Does information on chain-of-custody, traffic reports and sample labels agree? (Ge) No* 10. Sample received within hold time? (Ge) No* 11. Adequate sample volume received? (Ge) No* 12. Proper preservatives used? (Ge) No* 13. Zifu bilant (Temp Blant/Received? (Ge) No* 14. Read Temp: 3, 245. Corrected Temp: 3, 255. Is corrected temp 4 4/-2**C7 (Tes) No* Acceptance range to samples requiring thermal pines (Tex) Proper preservation (Tes) No* 15. Corrected Temp: 3, 255. Corrected Temp: 4, 25 | | Present / Absent* | | | | | | | · | |
| 4. Airbill: (Irbill) Sticker (Irespit / Absent) 5. Airbill #: See Hitcher! 6. Sample Labels: (Postid) Not Listed on Chair-of-Custody 7. Sample IDs: (Isted) Not Listed on Chair-of-Custody 8. Sample Condition: (Inlad / Broken* / Leaking*) 9. Does information on chair-of-custody, traffic reports and sample labels agree? (Ge) No* 10. Sample received within lodd time? (Ge) No* 11. Adequate sample volume received? (Ge) No* 12. Proper preservalives used? (Ge) No* 13. Airp Blank / Temp Blank / Temper Bla | 3. Traffic Reports or | | The state of the s | a temperatura per a maneria de la constante de la compansión de la compans | | | ** | | | |
| Tregel / Absent 5. Airbill #: See Attached 6. Sample Labels: Pregit / Absent 7. Sample IDs: Gister / Not Listed on Chelh-of Custody 8. Sample Condition: Intad / Broken* / Leaking* 9. Does information on chain-of-custody, traffic reports and sample labels agree? (ea) No* 10. Sample received within hold time? (ea) No* 11. Adequate sample volume received? (ea) No* 12. Proper preservalitives used? (ea) No* 13. (in plant / Temp Blant/Received? (ea) No* 14. Read Temp: 5. 7.* 15. Corrected Temp: 3. 7.* Corrected Temp: 3. 7.* Corrected Imp 4 +7.2**(7) Yes No** Acceptance range for empiries unpriring themsel pice or Problem COCC or Problem COCC | [| Present / Absent | | | | | | | | |
| 5. Airbill #: See Attached 6. Sample Labels: Present Absent 7. Sample IDs: | 4. Λirbill: | | | | *************************************** | | | | b-1 | |
| 6. Sample Labels: | | (Present / Absent | | | | | | | | |
| 6. Sample IDs: (Isled) Not Listed on Chain-of Custody 7. Sample Condition: (Inlad) Horken' / Leaking' 9. Does information on chain-of-custody, traffic reports and sample labels agree? (eg) No' 10. Sample received within hold time? (eg) No' 11. Adequate sample volume received within hold time? (eg) No' 12. Proper preservalivequaed? (eg) No' 13. (in Blank) // emp Blank Received? (eg) No' 14. Read Temp: 3. 9ec (eg) No' 14. Read Temp: 3. 9ec (eg) No' 15. Corrected temp 4 +1-2°C? (eg) No' 16. Sample received? (eg) No' 17. Sample received? (eg) No' 18. Corrected temp 1 +1-2°C? (eg) No' 19. No' 10. Sample received? (eg) No' 10. Sample received? (eg) No' 11. Adequate sample volume received? (eg) No' 12. Proper preservalivequaed? (eg) No' 13. (in Blank) // emp Blank Received? (eg) No' 14. Read Temp: 3. 9ec (eg) No' 15. Corrected temp 4 +1-2°C? (eg) No' 16. Acceptance range for samples inquiriting thanual pies) 17. Exception (if any): METALS / DEF ON ICE or Problem COC | | Atteched | | derekteren in problemen in ^{tod} en der selb und were er rept dem derbesteren in met sig in bei de er enbes in mes in in en | | | | | / | |
| On Chain-of Custody 8. Sample Condition: Intact / Broken* / Leaking* 9. Does information on chain-of-custody, traffic reports and sample labels agree? (eg) No* 10. Sample received within hold time? (eg) No* 11. Adequate sample volume received? (eg) No* 12. Proper preservatives used? (eg) No* 13. An Blank /Temp Blank/Received? (eg) No* 14. Read Temp: \$\frac{3}{2}\frac{2}{2}\fr | | Preserit/ Absent | | | | | | | /_/ | |
| O. Sample Condition: Intact / Broken* / Leaking* D. Does information on chain-of-cuetody, fraffic reports and sample labels agree? (eg)/ No* O. Sample received within hold time? (eg)/ No* I. Adequate sample volume received? (eg)/ No* I. Proper preservglives used? (eg)/ No* I. Proper preservglives used? (eg)/ No* I. Mip Elanik / Temp Blank / Received? (etigle witch, if yes) (eg)/ No* I. Read Temp: 3.7 Corrected Temp: 3.7 Corrected temp 4 4/-2"C? (res) No* Acceptance range for samples requiring themal pines) **Fexception (if any): METALS / DITF ON ICE- or Problem COC | 7. Sample IDs: | (Listed) Not Listed | | | | | | 7-0- | | - And |
| Leaking* 9. Does information on chain-of-custody, traffic reports and sample labels agree? (eg) No* 10. Sample received within hold time? (eg) No* 11. Adequate sample volume received? (eg) No* 12. Proper preservatives used? (eg) No* 13. The Blank / (emp Blank Received? (eticle which, if yes) (?eg) No* 14. Read Temp: \$ 7 < Corrected Temp: \$ 7 < | | on Chain-of-Custody | | | | | | | | |
| Leaking* 9. Does information on chain-of-custody, traffic reports and sample labels agree? (eg)/ No* 10. Sample received within hold time? (eg)/ No* 11. Adequate sample volume received? 12. Proper preservalizes used? (eg)/ No* 13. (ii) Ellan) // (emp Ellank/Received)? (eily low). 14. Read Temp: \$\frac{1}{2}\frac{2}\frac{2}{2}\frac{2}{2}\frac{2}{2}\frac{2}{2}\frac{2}{2}\frac{2}{2}\frac{2}{2}\frac{2} | Sample Condition; | (Inlact / Broken* / | | | | | al | -/ | | |
| traffic reports and sample labels agree? (eg)/ No* 10. Sample received within hold time? (eg)/ No* 11. Adequate sample volume received? (eg)/ No* 12. Proper preservalized used? (eg)/ No* 13. Applian / (emp Blank Received? (eticls which, if yea) (es)/ No* 14. Read Temp: 3, 4* Corrected Temp: 3, 4* Is corrected lemp 4 14-2*C? (Yes) No* Acceptance range for samples requiring themat pines) **Fexception (if any): METALS / DITF ON ICE- or Problem COC | | | | to a productive to the state of a country is an extensive a country of the state of | | | 1/ | | | |
| agree? (es) No* 10. Sample received within hold time? (es) No* 11. Adequate sample volume received? (es) No* 12. Proper preservatives used? (es) No* 13. The Blank / Temp Blank/Received? (circle which, if yes) (res) No* 14. Read Temp: 3.9°C (Corrected Temp: 3.9°C (Sorrected Temp: 3.9°C) (secreted Temp: 3.9°C) (secre | | | | | | | · | | | m t rep descript melanomen dels memprade . 4 \ m men metalement dels membrades . |
| 10. Sample received within hold time? (es) No* 11. Adequate sample volume received? (es) No* 12. Proper preservatives used? (es) No* 13. Fip Etan) / (emp Blant/Received? (circle witch, it yes) (res) No* 14. Read Temp: 3.9°C Corrected temp 4.1-2°C? (Yes) No* 15. Corrected temp 4.1-2°C? (Yes) No* 16. Corrected temp 4.1-2°C? (Yes) No* 17. Acceptance range for samples requiring thermal pies) 18. **Fixception (If any): METALS / DEF ON ICE- or Problem COC | | eample labels | | | | ~ | | | | |
| hold time? (es) No* 11. Adequate sample volume received? (es) No* 12. Proper preservalives used? (es) No* 13. Prip Ellanii / Temp Blank/Received? (elique which, if yes) (fes) No* 14. Read Temp: 3. 9°C Corrected Temp: 3. 9°C Is corrected temp 4 +/-2°C? (Yes) No** Acceptance range for samples requiring thermal pase) **Fexception (if any): METALS / DEF ON ICE or Problem COC | | | | an and the transfer of the section o | X | / | | | ******** | |
| 11. Adequate sample volume received? (es)/ No* 12. Proper preservalives used? (es)/ No* 13. Prip Blank / Cemp Blank/Received? (circle which, if yes) (es) No* 14. Read Temp: 3.9°C Corrected Temp: 3.9°C Is corrected temp 4.1/2°C? (es) No** (Acceptance range for samples requiring themsal pies.) **Fixception (if any): METALS / DET ON ICE or l'roblem COC | | | | | | *************************************** | | | | |
| received? (es) No* 12. Proper preservalives used? (es) No* 13. Prip Blank / Temp Blank Received? (circle which, if yes) (circle which, | | | | The second secon | \cap | | | | | - C. St. At an annual County of the Principle County of the Asia and the County of the |
| 12. Proper preservalives used? (res) No* 13. Kip Elank / Temp Blank Received? (clicle which, if yes) (res) No* 14. Read Temp: 3.7°C Corrected Temp: 3.7°C Is corrected temp 4 +/-2°C? (res) No** Acceptance range for samples requiring themsel pres) **Exception (if any): METALS / DEF ON ICE or l'robben COC | | | | 10 | | | ~~~~~ | | | |
| 13. Tip Elank / Temp Blank/Received? (circle which, if yes) (Test) No* 14. Read Temp: 3. 9°C Corrected Temp: 3. 9°C Is corrected temp 4.1/-2°C? (Yes) No** Acceptance range for samples requiring thermal pies.) **Exception (if any): METALS / DET ON ICE or Problem COC | | | | | | | | | * 1***** - ** - ** ******************** | 2 |
| (circle which, if yes) (circl | 12. Proper preservalives | шsed? (16s)/ No* | | 3 / | | | | | | |
| 14. Read Temp: 3.7°C Corrected Temp: 3.9°C Is corrected temp 4 +/-2°C7 (Yes) No** (Acceptance range for samples requiring thermal pres.) **Fxception (if any): METALS / DET ON ICE or Problem COC | 13. Tip Blank (Temp Bla | | | | *************************************** | | | | | |
| Corrected Temp: 3.9°C Is corrected temp 4 +/-2°C7 (Yes) No** Acceptance range for samples requiring thermal pies) **Exception (if any): METALS / DET ON ICE or Problem COC | The same of the sa | | | | And American Chip State Commercial Springers | | | | | 3 |
| Is corrected temp 4 +/-2°C? (Yes) No** Acceptance range for samples requiring thermal pies) **Exception (if any): METALS / DEF ON ICE or Problem COC | | 3,000 | | | to decoding concept and summing and in the second | | | | | |
| Acceptance range for samples requiring thermal pies) **Exception (if any): METALS / DEF ON ICE or Problem COC | ' | 3.900 | | | | | | | | 2 |
| or Problem COC | | | | | | | | | | |
| or Problem COC | | | | | * | | | | | |
| | | FALS / DEF ON ICE | | * At about 100 and 100 | | | | | • | |
| | | | 1- | Table 1 | - | *************************************** | | | | . (4 |

SRL Revision () Replaces Rev 7 (07/10/06) Rective 09/13/06 *IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

Page \ of (

California Overnight Shipping Label



1-360-334-5060 / www.catover.com

Date Printed 4/2/2007

Shipped From: TEST AMERICA - SACRAMENTO 819 STRIKER AVENUE 8 SACRAMENTO, CA 95834



Tracking#D10010126257800

Sent By: TIM ALBRIGHT Phone#: (916)921-9600

wgt(lbs): 30 Reference:

Decl. Value: \$0.00

Ship To Company: TESTAMERICA - MORGAN HILL 885 JARVIS DR MORGAN HILL, CA 95037 SAMPLE CONTROL (408)776-9600

Service: S

Sort Code: SJC

Special Services:

APPENDIX B

GEOTRACKER UPLOAD CONFIRMATION

Electronic Submittal Information

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

Your EDF file has been successfully uploaded!

Confirmation Number: 7003895819

Date/Time of Submittal: 4/20/2007 9:30:16 AM

Facility Global ID: T0600100089 Facility Name: ARCO #4977

Submittal Title: 1Q07 GW Monitoring Submittal Type: GW Monitoring Report

Click here to view the detections report for this upload.

ARCO #4977 2770 CASTRO VALLEY CASTRO VALLEY, CA 94546 Regional Board - Case #: 01-0097

SAN FRANCISCO BAY RWOCB (REGION 2) Local Agency (lead agency) - Case #: RO0002436

ALAMEDA COUNTY LOP - (SP)

CONF# 7003895819 TITLE 1Q07 GW Monitoring QUARTER

Q1 2007

SUBMITTED BY

Broadbent & Associates, Inc.

SUBMIT DATE 4/20/2007

STATUS

PENDING REVIEW

SAMPLE DETECTIONS REPORT

FIELD POINTS SAMPLED

FIELD POINTS WITH DETECTIONS # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL

SAMPLE MATRIX TYPES

WATER

3

3

METHOD QA/QC REPORT

METHODS USED TESTED FOR REQUIRED ANALYTES? LAB NOTE DATA QUALIFIERS

TECHNICAL HOLDING TIME VIOLATIONS

8260FA,8260TPH

0

0

Ν

QA/QC FOR 8021/8260 SERIES SAMPLES

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

- LAB METHOD BLANK - MATRIX SPIKE

- MATRIX SPIKE DUPLICATE - BLANK SPIKE

N Υ - SURROGATE SPIKE

WATER SAMPLES FOR 8021/8260 SERIES

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

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

Logged in as BROADBENT-C (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.

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:

1Q07 GEO_WELL 4977

Submittal Date/Time:

4/20/2007 9:28:26 AM

Confirmation Number:

8034376382

Back to Main Menu

Logged in as BROADBENT-C (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.