



Atlantic Richfield Company  
(a BP affiliated company)

P.O. Box 1257  
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10 April 2008

Re: First Quarter 2008 Ground-Water Monitoring Report  
Former BP Station # 11124  
3315 High Street  
Oakland, California  
ACEH Case # RO0000239

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

Submitted by:

Paul Supple  
Environmental Business Manger

**RECEIVED**

9:34 am, May 01, 2008

Alameda County  
Environmental Health



**First Quarter 2008 Ground-Water Monitoring Report**

Former BP Station #11124

3315 High Street

Oakland, 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*

10 April 2008

Project No. 06-08-652

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

Attn.: Mr. Paul Supple

Re: First Quarter 2008 Ground-Water Monitoring Report, Former BP Station #11124,  
3315 High Street, Oakland, California; ACEH Case # RO0000239

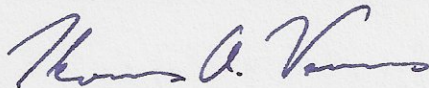
Dear Mr. Supple:

Attached is the *First Quarter 2008 Ground-Water Monitoring Report* for Former BP Station #11124 located at 3315 High Street, Oakland California (Site). This report presents a summary of results from ground-water monitoring and sampling conducted at the Site during the First Quarter of 2008.

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

Sincerely,

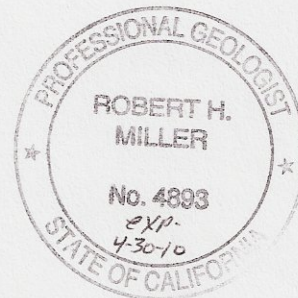
BROADBENT & ASSOCIATES, INC.



Thomas A. Venus, P.E.  
Senior Engineer



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



Enclosures

cc: Mr. Paresh Khatri, Alameda County Environmental Health (Submitted via ACEH ftp site)  
Ms. Shelby Lathrop, ConocoPhillips, 76 Broadway, Sacramento, California 95818  
Electronic copy uploaded to GeoTracker

## STATION #11124 QUARTERLY GROUND-WATER MONITORING REPORT

|                                     |  |
|-------------------------------------|--|
| Facility: #11124                    | Address: 3315 High Street, Oakland, California                             |
| Environmental Business Manager:     | Mr. Paul Supple  |
| Consulting Co./Contact Persons:     | Broadbent & Associates, Inc.(BAI)/Rob Miller & Tom Venus<br>(530) 566-1400 |
| Primary Agency/Regulatory ID No.:   | Alameda County Environmental Health (ACEH)<br>ACEH Case # RO0000239        |
| Consultant Project No.:             | 06-08-652  |
| Facility Permits/Permitting Agency: | None   |

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

1. Submitted Fourth Quarter 2007 Ground-Water Monitoring Report.
2. Conducted ground-water monitoring/sampling for First Quarter 2008. Work performed by Stratus Environmental, Inc. (Stratus) on 29 February 2008.

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

1. Prepare and submit First Quarter 2008 Ground-Water Monitoring Report (contained herein).
2. Conduct quarterly ground-water monitoring/sampling for Second Quarter 2008.

### QUARTERLY RESULTS SUMMARY:

|                                       |   |
|---------------------------------------|---|
| Current phase of project:             | <b>Ground-Water Monitoring/Sampling</b>                 |
| Frequency of ground-water monitoring: | <b>Quarterly: Wells MW-1, MW-2, MW-4, MW-5 and MW-6</b> |
| Frequency of ground-water sampling:   | <b>Quarterly: Wells MW-1, MW-2, MW-4, MW-5 and MW-6</b> |
| Is free product (FP) present on-site: | <b>No</b>   |
| Current remediation techniques:       | <b>NA</b>   |
| Depth to ground water (below TOC):    | <b>7.27 ft (MW-4) to 9.32 ft (MW-1)</b>                 |
| General ground-water flow direction:  | <b>Southwest</b>  |
| Approximate hydraulic gradient:       | <b>0.009 ft/ft</b>                                      |

### DISCUSSION:

First quarter 2008 ground-water monitoring/sampling was conducted at Former BP Station #11124 on 29 February 2008 by Stratus personnel. No irregularities were noted during water level gauging. Depth-to-water level measurements ranged from 7.27 ft at MW-4 to 9.32 ft at MW-1. Resulting ground-water surface elevations ranged from 148.02 ft above mean sea level (msl) at well MW-1 to 145.73 ft above msl at well MW-6. Water level elevations reached historic maximum values for each well, as summarized in Table 1, with the exception of well MW-6, which was within the historic minimum and maximum range. Water level elevations yielded a potentiometric ground-water flow direction and gradient to the southwest at approximately 0.009 ft/ft, consistent with historical data (see Table 3). Ground-water monitoring field data sheets are provided within Appendix A. Measured depths to ground water and respective ground-water elevations are summarized in Table 1. 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, MW-2, MW-4, MW-5, and MW-6. No irregularities were reported during sampling. Samples were submitted to Calscience Environmental Laboratories, Inc. (Garden Grove, California)

under chain-of-custody protocol for laboratory analysis of Gasoline Range Organics (GRO, C6-C12) by EPA Method 8015B; Diesel Range Organics (DRO, C10-C28) by EPA Method 8015B; Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by EPA Method 8260B; and Methyl tert-butyl ether (MTBE), Ethyl tert-butyl ether (ETBE), Ethanol, 1,2-Dichloroethane (1,2-DCA), 1,2-Dibromomethane (EDB), Di-isopropyl ether (DIPE), tert-Butyl alcohol (TBA), and tert-Amyl methyl ether (TAME) by EPA Method 8260B. The laboratory noted that the hydrocarbon pattern for DRO in the sample collected from well MW-2 does not match that of the diesel standard used to calculate results. 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.

Diesel Range Organics (DRO) were detected above the laboratory reporting limit in one of the five wells sampled at a concentration of 64 micrograms per liter ( $\mu\text{g/L}$ ) in well MW-2 (with the laboratory caveat noted above). TAME was detected above the laboratory reporting limit in two of the five wells sampled at concentrations up to 4.9  $\mu\text{g/L}$  in well MW-5. TBA was detected above the laboratory reporting limit in one of the five wells sampled at a concentration of 42  $\mu\text{g/L}$  in well MW-5. MTBE was detected above the laboratory reporting limit in four of the five wells sampled at concentrations up to 1,100  $\mu\text{g/L}$  in well MW-5. The remaining fuel additives and oxygenates were not detected above their respective laboratory reporting limits in the five wells sampled this quarter.

Detected analyte concentrations were within the historic minimum and maximum ranges recorded for each well with the following exceptions: the noted 'DRO' concentration for the sample collected from well MW-2 reached a historic maximum value of 64  $\mu\text{g/L}$ ; the TAME concentration for the sample collected from well MW-6 reached a historic maximum value of 0.71  $\mu\text{g/L}$ ; the TBA concentration for the sample collected from well MW-5 reached a historic maximum value of 42  $\mu\text{g/L}$ ; the MTBE concentration for the sample collected from well MW-5 reached a historic minimum value of 1,100  $\mu\text{g/L}$ ; and the MTBE concentration for the sample collected from well MW-6 reached a historic maximum value of 130  $\mu\text{g/L}$ . Historic laboratory analytical results are summarized in Table 1 and Table 2. The most recent GRO, Benzene, and MTBE concentrations are also presented in Drawing 1. A copy of the laboratory analytical report, including chain-of-custody documentation, is provided in Appendix A. Ground-water monitoring data (GEO\_WELL) and laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 database. Upload confirmation pages are provided in Appendix B.

With this First Quarter 2008 report, BAI proposes for ACEH consideration and approval the modification of the future monitoring and sampling schedule. BAI proposes continued quarterly monitoring of depths to ground-water from the five on-site wells. However, BAI proposes to discontinue quarterly collection and analysis of samples from wells MW-2 and MW-4 as hydrocarbon contaminants have not been detected to date in monitoring well MW-2 and rarely in well MW-4 (MTBE detected in two of ten quarters sampled). Furthermore, BAI proposes to discontinue the analysis of samples for DRO in the future as DRO has not been detected in onsite wells (with the exception of 13 March 2007 and 29 February 2008 in well MW-2 just above the reporting limit and with the laboratory noting that the chromatogram profiles were inconsistent with the patterns of the DRO fuel standard). At this time, no decision will be made regarding these proposals without discussion and approval from ACEH.

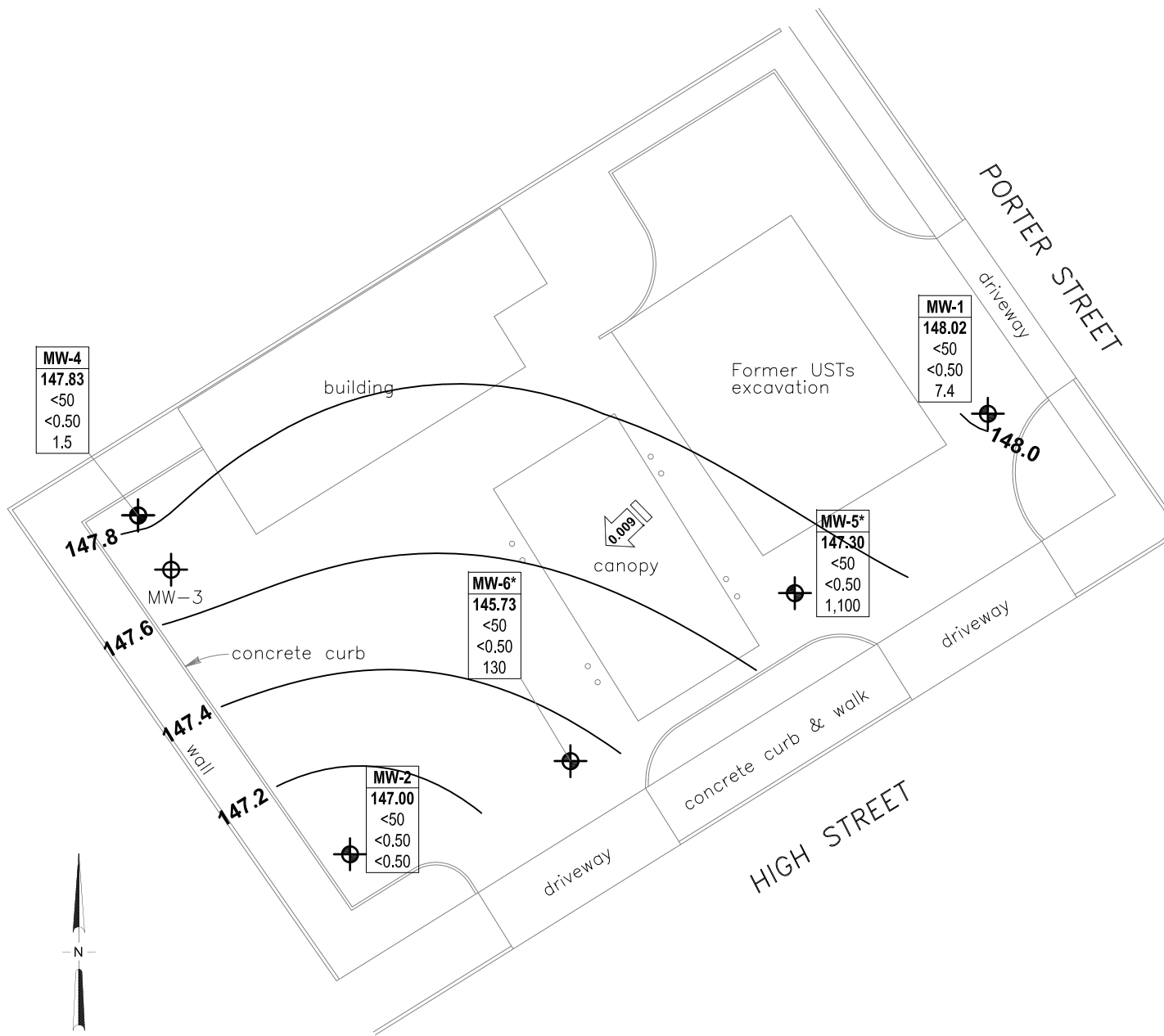
## **CLOSURE:**

The findings presented in this report are based upon: observations of Stratus field personnel (see Appendix A), the points investigated, and results of laboratory tests performed by Calscience Environmental Laboratories, Inc. (Garden Grove, California). Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No other

warranty, expressed or implied was made. This report has been prepared for the exclusive use of Atlantic Richfield Company. It is possible that variations in soil or ground-water conditions could exist beyond points explored in this investigation. Also, changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

**ATTACHMENTS:**

- Drawing 1. Ground-Water Elevation Contours and Analytical Summary Map, 29 February 2008, Former BP Service Station #11124, 3315 High Street, Oakland, California
- Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #11124, 3315 High St., Oakland, California
- Table 2. Summary of Fuel Additives Analytical Data, Station #11124, 3315 High St., Oakland, California
- Table 3. Historical Ground-Water Flow Direction and Gradient, Station #11124, 3315 High St., Oakland, California
- Appendix A. Stratus Ground-Water Sampling Data Package (Includes Field Data Sheets, Laboratory Analytical Report with Chain-of-Custody Documentation, and Field Procedures)
- Appendix B. GeoTracker Upload Confirmations



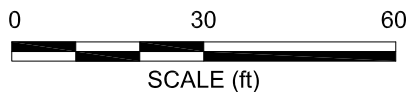
NOTE: SITE MAP ADAPTED FROM STRATUS ENVIRONMENTAL, INC FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

**LEGEND**

- ⊕ Ground-water monitoring well
- ⊖ Abandoned monitoring well

|         |   |
|---------|---|
| Well    | Well Designation                          |
| ELEV    | Ground-water elevation (ft MSL)           |
| GRO     | GRO, Benzene & MTBE concentrations (µg/L) |
| Benzene |   |
| MTBE    |   |

- 148.0 Ground-water elevation (ft MSL)
- \* Elevation not used in contours
- < Not detected at or above laboratory reporting limits
- ← 0.009 Ground-water flow direction and gradient (ft/ft)



**BROADBENT & ASSOCIATES, INC.**  
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL  
1324 Mangrove Ave., Suite 212 Chico, CA  
Project No.: 06-08-652 Date: 3/19/08

Former Station #11124  
3315 High Street  
Oakland, California

Ground-Water Elevation Contours  
and Analytical Summary Map  
29 February 2008

Drawing  
**1**



**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**  
**Station #11124, 3315 High St., Oakland, CA**

| Well and Sample Date | P/NP     | Footnote | TOC Elevation (feet msl) | DTW (feet bgs) | Product Thickness (feet) | Water Level Elevation (feet msl) | Concentrations in (µg/L) |                 |                 |                 |                 |                 | DO (mg/L)   | Lab        | pH          | DRO/TPHd (µg/L) | TOG (µg/L) |
|----------------------|----------|----------|--------------------------|----------------|--------------------------|----------------------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------|------------|-------------|-----------------|------------|
|                      |          |          |                          |                |                          |                                  | GRO/TPHg                 | Benzene         | Toluene         | Ethyl-Benzene   | Total Xylenes   | MtBE            |             |            |             |                 |            |
| <b>MW-1</b>          |          |          |                          |                |                          |                                  |                          |                 |                 |                 |                 |                 |             |            |             |                 |            |
| 10/19/2004           | P        |          | 154.99                   | 10.50          | --                       | 144.49                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 14              | 0.96        | SEQM       | 6.9         | --              | --         |
| 01/13/2005           | P        |          | 154.99                   | 9.00           | --                       | 145.99                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 33              | 2.5         | SEQM       | 6.4         | --              | --         |
| 02/24/2006           | P        | c        | 154.99                   | 10.42          | --                       | 144.57                           | 55                       | <0.50           | <0.50           | <0.50           | <0.50           | 51              | --          | SEQM       | 6.8         | --              | --         |
| 5/30/2006            | P        |          | 154.99                   | 10.94          | --                       | 144.05                           | 50                       | <0.50           | <0.50           | <0.50           | <0.50           | 58              | --          | SEQM       | 6.6         | --              | --         |
| 8/28/2006            | P        |          | 154.99                   | 10.61          | --                       | 144.38                           | 50                       | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | --          | TAMC       | 7.0         | --              | --         |
| 11/2/2006            | P        |          | 154.99                   | 10.83          | --                       | 144.16                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 9.8             | 1.40        | TAMC       | 6.99        | --              | --         |
| 2/6/2007             | P        | d        | 157.34                   | 9.88           | --                       | 147.46                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 1.1             | 2.76        | TAMC       | 7.10        | --              | --         |
| 3/13/2007            | P        |          | 157.34                   | 9.62           | --                       | 147.72                           | --                       | --              | --              | --              | --              | --              | 2.63        | TAMC       | 7.30        | <48             | --         |
| 5/8/2007             | P        |          | 157.34                   | 9.62           | --                       | 147.72                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 19              | 2.65        | TAMC       | 7.01        | <49             | --         |
| 8/7/2007             | P        |          | 157.34                   | 10.82          | --                       | 146.52                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 5.0             | 3.15        | TAMC       | 7.33        | <49             | --         |
| 11/13/2007           | --       |          | 157.34                   | 10.52          | --                       | 146.82                           | --                       | --              | --              | --              | --              | --              | 4.79        | TAMC       | 6.58        | <48             | --         |
| 12/20/2007           | NP       | e        | 157.34                   | 10.47          | --                       | 146.87                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 10              | 1.14        | TAMC       | 6.97        | --              | --         |
| <b>2/29/2008</b>     | <b>P</b> |          | <b>157.34</b>            | <b>9.32</b>    | <b>--</b>                | <b>148.02</b>                    | <b>&lt;50</b>            | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>7.4</b>      | <b>3.14</b> | <b>CEL</b> | <b>7.64</b> | <b>&lt;50</b>   | <b>--</b>  |
| <b>MW-2</b>          |          |          |                          |                |                          |                                  |                          |                 |                 |                 |                 |                 |             |            |             |                 |            |
| 10/19/2004           | --       | b        | 152.02                   | 9.45           | --                       | 142.57                           | --                       | --              | --              | --              | --              | --              | --          | --         | --          | --              | --         |
| 01/13/2005           | P        |          | 152.02                   | 6.43           | --                       | 145.59                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | 1.47        | SEQM       | 6.4         | --              | --         |
| 02/24/2006           | P        |          | 152.02                   | 7.88           | --                       | 144.14                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | --          | SEQM       | 6.7         | --              | --         |
| 5/30/2006            | P        |          | 152.02                   | 7.98           | --                       | 144.04                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | --          | SEQM       | 6.7         | --              | --         |
| 8/28/2006            | P        |          | 152.02                   | 9.38           | --                       | 142.64                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | --          | TAMC       | 6.7         | --              | --         |
| 11/2/2006            | --       |          | 152.02                   | 9.85           | --                       | 142.17                           | --                       | --              | --              | --              | --              | --              | --          | --         | --          | --              | --         |
| 2/6/2007             | P        | d        | 154.35                   | 8.40           | --                       | 145.95                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | 5.10        | TAMC       | 7.02        | --              | --         |
| 3/13/2007            | P        |          | 154.35                   | 7.55           | --                       | 146.80                           | --                       | --              | --              | --              | --              | --              | 4.83        | TAMC       | 7.17        | 52              | --         |
| 5/8/2007             | P        |          | 154.35                   | 7.70           | --                       | 146.65                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | 2.40        | TAMC       | 7.12        | <48             | --         |
| 8/7/2007             | P        |          | 154.35                   | 9.77           | --                       | 144.58                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | 2.47        | TAMC       | 7.19        | <47             | --         |
| 11/13/2007           | --       |          | 154.35                   | 9.30           | --                       | 145.05                           | --                       | --              | --              | --              | --              | --              | 4.90        | TAMC       | 7.02        | <48             | --         |
| 12/20/2007           | NP       | e        | 154.35                   | 9.34           | --                       | 145.01                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | 1.62        | TAMC       | 7.44        | --              | --         |
| <b>2/29/2008</b>     | <b>P</b> | <b>f</b> | <b>154.35</b>            | <b>7.35</b>    | <b>--</b>                | <b>147.00</b>                    | <b>&lt;50</b>            | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>4.39</b> | <b>CEL</b> | <b>7.76</b> | <b>64</b>       | <b>--</b>  |
| <b>MW-4</b>          |          |          |                          |                |                          |                                  |                          |                 |                 |                 |                 |                 |             |            |             |                 |            |
| 10/19/2004           | P        |          | 152.77                   | 9.55           | --                       | 143.22                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | 0.82        | SEQM       | 7.0         | --              | --         |



**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**  
**Station #11124, 3315 High St., Oakland, CA**

| Well and Sample Date | P/NP     | Footnote | TOC Elevation (feet msl) | DTW (feet bgs) | Product Thickness (feet) | Water Level Elevation (feet msl) | Concentrations in (µg/L) |                 |                 |                 |                 |                 | DO (mg/L)    | Lab         | pH         | DRO/TPHd (µg/L) | TOG (µg/L)    |           |
|----------------------|----------|----------|--------------------------|----------------|--------------------------|----------------------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|-------------|------------|-----------------|---------------|-----------|
|                      |          |          |                          |                |                          |                                  | GRO/TPHg                 | Benzene         | Toluene         | Ethyl-Benzene   | Total Xylenes   | MtBE            |              |             |            |                 |               |           |
| <b>MW-4 Cont.</b>    |          |          |                          |                |                          |                                  |                          |                 |                 |                 |                 |                 |              |             |            |                 |               |           |
| 01/13/2005           | --       | a        | 152.77                   | --             | --                       | --                               | --                       | --              | --              | --              | --              | --              | --           | --          | --         | --              | --            |           |
| 02/24/2006           | P        |          | 152.77                   | 7.86           | --                       | 144.91                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | --           | SEQM        | 7.1        | --              | --            |           |
| 5/30/2006            | P        |          | 152.77                   | 8.04           | --                       | 144.73                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | --           | SEQM        | 6.9        | --              | --            |           |
| 8/28/2006            | P        |          | 152.77                   | 9.36           | --                       | 143.41                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 16              | --           | TAMC        | 6.5        | --              | --            |           |
| 11/2/2006            | P        |          | 152.77                   | 9.92           | --                       | 142.85                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | 2.23         | TAMC        | 6.79       | --              | --            |           |
| 2/6/2007             | P        | d        | 155.10                   | 8.40           | --                       | 146.70                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | 1.43         | TAMC        | 7.10       | --              | --            |           |
| 3/13/2007            | P        |          | 155.10                   | 7.56           | --                       | 147.54                           | --                       | --              | --              | --              | --              | --              | 2.53         | TAMC        | 7.18       | <49             | --            |           |
| 5/8/2007             | P        |          | 155.10                   | 7.68           | --                       | 147.42                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | 2.78         | TAMC        | 7.28       | <48             | --            |           |
| 8/7/2007             | P        |          | 155.10                   | 9.83           | --                       | 145.27                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | 3.70         | TAMC        | 7.13       | <48             | --            |           |
| 11/13/2007           | --       |          | 155.10                   | 9.28           | --                       | 145.82                           | --                       | --              | --              | --              | --              | --              | 5.71         | TAMC        | 7.11       | <48             | --            |           |
| 12/20/2007           | NP       | e        | 155.10                   | 9.23           | --                       | 145.87                           | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | 1.13         | TAMC        | 7.16       | --              | --            |           |
| <b>2/29/2008</b>     | <b>P</b> |          | <b>155.10</b>            | <b>7.27</b>    | --                       | <b>147.83</b>                    | <b>&lt;50</b>            | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>1.5</b>   | <b>4.26</b> | <b>CEL</b> | <b>8.03</b>     | <b>&lt;50</b> | <b>--</b> |
| <b>MW-5</b>          |          |          |                          |                |                          |                                  |                          |                 |                 |                 |                 |                 |              |             |            |                 |               |           |
| 3/13/2007            | P        | d        | 155.45                   | 8.72           | --                       | 146.73                           | 880                      | <0.50           | <0.50           | <0.50           | <0.50           | 1,400           | 1.84         | TAMC        | 7.36       | <48             | --            |           |
| 5/8/2007             | P        | c        | 155.45                   | 8.42           | --                       | 147.03                           | 920                      | <5.0            | <5.0            | <5.0            | <5.0            | 1,300           | 3.26         | TAMC        | 7.50       | <48             | --            |           |
| 8/7/2007             | P        | c        | 155.45                   | 9.88           | --                       | 145.57                           | 1,300                    | <10             | <10             | <10             | <10             | 1,600           | 3.54         | TAMC        | 7.34       | <48             | --            |           |
| 11/13/2007           | P        | c        | 155.45                   | 9.68           | --                       | 145.77                           | 950                      | <10             | <10             | <10             | <10             | 1,400           | 4.68         | TAMC        | 6.99       | <48             | --            |           |
| <b>2/29/2008</b>     | <b>P</b> |          | <b>155.45</b>            | <b>8.15</b>    | --                       | <b>147.30</b>                    | <b>&lt;50</b>            | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>1,100</b> | <b>4.84</b> | <b>CEL</b> | <b>7.93</b>     | <b>&lt;50</b> | <b>--</b> |
| <b>MW-6</b>          |          |          |                          |                |                          |                                  |                          |                 |                 |                 |                 |                 |              |             |            |                 |               |           |
| 3/13/2007            | P        | d        | 154.59                   | 7.82           | --                       | 146.77                           | 86                       | <0.50           | <0.50           | <0.50           | <0.50           | 88              | 1.92         | TAMC        | 7.21       | <48             | --            |           |
| 5/8/2007             | P        | c        | 154.59                   | 7.92           | --                       | 146.67                           | 88                       | <0.50           | <0.50           | <0.50           | <0.50           | 120             | 1.87         | TAMC        | 7.50       | <48             | --            |           |
| 8/7/2007             | P        | c        | 154.59                   | 9.85           | --                       | 144.74                           | 67                       | <0.50           | <0.50           | <0.50           | <0.50           | 85              | 3.60         | TAMC        | 7.25       | <47             | --            |           |
| 11/13/2007           | P        | c        | 154.59                   | 9.71           | --                       | 144.88                           | 67                       | <1.0            | <1.0            | <1.0            | <1.0            | 98              | 4.44         | TAMC        | 7.16       | <48             | --            |           |
| <b>2/29/2008</b>     | <b>P</b> |          | <b>154.59</b>            | <b>8.86</b>    | --                       | <b>145.73</b>                    | <b>&lt;50</b>            | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>130</b>   | <b>4.35</b> | <b>CEL</b> | <b>7.82</b>     | <b>&lt;50</b> | <b>--</b> |

ABBREVIATIONS AND SYMBOLS:

-- = Not analyzed/measured/applicable  
< = Not detected at or above laboratory reporting limit  
DO = Dissolved oxygen  
ft bgs = Feet below ground surface  
ft MSL = Feet above mean sea level  
DTW = Depth to water in ft bgs  
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 in ft MSL  
TPH-g = Total petroleum hydrocarbons as gasoline  
µg/L = Micrograms per liter  
SEQM = Sequoia Analytical Morgan Hill (Laboratory)

FOOTNOTES:

a = Well inaccessible.  
b = Well is dry.  
c = Hydrocarbon result for GRO partly due to individual peak(s) in quantitative range.  
d = Well survey by Morrow Surveying on 12/27/2006.  
e = Well re-sampled due to insufficient laboratory analysis of previous sampling event on 11/13/2007. The depth to water and resulting water level elevation from 11/13/2007 will be used for reporting purposes for Fourth Quarter 2007.  
f = The hydrocarbon pattern for DRO in the sample does not match that of the diesel standard used to calculate results.

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 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 #11124, 3315 High St., Oakland, CA**

| Well and Sample Date | Concentrations in (µg/L) |               |                 |                 |                 |                 |                 |                 | Comments |
|----------------------|--------------------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------|
|                      | Ethanol                  | TBA           | MTBE            | DIPE            | ETBE            | TAME            | 1,2-DCA         | EDB             |          |
| <b>MW-1</b>          |                          |               |                 |                 |                 |                 |                 |                 |          |
| 10/19/2004           | <100                     | <20           | 14              | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 01/13/2005           | <100                     | <20           | 33              | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 02/24/2006           | <300                     | <20           | 51              | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 5/30/2006            | <300                     | <20           | 58              | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 8/28/2006            | <300                     | <20           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 11/2/2006            | <300                     | <20           | 9.8             | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 2/6/2007             | <300                     | <20           | 1.1             | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 5/8/2007             | <300                     | <20           | 19              | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 8/7/2007             | <300                     | <20           | 5.0             | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 12/20/2007           | <300                     | <20           | 10              | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| <b>2/29/2008</b>     | <b>&lt;300</b>           | <b>&lt;10</b> | <b>7.4</b>      | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> |          |
| <b>MW-2</b>          |                          |               |                 |                 |                 |                 |                 |                 |          |
| 01/13/2005           | <100                     | <20           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 02/24/2006           | <300                     | <20           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 5/30/2006            | <300                     | <20           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 8/28/2006            | <300                     | <20           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 2/6/2007             | <300                     | <20           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 5/8/2007             | <300                     | <20           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 8/7/2007             | <300                     | <20           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 12/20/2007           | <300                     | <20           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| <b>2/29/2008</b>     | <b>&lt;300</b>           | <b>&lt;10</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> |          |
| <b>MW-4</b>          |                          |               |                 |                 |                 |                 |                 |                 |          |
| 10/19/2004           | <100                     | <20           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 02/24/2006           | <300                     | <20           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 5/30/2006            | <300                     | <20           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 8/28/2006            | <300                     | <20           | 16              | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 11/2/2006            | <300                     | <20           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 2/6/2007             | <300                     | <20           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 5/8/2007             | <300                     | <20           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 8/7/2007             | <300                     | <20           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |

**Table 2. Summary of Fuel Additives Analytical Data  
Station #11124, 3315 High St., Oakland, CA**

| Well and<br>Sample Date | Concentrations in (µg/L) |               |              |                 |                 |                 |                 |                 | Comments |
|-------------------------|--------------------------|---------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------|
|                         | Ethanol                  | TBA           | MTBE         | DIPE            | ETBE            | TAME            | 1,2-DCA         | EDB             |          |
| <b>MW-4 Cont.</b>       |                          |               |              |                 |                 |                 |                 |                 |          |
| 12/20/2007              | <300                     | <20           | <0.50        | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| <b>2/29/2008</b>        | <b>&lt;300</b>           | <b>&lt;10</b> | <b>1.5</b>   | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> |          |
| <b>MW-5</b>             |                          |               |              |                 |                 |                 |                 |                 |          |
| 3/13/2007               | <3,000                   | <200          | 1,400        | <5.0            | <5.0            | 6.5             | <5.0            | <5.0            |          |
| 5/8/2007                | <3,000                   | <200          | 1,300        | <0.50           | <0.50           | 7.0             | <0.50           | <0.50           |          |
| 8/7/2007                | <6,000                   | <400          | 1,600        | <10             | <10             | <10             | <10             | <10             |          |
| 11/13/2007              | <6,000                   | <400          | 1,400        | <10             | <10             | <10             | <10             | <10             |          |
| <b>2/29/2008</b>        | <b>&lt;300</b>           | <b>42</b>     | <b>1,100</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>4.9</b>      | <b>&lt;0.50</b> | <b>&lt;0.50</b> |          |
| <b>MW-6</b>             |                          |               |              |                 |                 |                 |                 |                 |          |
| 3/13/2007               | <300                     | <20           | 88           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 5/8/2007                | <300                     | <20           | 120          | <0.50           | <0.50           | 0.61            | <0.50           | <0.50           |          |
| 8/7/2007                | <300                     | <20           | 85           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           |          |
| 11/13/2007              | <600                     | <40           | 98           | <1.0            | <1.0            | <1.0            | <1.0            | <1.0            |          |
| <b>2/29/2008</b>        | <b>&lt;300</b>           | <b>&lt;10</b> | <b>130</b>   | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>0.71</b>     | <b>&lt;0.50</b> | <b>&lt;0.50</b> |          |

ABBREVIATIONS AND SYMBOLS:

TBA = tert-Butyl alcohol

MTBE = Methyl tert-butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tert-butyl ether

TAME = tert-Amyl methyl ether

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromomethane

µg/L = micrograms per liter

< = Not detected at or above laboratory reporting limit

NOTES:

All fuel oxygenate compounds are 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 #11124, 3315 High St., Oakland, CA**

| <b>Date Sampled</b> | <b>Approximate Flow Direction</b> | <b>Approximate Hydraulic Gradient</b> |
|---------------------|-----------------------------------|---------------------------------------|
| 11/12/1990          | --                                | --                                    |
| 7/15/1991           | Southwest                         | 0.0174                                |
| 10/15/1991          | Southwest                         | 0.0182                                |
| 1/15/1992           | South-Southwest                   | 0.014                                 |
| 4/17/1992           | South                             | 0.014                                 |
| 9/30/1992           | South-Southwest                   | 0.018                                 |
| 12/17/1992          | North                             | 0.01                                  |
| 3/15/1993           | South                             | 0.007                                 |
| 10/19/2004          | South-Southwest                   | 0.022                                 |
| 1/13/2005           | --                                | --                                    |
| 2/24/2006           | Southeast                         | 0.01                                  |
| 5/30/2006           | East-Southeast                    | 0.007                                 |
| 8/28/2006           | South                             | 0.012                                 |
| 11/2/2006           | South                             | 0.013                                 |
| 3/13/2007           | Southwest                         | 0.006                                 |
| 5/8/2007            | South-Southwest                   | 0.009                                 |
| 8/7/2007            | Southwest                         | 0.01                                  |
| 11/13/2007          | Southwest                         | 0.01                                  |
| 12/17/2007          | Southwest                         | 0.01                                  |
| <b>2/29/2008</b>    | <b>Southwest</b>                  | <b>0.009</b>                          |

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

**APPENDIX A**

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





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

March 18, 2008

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

Re: Groundwater Sampling Data Package, BP Service Station No. 11124, located at  
3315 High Street, Oakland, California

### **General Information**

*Data Submittal Prepared / Reviewed by:* Becky Carroll / Jay Johnson

*Phone Number:* (530) 676-6000

*On-Site Supplier Representative:* Roberto Heimlich

*Sampling Date:* February 29, 2008

*Arrival:* 12:15      *Departure:* 14:40

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

Sincerely,

**STRATUS ENVIRONMENTAL, INC.**

Jay R. Johnson, P.G.  
Project Manager



**Attachments:**

- Field Data Sheets
- Non-Hazardous Waste Data Form
- Chain of Custody Documentation
- Certified Analytical Results
- Field Procedures for Groundwater Sampling

cc: Mr. Paul Supple, BP/ARCO



# BP ALAMEDA PORTFOLIO

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11124 PURGED BY: RH WELL I.D.: MW-1  
 CLIENT NAME: \_\_\_\_\_ SAMPLED BY: RH SAMPLE I.D.: MW-1  
 LOCATION: Oakland - 3315 High Street QA SAMPLES: \_\_\_\_\_

DATE PURGED 2/29/08 START (2400hr) 14:08 END (2400hr) 14:25  
 DATE SAMPLED 2/29/08 SAMPLE TIME (2400hr) 14:23  
 SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) 2" (0.17) 3" (0.38) 4" (0.67) 5" (1.02) 6" (1.50) 8" (2.60) Other \_\_\_\_\_

DEPTH TO BOTTOM (feet) = 34.47 CASING VOLUME (gal) = 4.2  
 DEPTH TO WATER (feet) = 9.32 CALCULATED PURGE (gal) = 12.8  
 WATER COLUMN HEIGHT (feet) = 25.15 ACTUAL PURGE (gal) = 13

### FIELD MEASUREMENTS

| DATE           | TIME (2400hr) | VOLUME (gal) | TEMP. (degrees F) | CONDUCTIVITY (umhos/cm) | pH (units)  | COLOR (visual) | TURBIDITY (NTU) |
|----------------|---------------|--------------|-------------------|-------------------------|-------------|----------------|-----------------|
| <u>2/29/08</u> | <u>14:10</u>  | <u>4</u>     | <u>22.7</u>       | <u>308.6</u>            | <u>8.12</u> | <u>clear</u>   | _____           |
| <u>✓</u>       | <u>14:12</u>  | <u>8</u>     | <u>22.6</u>       | <u>294.5</u>            | <u>7.81</u> | <u>✓</u>       | _____           |
| <u>✓</u>       | <u>14:14</u>  | <u>13</u>    | <u>23.5</u>       | <u>296.5</u>            | <u>7.64</u> | <u>✓</u>       | _____           |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |

SAMPLE DEPTH TO WATER: 11.52 SAMPLE INFORMATION SAMPLE TURBIDITY: clear

80% RECHARGE:  YES  NO ANALYSES: SWO  
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 6 VOLS / HCL - ZAMBER / WA

### PURGING EQUIPMENT

Bladder Pump  Bailer (Teflon)  
 Centrifugal Pump  Bailer (PVC)  
 Submersible Pump  Bailer (Stainless Steel)  
 Peristaltic Pump  Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Pump Depth: 34

### SAMPLING EQUIPMENT

Bladder Pump  Bailer (Teflon)  
 Centrifugal Pump  Bailer (  PVC or  disposable)  
 Submersible Pump  Bailer (Stainless Steel)  
 Peristaltic Pump  Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_

WELL INTEGRITY: GOOD LOCK#: MASTER

REMARKS: DO 3.14

SIGNATURE: [Signature] Page \_\_\_\_\_ of \_\_\_\_\_

# BP ALAMEDA PORTFOLIO

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11124 PURGED BY: RH WELL I.D.: MW-2  
 CLIENT NAME: \_\_\_\_\_ SAMPLED BY: RH SAMPLE I.D.: MW-2  
 LOCATION: Oakland - 3315 High Street QA SAMPLES: \_\_\_\_\_

DATE PURGED 2/29/08 START (2400hr) 13:05 END (2400hr) 13:21  
 DATE SAMPLED 2/29/08 SAMPLE TIME (2400hr) 13:19  
 SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 28.80 CASING VOLUME (gal) = 3.6  
 DEPTH TO WATER (feet) = 7.35 CALCULATED PURGE (gal) = 10.9  
 WATER COLUMN HEIGHT (feet) = 21.45 ACTUAL PURGE (gal) = 11

### FIELD MEASUREMENTS

| DATE           | TIME (2400hr) | VOLUME (gal) | TEMP. (degrees F) | CONDUCTIVITY (umhos/cm) | pH (units)  | COLOR (visual) | TURBIDITY (NTU) |
|----------------|---------------|--------------|-------------------|-------------------------|-------------|----------------|-----------------|
| <u>2/29/08</u> | <u>13:07</u>  | <u>4</u>     | <u>23.6</u>       | <u>552</u>              | <u>8.00</u> | <u>clear</u>   | _____           |
| <u>V</u>       | <u>13:09</u>  | <u>8</u>     | <u>25.5</u>       | <u>575</u>              | <u>7.84</u> | <u>V</u>       | _____           |
|                | <u>13:11</u>  | <u>11</u>    | <u>26.2</u>       | <u>566</u>              | <u>7.76</u> | <u>V</u>       | _____           |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |

### SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 9.01 SAMPLE TURBIDITY: clear  
 80% RECHARGE:  YES  NO ANALYSES: SWD  
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 6 VOLS / HCL - 2 BAILER / NA

### PURGING EQUIPMENT

Bladder Pump \_\_\_\_\_ Bailer (Teflon) \_\_\_\_\_  
 Centrifugal Pump \_\_\_\_\_ Bailer (PVC) \_\_\_\_\_  
 Submersible Pump \_\_\_\_\_ Bailer (Stainless Steel) \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_ Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Pump Depth: 28

### SAMPLING EQUIPMENT

Bladder Pump \_\_\_\_\_ Bailer (Teflon) \_\_\_\_\_  
 Centrifugal Pump \_\_\_\_\_ Bailer (PVC or  disposable) \_\_\_\_\_  
 Submersible Pump \_\_\_\_\_ Bailer (Stainless Steel) \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_ Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_

WELL INTEGRITY: GOOD LOCK#: MASTER  
 REMARKS: DO 4.39

SIGNATURE: [Signature] Page \_\_\_\_\_ of \_\_\_\_\_

# BP ALAMEDA PORTFOLIO

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11124 PURGED BY: RH WELL I.D.: MW-4  
 CLIENT NAME: \_\_\_\_\_ SAMPLED BY: RH SAMPLE I.D.: MW-4  
 LOCATION: Oakland - 3315 High Street QA SAMPLES: \_\_\_\_\_

DATE PURGED 2/29/08 START (2400hr) 12:43 END (2400hr) 13:00  
 DATE SAMPLED 2/29/08 SAMPLE TIME (2400hr) 12:57  
 SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 30.18 CASING VOLUME (gal) = 3.8  
 DEPTH TO WATER (feet) = 7.27 CALCULATED PURGE (gal) = 11.6  
 WATER COLUMN HEIGHT (feet) = 22.9 ACTUAL PURGE (gal) = 12

### FIELD MEASUREMENTS

| DATE           | TIME (2400hr) | VOLUME (gal) | TEMP. (degrees F) | CONDUCTIVITY (umhos/cm) | pH (units)  | COLOR (visual) | TURBIDITY (NTU) |
|----------------|---------------|--------------|-------------------|-------------------------|-------------|----------------|-----------------|
| <u>2/29/08</u> | <u>12:44</u>  | <u>4</u>     | <u>18.7</u>       | <u>599</u>              | <u>8.33</u> | <u>clear</u>   | _____           |
| <u>✓</u>       | <u>12:45</u>  | <u>8</u>     | <u>19.0</u>       | <u>507</u>              | <u>8.16</u> | <u>✓</u>       | _____           |
| <u>✓</u>       | <u>12:46</u>  | <u>12</u>    | <u>19.7</u>       | <u>504</u>              | <u>8.03</u> | <u>✓</u>       | _____           |
|                |               |              |                   |                         |             |                |                 |
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|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |

### SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 9.01 SAMPLE TURBIDITY: clear  
 80% RECHARGE:  YES  NO ANALYSES: SWO  
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 6 VOAS/HCL - 2 AMBER NA

### PURGING EQUIPMENT

Bladder Pump  Bailer (Teflon)  
 Centrifugal Pump  Bailer (PVC)  
 Submersible Pump  Bailer (Stainless Steel)  
 Peristaltic Pump  Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Pump Depth: 30

### SAMPLING EQUIPMENT

Bladder Pump  Bailer (Teflon)  
 Centrifugal Pump  Bailer (  PVC or  disposable)  
 Submersible Pump  Bailer (Stainless Steel)  
 Peristaltic Pump  Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_

WELL INTEGRITY: GOOD LOCK#: MASTER

REMARKS: DO 4.26

SIGNATURE: [Signature] Page \_\_\_\_\_ of \_\_\_\_\_

# BP ALAMEDA PORTFOLIO

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11124 PURGED BY: RH WELL I.D.: MW-5  
 CLIENT NAME: \_\_\_\_\_ SAMPLED BY: RH SAMPLE I.D.: MW-5  
 LOCATION: Oakland - 3315 High Street QA SAMPLES: \_\_\_\_\_

DATE PURGED 2/29/08 START (2400hr) 13:49 END (2400hr) 14:02  
 DATE SAMPLED 2/29/08 SAMPLE TIME (2400hr) 13:59  
 SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 29.82 CASING VOLUME (gal) = 3.6  
 DEPTH TO WATER (feet) = 8.15 CALCULATED PURGE (gal) = 11.0  
 WATER COLUMN HEIGHT (feet) = 21.6 ACTUAL PURGE (gal) = 11.5

### FIELD MEASUREMENTS

| DATE           | TIME (2400hr) | VOLUME (gal) | TEMP. (degrees F) | CONDUCTIVITY (umhos/cm) | pH (units)  | COLOR (visual) | TURBIDITY (NTU) |
|----------------|---------------|--------------|-------------------|-------------------------|-------------|----------------|-----------------|
| <u>2/29/08</u> | <u>13:51</u>  | <u>4.0</u>   | <u>22.4</u>       | <u>579</u>              | <u>7.91</u> | <u>clear</u>   | _____           |
| <u>✓</u>       | <u>13:53</u>  | <u>8</u>     | <u>23.5</u>       | <u>583</u>              | <u>7.92</u> | <u>✓</u>       | _____           |
| <u>✓</u>       | <u>13:55</u>  | <u>11.5</u>  | <u>24.0</u>       | <u>695</u>              | <u>7.93</u> | <u>✓</u>       | _____           |
| _____          | _____         | _____        | _____             | _____                   | _____       | _____          | _____           |
| _____          | _____         | _____        | _____             | _____                   | _____       | _____          | _____           |
| _____          | _____         | _____        | _____             | _____                   | _____       | _____          | _____           |
| _____          | _____         | _____        | _____             | _____                   | _____       | _____          | _____           |
| _____          | _____         | _____        | _____             | _____                   | _____       | _____          | _____           |
| _____          | _____         | _____        | _____             | _____                   | _____       | _____          | _____           |
| _____          | _____         | _____        | _____             | _____                   | _____       | _____          | _____           |

### SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 9.49 SAMPLE TURBIDITY: clear  
 80% RECHARGE:  YES  NO ANALYSES: SWO  
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 6 VOAS / HCL - 2 AMBER / NO

#### PURGING EQUIPMENT

Bladder Pump                       Bailer (Teflon)  
 Centrifugal Pump                   Bailer (PVC)  
 Submersible Pump                   Bailer (Stainless Steel)  
 Peristaltic Pump                    Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Pump Depth: 29

#### SAMPLING EQUIPMENT

Bladder Pump                       Bailer (Teflon)  
 Centrifugal Pump                   Bailer (  PVC or  disposable)  
 Submersible Pump                   Bailer (Stainless Steel)  
 Peristaltic Pump                    Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_

WELL INTEGRITY: GOOD LOCK#: MASTER  
 REMARKS: NO 4.84

SIGNATURE: [Signature] Page \_\_\_\_\_ of \_\_\_\_\_



# BP ALAMEDA PORTFOLIO

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11124 PURGED BY: RH WELL I.D.: MW-6  
 CLIENT NAME: \_\_\_\_\_ SAMPLED BY: RH SAMPLE I.D.: MW-6  
 LOCATION: Oakland - 3315 High Street QA SAMPLES: \_\_\_\_\_

DATE PURGED 2/29/08 START (2400hr) 13:26 END (2400hr) 13:43  
 DATE SAMPLED 2/29/08 SAMPLE TIME (2400hr) 13:41  
 SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 29.55 CASING VOLUME (gal) = 3.5  
 DEPTH TO WATER (feet) = 8.86 CALCULATED PURGE (gal) = 10.5  
 WATER COLUMN HEIGHT (feet) = 20.6 ACTUAL PURGE (gal) = 11

### FIELD MEASUREMENTS

| DATE           | TIME (2400hr) | VOLUME (gal) | TEMP. (degrees F) | CONDUCTIVITY (umhos/cm) | pH (units)  | COLOR (visual) | TURBIDITY (NTU) |
|----------------|---------------|--------------|-------------------|-------------------------|-------------|----------------|-----------------|
| <u>2/29/08</u> | <u>13:28</u>  | <u>3.5</u>   | <u>23.3</u>       | <u>610</u>              | <u>8.01</u> | <u>clear</u>   | _____           |
| <u>✓</u>       | <u>13:30</u>  | <u>7</u>     | <u>25.7</u>       | <u>601</u>              | <u>7.92</u> | <u>✓</u>       | _____           |
| <u>✓</u>       | <u>13:32</u>  | <u>11</u>    | <u>27.7</u>       | <u>605</u>              | <u>7.32</u> | <u>✓</u>       | _____           |
|                |               |              |                   |                         |             |                |                 |
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|                |               |              |                   |                         |             |                |                 |
|                |               |              |                   |                         |             |                |                 |

### SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: \_\_\_\_\_ SAMPLE TURBIDITY: clear

80% RECHARGE:  YES  NO ANALYSES: SWD  
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 6 VOLS / HCL - 2 AMBER / WA

#### PURGING EQUIPMENT

Bladder Pump \_\_\_\_\_ Bailer (Teflon) \_\_\_\_\_  
 Centrifugal Pump \_\_\_\_\_ Bailer (PVC) \_\_\_\_\_  
 Submersible Pump \_\_\_\_\_ Bailer (Stainless Steel) \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_ Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Pump Depth: 29

#### SAMPLING EQUIPMENT

Bladder Pump \_\_\_\_\_ Bailer (Teflon) \_\_\_\_\_  
 Centrifugal Pump \_\_\_\_\_ Bailer ( \_\_\_\_\_ PVC or  disposable) \_\_\_\_\_  
 Submersible Pump \_\_\_\_\_ Bailer (Stainless Steel) \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_ Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_

WELL INTEGRITY: GOOD LOCK#: MASTER

REMARKS: 00 4.35

SIGNATURE: [Signature] Page \_\_\_\_\_ of \_\_\_\_\_



NO. 668562

# NON-HAZARDOUS WASTE DATA FORM

SITE:

EPA I.D. NO.

NOT REQUIRED

NAME BP WEST COAST PRODUCTS LLC ARCO # 11124

ADDRESS P.O. BOX 80249 3315 HIGH ST OAKLAND

RANCHO SANTA MARGARITA

CITY, STATE, ZIP CA 94608

PROFILE NO.

PHONE NO. ( )

CONTAINERS: No. \_\_\_\_\_ VOLUME 58.5 WEIGHT \_\_\_\_\_

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

WASTE DESCRIPTION NON-HAZARDOUS WATER GENERATING PROCESS WELL PURGING/DECON WATER  
COMPONENTS OF WASTE PPM % COMPONENTS OF WASTE PPM %

- |                                |                 |
|--------------------------------|-----------------|
| 1. <u>WATER</u> <u>99-100%</u> | 5. _____        |
| 2. <u>TDM</u> <u>&lt;1%</u>    | 6. _____        |
| 3. _____                       | 7. <u>RESID</u> |
| 4. _____                       | 8. _____        |
| 9. _____                       | 9. _____        |

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

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PROTECTIVE CLOTHING

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

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

2/29/08  
DATE

TO BE COMPLETED BY GENERATOR

TRANSPORTER

NAME Transporter #1 STRATUS ENVIRONMENTAL Transporter #2

ADDRESS 3320 CAMERON PARK DR

CITY, STATE, ZIP CAMERON PARK, CA 95682

PHONE NO. 530-576-2091

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

EPA I.D. NO.

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

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

ROBERTO HEIMMICH  
TYPED OR PRINTED FULL NAME & SIGNATURE

2/29/08  
DATE

TSD FACILITY

NAME INSTRAT, INC.

ADDRESS 1105 AIRPORT RD #C

CITY, STATE, ZIP RIO VISTA, CA 94571

PHONE NO. 530-753-1829

EPA I.D. NO.

DISPOSAL METHOD

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

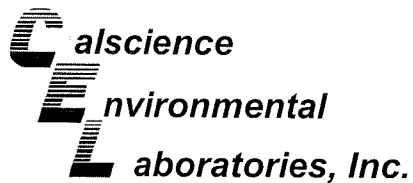
TYPED OR PRINTED FULL NAME & SIGNATURE

DATE

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

DISCREPANCY





March 13, 2008

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

Subject: **Calscience Work Order No.: 08-03-0139**  
**Client Reference: BP 11124**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 3/4/2008 and analyzed in accordance with the attached chain-of-custody.

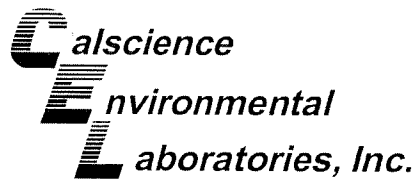
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows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

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

Sincerely,

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

Calscience Environmental  
Laboratories, Inc.  
Linda Scharpenberg  
Project Manager



**CASE NARRATIVE – 08-03-0139**

**Data Qualifiers - EPA 8260:**

Batch 080311S01:

The % recovery for ethanol was bias high and the RPD was outside acceptance criteria in the MS/MSD. The % recoveries were within acceptance criteria in the LCS/LCSD. The MS/MSD has been flagged "3,4" within the report.

"3" = LM, AY

"4" = BA, AY

BA = Relative percent difference out of control

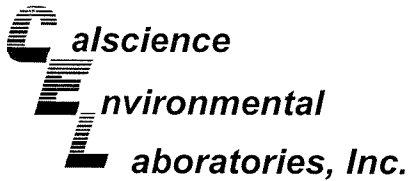
LM = MS and/or MSD below acceptance limits. See Blank Spike (LCS).

AY = Matrix interference suspected

**Data Qualifiers - EPA 8015 Diesel:**

Sample 2: The hydrocarbon pattern in the sample does not match that of the diesel standard used to calculate results. The data has been flagged "LX".

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



## Analytical Report

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

Date Received: 03/04/08  
 Work Order No: 08-03-0139  
 Preparation: EPA 5030B  
 Method: EPA 8015B (M)

Project: BP 11124

Page 1 of 2

| Client Sample Number | Lab Sample Number     | Date/Time Collected       | Matrix         | Instrument   | Date Prepared   | Date/Time Analyzed        | QC Batch ID      |
|----------------------|-----------------------|---------------------------|----------------|--------------|-----------------|---------------------------|------------------|
| <b>MW-1</b>          | <b>08-03-0139-1-D</b> | <b>02/29/08<br/>14:23</b> | <b>Aqueous</b> | <b>GC 29</b> | <b>03/05/08</b> | <b>03/06/08<br/>07:55</b> | <b>080305B02</b> |

| <u>Parameter</u>                 | <u>Result</u>  | <u>RL</u>             | <u>DF</u> | <u>Qual</u> | <u>Units</u> |
|----------------------------------|----------------|-----------------------|-----------|-------------|--------------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1         |             | ug/L         |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |           | <u>Qual</u> |              |
| 1,4-Bromofluorobenzene           | 62             | 38-134                |           |             |              |

|             |                       |                           |                |              |                 |                           |                  |
|-------------|-----------------------|---------------------------|----------------|--------------|-----------------|---------------------------|------------------|
| <b>MW-2</b> | <b>08-03-0139-2-D</b> | <b>02/29/08<br/>13:19</b> | <b>Aqueous</b> | <b>GC 29</b> | <b>03/05/08</b> | <b>03/06/08<br/>08:37</b> | <b>080305B02</b> |
|-------------|-----------------------|---------------------------|----------------|--------------|-----------------|---------------------------|------------------|

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

|             |                       |                           |                |              |                 |                           |                  |
|-------------|-----------------------|---------------------------|----------------|--------------|-----------------|---------------------------|------------------|
| <b>MW-4</b> | <b>08-03-0139-3-D</b> | <b>02/29/08<br/>12:57</b> | <b>Aqueous</b> | <b>GC 29</b> | <b>03/05/08</b> | <b>03/06/08<br/>09:16</b> | <b>080305B02</b> |
|-------------|-----------------------|---------------------------|----------------|--------------|-----------------|---------------------------|------------------|

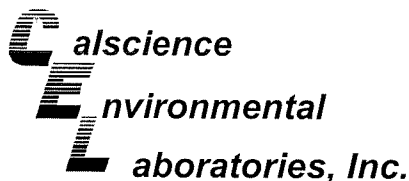
| <u>Parameter</u>                 | <u>Result</u>  | <u>RL</u>             | <u>DF</u> | <u>Qual</u> | <u>Units</u> |
|----------------------------------|----------------|-----------------------|-----------|-------------|--------------|
| Gasoline Range Organics (C6-C12) | ND             | 50      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

|             |                       |                           |                |              |                 |                           |                  |
|-------------|-----------------------|---------------------------|----------------|--------------|-----------------|---------------------------|------------------|
| <b>MW-5</b> | <b>08-03-0139-4-D</b> | <b>02/29/08<br/>13:59</b> | <b>Aqueous</b> | <b>GC 29</b> | <b>03/05/08</b> | <b>03/06/08<br/>09:51</b> | <b>080305B02</b> |
|-------------|-----------------------|---------------------------|----------------|--------------|-----------------|---------------------------|------------------|

| <u>Parameter</u>                 | <u>Result</u>  | <u>RL</u>             | <u>DF</u> | <u>Qual</u> | <u>Units</u> |
|----------------------------------|----------------|-----------------------|-----------|-------------|--------------|
| Gasoline Range Organics (C6-C12) | ND             | 50                    | 1         |             | ug/L         |
| <u>Surrogates:</u>               | <u>REC (%)</u> | <u>Control Limits</u> |           | <u>Qual</u> |              |
| 1,4-Bromofluorobenzene           | 56             | 38-134                |           |             |              |

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





## Analytical Report

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

Date Received: 03/04/08  
 Work Order No: 08-03-0139  
 Preparation: EPA 5030B  
 Method: EPA 8015B (M)

Project: BP 11124

Page 2 of 2

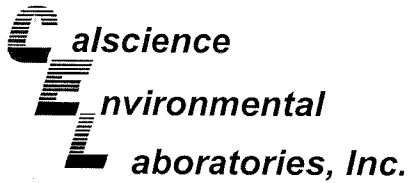
| Client Sample Number | Lab Sample Number     | Date/Time Collected       | Matrix         | Instrument   | Date Prepared   | Date/Time Analyzed        | QC Batch ID      |
|----------------------|-----------------------|---------------------------|----------------|--------------|-----------------|---------------------------|------------------|
| <b>MW-6</b>          | <b>08-03-0139-5-D</b> | <b>02/29/08<br/>13:41</b> | <b>Aqueous</b> | <b>GC 29</b> | <b>03/05/08</b> | <b>03/06/08<br/>10:25</b> | <b>080305B02</b> |

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

|                     |                      |            |                |              |                 |                           |                  |
|---------------------|----------------------|------------|----------------|--------------|-----------------|---------------------------|------------------|
| <b>Method Blank</b> | <b>099-12-695-47</b> | <b>N/A</b> | <b>Aqueous</b> | <b>GC 29</b> | <b>03/05/08</b> | <b>03/06/08<br/>04:20</b> | <b>080305B02</b> |
|---------------------|----------------------|------------|----------------|--------------|-----------------|---------------------------|------------------|

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

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



## Analytical Report

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

Date Received: 03/04/08  
 Work Order No: 08-03-0139  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

Project: BP 11124

Page 1 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-1                 | 08-03-0139-1-A    | 02/29/08<br>14:23   | Aqueous | GC 23      | 03/05/08      | 03/06/08<br>18:43  | 080305B11   |

| Parameter                       | Result         | RL                    | DF | Qual        | Units |
|---------------------------------|----------------|-----------------------|----|-------------|-------|
| Diesel Range Organics (C10-C28) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>              | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| Decachlorobiphenyl              | 103            | 68-140                |    |             |       |

|      |                |                   |         |       |          |                   |           |
|------|----------------|-------------------|---------|-------|----------|-------------------|-----------|
| MW-2 | 08-03-0139-2-A | 02/29/08<br>13:19 | Aqueous | GC 23 | 03/05/08 | 03/06/08<br>18:51 | 080305B11 |
|------|----------------|-------------------|---------|-------|----------|-------------------|-----------|

Comment(s): -LX = Quantitation of unknown hydrocarbon(s) in sample based on diesel.

| Parameter                       | Result         | RL                    | DF | Qual        | Units |
|---------------------------------|----------------|-----------------------|----|-------------|-------|
| Diesel Range Organics (C10-C28) | 64             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>              | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| Decachlorobiphenyl              | 99             | 68-140                |    |             |       |

|      |                |                   |         |       |          |                   |           |
|------|----------------|-------------------|---------|-------|----------|-------------------|-----------|
| MW-4 | 08-03-0139-3-A | 02/29/08<br>12:57 | Aqueous | GC 23 | 03/05/08 | 03/06/08<br>19:01 | 080305B11 |
|------|----------------|-------------------|---------|-------|----------|-------------------|-----------|

| Parameter                       | Result         | RL                    | DF | Qual        | Units |
|---------------------------------|----------------|-----------------------|----|-------------|-------|
| Diesel Range Organics (C10-C28) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>              | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| Decachlorobiphenyl              | 102            | 68-140                |    |             |       |

|      |                |                   |         |       |          |                   |           |
|------|----------------|-------------------|---------|-------|----------|-------------------|-----------|
| MW-5 | 08-03-0139-4-A | 02/29/08<br>13:59 | Aqueous | GC 23 | 03/05/08 | 03/06/08<br>19:11 | 080305B11 |
|------|----------------|-------------------|---------|-------|----------|-------------------|-----------|

| Parameter                       | Result         | RL                    | DF | Qual        | Units |
|---------------------------------|----------------|-----------------------|----|-------------|-------|
| Diesel Range Organics (C10-C28) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>              | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| Decachlorobiphenyl              | 108            | 68-140                |    |             |       |

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

**Analytical Report**

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

Date Received: 03/04/08  
 Work Order No: 08-03-0139  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

Project: BP 11124

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-6                 | 08-03-0139-5-A    | 02/29/08<br>13:41   | Aqueous | GC 23      | 03/05/08      | 03/06/08<br>19:20  | 080305B11   |

| Parameter                       | Result         | RL                    | DF | Qual        | Units |
|---------------------------------|----------------|-----------------------|----|-------------|-------|
| Diesel Range Organics (C10-C28) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>              | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| Decachlorobiphenyl              | 106            | 68-140                |    |             |       |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank         | 099-12-699-17     | N/A                 | Aqueous | GC 23      | 03/05/08      | 03/06/08<br>18:14  | 080305B11   |

| Parameter                       | Result         | RL                    | DF | Qual        | Units |
|---------------------------------|----------------|-----------------------|----|-------------|-------|
| Diesel Range Organics (C10-C28) | ND             | 50                    | 1  |             | ug/L  |
| <u>Surrogates:</u>              | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |       |
| Decachlorobiphenyl              | 111            | 68-140                |    |             |       |

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

**Analytical Report**

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

Date Received: 03/04/08  
 Work Order No: 08-03-0139  
 Preparation: EPA 5030B  
 Method: EPA 8260B  
 Units: ug/L

Project: BP 11124

Page 1 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-1                 | 08-03-0139-1-F    | 02/29/08 14:23      | Aqueous | GC/MS Z    | 03/08/08      | 03/09/08 04:03     | 080308L02   |

| Parameter             | Result         | RL                    | DF | Qual        | Parameter                     | Result         | RL                    | DF | Qual        |
|-----------------------|----------------|-----------------------|----|-------------|-------------------------------|----------------|-----------------------|----|-------------|
| Benzene               | ND             | 0.50                  | 1  |             | Methyl-t-Butyl Ether (MTBE)   | 7.4            | 0.50                  | 1  |             |
| 1,2-Dibromoethane     | ND             | 0.50                  | 1  |             | Tert-Butyl Alcohol (TBA)      | ND             | 10                    | 1  |             |
| 1,2-Dichloroethane    | ND             | 0.50                  | 1  |             | Diisopropyl Ether (DIPE)      | ND             | 0.50                  | 1  |             |
| Ethylbenzene          | ND             | 0.50                  | 1  |             | Ethyl-t-Butyl Ether (ETBE)    | ND             | 0.50                  | 1  |             |
| Toluene               | ND             | 0.50                  | 1  |             | Tert-Amyl-Methyl Ether (TAME) | ND             | 0.50                  | 1  |             |
| Xylenes (total)       | ND             | 0.50                  | 1  |             | Ethanol                       | ND             | 300                   | 1  |             |
| <u>Surrogates:</u>    | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> | <u>Surrogates:</u>            | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |
| 1,2-Dichloroethane-d4 | 122            | 73-157                |    |             | Dibromofluoromethane          | 127            | 82-142                |    |             |
| Toluene-d8            | 97             | 82-112                |    |             | 1,4-Bromofluorobenzene        | 85             | 75-105                |    |             |

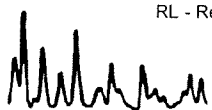
| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-2                 | 08-03-0139-2-F    | 02/29/08 13:19      | Aqueous | GC/MS Z    | 03/08/08      | 03/09/08 04:33     | 080308L02   |

| Parameter             | Result         | RL                    | DF | Qual        | Parameter                     | Result         | RL                    | DF | Qual        |
|-----------------------|----------------|-----------------------|----|-------------|-------------------------------|----------------|-----------------------|----|-------------|
| Benzene               | ND             | 0.50                  | 1  |             | Methyl-t-Butyl Ether (MTBE)   | ND             | 0.50                  | 1  |             |
| 1,2-Dibromoethane     | ND             | 0.50                  | 1  |             | Tert-Butyl Alcohol (TBA)      | ND             | 10                    | 1  |             |
| 1,2-Dichloroethane    | ND             | 0.50                  | 1  |             | Diisopropyl Ether (DIPE)      | ND             | 0.50                  | 1  |             |
| Ethylbenzene          | ND             | 0.50                  | 1  |             | Ethyl-t-Butyl Ether (ETBE)    | ND             | 0.50                  | 1  |             |
| Toluene               | ND             | 0.50                  | 1  |             | Tert-Amyl-Methyl Ether (TAME) | ND             | 0.50                  | 1  |             |
| Xylenes (total)       | ND             | 0.50                  | 1  |             | Ethanol                       | ND             | 300                   | 1  |             |
| <u>Surrogates:</u>    | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> | <u>Surrogates:</u>            | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |
| 1,2-Dichloroethane-d4 | 119            | 73-157                |    |             | Dibromofluoromethane          | 123            | 82-142                |    |             |
| Toluene-d8            | 96             | 82-112                |    |             | 1,4-Bromofluorobenzene        | 84             | 75-105                |    |             |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-4                 | 08-03-0139-3-F    | 02/29/08 12:57      | Aqueous | GC/MS Z    | 03/08/08      | 03/09/08 05:04     | 080308L02   |

| Parameter             | Result         | RL                    | DF | Qual        | Parameter                     | Result         | RL                    | DF | Qual        |
|-----------------------|----------------|-----------------------|----|-------------|-------------------------------|----------------|-----------------------|----|-------------|
| Benzene               | ND             | 0.50                  | 1  |             | Methyl-t-Butyl Ether (MTBE)   | 1.5            | 0.50                  | 1  |             |
| 1,2-Dibromoethane     | ND             | 0.50                  | 1  |             | Tert-Butyl Alcohol (TBA)      | ND             | 10                    | 1  |             |
| 1,2-Dichloroethane    | ND             | 0.50                  | 1  |             | Diisopropyl Ether (DIPE)      | ND             | 0.50                  | 1  |             |
| Ethylbenzene          | ND             | 0.50                  | 1  |             | Ethyl-t-Butyl Ether (ETBE)    | ND             | 0.50                  | 1  |             |
| Toluene               | ND             | 0.50                  | 1  |             | Tert-Amyl-Methyl Ether (TAME) | ND             | 0.50                  | 1  |             |
| Xylenes (total)       | ND             | 0.50                  | 1  |             | Ethanol                       | ND             | 300                   | 1  |             |
| <u>Surrogates:</u>    | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> | <u>Surrogates:</u>            | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |
| 1,2-Dichloroethane-d4 | 120            | 73-157                |    |             | Dibromofluoromethane          | 125            | 82-142                |    |             |
| Toluene-d8            | 96             | 82-112                |    |             | 1,4-Bromofluorobenzene        | 84             | 75-105                |    |             |

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



**Analytical Report**

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

Date Received: 03/04/08  
 Work Order No: 08-03-0139  
 Preparation: EPA 5030B  
 Method: EPA 8260B  
 Units: ug/L

Project: BP 11124

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-5                 | 08-03-0139-4-F    | 02/29/08<br>13:59   | Aqueous | GC/MS Z    | 03/08/08      | 03/09/08<br>05:34  | 080308L02   |

| Parameter             | Result  | RL             | DF | Qual | Parameter                     | Result  | RL             | DF  | Qual |
|-----------------------|---------|----------------|----|------|-------------------------------|---------|----------------|-----|------|
| Benzene               | ND      | 0.50           | 1  |      | Methyl-t-Butyl Ether (MTBE)   | 1100    | 50             | 100 |      |
| 1,2-Dibromoethane     | ND      | 0.50           | 1  |      | Tert-Butyl Alcohol (TBA)      | 42      | 10             | 1   |      |
| 1,2-Dichloroethane    | ND      | 0.50           | 1  |      | Diisopropyl Ether (DIPE)      | ND      | 0.50           | 1   |      |
| Ethylbenzene          | ND      | 0.50           | 1  |      | Ethyl-t-Butyl Ether (ETBE)    | ND      | 0.50           | 1   |      |
| Toluene               | ND      | 0.50           | 1  |      | Tert-Amyl-Methyl Ether (TAME) | 4.9     | 0.50           | 1   |      |
| Xylenes (total)       | ND      | 0.50           | 1  |      | Ethanol                       | ND      | 300            | 1   |      |
| Surrogates:           | REC (%) | Control Limits |    | Qual | Surrogates:                   | REC (%) | Control Limits |     | Qual |
| 1,2-Dichloroethane-d4 | 119     | 73-157         |    |      | Dibromofluoromethane          | 122     | 82-142         |     |      |
| Toluene-d8            | 90      | 82-112         |    |      | 1,4-Bromofluorobenzene        | 84      | 75-105         |     |      |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-6                 | 08-03-0139-5-F    | 02/29/08<br>13:41   | Aqueous | GC/MS Z    | 03/08/08      | 03/09/08<br>06:04  | 080308L02   |

| Parameter             | Result  | RL             | DF | Qual | Parameter                     | Result  | RL             | DF | Qual |
|-----------------------|---------|----------------|----|------|-------------------------------|---------|----------------|----|------|
| Benzene               | ND      | 0.50           | 1  |      | Methyl-t-Butyl Ether (MTBE)   | 130     | 10             | 20 |      |
| 1,2-Dibromoethane     | ND      | 0.50           | 1  |      | Tert-Butyl Alcohol (TBA)      | ND      | 10             | 1  |      |
| 1,2-Dichloroethane    | ND      | 0.50           | 1  |      | Diisopropyl Ether (DIPE)      | ND      | 0.50           | 1  |      |
| Ethylbenzene          | ND      | 0.50           | 1  |      | Ethyl-t-Butyl Ether (ETBE)    | ND      | 0.50           | 1  |      |
| Toluene               | ND      | 0.50           | 1  |      | Tert-Amyl-Methyl Ether (TAME) | 0.71    | 0.50           | 1  |      |
| Xylenes (total)       | ND      | 0.50           | 1  |      | Ethanol                       | ND      | 300            | 1  |      |
| Surrogates:           | REC (%) | Control Limits |    | Qual | Surrogates:                   | REC (%) | Control Limits |    | Qual |
| 1,2-Dichloroethane-d4 | 116     | 73-157         |    |      | Dibromofluoromethane          | 124     | 82-142         |    |      |
| Toluene-d8            | 94      | 82-112         |    |      | 1,4-Bromofluorobenzene        | 84      | 75-105         |    |      |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank         | 099-12-703-81     | N/A                 | Aqueous | GC/MS Z    | 03/08/08      | 03/09/08<br>00:02  | 080308L02   |

| Parameter             | Result  | RL             | DF | Qual | Parameter                     | Result  | RL             | DF | Qual |
|-----------------------|---------|----------------|----|------|-------------------------------|---------|----------------|----|------|
| Benzene               | ND      | 0.50           | 1  |      | Methyl-t-Butyl Ether (MTBE)   | ND      | 0.50           | 1  |      |
| 1,2-Dibromoethane     | ND      | 0.50           | 1  |      | Tert-Butyl Alcohol (TBA)      | ND      | 10             | 1  |      |
| 1,2-Dichloroethane    | ND      | 0.50           | 1  |      | Diisopropyl Ether (DIPE)      | ND      | 0.50           | 1  |      |
| Ethylbenzene          | ND      | 0.50           | 1  |      | Ethyl-t-Butyl Ether (ETBE)    | ND      | 0.50           | 1  |      |
| Toluene               | ND      | 0.50           | 1  |      | Tert-Amyl-Methyl Ether (TAME) | ND      | 0.50           | 1  |      |
| Xylenes (total)       | ND      | 0.50           | 1  |      | Ethanol                       | ND      | 300            | 1  |      |
| Surrogates:           | REC (%) | Control Limits |    | Qual | Surrogates:                   | REC (%) | Control Limits |    | Qual |
| 1,2-Dichloroethane-d4 | 122     | 73-157         |    |      | Dibromofluoromethane          | 124     | 82-142         |    |      |
| Toluene-d8            | 95      | 82-112         |    |      | 1,4-Bromofluorobenzene        | 85      | 75-105         |    |      |

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

**Analytical Report**

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

Date Received: 03/04/08  
 Work Order No: 08-03-0139  
 Preparation: EPA 5030B  
 Method: EPA 8260B  
 Units: ug/L

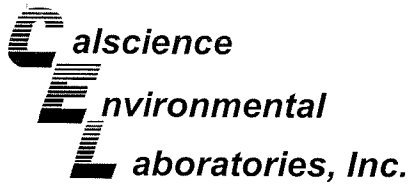
Project: BP 11124

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank         | 099-12-703-84     | N/A                 | Aqueous | GC/MS Z    | 03/11/08      | 03/11/08 17:16     | 080311L01   |

| Parameter             | Result         | RL                    | DF | Qual        | Parameter                     | Result         | RL                    | DF | Qual        |
|-----------------------|----------------|-----------------------|----|-------------|-------------------------------|----------------|-----------------------|----|-------------|
| Benzene               | ND             | 0.50                  | 1  |             | Methyl-t-Butyl Ether (MTBE)   | ND             | 0.50                  | 1  |             |
| 1,2-Dibromoethane     | ND             | 0.50                  | 1  |             | Tert-Butyl Alcohol (TBA)      | ND             | 10                    | 1  |             |
| 1,2-Dichloroethane    | ND             | 0.50                  | 1  |             | Diisopropyl Ether (DIPE)      | ND             | 0.50                  | 1  |             |
| Ethylbenzene          | ND             | 0.50                  | 1  |             | Ethyl-t-Butyl Ether (ETBE)    | ND             | 0.50                  | 1  |             |
| Toluene               | ND             | 0.50                  | 1  |             | Tert-Amyl-Methyl Ether (TAME) | ND             | 0.50                  | 1  |             |
| Xylenes (total)       | ND             | 0.50                  | 1  |             | Ethanol                       | ND             | 300                   | 1  |             |
| <u>Surrogates:</u>    | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> | <u>Surrogates:</u>            | <u>REC (%)</u> | <u>Control Limits</u> |    | <u>Qual</u> |
| 1,2-Dichloroethane-d4 | 106            | 73-157                |    |             | Dibromofluoromethane          | 103            | 82-142                |    |             |
| Toluene-d8            | 99             | 82-112                |    |             | 1,4-Bromofluorobenzene        | 97             | 75-105                |    |             |

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



**Quality Control - Spike/Spike Duplicate**

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

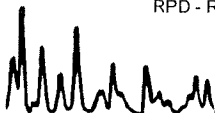
Date Received: 03/04/08  
 Work Order No: 08-03-0139  
 Preparation: EPA 5030B  
 Method: EPA 8015B (M)

Project BP 11124

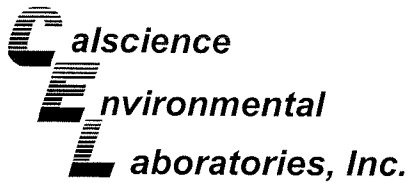
| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 08-03-0007-2              | Aqueous | GC 29      | 03/05/08      | 03/06/08      | 080305S02           |

| <u>Parameter</u>                 | <u>MS %REC</u> | <u>MSD %REC</u> | <u>%REC CL</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
|----------------------------------|----------------|-----------------|----------------|------------|---------------|-------------------|
| Gasoline Range Organics (C6-C12) | 102            | 106             | 38-134         | 4          | 0-25          |                   |

RPD - Relative Percent Difference , CL - Control Limit







**Quality Control - Spike/Spike Duplicate**

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

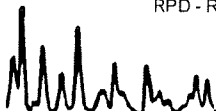
Date Received: 03/04/08  
Work Order No: 08-03-0139  
Preparation: EPA 5030B  
Method: EPA 8260B

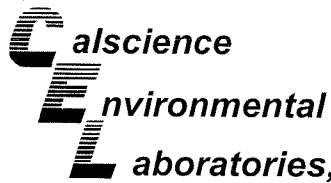
Project BP 11124

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 08-03-0130-2              | Aqueous | GC/MS Z    | 03/08/08      | 03/09/08      | 080308S02           |

| Parameter                     | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|---------|----------|---------|-----|--------|------------|
| Benzene                       | 93      | 97       | 86-122  | 3   | 0-8    |            |
| Carbon Tetrachloride          | 92      | 92       | 78-138  | 0   | 0-9    |            |
| Chlorobenzene                 | 100     | 101      | 90-120  | 2   | 0-9    |            |
| 1,2-Dibromoethane             | 95      | 94       | 70-130  | 1   | 0-30   |            |
| 1,2-Dichlorobenzene           | 94      | 97       | 89-119  | 3   | 0-10   |            |
| 1,1-Dichloroethene            | 104     | 105      | 52-142  | 1   | 0-23   |            |
| Ethylbenzene                  | 98      | 101      | 70-130  | 3   | 0-30   |            |
| Toluene                       | 96      | 98       | 85-127  | 2   | 0-12   |            |
| Trichloroethene               | 91      | 94       | 78-126  | 3   | 0-10   |            |
| Vinyl Chloride                | 80      | 77       | 56-140  | 4   | 0-21   |            |
| Methyl-t-Butyl Ether (MTBE)   | 88      | 90       | 64-136  | 2   | 0-28   |            |
| Tert-Butyl Alcohol (TBA)      | 103     | 109      | 27-183  | 3   | 0-60   |            |
| Diisopropyl Ether (DIPE)      | 95      | 94       | 78-126  | 1   | 0-16   |            |
| Ethyl-t-Butyl Ether (ETBE)    | 90      | 91       | 67-133  | 2   | 0-21   |            |
| Tert-Amyl-Methyl Ether (TAME) | 92      | 94       | 63-141  | 1   | 0-21   |            |
| Ethanol                       | 92      | 93       | 11-167  | 0   | 0-64   |            |

RPD - Relative Percent Difference , CL - Control Limit





**Quality Control - Spike/Spike Duplicate**

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

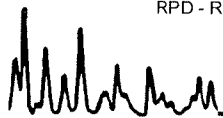
Date Received: 03/04/08  
 Work Order No: 08-03-0139  
 Preparation: EPA 5030B  
 Method: EPA 8260B

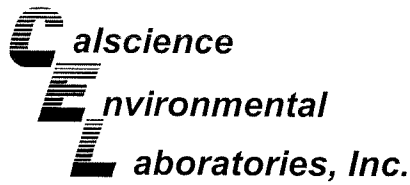
Project BP 11124

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 08-03-0143-9              | Aqueous | GC/MS Z    | 03/11/08      | 03/11/08      | 080311S01           |

| Parameter                     | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|---------|----------|---------|-----|--------|------------|
| Benzene                       | 92      | 95       | 86-122  | 4   | 0-8    |            |
| Carbon Tetrachloride          | 92      | 95       | 78-138  | 3   | 0-9    |            |
| Chlorobenzene                 | 92      | 95       | 90-120  | 3   | 0-9    |            |
| 1,2-Dibromoethane             | 86      | 89       | 70-130  | 3   | 0-30   |            |
| 1,2-Dichlorobenzene           | 91      | 95       | 89-119  | 4   | 0-10   |            |
| 1,1-Dichloroethene            | 88      | 89       | 52-142  | 1   | 0-23   |            |
| Ethylbenzene                  | 92      | 92       | 70-130  | 1   | 0-30   |            |
| Toluene                       | 92      | 96       | 85-127  | 4   | 0-12   |            |
| Trichloroethene               | 90      | 92       | 78-126  | 3   | 0-10   |            |
| Vinyl Chloride                | 99      | 107      | 56-140  | 8   | 0-21   |            |
| Methyl-t-Butyl Ether (MTBE)   | 93      | 102      | 64-136  | 10  | 0-28   |            |
| Tert-Butyl Alcohol (TBA)      | 128     | 145      | 27-183  | 13  | 0-60   |            |
| Diisopropyl Ether (DIPE)      | 98      | 109      | 78-126  | 11  | 0-16   |            |
| Ethyl-t-Butyl Ether (ETBE)    | 92      | 103      | 67-133  | 11  | 0-21   |            |
| Tert-Amyl-Methyl Ether (TAME) | 88      | 93       | 63-141  | 6   | 0-21   |            |
| Ethanol                       | 270     | 128      | 11-167  | 72  | 0-64   | 3,4        |

RPD - Relative Percent Difference , CL - Control Limit





**Quality Control - LCS/LCS Duplicate**

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

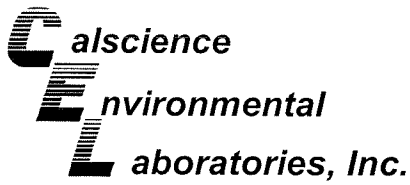
Date Received: N/A  
 Work Order No: 08-03-0139  
 Preparation: EPA 5030B  
 Method: EPA 8015B (M)

Project: BP 11124

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 099-12-695-47             | Aqueous | GC 29      | 03/05/08      | 03/06/08      | 080305B02             |

| Parameter                        | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|----------------------------------|----------|-----------|---------|-----|--------|------------|
| Gasoline Range Organics (C6-C12) | 82       | 89        | 78-120  | 8   | 0-20   |            |

RPD - Relative Percent Difference , CL - Control Limit



**Quality Control - LCS/LCS Duplicate**

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

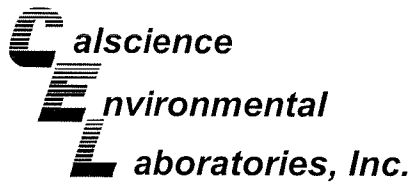
Date Received: N/A  
 Work Order No: 08-03-0139  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

Project: BP 11124

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 099-12-699-17             | Aqueous | GC 23      | 03/05/08      | 03/06/08      | 080305B11             |

| <u>Parameter</u>                | <u>LCS %REC</u> | <u>LCSD %REC</u> | <u>%REC CL</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
|---------------------------------|-----------------|------------------|----------------|------------|---------------|-------------------|
| Diesel Range Organics (C10-C28) | 96              | 100              | 75-117         | 3          | 0-20          |                   |

RPD - Relative Percent Difference , CL - Control Limit



**Quality Control - LCS/LCS Duplicate**

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

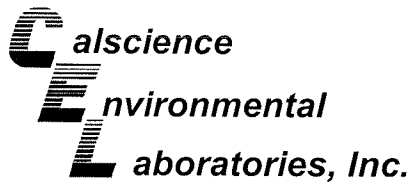
Date Received: N/A  
Work Order No: 08-03-0139  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: BP 11124

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 099-12-703-81             | Aqueous | GC/MS Z    | 03/08/08      | 03/08/08      | 080308L02             |

| Parameter                     | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|----------|-----------|---------|-----|--------|------------|
| Benzene                       | 98       | 97        | 87-117  | 1   | 0-7    |            |
| Carbon Tetrachloride          | 93       | 95        | 78-132  | 2   | 0-8    |            |
| Chlorobenzene                 | 101      | 99        | 88-118  | 1   | 0-8    |            |
| 1,2-Dibromoethane             | 100      | 103       | 80-120  | 2   | 0-20   |            |
| 1,2-Dichlorobenzene           | 97       | 99        | 88-118  | 2   | 0-8    |            |
| 1,1-Dichloroethene            | 92       | 86        | 71-131  | 6   | 0-14   |            |
| Ethylbenzene                  | 100      | 100       | 80-120  | 0   | 0-20   |            |
| Toluene                       | 97       | 97        | 85-127  | 0   | 0-7    |            |
| Trichloroethene               | 96       | 99        | 85-121  | 4   | 0-11   |            |
| Vinyl Chloride                | 78       | 80        | 64-136  | 1   | 0-10   |            |
| Methyl-t-Butyl Ether (MTBE)   | 96       | 95        | 67-133  | 1   | 0-16   |            |
| Tert-Butyl Alcohol (TBA)      | 96       | 94        | 34-154  | 2   | 0-19   |            |
| Diisopropyl Ether (DIPE)      | 94       | 94        | 80-122  | 0   | 0-8    |            |
| Ethyl-t-Butyl Ether (ETBE)    | 93       | 92        | 73-127  | 0   | 0-11   |            |
| Tert-Amyl-Methyl Ether (TAME) | 98       | 100       | 69-135  | 1   | 0-12   |            |
| Ethanol                       | 97       | 89        | 34-124  | 8   | 0-44   |            |

RPD - Relative Percent Difference , CL - Control Limit



**Quality Control - LCS/LCS Duplicate**

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

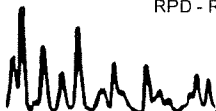
Date Received: N/A  
Work Order No: 08-03-0139  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: BP 11124

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 099-12-703-84             | Aqueous | GC/MS Z    | 03/11/08      | 03/11/08      | 080311L01             |

| Parameter                     | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|----------|-----------|---------|-----|--------|------------|
| Benzene                       | 89       | 88        | 87-117  | 2   | 0-7    |            |
| Carbon Tetrachloride          | 94       | 90        | 78-132  | 4   | 0-8    |            |
| Chlorobenzene                 | 92       | 90        | 88-118  | 2   | 0-8    |            |
| 1,2-Dibromoethane             | 93       | 91        | 80-120  | 2   | 0-20   |            |
| 1,2-Dichlorobenzene           | 93       | 90        | 88-118  | 4   | 0-8    |            |
| 1,1-Dichloroethene            | 87       | 84        | 71-131  | 4   | 0-14   |            |
| Ethylbenzene                  | 93       | 90        | 80-120  | 3   | 0-20   |            |
| Toluene                       | 90       | 89        | 85-127  | 1   | 0-7    |            |
| Trichloroethene               | 93       | 89        | 85-121  | 4   | 0-11   |            |
| Vinyl Chloride                | 99       | 98        | 64-136  | 1   | 0-10   |            |
| Methyl-t-Butyl Ether (MTBE)   | 88       | 89        | 67-133  | 0   | 0-16   |            |
| Tert-Butyl Alcohol (TBA)      | 111      | 118       | 34-154  | 6   | 0-19   |            |
| Diisopropyl Ether (DIPE)      | 88       | 87        | 80-122  | 1   | 0-8    |            |
| Ethyl-t-Butyl Ether (ETBE)    | 87       | 89        | 73-127  | 1   | 0-11   |            |
| Tert-Amyl-Methyl Ether (TAME) | 89       | 88        | 69-135  | 2   | 0-12   |            |
| Ethanol                       | 100      | 86        | 34-124  | 15  | 0-44   |            |

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 08-03-0139

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





### Chain of Custody Record

Project Name: BP 11124  
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > CA > Alameda > 11124  
 State or Lead Regulatory Agency: \_\_\_\_\_  
 Requested Due Date (mm/dd/yy): \_\_\_\_\_

0139

|                        |       |            |      |
|------------------------|-------|------------|------|
| On-site Time:          | 12:15 | Temp:      | 68   |
| Off-site Time:         | 14:40 | Temp:      | 68   |
| Sky Conditions:        | clear |            |      |
| Meteorological Events: | NA    |            |      |
| Wind Speed:            | 0     | Direction: | 0 NA |

|   |   |   |
|---|---|---|
| Lab Name: Calscience  | BP/AR Facility No.: 11124                         | Consultant/Contractor: Stratus Environmental, Inc.                    |
| Address: 7440 Lincoln Way<br>Garden Grove, CA 92841         | BP/AR Facility Address: 3315 High Street, Oakland | Address: 3330 Cameron Park Drive, Suite 550<br>Cameron Park, CA 95682 |
| Lab PM: Linda Scharpenberg                                  | California Global ID #: T06001001919              | Consultant/Contractor Project No.: E11124-04                          |
| Tele/Fax: 714-895-5494 714-895-7501(fax)                    | Enfos Project No.: G099D-0022                     | Consultant/Contractor PM: Jay Johnson                                 |
| BP/AR PM Contact: Paul Supple                               | Provision or RCOP (circle one) Provision          | Tele/Fax: (530) 676-6000 / (530) 676-6005                             |
| Address: 2010 Crow Canyon Place, Suite 150<br>San Ramon, CA | Phase/WBS: 04-Monitoring                          | Report Type & QC Level: Level 1 with EDF                              |
| Tele/Fax: 925-275-3506                                      | Sub Phase/Task: 03-Analytical                     | E-mail EDD To: shaves@stratusinc.net                                  |
|   | Cost Element: 01-Contractor labor                 | Invoice to: Atlantic Richfield Co.                                    |

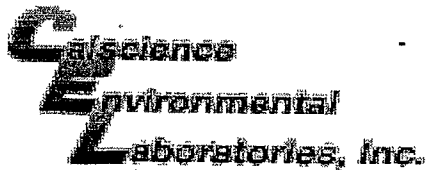
| Item No. | Sample Description    | Time  | Date    | Matrix     |              |     | Laboratory No. | No. of Containers | Preservative |                                |                  |     |          | Requested Analysis |         |     |                 |              |              | Sample Point Lat/Long and Comments<br>*Oxy = MTBD, TAME, ETBE, DIPE, TBA |  |  |  |      |
|----------|-----------------------|-------|---------|------------|--------------|-----|----------------|-------------------|--------------|--------------------------------|------------------|-----|----------|--------------------|---------|-----|-----------------|--------------|--------------|--|--|--|--|------|
|          |                       |       |         | Soil/Solid | Water/Liquid | Air |                |                   | Unpreserved  | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | Methanol | BTEX/Oxy* by 8260  | 1,2 DCA | EDB | Ethanol by 8260 | DRO by 8015M | GRO by 8015m |  |  |  |  |      |
| 1        | MW-1                  | 14:23 | 2/29/08 | X          |              |     |                | 8                 |              |                                |                  |     |          | X                  | X       | X   | X               | X            | X            |  |  |  |  |      |
| 2        | MW-2                  | 13:19 |         | X          |              |     |                | 8                 |              |                                |                  |     |          | X                  | X       | X   | X               | X            | X            |  |  |  |  |      |
| 3        | MW-4                  | 12:57 |         | X          |              |     |                | 8                 |              |                                |                  |     |          | X                  | X       | X   | X               | X            | X            |  |  |  |  |      |
| 4        | MW-5                  | 13:59 |         | X          |              |     |                | 8                 |              |                                |                  |     |          | X                  | X       | X   | X               | X            | X            |  |  |  |  |      |
| 5        | MW-6                  | 13:41 |         | X          |              |     |                | 8                 |              |                                |                  |     |          | X                  | X       | X   | X               | X            | X            |  |  |  |  |      |
| 6        | TB 11124 2/29/08-6:00 | 6:00  |         | X          |              |     |                | 3                 |              |                                |                  |     |          |                    |         |     |                 |              |              |  |  |  |  | HOLD |
| 7        |                       |       |         |            |              |     |                |                   |              |                                |                  |     |          |                    |         |     |                 |              |              |  |  |  |  |      |
| 8        |                       |       |         |            |              |     |                |                   |              |                                |                  |     |          |                    |         |     |                 |              |              |  |  |  |  |      |
| 9        |                       |       |         |            |              |     |                |                   |              |                                |                  |     |          |                    |         |     |                 |              |              |  |  |  |  |      |
| 10       |                       |       |         |            |              |     |                |                   |              |                                |                  |     |          |                    |         |     |                 |              |              |  |  |  |  |      |

|   |                               |      |      |                           |      |      |
|---|-------------------------------|------|------|---------------------------|------|------|
| Sampler's Name: <u>ROBERTO HEIMLICH</u> | Relinquished By / Affiliation | Date | Time | Accepted By / Affiliation | Date | Time |
| Sampler's Company: <u>DOULOS ENV.</u>   |                               |      |      |                           |      |      |
| Shipment Date: <u>690105748845</u>      |                               |      |      |                           |      |      |
| Shipment Method:                        |                               |      |      |                           |      |      |
| Shipment Tracking No:                   |                               |      |      |                           |      |      |

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

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





WORK ORDER #: 08 - 03 - 0139

Cooler 1 of 1

### SAMPLE RECEIPT FORM

CLIENT: Stratus

DATE: 3/4/08

**TEMPERATURE – SAMPLES RECEIVED BY:**

**CALSCIENCE COURIER:**

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

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

- 3.4 °C Temperature blank.
- °C IR thermometer.
- Ambient temperature.

Initial: JP

**CUSTODY SEAL INTACT:**

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

Initial: JP

**SAMPLE CONDITION:**

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

Initial: JP

**COMMENTS:**

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## ATTACHMENT

### FIELD PROCEDURES FOR GROUNDWATER SAMPLING

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

#### Equipment Calibration

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

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

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

#### Subjective Analysis of Groundwater

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

#### Monitoring Well Sampling

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

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

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

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

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

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

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

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

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

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

### **Equipment Cleaning**

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

**APPENDIX B**

**GEOTRACKER UPLOAD CONFIRMATIONS**

# Electronic Submittal Information

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## UPLOADING A GEO\_WELL FILE

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

|                             |                       |
|-----------------------------|-----------------------|
| <b>Submittal Title:</b>     | 1Q08 GEO_WELL 11124   |
| <b>Facility Global ID:</b>  | T0600100919           |
| <b>Facility Name:</b>       | BP #11124             |
| <b>Submittal Date/Time:</b> | 3/31/2008 11:36:21 AM |
| <b>Confirmation Number:</b> | <b>3309925913</b>     |

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(CONTRACTOR)

CONTACT SITE [ADMINISTRATOR](#).

# Electronic Submittal Information

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Your EDF file has been successfully uploaded!

**Confirmation Number:** 5746827065

**Date/Time of Submittal:** 3/31/2008 11:38:54 AM

**Facility Global ID:** T0600100919

**Facility Name:** BP #11124

**Submittal Title:** 1Q08 GW Monitoring

**Submittal Type:** GW Monitoring Report

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

|  |   |
|--|---|
| <b>BP #11124</b><br>3315 HIGH<br>OAKLAND, CA 94619 | <b>Regional Board - Case #: 01-0996</b><br>SAN FRANCISCO BAY RWQCB (REGION 2)<br><b>Local Agency (lead agency) - Case #: RO0000239</b><br>ALAMEDA COUNTY LOP - (PK) |
|--|---|

| <u>CONF #</u>                | <u>TITLE</u>       | <u>QUARTER</u> |
|------------------------------|--------------------|----------------|
| 5746827065                   | 1Q08 GW Monitoring | Q1 2008        |
| <u>SUBMITTED BY</u>          | <u>SUBMIT DATE</u> | <u>STATUS</u>  |
| Broadbent & Associates, Inc. | 3/31/2008          | PENDING REVIEW |

## **SAMPLE DETECTIONS REPORT**

|   |       |
|---|-------|
| # FIELD POINTS SAMPLED                                | 5     |
| # FIELD POINTS WITH DETECTIONS                        | 5     |
| # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL | 2     |
| SAMPLE MATRIX TYPES                                   | WATER |

## **METHOD QA/QC REPORT**

|                               |               |
|-------------------------------|---------------|
| METHODS USED                  | M8015,SW8260B |
| TESTED FOR REQUIRED ANALYTES? | Y             |
| LAB NOTE DATA QUALIFIERS      | Y             |

## **QA/QC FOR 8021/8260 SERIES SAMPLES**

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

## **WATER SAMPLES FOR 8021/8260 SERIES**

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

**SOIL SAMPLES FOR 8021/8260 SERIES**

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

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**FIELD QC SAMPLES**

| <u>SAMPLE</u> | <u>COLLECTED</u> | <u>DETECTIONS &gt; REPD</u> |
|---------------|------------------|-----------------------------|
| QCTB SAMPLES  | N                | 0                           |
| QCEB SAMPLES  | N                | 0                           |
| QCAB SAMPLES  | N                | 0                           |