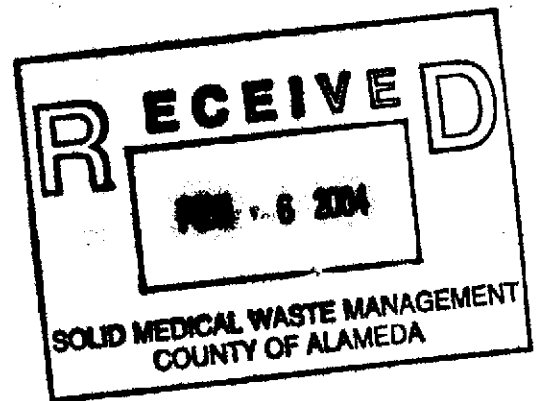


**TRC**  
Customer-Focused Solutions

R0409

January 23, 2004

ConocoPhillips Company  
76 Broadway  
Sacramento, CA 95818



ATTN: MR. THOMAS KOSEL  
  
SITE: 76 STATION 1156  
4276 MACARTHUR BOULEVARD  
OAKLAND, CALIFORNIA  
  
RE: QUARTERLY MONITORING REPORT  
OCTOBER THROUGH DECEMBER 2003

Dear Mr. Kosel:

Please find enclosed our Quarterly Monitoring Report for 76 Station 1156, located 4276 MacArthur Boulevard, Oakland, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC

A handwritten signature in cursive script that reads "Anju Farfan".

Anju Farfan  
QMS Operations Manager

CC: Ms. <sup>DH</sup> ~~Eva~~ Chu, Alameda County Health Care Services  
Mr. Bob Hale, Alameda County Public Works Agency  
Mr. Dave Vossler, Miller Brooks Environmental

Enclosures  
20-0400/1156R01.QMS



Customer-Focused Solutions

**FOURTH QUARTER 2003  
FLUID LEVEL MONITORING AND  
GROUNDWATER SAMPLING REPORT**

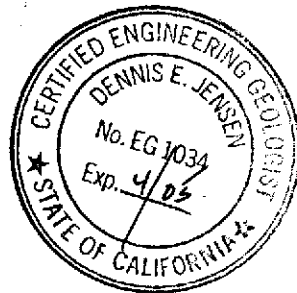
January 23, 2004

76 STATION 1156  
4276 MacArthur Boulevard  
Oakland, California

Prepared For:

Mr. Thomas Kosel  
CONOCOPHILLIPS COMPANY  
76 Broadway  
Sacramento, California 95818

By:



Senior Project Geologist, Irvine Operations

## GROUNDWATER MONITORING REPORT

| <b>LIST OF ATTACHMENTS</b>          |   |
|-------------------------------------|---|
| Summary Sheet                       | Summary of Gauging and Sampling Activities  |
| Tables                              | Table Key<br>Table 1: Summary of Groundwater Levels and Chemical Analysis Results<br>Table 2: Historic Groundwater Levels and Chemical Analysis Results<br>Table 3: Summary of Additional Chemical Analysis Results |
| Gettler-Ryan Inc. Historical Tables | Table 1: Groundwater Monitoring Data and Analytical Results<br>Table 2: Groundwater Analytical Results<br>Table 3: Groundwater Analytical Results   |
| Coordinated Event Data              | Well Concentrations (Shell-branded Service Station)   |
| Figures                             | Figure 1: Vicinity Map<br>Figure 2: Groundwater Elevation Contour Map<br>Figure 3: Dissolved-Phase Hydrocarbon Concentration Map  |
| Graphs                              | Benzene Concentrations vs. Time<br>Hydrographs  |
| Field Activities                    | General Field Procedures<br>Groundwater Sampling Field Notes  |
| Laboratory Reports                  | Official Laboratory Reports<br>Quality Control Reports<br>Chain of Custody Records  |
| Disposal Documents                  | Statement of Authorized Transportation and Disposal   |
| Statement                           | Limitations   |

**Summary of Gauging and Sampling Activities  
October 2003 through December 2003  
76 Station 1156  
4276 MacArthur  
Oakland, CA**

**Site Information:**

|                                   |   |
|-----------------------------------|---|
| Site:                             | 76 Station<br>4276 MacArthur<br>Oakland, CA |
| Project Coordinator/Phone Number: | Thomas Kosel/916-558-7666                   |
| Groundwater wells onsite:         | 7   |
| Groundwater wells offsite:        | 0   |

**Field Activity:**

|   |                     |
|---|---------------------|
| Sampling consultant:                                    | TRC                 |
| Date(s) sampled:  | 10/9/03             |
| Groundwater wells gauged:                               | 7                   |
| Groundwater wells sampled:                              | 7                   |
| Purging method:   | submersible pump    |
| Treatment/disposal method during sampling event:        | Onyx/Rodeo Unit 100 |
| Free product pumpouts other than sampling event:        | No                  |
| Treatment/Disposal method during free product pumpouts: | N/A                 |

**Site Hydrogeology:**

|   |                        |
|---|------------------------|
| Minimum depth to groundwater (feet bgs):                              | 2.71                   |
| Maximum depth to groundwater (feet bgs):                              | 9.39                   |
| Average groundwater elevation (feet relative to mean sea level):      | 167.50                 |
| Average change in groundwater elevations since previous event (feet): | N/A                    |
| Groundwater gradient and flow direction:                              | 0.004 ft/ft, southwest |

**Groundwater Condition (Benzene Maximum Contaminant Level [MCL] = 1.0 µg/l)**

|  |              |
|--|--------------|
| Wells with benzene concentrations below MCL:       | 4            |
| Wells with benzene concentrations at or above MCL: | 3            |
| Minimum benzene concentration (µg/l):              | ND           |
| Maximum benzene concentration (µg/l):              | 8100 (MW-1)  |
| Minimum MTBE concentration (µg/l):                 | ND           |
| Maximum MTBE concentration (µg/l):                 | 20000        |
| Minimum TPH-G concentration (µg/l):                | ND           |
| Maximum TPH-G concentration (µg/l):                | 91000 (MW-1) |
| Groundwater wells with free product:               | 0            |
| Minimum free product thickness (feet):             | 0            |
| Maximum free product thickness (feet):             | 0            |

**Additional Information:**

MW-1=Sampled for TPH-G by 8015M on 11/14/03., MW-2=Sampled for TPH-G by 8015M on 11/14/03., MW-3=Sampled for TPH-G by 8015M on 11/14/03., MW-4=Sampled for TPH-G by 8015M on 11/14/03., MW-5=Sampled for TPH-G by 8015M on 11/14/03., MW-6=Sampled for TPH-G by 8015M on 11/14/03., MW-7=Sampled for TPH-G by 8015M on 11/14/03.,

This report presents the results of groundwater monitoring and sampling activities performed by TRC. Please contact the primary consultant for other specific information on this site.

# TABLES

## TABLE KEY

### ABBREVIATIONS / SYMBOLS

|         |   |  |
|---------|---|--|
| LPH     | = | liquid-phase hydrocarbons                              |
| µg/l    | = | micrograms per liter                                   |
| mg/l    | = | milligrams per liter                                   |
| ND      | = | not detected at or above laboratory detection limit    |
| DTSC    | = | Department of Toxic Substances Control                 |
| N/A     | = | not applicable   |
| Trace   | = | less than 0.01 foot of LPH in well                     |
| USTs    | = | underground storage tanks                              |
| --      | = | not analyzed, measured, or collected                   |
| TPH-G   | = | total petroleum hydrocarbons with gasoline distinction |
| BTEX    | = | benzene, toluene, ethylbenzene, and total xylenes      |
| TPH-D   | = | total petroleum hydrocarbons with diesel distinction   |
| TRPH    | = | total recoverable petroleum hydrocarbons               |
| MTBE    | = | methyl tertiary butyl ether                            |
| TAME    | = | tertiary amyl methyl ether                             |
| ETBE    | = | ethyl tertiary butyl ether                             |
| DIPE    | = | di-isopropyl ether                                     |
| TBA     | = | tertiary butyl alcohol                                 |
| 1,1-DCA | = | 1,1-Dichloroethane                                     |
| 1,2-DCA | = | 1,2-Dichloroethane                                     |
| 1,1-DCE | = | 1,1-Dichloroethene                                     |
| 1,2-DCE | = | cis- and trans-1,2-Dichloroethene                      |
| PCE     | = | tetrachloroethene                                      |
| TCA     | = | trichloroethane  |
| TCE     | = | trichloroethene  |
| PCB     | = | polychlorinated biphenyls                              |
| TPPH    | = | total purgeable petroleum hydrocarbons                 |

### NOTES

Elevations are in feet above mean sea level.

Groundwater elevation for wells with LPH is calculated as follows:

$$\text{Surface elevation} - \text{depth to water} + (0.75 \times \text{LPH thickness}).$$

Concentration Graphs have been modified to plot non-detect results at the reporting limit stated in the official laboratory report. All non-detect results prior to the Second Quarter 2000 were plotted at 0.1 µg/l for graphical display.

J = estimated concentration, value is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL)

### REFERENCE

TRC began groundwater monitoring and sampling activities in October 2003. Historical data 76 Station 1156 was provided by Gettler-Ryan Inc., Dublin, California, in an excel table received in September 2003.

**Table 1**  
**SUMMARY OF GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS**  
**October 9, 2003**  
**76 Station 1156**

| Date Sampled | TOC Elevation (feet) | Depth to Water (feet)                      | LPH Thickness (feet) | Ground-water Elevation (feet) | Change in Elevation (feet) | TPH-G (µg/l) | TPPH 8260B (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl-benzene (µg/l) | Total Xylenes (µg/l) | MTBE 8021B (µg/l) | MTBE 8260B (µg/l) | Comments                                |
|--------------|----------------------|--|----------------------|-------------------------------|----------------------------|--------------|-------------------|----------------|----------------|----------------------|----------------------|-------------------|-------------------|---|
|              |                      | <b>(Screen Interval in feet: 5.0-25.0)</b> |                      |                               |                            |              |                   |                |                |                      |                      |                   |                   |   |
| MW-1         |                      |  |                      |                               |                            |              |                   |                |                |                      |                      |                   |                   |   |
| 10/9/03      | 177.54               | 7.85                                       | 0.00                 | 169.69                        | --                         | 91000        | 81000             | 8100           | 17000          | 3200                 | 14000                | --                | 660               | Sampled for TPH-G by 8015M on 11/14/03. |
|              |                      | <b>(Screen Interval in feet: 5.0-25.0)</b> |                      |                               |                            |              |                   |                |                |                      |                      |                   |                   |   |
| MW-2         |                      |  |                      |                               |                            |              |                   |                |                |                      |                      |                   |                   |   |
| 10/9/03      | 173.50               | 7.16                                       | 0.00                 | 166.34                        | --                         | 3500         | ND<5000           | ND<50          | ND<50          | ND<50                | ND<100               | --                | 8500              | Sampled for TPH-G by 8015M on 11/14/03. |
|              |                      | <b>(Screen Interval in feet: 5.0-25.0)</b> |                      |                               |                            |              |                   |                |                |                      |                      |                   |                   |   |
| MW-3         |                      |  |                      |                               |                            |              |                   |                |                |                      |                      |                   |                   |   |
| 10/9/03      | 178.13               | 9.39                                       | 0.00                 | 168.74                        | --                         | 3800         | 6000              | 120            | 260            | 390                  | 1200                 | --                | 190               | Sampled for TPH-G by 8015M on 11/14/03. |
|              |                      | <b>(Screen Interval in feet: 5.0-25.0)</b> |                      |                               |                            |              |                   |                |                |                      |                      |                   |                   |   |
| MW-4         |                      |  |                      |                               |                            |              |                   |                |                |                      |                      |                   |                   |   |
| 10/9/03      | 178.96               | 7.97                                       | 0.00                 | 170.99                        | --                         | 530          | 700               | 100            | 2.2            | 5.4                  | 14                   | --                | 270               | Sampled for TPH-G by 8015M on 11/14/03. |
|              |                      | <b>(Screen Interval in feet: DNA)</b>      |                      |                               |                            |              |                   |                |                |                      |                      |                   |                   |   |
| MW-5         |                      |  |                      |                               |                            |              |                   |                |                |                      |                      |                   |                   |   |
| 10/9/03      | 169.18               | 2.72                                       | 0.00                 | 166.46                        | --                         | 560          | 210               | ND<1.0         | ND<1.0         | ND<1.0               | ND<2.0               | --                | 290               | Sampled for TPH-G by 8015M on 11/14/03. |
|              |                      | <b>(Screen Interval in feet: DNA)</b>      |                      |                               |                            |              |                   |                |                |                      |                      |                   |                   |   |
| MW-6         |                      |  |                      |                               |                            |              |                   |                |                |                      |                      |                   |                   |   |
| 10/9/03      | 169.04               | 2.71                                       | 0.00                 | 166.33                        | --                         | ND<50        | ND<50             | 0.95           | 3.0            | 1.4                  | 5.5                  | --                | ND<2.0            | Sampled for TPH-G by 8015M on 11/14/03. |
|              |                      | <b>(Screen Interval in feet: DNA)</b>      |                      |                               |                            |              |                   |                |                |                      |                      |                   |                   |   |
| MW-7         |                      |  |                      |                               |                            |              |                   |                |                |                      |                      |                   |                   |   |
| 10/9/03      | 171.64               | 7.72                                       | 0.00                 | 163.92                        | --                         | 6800         | ND<13000          | ND<130         | ND<130         | ND<130               | ND<250               | --                | 20000             | Sampled for TPH-G by 8015M on 11/14/03. |

**Table 2**  
**HISTORIC GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS**

**October 9, 2003**

**76 Station 1156**

| Date Sampled                                    | TOC Elevation<br>(feet) | Depth to Water<br>(feet) | LPH Thickness<br>(feet) | Ground-water Elevation<br>(feet) | Change in Elevation<br>(feet) | TPH-G<br>(µg/l) | TPPH 8260B<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-benzene<br>(µg/l) | Total Xylenes<br>(µg/l) | MTBE 8021B<br>(µg/l) | MTBE 8260B<br>(µg/l) | Comments                                |
|---|-------------------------|--------------------------|-------------------------|----------------------------------|-------------------------------|-----------------|----------------------|-------------------|-------------------|-------------------------|-------------------------|----------------------|----------------------|---|
| <b>MW-1 (Screen Interval in feet: 5.0-25.0)</b> |                         |                          |                         |                                  |                               |                 |                      |                   |                   |                         |                         |                      |                      |   |
| 10/9/03   | 177.54                  | 7.85                     | 0.00                    | 169.69                           | --                            | 91000           | 81000                | 8100              | 17000             | 3200                    | 14000                   | --                   | 660                  | Sampled for TPH-G by 8015M on 11/14/03. |
| <b>MW-2 (Screen Interval in feet: 5.0-25.0)</b> |                         |                          |                         |                                  |                               |                 |                      |                   |                   |                         |                         |                      |                      |   |
| 10/9/03   | 173.50                  | 7.16                     | 0.00                    | 166.34                           | --                            | 3500            | ND<5000              | ND<50             | ND<50             | ND<50                   | ND<100                  | --                   | 8500                 | Sampled for TPH-G by 8015M on 11/14/03. |
| <b>MW-3 (Screen Interval in feet: 5.0-25.0)</b> |                         |                          |                         |                                  |                               |                 |                      |                   |                   |                         |                         |                      |                      |   |
| 10/9/03   | 178.13                  | 9.39                     | 0.00                    | 168.74                           | --                            | 3800            | 6000                 | 120               | 260               | 390                     | 1200                    | --                   | 190                  | Sampled for TPH-G by 8015M on 11/14/03. |
| <b>MW-4 (Screen Interval in feet: 5.0-25.0)</b> |                         |                          |                         |                                  |                               |                 |                      |                   |                   |                         |                         |                      |                      |   |
| 10/9/03   | 178.96                  | 7.97                     | 0.00                    | 170.99                           | --                            | 530             | 700                  | 100               | 2.2               | 5.4                     | 14                      | --                   | 270                  | Sampled for TPH-G by 8015M on 11/14/03. |
| <b>MW-5 (Screen Interval in feet: DNA)</b>      |                         |                          |                         |                                  |                               |                 |                      |                   |                   |                         |                         |                      |                      |   |
| 10/9/03   | 169.18                  | 2.72                     | 0.00                    | 166.46                           | --                            | 560             | 210                  | ND<1.0            | ND<1.0            | ND<1.0                  | ND<2.0                  | --                   | 290                  | Sampled for TPH-G by 8015M on 11/14/03. |
| <b>MW-6 (Screen Interval in feet: DNA)</b>      |                         |                          |                         |                                  |                               |                 |                      |                   |                   |                         |                         |                      |                      |   |
| 10/9/03   | 169.04                  | 2.71                     | 0.00                    | 166.33                           | --                            | ND<50           | ND<50                | 0.95              | 3.0               | 1.4                     | 5.5                     | --                   | ND<2.0               | Sampled for TPH-G by 8015M on 11/14/03. |
| <b>MW-7 (Screen Interval in feet: DNA)</b>      |                         |                          |                         |                                  |                               |                 |                      |                   |                   |                         |                         |                      |                      |   |
| 10/9/03   | 171.64                  | 7.72                     | 0.00                    | 163.92                           | --                            | 6800            | ND<13000             | ND<130            | ND<130            | ND<130                  | ND<250                  | --                   | 20000                | Sampled for TPH-G by 8015M on 11/14/03. |



**Table 3**  
**SUMMARY OF ADDITIONAL CHEMICAL ANALYSIS RESULTS**  
**76 Station 1156**

| Date<br>Sampled        | TPH-D  | EDC    | EDB    | TAME<br>8260B | TBA<br>8260B | DIPE<br>8260B | ETBE<br>8260B | Ethanol<br>8260B |
|------------------------|--------|--------|--------|---------------|--------------|---------------|---------------|------------------|
|                        | (µg/l) | (µg/l) | (µg/l) | (µg/l)        | (µg/l)       | (µg/l)        | (µg/l)        | (µg/l)           |
| <b>MW-1</b><br>10/9/03 | 4300   | ND<400 | ND<400 | ND<400        | ND<20000     | ND<400        | ND<400        | ND<100000        |
| <b>MW-2</b><br>10/9/03 | --     | ND<200 | ND<200 | ND<200        | ND<10000     | ND<200        | ND<200        | ND<50000         |
| <b>MW-3</b><br>10/9/03 | --     | ND<20  | ND<20  | ND<20         | ND<1000      | ND<20         | ND<20         | ND<5000          |
| <b>MW-4</b><br>10/9/03 | --     | ND<4.0 | ND<4.0 | ND<4.0        | ND<200       | ND<4.0        | ND<4.0        | ND<1000          |
| <b>MW-5</b><br>10/9/03 | --     | ND<4.0 | ND<4.0 | ND<4.0        | ND<200       | ND<4.0        | ND<4.0        | ND<1000          |
| <b>MW-6</b><br>10/9/03 | --     | ND<2.0 | ND<2.0 | ND<2.0        | ND<100       | ND<2.0        | ND<2.0        | ND<500           |
| <b>MW-7</b><br>10/9/03 | --     | ND<500 | ND<500 | ND<500        | ND<25000     | ND<500        | ND<500        | ND<130000        |

**GETTLER-RYAN INC.  
HISTORICAL TABLES**

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco 76 Service Station #1156  
 4276 MacArthur Boulevard  
 Oakland, California

| WELL ID/<br>TOC*(ft.) | DATE                  | DTW<br>(ft.) | S.I.<br>(ft. bgs) | GWE<br>(msl)  | Product            |                           |                           |                          |                           |                          |                           |  |
|-----------------------|-----------------------|--------------|-------------------|---------------|--------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|---------------------------|--|
|                       |                       |              |                   |               | Thickness<br>(ft.) | TPH-D<br>(ppb)            | TPH-G<br>(ppb)            | B<br>(ppb)               | T<br>(ppb)                | E<br>(ppb)               | X<br>(ppb)                | MTBE<br>(ppb)                          |
| <b>MW-1</b>           |                       |              |                   |               |                    |                           |                           |                          |                           |                          |                           |  |
| 174.86                | 07/20/99 <sup>5</sup> | 7.50         | 5.0-25.0          | 167.36        | --                 | 16,000 <sup>2</sup>       | 120,000                   | 11,000                   | 27,000                    | 3,300                    | 18,000                    | ND <sup>1</sup>                        |
|                       | 09/28/99              | 8.75         |                   | 166.11        | <0.01              | 2,410 <sup>2</sup>        | 6,020 <sup>6</sup>        | 1,030                    | 1,040                     | 68.5                     | 412                       | 321/333 <sup>3</sup>                   |
|                       | 01/07/00              | 9.05         |                   | 165.83**      | 0.02               | 7,870 <sup>2,4</sup>      | 72,700 <sup>6</sup>       | 7,410                    | 13,900                    | 2,070                    | 9,620                     | ND <sup>1</sup>                        |
|                       | 03/31/00              | 7.18         |                   | 167.68        | 0.00               | 3,600 <sup>2</sup>        | 92,000 <sup>6</sup>       | 10,000                   | 23,000                    | 3,200                    | 14,000                    | ND <sup>1</sup>                        |
|                       | 07/14/00              | 7.68         |                   | 167.18        | 0.00               | 8,580 <sup>2</sup>        | 108,000 <sup>6</sup>      | 8,250                    | 18,700                    | 3,750                    | 17,800                    | ND <sup>1</sup>                        |
|                       | 10/03/00              | 7.99         |                   | 166.87        | 0.00               | 9,260 <sup>2</sup>        | 96,000 <sup>6</sup>       | 8,760                    | 20,000                    | 3,350                    | 15,600                    | ND <sup>1</sup>                        |
|                       | 01/03/01              | 9.18         |                   | 165.68        | 0.00               | 11,000 <sup>8</sup>       | 37,000 <sup>6</sup>       | 5,800                    | 13,000                    | 1,700                    | 8,100                     | 2,200                                  |
|                       | 04/04/01              | 8.05         |                   | 166.81        | 0.00               | 14,000 <sup>8</sup>       | 86,900 <sup>6</sup>       | 7,780                    | 18,500                    | 2,470                    | 11,800                    | <sup>1</sup> ND/481 <sup>3</sup>       |
|                       | 07/17/01              | 7.01         |                   | 167.85        | 0.00               | 2,200 <sup>8</sup>        | 79,000 <sup>6</sup>       | 5,600                    | 11,000                    | 2,800                    | 12,000                    | <sup>1</sup> ND/230 <sup>3</sup>       |
| 177.54                | 10/03/01              | 7.89         |                   | 169.65        | 0.00               | --                        | 99,000 <sup>6</sup>       | 8,200                    | 18,000                    | 3,000                    | 16,000                    | <2,500                                 |
|                       | 10/05/01              | 7.91         |                   | 169.63        | 0.00               | 13,000 <sup>2</sup>       | --                        | --                       | --                        | --                       | --                        | --                                     |
|                       | 01/28/02              | 5.98         |                   | 171.56        | 0.00               | 4,400 <sup>11</sup>       | 110,000 <sup>12</sup>     | 8,900                    | 19,000                    | 2,600                    | 12,000                    | 3,000/440 <sup>3</sup>                 |
|                       | 04/25/02              | 6.19         |                   | 171.35        | 0.00               | 9,000 <sup>13</sup>       | 93,000                    | 8,100                    | 18,000                    | 3,000                    | 15,000                    | 810/670 <sup>3</sup>                   |
|                       | 07/18/02              | 6.99         |                   | 170.55        | 0.00               | 9,200 <sup>13</sup>       | 69,000                    | 5,400                    | 10,000                    | 2,100                    | 10,000                    | <500/620 <sup>3</sup>                  |
|                       | 10/07/02              | 7.73         |                   | 169.81        | 0.00               | 3,400                     | 82,000                    | 9,200                    | 20,000                    | 2,600                    | 13,000                    | 1,300/760 <sup>3</sup>                 |
|                       | 01/06/03              | 5.48         |                   | 172.06        | 0.00               | 5,100 <sup>13</sup>       | 82,000                    | 6,500                    | 18,000                    | 2,700                    | 11,000                    | <1,000/790 <sup>3,4</sup>              |
|                       | 04/07/03              | 6.30         |                   | 171.24        | 0.00               | 2,800 <sup>13</sup>       | 74,000                    | 7,000                    | 15,000                    | 2,400                    | 11,000                    | 1,000/800 <sup>3</sup>                 |
|                       | <b>07/07/03</b>       | <b>6.47</b>  |                   | <b>171.07</b> | <b>0.00</b>        | <b>7,000<sup>13</sup></b> | <b>60,000<sup>7</sup></b> | <b>6,400<sup>7</sup></b> | <b>11,000<sup>7</sup></b> | <b>2,600<sup>7</sup></b> | <b>11,000<sup>7</sup></b> | <b><sup>7</sup>600/530<sup>3</sup></b> |
| <b>MW-2</b>           |                       |              |                   |               |                    |                           |                           |                          |                           |                          |                           |  |
| 173.01                | 07/20/99              | 5.40         | 5.0-25.0          | 167.61        | --                 | --                        | ND <sup>1</sup>           | ND <sup>1</sup>          | ND <sup>1</sup>           | ND <sup>1</sup>          | ND <sup>1</sup>           | 4,500/11,000 <sup>3,4</sup>            |
|                       | 09/28/99              | 5.60         |                   | 167.41        | 0.00               | --                        | 1,390 <sup>6</sup>        | 124                      | ND <sup>1</sup>           | 62.9                     | 43.1                      | 5,280/6,150 <sup>3</sup>               |
|                       | 01/07/00              | 5.92         |                   | 167.09        | 0.00               | --                        | 1,450 <sup>6</sup>        | 99.0                     | ND <sup>1</sup>           | 23.8                     | 16.0                      | 33,100                                 |
|                       | 03/31/00              | 5.23         |                   | 167.78        | 0.00               | --                        | ND <sup>1</sup>           | 42                       | ND <sup>1</sup>           | ND <sup>1</sup>          | ND <sup>1</sup>           | 17,000                                 |
|                       | 07/14/00              | 5.52         |                   | 167.49        | 0.00               | --                        | ND <sup>1</sup>           | 44.7                     | ND <sup>1</sup>           | ND <sup>1</sup>          | ND <sup>1</sup>           | 66,500                                 |
|                       | 10/03/00              | 6.04         |                   | 166.97        | 0.00               | --                        | ND <sup>1</sup>           | 56.7                     | ND <sup>1</sup>           | ND <sup>1</sup>          | ND <sup>1</sup>           | 57,500                                 |
|                       | 01/03/01              | 6.42         |                   | 166.59        | 0.00               | --                        | ND <sup>1</sup>           | ND <sup>1</sup>          | ND <sup>1</sup>           | ND <sup>1</sup>          | ND <sup>1</sup>           | 49,000                                 |

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco 76 Service Station #1156  
 4276 MacArthur Boulevard  
 Oakland, California

| WELL ID/<br>TOC*(ft.) | DATE            | DTW<br>(ft.) | S.L.<br>(ft. bgs) | GWE<br>(msl)  | Product            |                |                               |                 |                 |                 |                 |                 |                                   |
|-----------------------|-----------------|--------------|-------------------|---------------|--------------------|----------------|-------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------------------|
|                       |                 |              |                   |               | Thickness<br>(ft.) | TPH-D<br>(ppb) | TPH-G<br>(ppb)                | B<br>(ppb)      | T<br>(ppb)      | E<br>(ppb)      | X<br>(ppb)      | MTBE<br>(ppb)   |                                   |
| MW-2                  | 04/04/01        | 6.14         | 5.0-25.0          | 166.87        | 0.00               | --             | ND <sup>1</sup>               | ND <sup>1</sup> | ND <sup>1</sup> | ND <sup>1</sup> | ND <sup>1</sup> | ND <sup>1</sup> | 38,700/37,800 <sup>3</sup>        |
| (cont)                | 07/17/01        | 5.30         |                   | 167.71        | 0.00               | --             | ND <sup>1</sup>               | ND <sup>1</sup> | ND <sup>1</sup> | ND <sup>1</sup> | ND <sup>1</sup> | ND <sup>1</sup> | 65,000/56,000 <sup>3</sup>        |
| 173.50                | 10/03/01        | 7.38         |                   | 166.12        | 0.00               | --             | <250                          | 2.7             | <2.5            | <2.5            | <2.5            | <2.5            | 14,000/18,000 <sup>3</sup>        |
|                       | 01/28/02        | 5.68         |                   | 167.82        | 0.00               | --             | <250                          | 2.5             | 4.4             | 2.8             | 7.4             | 7.4             | 11,000/10,000 <sup>3</sup>        |
|                       | 04/25/02        | 5.82         |                   | 167.68        | 0.00               | --             | <50                           | <0.50           | <0.50           | <0.50           | <0.50           | <0.50           | 8,400/8,100 <sup>3</sup>          |
|                       | 07/18/02        | 6.90         |                   | 166.60        | 0.00               | --             | <500                          | <5.0            | <5.0            | <5.0            | <5.0            | <5.0            | 4,300/8,800 <sup>3</sup>          |
|                       | 10/07/02        | 7.54         |                   | 165.96        | 0.00               | --             | 4,300                         | <10             | 27              | 21              | 75              | 75              | 7,100/5,900 <sup>3</sup>          |
|                       | 01/06/03        | 6.79         |                   | 166.71        | 0.00               | --             | 5,900                         | <5.0            | <5.0            | <5.0            | <5.0            | <5.0            | 31,000/35,000 <sup>3</sup>        |
|                       | 04/07/03        | 6.49         |                   | 167.01        | 0.00               | --             | 1,500                         | <10             | 14              | 11              | 38              | 38              | 2,000/1,500 <sup>3</sup>          |
|                       | <b>07/07/03</b> | <b>6.72</b>  |                   | <b>166.78</b> | <b>0.00</b>        | --             | <b>&lt;2,500<sup>15</sup></b> | <b>&lt;25</b>   | <b>&lt;25</b>   | <b>&lt;25</b>   | <b>&lt;25</b>   | <b>&lt;25</b>   | <b>5,500/8,300<sup>3,14</sup></b> |
| <b>MW-3</b>           |                 |              |                   |               |                    |                |                               |                 |                 |                 |                 |                 |                                   |
| 178.44                | 07/20/99        | 8.50         | 5.0-25.0          | 169.94        | --                 | --             | 1,000                         | 76              | 52              | 79              | 76              | 76              | 330                               |
|                       | 09/28/99        | 8.31         |                   | 170.13        | 0.00               | --             | 1,860 <sup>6</sup>            | 174             | 95.4            | 71.8            | 135             | 135             | 443/288 <sup>3</sup>              |
|                       | 01/07/00        | 8.56         |                   | 169.88        | 0.00               | --             | 28,400 <sup>6</sup>           | 2,450           | 3,090           | 1,560           | 3,910           | 3,910           | 1,940                             |
|                       | 03/31/00        | 8.42         |                   | 170.02        | 0.00               | --             | 26,000 <sup>6</sup>           | 1,300           | 2,900           | 2,600           | 3,500           | 3,500           | 2,800                             |
|                       | 07/14/00        | 8.61         |                   | 169.83        | 0.00               | --             | 24,500 <sup>6</sup>           | 1,850           | 2,630           | 2,750           | 3,900           | 3,900           | 548                               |
|                       | 10/03/00        | 9.14         |                   | 169.30        | 0.00               | --             | 22,000 <sup>6</sup>           | 1,910           | 2,020           | 2,400           | 2,680           | 2,680           | 965                               |
|                       | 01/03/01        | 9.06         |                   | 169.38        | 0.00               | --             | 14,000 <sup>6</sup>           | 1,600           | 1,100           | 2,300           | 1,400           | 1,400           | 3,300                             |
|                       | 04/04/01        | 8.98         |                   | 169.46        | 0.00               | --             | 19,600 <sup>6</sup>           | 1,150           | 1,470           | 2,100           | 1,820           | 1,820           | 1,050/450 <sup>3</sup>            |
|                       | 07/17/01        | 7.46         |                   | 170.98        | 0.00               | --             | 26,000 <sup>6</sup>           | 1,500           | 2,100           | 2,100           | 3,400           | 3,400           | <sup>1</sup> ND/350 <sup>3</sup>  |
| 178.13                | 10/03/01        | 9.81         |                   | 168.32        | 0.00               | --             | 22,000 <sup>6</sup>           | 830             | 1,900           | 1,700           | 3,000           | 3,000           | <1,000                            |
|                       | 01/28/02        | 7.39         |                   | 170.74        | 0.00               | --             | 30,000 <sup>12</sup>          | 880             | 2,600           | 1,800           | 4,300           | 4,300           | 3,200/210 <sup>3</sup>            |
|                       | 04/25/02        | 7.86         |                   | 170.27        | 0.00               | --             | 18,000                        | 500             | 2,000           | 1,300           | 3,800           | 3,800           | 500/260 <sup>3</sup>              |
|                       | 07/18/02        | 8.83         |                   | 169.30        | 0.00               | --             | 37,000                        | 1,800           | 3,800           | 2,200           | 8,000           | 8,000           | <250/270 <sup>3</sup>             |
|                       | 10/07/02        | 9.71         |                   | 168.42        | 0.00               | --             | 26,000                        | 600             | 2,000           | 1,800           | 6,400           | 6,400           | <120/<200 <sup>3</sup>            |

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco 76 Service Station #1156  
 4276 MacArthur Boulevard  
 Oakland, California

| WELL ID/<br>TOC* (L) | DATE                   | DTW<br>(ft.) | S.I.<br>(ft. bgs) | GWE<br>(msl)  | Product            |                |                      |              |              |              |              |                            |
|----------------------|------------------------|--------------|-------------------|---------------|--------------------|----------------|----------------------|--------------|--------------|--------------|--------------|----------------------------|
|                      |                        |              |                   |               | Thickness<br>(ft.) | TPH-D<br>(ppb) | TPH-G<br>(ppb)       | B<br>(ppb)   | T<br>(ppb)   | E<br>(ppb)   | X<br>(ppb)   | MTBE<br>(ppb)              |
| MW-3                 | 01/06/03               | 7.40         | 5.0-25.0          | 170.73        | 0.00               | --             | 27,000               | 800          | 2,100        | 2,000        | 6,400        | 440/110 <sup>3</sup>       |
| (cont)               | 04/07/03               | 8.17         |                   | 169.96        | 0.00               | --             | 28,000               | 660          | 2,200        | 1,900        | 6,300        | 440/100 <sup>3</sup>       |
|                      | <b>07/07/03</b>        | <b>8.35</b>  |                   | <b>169.78</b> | <b>0.00</b>        | <b>--</b>      | <b>33,000</b>        | <b>1,200</b> | <b>2,500</b> | <b>2,700</b> | <b>8,300</b> | <b>280/100<sup>3</sup></b> |
| <b>MW-4</b>          |                        |              |                   |               |                    |                |                      |              |              |              |              |                            |
| 179.10               | 07/20/99               | 7.40         | 5.0-25.0          | 171.70        | --                 | --             | 69                   | 2.7          | 0.77         | ND           | 7.1          | 100                        |
|                      | 09/28/99               | 7.19         |                   | 171.91        | 0.00               | --             | 4,050 <sup>6</sup>   | 1,250        | 72.0         | 51.3         | 133          | 416/459 <sup>3</sup>       |
|                      | 01/07/00               | 8.98         |                   | 170.12        | 0.00               | --             | 7,010 <sup>6</sup>   | 2,260        | 167          | 271          | 276          | 764                        |
|                      | 03/31/00               | 7.26         |                   | 171.84        | 0.00               | --             | 5,500 <sup>6</sup>   | 1,800        | 230          | 330          | 400          | 1,000                      |
|                      | 07/14/00               | 7.67         |                   | 171.43        | 0.00               | --             | 7,940 <sup>6</sup>   | 2,810        | 332          | 450          | 247          | 1,530                      |
|                      | 10/03/00               | 8.12         |                   | 170.98        | 0.00               | --             | 11,400 <sup>6</sup>  | 3,110        | 437          | 519          | 816          | 1,040                      |
|                      | 01/03/01 <sup>7</sup>  | 9.10         |                   | 170.00        | 0.00               | --             | 8,600 <sup>6</sup>   | 2,500        | 340          | 480          | 960          | 850                        |
|                      | 04/04/01               | 8.63         |                   | 170.47        | 0.00               | --             | 9,950 <sup>6</sup>   | 2,380        | 126          | 416          | 725          | 1,140/819 <sup>3</sup>     |
|                      | 07/17/01               | 6.49         |                   | 172.61        | 0.00               | --             | 10,000 <sup>6</sup>  | 2,300        | 110          | 410          | 800          | 1,200/900 <sup>3</sup>     |
| 178.96               | 10/03/01               | 7.01         |                   | 171.95        | 0.00               | --             | 7,800 <sup>6</sup>   | 2,100        | 85           | 380          | 390          | 580/820 <sup>3</sup>       |
|                      | 01/28/02               | 6.21         |                   | 172.75        | 0.00               | --             | 12,000 <sup>12</sup> | 2,100        | 130          | 350          | 670          | 1,100/500 <sup>3</sup>     |
|                      | 04/25/02               | 5.49         |                   | 173.47        | 0.00               | --             | 3,300                | 1,300        | 42           | 270          | 250          | 680/600 <sup>3</sup>       |
|                      | 07/18/02               | 8.28         |                   | 170.68        | 0.00               | --             | 4,800                | 1,300        | 71           | 290          | 220          | 530/760 <sup>3</sup>       |
|                      | 10/07/02               | 7.49         |                   | 171.47        | 0.00               | --             | 5,100                | 1,400        | 110          | 330          | 380          | 650/540 <sup>3</sup>       |
|                      | 01/06/03               | 6.36         |                   | 172.60        | 0.00               | --             | 5,600                | 1,100        | 57           | 260          | 320          | 370/520 <sup>3</sup>       |
|                      | 04/07/03               | 6.24         |                   | 172.72        | 0.00               | --             | 5,100                | 1,100        | 55           | 190          | 370          | 550/420 <sup>3</sup>       |
|                      | <b>07/07/03</b>        | <b>6.43</b>  |                   | <b>172.53</b> | <b>0.00</b>        | <b>--</b>      | <b>3,000</b>         | <b>920</b>   | <b>28</b>    | <b>170</b>   | <b>330</b>   | <b>480/450<sup>3</sup></b> |
| <b>MW-5</b>          |                        |              |                   |               |                    |                |                      |              |              |              |              |                            |
| 169.18               | 10/03/01 <sup>10</sup> | 2.81         | --                | 166.37        | 0.00               | --             | <50                  | <0.50        | <0.50        | <0.50        | <0.50        | 1,800/2,100 <sup>3</sup>   |
|                      | 01/28/02               | 1.88         |                   | 167.30        | 0.00               | --             | <50                  | <0.50        | <0.50        | <0.50        | <0.50        | 650/550 <sup>3</sup>       |
|                      | 04/25/02               | 1.99         |                   | 167.19        | 0.00               | --             | <50                  | <0.50        | <0.50        | <0.50        | <0.50        | 2,200/2,400 <sup>3</sup>   |

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco 76 Service Station #1156  
 4276 MacArthur Boulevard  
 Oakland, California

| WELL ID/<br>TOC* (fL) | DATE                   | DTW<br>(ft.) | S.L.<br>(ft. bgs) | GWE<br>(msl)  | Product            |                |                         |                 |                 |                 |                 |                        |                                    |
|-----------------------|------------------------|--------------|-------------------|---------------|--------------------|----------------|-------------------------|-----------------|-----------------|-----------------|-----------------|------------------------|------------------------------------|
|                       |                        |              |                   |               | Thickness<br>(ft.) | TPH-D<br>(ppb) | TPH-G<br>(ppb)          | B<br>(ppb)      | T<br>(ppb)      | E<br>(ppb)      | X<br>(ppb)      | MTBE<br>(ppb)          |                                    |
| MW-5                  | 07/18/02               | 2.49         | --                | 166.69        | 0.00               | --             | <50                     | <0.50           | <0.50           | <0.50           | <0.50           | <0.50                  | 530/690 <sup>3</sup>               |
| (cont)                | 10/07/02               | 2.80         |                   | 166.38        | 0.00               | --             | 140                     | <0.50           | <0.50           | <0.50           | <0.50           | <0.50                  | 300/330 <sup>3</sup>               |
|                       | 01/06/03               | 1.86         |                   | 167.32        | 0.00               | <50            | 120 <sup>13</sup>       | <0.50           | <0.50           | <0.50           | <0.50           | <0.50                  | 410/350 <sup>3</sup>               |
|                       | 04/07/03               | 2.15         |                   | 167.03        | 0.00               | --             | 220 <sup>14</sup>       | 0.53            | <0.50           | <0.50           | <0.50           | <0.50                  | 450/420 <sup>3</sup>               |
|                       | <b>07/07/03</b>        | <b>2.26</b>  |                   | <b>166.92</b> | <b>0.00</b>        | --             | <b>120<sup>16</sup></b> | <b>&lt;1.2</b>  | <b>&lt;1.2</b>  | <b>&lt;1.2</b>  | <b>&lt;1.2</b>  | <b>&lt;1.2</b>         | <b>220/200<sup>3</sup></b>         |
| <b>MW-6</b>           |                        |              |                   |               |                    |                |                         |                 |                 |                 |                 |                        |                                    |
| 169.04                | 10/03/01 <sup>10</sup> | 2.87         | --                | 166.17        | 0.00               | --             | <50                     | <0.50           | <0.50           | <0.50           | <0.50           | <0.50                  | 200/270 <sup>3</sup>               |
|                       | 01/28/02               | 1.82         |                   | 167.22        | 0.00               | --             | <50                     | <0.50           | <0.50           | <0.50           | <0.50           | <0.50                  | <2.5                               |
|                       | 04/25/02               | 2.01         |                   | 167.03        | 0.00               | --             | <50                     | <0.50           | <0.50           | <0.50           | <0.50           | <0.50                  | <2.5                               |
|                       | 07/18/02               | 2.44         |                   | 166.60        | 0.00               | --             | <50                     | <0.50           | <0.50           | <0.50           | <0.50           | <0.50                  | <2.5/<2.0 <sup>3</sup>             |
|                       | 10/07/02               | 2.72         |                   | 166.32        | 0.00               | --             | <50                     | <0.50           | <0.50           | <0.50           | <0.50           | <0.50                  | <2.5/<2.0 <sup>3</sup>             |
|                       | 01/06/03               | 1.90         |                   | 167.14        | 0.00               | --             | <50                     | 0.62            | 1.2             | 1.2             | 3.5             | <2.0/<2.0 <sup>3</sup> |                                    |
|                       | 04/07/03               | 2.02         |                   | 167.02        | 0.00               | --             | <50                     | <0.50           | <0.50           | <0.50           | <0.50           | <0.50                  | 46/46 <sup>3</sup>                 |
|                       | <b>07/07/03</b>        | <b>2.21</b>  |                   | <b>166.83</b> | <b>0.00</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>&lt;2.0/&lt;2.0<sup>3</sup></b> |
| <b>MW-7</b>           |                        |              |                   |               |                    |                |                         |                 |                 |                 |                 |                        |                                    |
| 171.64                | 10/03/01 <sup>10</sup> | 7.62         | --                | 164.02        | 0.00               | --             | 10,000 <sup>9</sup>     | 210             | <50             | <50             | 800             | <50                    | 35,000/40,000 <sup>3</sup>         |
|                       | 01/28/02               | 7.21         |                   | 164.43        | 0.00               | --             | <1,000                  | <10             | <10             | <10             | <10             | <10                    | 42,000/38,000 <sup>3</sup>         |
|                       | 04/25/02               | 7.25         |                   | 164.39        | 0.00               | --             | <5,000                  | 660             | <50             | <50             | <50             | <50                    | 42,000/45,000 <sup>3</sup>         |
|                       | 07/18/02               | 8.12         |                   | 163.52        | 0.00               | --             | <5,000                  | 130             | <50             | <50             | <50             | <50                    | 51,000/53,000 <sup>3</sup>         |
|                       | 10/07/02               | 7.71         |                   | 163.93        | 0.00               | --             | 18,000                  | <50             | <50             | <50             | <50             | <50                    | 33,000/38,000 <sup>3</sup>         |
|                       | 01/06/03               | 7.63         |                   | 164.01        | 0.00               | <50            | 410                     | 0.61            | 1.0             | 0.89            | 2.9             | <50                    | 3,900/3,100 <sup>3</sup>           |
|                       | 04/07/03               | 7.58         |                   | 164.06        | 0.00               | --             | 13,000 <sup>14</sup>    | <20             | <20             | <20             | <20             | <20                    | 32,000/28,000 <sup>3</sup>         |
|                       | <b>07/07/03</b>        | <b>7.56</b>  |                   | <b>164.08</b> | <b>0.00</b>        | --             | <b>990<sup>17</sup></b> | <b>8.2</b>      | <b>&lt;0.50</b> | <b>1.2</b>      | <b>&lt;0.50</b> | <b>&lt;0.50</b>        | <b>36,000/45,000<sup>3</sup></b>   |

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco 76 Service Station #1156  
 4276 MacArthur Boulevard  
 Oakland, California

| WELL ID/<br>TOC*(ft.) | DATE     | DTW<br>(ft.) | S.I.<br>(ft. bgs) | GWE<br>(msl) | Product            |                |                |            |            |            |            |               |
|-----------------------|----------|--------------|-------------------|--------------|--------------------|----------------|----------------|------------|------------|------------|------------|---------------|
|                       |          |              |                   |              | Thickness<br>(ft.) | TPH-D<br>(ppb) | TPH-G<br>(ppb) | B<br>(ppb) | T<br>(ppb) | E<br>(ppb) | X<br>(ppb) | MTBE<br>(ppb) |
| Trip Blank            |          |              |                   |              |                    |                |                |            |            |            |            |               |
| TB-LB                 | 07/20/99 | --           | --                | --           | --                 | --             | --             | --         | --         | --         | --         | --            |
|                       | 09/28/99 | --           | --                | --           | --                 | --             | ND             | ND         | ND         | ND         | ND         | ND            |
|                       | 01/07/00 | --           | --                | --           | --                 | --             | ND             | ND         | ND         | ND         | ND         | ND            |
|                       | 03/31/00 | --           | --                | --           | --                 | --             | ND             | ND         | ND         | ND         | ND         | ND            |
|                       | 07/14/00 | --           | --                | --           | --                 | --             | ND             | ND         | ND         | ND         | ND         | ND            |
|                       | 10/03/00 | --           | --                | --           | --                 | --             | ND             | ND         | ND         | ND         | ND         | ND            |
|                       | 01/03/01 | --           | --                | --           | --                 | --             | ND             | ND         | ND         | ND         | ND         | ND            |
|                       | 04/04/01 | --           | --                | --           | --                 | --             | ND             | ND         | ND         | ND         | ND         | ND            |
|                       | 07/17/01 | --           | --                | --           | --                 | --             | ND             | ND         | ND         | ND         | ND         | ND            |
|                       | 10/03/01 | --           | --                | --           | --                 | --             | <50            | <0.50      | <0.50      | <0.50      | <0.50      | <5.0          |
|                       | 10/05/01 | --           | --                | --           | --                 | --             | <50            | <0.50      | <0.50      | <0.50      | <0.50      | <5.0          |
|                       | 01/28/02 | --           | --                | --           | --                 | --             | <50            | <0.50      | <0.50      | <0.50      | <0.50      | <2.5          |
|                       | 04/25/02 | --           | --                | --           | --                 | --             | <50            | <0.50      | <0.50      | <0.50      | <0.50      | <2.5          |
|                       | 07/18/02 | --           | --                | --           | --                 | --             | <50            | <0.50      | <0.50      | <0.50      | <0.50      | <2.5          |
| QA                    | 10/07/02 | --           | --                | --           | --                 | --             | <50            | <0.50      | <0.50      | <0.50      | <0.50      | <2.5          |
|                       | 01/06/03 | --           | --                | --           | --                 | --             | <50            | <0.50      | <0.50      | <0.50      | <0.50      | <2.0          |
|                       | 04/07/03 | --           | --                | --           | --                 | --             | <50            | <0.50      | <0.50      | <0.50      | <0.50      | <2.0          |
|                       | 07/07/03 | --           | --                | --           | --                 | --             | <50            | <0.50      | <0.50      | <0.50      | <0.50      | <2.0          |

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco 76 Service Station #1156  
 4276 MacArthur Boulevard  
 Oakland, California

**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to September 28, 1999, were compiled from reports prepared by Environmental Resolutions, Inc.

|                                       |  |                                  |
|---------------------------------------|--|----------------------------------|
| TOC = Top of Casing                   | TPH-D = Total Petroleum Hydrocarbons as Diesel   | (ppb) = Parts per billion        |
| (ft.) = Feet                          | TPH-G = Total Petroleum Hydrocarbons as Gasoline | ND = Not Detected                |
| DTW = Depth to Water                  | B = Benzene                                      | -- = Not Measured/Not Analyzed   |
| S.I. = Screen Interval                | T = Toluene                                      | QA =Quality Assurance/Trip Blank |
| (ft. bgs) = Feet Below Ground Surface | E = Ethylbenzene                                 |                                  |
| GWE = Groundwater Elevation           | X = Xylenes                                      |                                  |
| (msl) = Mean sea level                | MTBE = Methyl tertiary butyl ether               |                                  |

\* TOC elevations were resurveyed in September 2001, by Morrow Surveying. TOC elevations are based on City of Oakland Benchmark No. 3967, (Elevation = 174.40 feet, msl).

\*\* GWE has been corrected due to the presence of free product; correction factor: [(TOC - DTW) + (Product Thickness x 0.77)].

- 1 Detection limit raised. Refer to analytical reports.
- 2 Laboratory report indicates unidentified hydrocarbons C9-C24.
- 3 MTBE by EPA Method 8260.
- 4 Laboratory report indicates sample was analyzed past EPA recommended holding time.
- 5 Total Recoverable Petroleum Oil was ND.
- 6 Laboratory report indicates gasoline C6-C12.
- 7 This sample was originally analyzed within holding time. Re-analysis for confirmation or dilution was performed past the recommended holding time.
- 8 Laboratory report indicates unidentified hydrocarbons <C16.
- 9 Laboratory report indicates weathered gasoline C6-C12.
- 10 Well development performed.
- 11 Laboratory report indicates unidentified hydrocarbons C10-C28.
- 12 Laboratory report indicates gasoline C6-C10.
- 13 Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but it does not resemble the pattern of the requested fuel.
- 14 Laboratory report indicates discrete peak @ MTBE.
- 15 Laboratory report indicates discrete peak @ MTBE @ 3.9 minutes at 110.0619 ppb.
- 16 Laboratory report indicates discrete peak @ MTBE @ 3.9 minutes at 88.5931 ppb.
- 17 Laboratory report indicates most purgeable hydrocarbons area from MTBE.



**Table 2**  
**Groundwater Analytical Results**  
 Tosco 76 Service Station #1156  
 4276 MacArthur Boulevard  
 Oakland, California

| WELL ID         | DATE                  | ETHANOL<br>(ppb)  | TBA<br>(ppb)              | MTBE<br>(ppb)       | DIPE<br>(ppb)   | ETBE<br>(ppb)   | TAME<br>(ppb)   | 1,2-DCA<br>(ppb) | EDB<br>(ppb)    | HVOCs<br>(ppb)    | SVOCs<br>(ppb)   |
|-----------------|-----------------------|-------------------|---------------------------|---------------------|-----------------|-----------------|-----------------|------------------|-----------------|-------------------|------------------|
| MW-1            | 07/20/99              | --                | --                        | 11,000 <sup>3</sup> | --              | --              | --              | --               | --              | ND <sup>1</sup>   | ND <sup>2</sup>  |
|                 | 09/28/99              | --                | ND <sup>6</sup>           | 333                 | ND <sup>6</sup> | ND <sup>6</sup> | ND <sup>6</sup> | --               | --              | ND <sup>4</sup>   | ND <sup>5</sup>  |
|                 | 01/07/00              | --                | --                        | --                  | --              | --              | --              | --               | --              | ND <sup>7,8</sup> | ND <sup>9</sup>  |
|                 | 03/31/00              | --                | --                        | --                  | --              | --              | --              | --               | --              | -- <sup>11</sup>  | ND <sup>10</sup> |
|                 | 07/14/00              | --                | --                        | --                  | --              | --              | --              | --               | --              | ND <sup>12</sup>  | ND <sup>13</sup> |
|                 | 10/03/00              | --                | --                        | --                  | --              | --              | --              | --               | --              | ND <sup>15</sup>  | ND <sup>14</sup> |
|                 | 01/03/01              | --                | --                        | --                  | --              | --              | --              | --               | --              | ND <sup>15</sup>  | ND <sup>16</sup> |
|                 | 04/04/01              | ND <sup>6</sup>   | ND <sup>6</sup>           | 481                 | ND <sup>6</sup> | ND <sup>6</sup> | ND <sup>6</sup> | ND <sup>6</sup>  | ND <sup>6</sup> | ND <sup>17</sup>  | ND <sup>18</sup> |
|                 | 07/17/01              | ND <sup>6</sup>   | ND <sup>6</sup>           | 230                 | ND <sup>6</sup> | ND <sup>6</sup> | ND <sup>6</sup> | ND <sup>6</sup>  | ND <sup>6</sup> | ND <sup>20</sup>  | ND <sup>19</sup> |
|                 | 01/28/02              | --                | --                        | 440                 | --              | --              | --              | --               | --              | --                | --               |
|                 | 04/25/02              | --                | --                        | 670                 | --              | --              | --              | --               | --              | --                | --               |
|                 | 07/18/02              | <2,500            | <100                      | 620                 | <10             | <10             | <10             | <10              | <10             | <10               | --               |
|                 | 10/07/02              | <50,000           | <10,000                   | 760                 | <200            | <200            | <200            | <200             | <200            | <200              | --               |
|                 | 01/06/03 <sup>3</sup> | <100,000          | <20,000                   | 790                 | <400            | <400            | <400            | <400             | <400            | <400              | --               |
|                 | 04/07/03              | <50,000           | <10,000                   | 800                 | <200            | <200            | <200            | <200             | <200            | <200              | --               |
| <b>07/07/03</b> | <b>&lt;120,000</b>    | <b>&lt;25,000</b> | <b>530</b>                | <b>&lt;500</b>      | <b>&lt;500</b>  | <b>&lt;500</b>  | <b>&lt;500</b>  | <b>&lt;500</b>   | <b>&lt;500</b>  | --                |                  |
| MW-2            | 09/28/99              | --                | ND <sup>6</sup>           | 6,150               | ND <sup>6</sup> | ND <sup>6</sup> | ND <sup>6</sup> | --               | --              | --                | --               |
|                 | 04/04/01              | ND <sup>6</sup>   | ND <sup>6</sup>           | 37,800              | ND <sup>6</sup> | ND <sup>6</sup> | ND <sup>6</sup> | ND <sup>6</sup>  | ND <sup>6</sup> | --                | --               |
|                 | 07/17/01              | ND <sup>6</sup>   | ND <sup>6</sup>           | 56,000              | ND <sup>6</sup> | ND <sup>6</sup> | ND <sup>6</sup> | ND <sup>6</sup>  | ND <sup>6</sup> | --                | --               |
|                 | 10/03/01              | --                | --                        | 18,000              | --              | --              | --              | --               | --              | --                | --               |
|                 | 01/28/02              | --                | --                        | 10,000              | --              | --              | --              | --               | --              | --                | --               |
|                 | 04/25/02              | --                | --                        | 8,100               | --              | --              | --              | --               | --              | --                | --               |
|                 | 07/18/02              | <25,000           | <1,000                    | 8,800               | <100            | <100            | <100            | <100             | <100            | <100              | --               |
|                 | 10/07/02              | <100,000          | <20,000                   | 5,900               | <400            | <400            | <400            | <400             | <400            | <400              | --               |
|                 | 01/06/03              | <250,000          | <50,000                   | 35,000              | <1,000          | <1,000          | <1,000          | <1,000           | <1,000          | <1,000            | --               |
|                 | 04/07/03              | <10,000           | <2,000                    | 1,500               | <40             | <40             | <40             | <40              | <40             | <40               | --               |
| <b>07/07/03</b> | <b>&lt;25,000</b>     | <b>&lt;5,000</b>  | <b>8,300<sup>21</sup></b> | <b>&lt;100</b>      | <b>&lt;100</b>  | <b>&lt;100</b>  | <b>&lt;100</b>  | <b>&lt;100</b>   | <b>&lt;100</b>  | --                |                  |

**Table 2**  
**Groundwater Analytical Results**  
 Tosco 76 Service Station #1156  
 4276 MacArthur Boulevard  
 Oakland, California

| WELL ID | DATE            | ETHANOL<br>(ppb)  | TBA<br>(ppb)     | MTBE<br>(ppb) | DIPE<br>(ppb)   | ETBE<br>(ppb)   | TAME<br>(ppb)   | 1,2-DCA<br>(ppb) | EDB<br>(ppb)    | HVOCs<br>(ppb) | SVOCs<br>(ppb) |
|---------|-----------------|-------------------|------------------|---------------|-----------------|-----------------|-----------------|------------------|-----------------|----------------|----------------|
| MW-3    | 09/28/99        | --                | ND <sup>6</sup>  | 288           | ND <sup>6</sup> | ND <sup>6</sup> | 8.80            | --               | --              | --             | --             |
|         | 04/04/01        | ND <sup>6</sup>   | ND <sup>6</sup>  | 450           | ND <sup>6</sup> | ND <sup>6</sup> | ND <sup>6</sup> | ND <sup>6</sup>  | ND <sup>6</sup> | --             | --             |
|         | 07/17/01        | ND <sup>6</sup>   | ND <sup>6</sup>  | 350           | ND <sup>6</sup> | ND <sup>6</sup> | ND <sup>6</sup> | ND <sup>6</sup>  | ND <sup>6</sup> | --             | --             |
|         | 01/28/02        | --                | --               | 210           | --              | --              | --              | --               | --              | --             | --             |
|         | 04/25/02        | --                | --               | 260           | --              | --              | --              | --               | --              | --             | --             |
|         | 07/18/02        | <1,200            | <50              | 270           | <5.0            | <5.0            | <5.0            | <5.0             | <5.0            | --             | --             |
|         | 10/07/02        | <50,000           | <10,000          | <200          | <200            | <200            | <200            | <200             | <200            | --             | --             |
|         | 01/06/03        | 23,000            | <4,000           | 110           | <80             | <80             | <80             | <80              | <80             | --             | --             |
|         | 04/07/03        | <20,000           | <4,000           | 100           | <80             | <80             | <80             | <80              | <80             | --             | --             |
|         | <b>07/07/03</b> | <b>&lt;10,000</b> | <b>&lt;2,000</b> | <b>100</b>    | <b>&lt;40</b>   | <b>&lt;40</b>   | <b>&lt;40</b>   | <b>&lt;40</b>    | <b>&lt;40</b>   | <b>&lt;40</b>  | --             |
| MW-4    | 09/28/99        | --                | ND <sup>6</sup>  | 459           | ND <sup>6</sup> | ND <sup>6</sup> | ND <sup>6</sup> | --               | --              | --             | --             |
|         | 04/04/01        | ND <sup>6</sup>   | ND <sup>6</sup>  | 819           | ND <sup>6</sup> | ND <sup>6</sup> | ND <sup>6</sup> | ND <sup>6</sup>  | ND <sup>6</sup> | --             | --             |
|         | 07/17/01        | ND <sup>6</sup>   | ND <sup>6</sup>  | 900           | ND <sup>6</sup> | ND <sup>6</sup> | ND <sup>6</sup> | ND <sup>6</sup>  | ND <sup>6</sup> | --             | --             |
|         | 10/03/01        | --                | --               | 820           | --              | --              | --              | --               | --              | --             | --             |
|         | 01/28/02        | --                | --               | 500           | --              | --              | --              | --               | --              | --             | --             |
|         | 04/25/02        | --                | --               | 600           | --              | --              | --              | --               | --              | --             | --             |
|         | 07/18/02        | <2,500            | <100             | 760           | <10             | <10             | <10             | 49               | <10             | --             | --             |
|         | 10/07/02        | <50,000           | <10,000          | 540           | <200            | <200            | <200            | <200             | <200            | --             | --             |
|         | 01/06/03        | <5,000            | <1,000           | 520           | <20             | <20             | <20             | <20              | <20             | --             | --             |
|         | 04/07/03        | <5,000            | <1,000           | 420           | <20             | <20             | <20             | <20              | <20             | --             | --             |
|         | <b>07/07/03</b> | <b>&lt;5,000</b>  | <b>&lt;1,000</b> | <b>450</b>    | <b>&lt;20</b>   | <b>&lt;20</b>   | <b>&lt;20</b>   | <b>&lt;20</b>    | <b>&lt;20</b>   | --             | --             |
| MW-5    | 10/03/01        | --                | --               | 2,100         | --              | --              | --              | --               | --              | --             | --             |
|         | 01/28/02        | --                | --               | 550           | --              | --              | --              | --               | --              | --             | --             |
|         | 04/25/02        | --                | --               | 2,400         | --              | --              | --              | --               | --              | --             | --             |
|         | 07/18/02        | <500              | <20              | 690           | <2.0            | <2.0            | <2.0            | <2.0             | <2.0            | --             | --             |
|         | 10/07/02        | <500              | <100             | 330           | <2.0            | <2.0            | <2.0            | <2.0             | <2.0            | --             | --             |

**Table 2**  
**Groundwater Analytical Results**  
 Tosco 76 Service Station #1156  
 4276 MacArthur Boulevard  
 Oakland, California

| WELL ID | DATE     | ETHANOL<br>(ppb) | TBA<br>(ppb) | MTBE<br>(ppb) | DIPE<br>(ppb) | ETBE<br>(ppb) | TAME<br>(ppb) | 1,2-DCA<br>(ppb) | EDB<br>(ppb) | HVOCs<br>(ppb) | SVOCs<br>(ppb) |
|---------|----------|------------------|--------------|---------------|---------------|---------------|---------------|------------------|--------------|----------------|----------------|
| MW-5    | 01/06/03 | <500             | <100         | 350           | <2.0          | <2.0          | <2.0          | <2.0             | <2.0         | --             | --             |
| (cont)  | 04/07/03 | <2,500           | <500         | 420           | <10           | <10           | <10           | <10              | <10          | --             | --             |
|         | 07/07/03 | <1,000           | <200         | 200           | <4.0          | <4.0          | <4.0          | <4.0             | <4.0         | --             | --             |
| MW-6    | 10/03/01 | --               | --           | 270           | --            | --            | --            | --               | --           | --             | --             |
|         | 07/18/02 | <500             | <20          | <2.0          | <2.0          | <2.0          | <2.0          | <2.0             | <2.0         | --             | --             |
|         | 10/07/02 | <500             | <100         | <2.0          | <2.0          | <2.0          | <2.0          | <2.0             | <2.0         | --             | --             |
|         | 01/06/03 | <500             | <100         | <2.0          | <2.0          | <2.0          | <2.0          | <2.0             | <2.0         | --             | --             |
|         | 04/07/03 | <500             | <100         | 46            | <2.0          | <2.0          | <2.0          | <2.0             | <2.0         | --             | --             |
|         | 07/07/03 | <500             | <100         | <2.0          | <2.0          | <2.0          | <2.0          | <2.0             | <2.0         | --             | --             |
| MW-7    | 10/03/01 | --               | --           | 40,000        | --            | --            | --            | --               | --           | --             | --             |
|         | 01/28/02 | --               | --           | 38,000        | --            | --            | --            | --               | --           | --             | --             |
|         | 04/25/02 | --               | --           | 45,000        | --            | --            | --            | --               | --           | --             | --             |
|         | 07/18/02 | <5,000           | 33,000       | 53,000        | <20           | <20           | <20           | <20              | <20          | --             | --             |
|         | 10/07/02 | <100,000         | 26,000       | 38,000        | <400          | <400          | <400          | <400             | <400         | --             | --             |
|         | 01/06/03 | <50,000          | <10,000      | 3,100         | <200          | <200          | <200          | <200             | <200         | --             | --             |
|         | 04/07/03 | <200,000         | <40,000      | 28,000        | <800          | <800          | <800          | <800             | <800         | --             | --             |
|         | 07/07/03 | <100,000         | 27,000       | 45,000        | <400          | <400          | <400          | <400             | <400         | --             | --             |

**Table 2**  
**Groundwater Analytical Results**  
 Tosco 76 Service Station #1156  
 4276 MacArthur Boulevard  
 Oakland, California

**EXPLANATIONS:**

Groundwater laboratory analytical results prior to September 28, 1999, were compiled from reports prepared by Environmental Resolutions, Inc.

|                                    |  |                           |
|------------------------------------|--|---------------------------|
| TBA = Tertiary butyl alcohol       | TAME = Tertiary amyl methyl ether              | (ppb) = Parts per billion |
| MTBE = Methyl tertiary butyl ether | EDB = 1,2-Dibromoethane                        | ND = Not Detected         |
| DIPE = Di-isopropyl ether          | HVOCs = Halogenated Volatile Organic Compounds | -- = Not Analyzed         |
| ETBE = Ethyl tertiary butyl ether  | SVOCs = Semi-Volatile Organic Compounds        |                           |

- <sup>1</sup> All HVOCs were ND except for Chlorobenzene at 12 ppb; 1,2-Dichlorobenzene (1,2-DCB) at 3.9 ppb; 1,1-Dichloroethane (1,1-DCA) at 2.0 ppb; 1,2-Dichloroethane (1,2-DCA) at 20 ppb; cis-1,2-Dichloroethene (cis-1,2-DCE) at 3.6 ppb and 1,2-Dichloropropane (1,2-DCP) at 0.92 ppb.
- <sup>2</sup> All SVOCs were ND except for Benzyl alcohol at 37 ppb; 2,4-Dimethylphenol at 140 ppb; 2-Methylnaphthalene at 240 ppb; 4-Methylphenol at 27 ppb and Naphthalene at 600 ppb.
- <sup>3</sup> Laboratory report indicates sample was analyzed past EPA recommended holding time.
- <sup>4</sup> All HVOCs were ND except for Benzene at 6,130 ppb; Ethylbenzene at 1,590 ppb; Naphthalene at 534 ppb; Toluene at 11,900 ppb; 1,2,4-Trimethylbenzene at 1,240 ppb; 1,3,5-Trimethylbenzene at 318 ppb and Total Xylenes at 7,360 ppb.
- <sup>5</sup> All SVOCs were ND (with a raised detection limit) except for 2,4-Dimethylphenol at 13.6 ppb; 2-Methylnaphthalene at 87.4 ppb; 2-Methylphenol at 26.4; 4-Methylphenol at 35.6 and Naphthalene at 292 ppb.
- <sup>6</sup> Detection limit raised. Refer to analytical reports.
- <sup>7</sup> All HVOCs were ND (with a raised detection limit) except for Benzene at 8,380 ppb; Ethylbenzene at 2,380 ppb; Naphthalene at 1,050 ppb; n-Propylbenzene at 371 ppb; Toluene at 17,600 ppb; 1,2,4-Trimethylbenzene at 2,210 ppb; 1,3,5-Trimethylbenzene at 597 ppb and Total Xylenes at 10,800 ppb.
- <sup>8</sup> EPA Method 8260 for HVOCs.
- <sup>9</sup> All SVOCs were ND (with a raised detection limit) except for 2-Methylnaphthalene at 315 ppb and Naphthalene at 615 ppb.
- <sup>10</sup> All SVOCs were ND except for Bis(2-ethylhexyl)phthalate at 10 ppb; 1,2-DCB at 6.2 ppb; 2-Methylnaphthalene at 73 ppb; 2-Methylphenol at 31 ppb; 4-Methylphenol at 18 ppb and Naphthalene at 140 ppb. Laboratory report indicates all SVOCs were analyzed outside the EPA recommended holding time.
- <sup>11</sup> Laboratory did not analyze for HVOCs.
- <sup>12</sup> All HVOCs were ND (with a raised detection limit) except for Tetrachloroethene at 334 ppb.
- <sup>13</sup> All SVOCs were ND (with a raised detection limit) except for 2-Methylnaphthalene at 300 ppb and Naphthalene at 690 ppb.
- <sup>14</sup> All SVOCs were ND (with a raised detection limit) except for Benzoic acid at 362 ppb; Bis(2-ethylhexyl)phthalate at 51.6 ppb; 2-Methylnaphthalene at 98.1 ppb; 4-Methylphenol at 28.9 ppb and Naphthalene at 361 ppb.
- <sup>15</sup> All HVOCs were ND (with a raised detection limit).
- <sup>16</sup> All SVOCs were ND (with a raised detection limit) except for 2-Methylnaphthalene at 180 ppb and Naphthalene at 400 ppb.
- <sup>17</sup> All HVOCs were ND except for cis-1,2-DCA at 3.4 ppb; 1,2-DCA at 5.7 ppb; Chlorobenzene at 5.6 ppb and 1,2-DCB at 4.6 ppb.
- <sup>18</sup> All SVOCs were ND except for Benzoic acid at 28 ppb; Bis(2-ethylhexyl)phthalate at 55 ppb; 2-Methylnaphthalene at 78 ppb and Naphthalene at 490 ppb.

**Table 2**  
**Groundwater Analytical Results**  
Tosco 76 Service Station #1156  
4276 MacArthur Boulevard  
Oakland, California

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**EXPLANATIONS:** (cont)

- <sup>19</sup> All SVOCs were ND except for Bis(2-ethylhexyl)phthalate at 400 ppb; 1,2-DCB at 18 ppb; 2,4-Dimethylphenol at 16 ppb; 2-Methylnaphthalene at 290 ppb; 2-Methylphenol at 47 ppb; 4-Methylphenol at 25 ppb; Naphthalene at 740 ppb and N-Nitrosodimethylamine at 7.7 ppb.
- <sup>20</sup> Volatile Organic Compounds (VOCs) by EPA Method 8021B were ND with a raised detection limit.
- <sup>21</sup> Laboratory report indicates discrete peak @ MTBE.

**ANALYTICAL METHODS:**

EPA Method 8260 for Oxygenate Compounds

EPA Method 8010 for HVOCs

EPA Method 8270 for SVOCs

**Table 3**  
**Groundwater Analytical Results**  
 Tosco 76 Service Station #1156  
 4276 MacArthur Boulevard  
 Oakland, California

| WELL ID | DATE     | cis-1,2-DCE<br>(ppb) | 1,2-DCA<br>(ppb) | PCE<br>(ppb) | Chloro-<br>benzene<br>(ppb) | HVOCs<br>(ppb)         | Bis(2-<br>ethylhexyl)ph<br>thalate<br>(ppb) | 2-Methyl-naph-<br>thalene<br>(ppb) | 2-Methyl-<br>phenol<br>(ppb) | 4-Methyl-<br>phenol<br>(ppb) | Naphthalene<br>(ppb) | SVOCs<br>(ppb)         |
|---------|----------|----------------------|------------------|--------------|-----------------------------|------------------------|---|------------------------------------|------------------------------|------------------------------|----------------------|------------------------|
| MW-1    | 07/18/02 | 1.3                  | <1.6             | <0.60        | 5.9                         | <0.50-<10 <sup>1</sup> | 120   | 420                                | 13                           | 25                           | 910                  | <5.0-<20 <sup>2</sup>  |
|         | 07/07/03 | <120                 | <120             | <120         | <120                        | <120-<1,200            | 70  | 260                                | <5.0                         | 22                           | 850                  | <5.0-<100 <sup>3</sup> |
| MW-5    | 01/06/03 | <0.50                | 1.4              | <0.50        | <0.50                       | <0.50-<5.0             | <5.0  | <5.0                               | <5.0                         | <5.0                         | <10                  | <5.0-<20               |
| MW-7    | 01/06/03 | <50                  | <50              | <50          | <50                         | <50-<500               | <5.0  | <5.0                               | <5.0                         | <5.0                         | <10                  | <5.0-<20               |

**Table 3**  
**Groundwater Analytical Results**  
Tosco 76 Service Station #1156  
4276 MacArthur Boulevard  
Oakland, California

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**EXPLANATIONS:**

Groundwater laboratory analytical results prior to September 28, 1999, were compiled from reports prepared by Environmental Resolutions, Inc. Historical Halogenated and Semi-Volatile Organic Compound data are presented in Table 2.

cis-1,2-DCE = cis-1,2-Dichloroethene

1,2-DCA = 1,2-Dichloroethane

PCE = Tetrachloroethene

HVOCs = Halogenated Volatile Organic Compounds

SVOCs = Semi-Volatile Organic Compounds

(ppb) = Parts per billion

<sup>1</sup> Chloroethane was detected at 1.1 ppb, 1,4-Dichlorobenzene was detected at 1.3 ppb and 1,2-Dichlorobenzene was detected at 5.8 ppb.

<sup>2</sup> Phenol was detected at 32 ppb.

<sup>3</sup> 2,4-Dimethylphenol was detected at 8.5 ppb.

**NOTE:**

All other HVOCs/SVOCs were less than the reporting limit unless noted above.

**ANALYTICAL METHODS:**

EPA Method 8010/8021 for HVOCs

EPA Method 8270 for SVOCs

# COORDINATED EVENT DATA



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4255 MacArthur Boulevard**  
**Oakland, CA**

| Well ID  | Date       | TPPH<br>(ug/L) | B<br>(ug/L) | T<br>(ug/L) | E<br>(ug/L) | X<br>(ug/L) | MTBE<br>8020<br>(ug/L) | MTBE<br>8260<br>(ug/L) | TOC<br>(MSL) | Depth to<br>Water<br>(ft.) | Depth to<br>SPH<br>(ft.) | GW<br>Elevation<br>(MSL) | SPH<br>Thickness<br>(ft.) | DO<br>Reading<br>(ppm) | ORP<br>Reading<br>(mV) |
|----------|------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|--------------------------|---------------------------|------------------------|------------------------|
| MW-1     | 11/17/1993 | 410            | 21          | 11          | 7.9         | 47          | NA                     | NA                     | 175.79       | 8.59                       | NA                       | 167.20                   | NA                        | NA                     | NA                     |
| MW-1     | 01/20/1994 | 1,200          | 180         | 19          | 48          | 47          | NA                     | NA                     | 175.79       | 8.22                       | NA                       | 167.57                   | NA                        | NA                     | NA                     |
| MW-1     | 04/25/1994 | 3,100          | 610         | <10         | 130         | 27          | NA                     | NA                     | 175.79       | 7.63                       | NA                       | 168.16                   | NA                        | NA                     | NA                     |
| MW-1     | 07/07/1994 | 2,400          | 1,000       | 10          | 250         | 20          | NA                     | NA                     | 175.79       | 8.31                       | NA                       | 167.48                   | NA                        | NA                     | NA                     |
| MW-1     | 10/27/1994 | 2,200          | 500         | 3.1         | 72          | 1.8         | NA                     | NA                     | 175.79       | 8.84                       | NA                       | 166.95                   | NA                        | NA                     | NA                     |
| MW-1     | 11/17/1994 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 175.79       | 7.60                       | NA                       | 168.19                   | NA                        | NA                     | NA                     |
| MW-1     | 11/28/1994 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 175.79       | 7.56                       | NA                       | 168.23                   | NA                        | NA                     | NA                     |
| MW-1     | 01/13/1995 | 570            | 75          | 2.5         | 6.7         | 11          | NA                     | NA                     | 175.79       | 7.11                       | NA                       | 168.68                   | NA                        | NA                     | NA                     |
| MW-1     | 04/12/1995 | 1,800          | 480         | <5.0        | 79          | <5.0        | NA                     | NA                     | 175.79       | 7.08                       | NA                       | 168.71                   | NA                        | NA                     | NA                     |
| MW-1     | 07/25/1995 | 120            | 15          | 1.1         | 2.1         | 2.9         | NA                     | NA                     | 175.79       | 7.73                       | NA                       | 168.06                   | NA                        | NA                     | NA                     |
| MW-1 (D) | 07/25/1995 | 300            | 88          | 2.4         | 11          | 6.5         | NA                     | NA                     | 175.79       | 7.73                       | NA                       | 168.06                   | NA                        | NA                     | NA                     |
| MW-1     | 10/18/1995 | 130            | 9.5         | 0.8         | 1.3         | 1.7         | NA                     | NA                     | 175.79       | 8.42                       | NA                       | 167.37                   | NA                        | NA                     | NA                     |
| MW-1 (D) | 10/18/1995 | 120            | 11          | 0.8         | 1.4         | 1.8         | NA                     | NA                     | 175.79       | 8.42                       | NA                       | 167.37                   | NA                        | NA                     | NA                     |
| MW-1     | 01/17/1996 | 250            | 22          | 0.9         | 1.6         | 2.3         | NA                     | NA                     | 175.79       | 7.83                       | NA                       | 167.96                   | NA                        | NA                     | NA                     |
| MW-1     | 04/25/1996 | <50            | 4.6         | <0.5        | <0.5        | 0.6         | 500b                   | NA                     | 175.79       | 7.35                       | NA                       | 168.44                   | NA                        | NA                     | NA                     |
| MW-1     | 07/17/1996 | <250           | 15          | <2.5        | <2.5        | <2.5        | 540                    | NA                     | 175.79       | 7.70                       | NA                       | 168.09                   | NA                        | NA                     | NA                     |
| MW-1     | 10/01/1996 | 1,200          | 500         | 12          | 57          | 82          | 1,900                  | NA                     | 175.79       | 8.07                       | NA                       | 167.72                   | NA                        | NA                     | NA                     |
| MW-1     | 01/22/1997 | 640            | 170         | 4.3         | 33          | 33          | 1,200                  | NA                     | 175.79       | 7.21                       | NA                       | 168.58                   | NA                        | NA                     | NA                     |
| MW-1     | 04/08/1997 | <200           | 34          | <2.0        | 3.3         | 4.3         | 950                    | NA                     | 175.79       | 7.75                       | NA                       | 168.04                   | NA                        | NA                     | NA                     |
| MW-1 (D) | 04/08/1997 | <200           | 66          | <2.0        | 6.4         | 8           | 740                    | NA                     | 175.79       | 7.75                       | NA                       | 168.04                   | NA                        | NA                     | NA                     |
| MW-1     | 07/08/1997 | 190            | 49          | 1.2         | 5.8         | 8.6         | 560                    | NA                     | 175.79       | 8.01                       | NA                       | 167.78                   | NA                        | NA                     | NA                     |
| MW-1     | 10/08/1997 | <100           | 7           | <1.0        | <1.0        | <1.0        | 620                    | NA                     | 175.79       | 8.10                       | NA                       | 167.69                   | NA                        | NA                     | NA                     |
| MW-1     | 01/09/1998 | 970            | 390         | 12          | 48          | 71          | 1,200                  | NA                     | 175.79       | 7.14                       | NA                       | 168.65                   | NA                        | NA                     | NA                     |
| MW-1     | 04/13/1998 | <50            | 136         | <0.50       | 1.5         | 1.8         | 170                    | NA                     | 175.79       | 6.78                       | NA                       | 169.01                   | NA                        | NA                     | NA                     |
| MW-1     | 07/17/1998 | 2,500          | 750         | 11          | 88          | 67          | 150                    | NA                     | 175.79       | 7.28                       | NA                       | 168.51                   | NA                        | NA                     | NA                     |
| MW-1     | 10/02/1998 | 8,000          | 970         | 36          | 270         | 440         | 35                     | NA                     | 175.79       | 7.77                       | NA                       | 168.02                   | NA                        | NA                     | NA                     |

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4255 MacArthur Boulevard**  
**Oakland, CA**

| Well ID  | Date       | TPPH<br>(ug/L) | B<br>(ug/L) | T<br>(ug/L) | E<br>(ug/L) | X<br>(ug/L) | MTBE<br>8020<br>(ug/L) | MTBE<br>8260<br>(ug/L) | TOC<br>(MSL) | Depth to<br>Water<br>(ft.) | Depth to<br>SPH<br>(ft.) | GW<br>Elevation<br>(MSL) | SPH<br>Thickness<br>(ft.) | DO<br>Reading<br>(ppm) | ORP<br>Reading<br>(mV) |
|----------|------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|--------------------------|---------------------------|------------------------|------------------------|
| MW-1     | 02/03/1999 | 210            | 56          | 0.82        | <0.50       | 3.2         | 220                    | NA                     | 175.79       | 7.45                       | NA                       | 168.34                   | NA                        | 1.4                    | NA                     |
| MW-1     | 04/29/1999 | <50            | 4.5         | <0.50       | 0.56        | <0.50       | 140                    | 196                    | 175.79       | 7.58                       | NA                       | 168.21                   | NA                        | 1.2                    | 140                    |
| MW-1     | 07/23/1999 | <50.0          | <0.500      | <0.500      | <0.500      | <0.500      | 120                    | 111*                   | 175.79       | 8.51                       | NA                       | 167.28                   | NA                        | 1.0                    | NA                     |
| MW-1     | 11/01/1999 | <50.0          | <0.500      | <0.500      | <0.500      | <0.500      | 2.90                   | NA                     | 175.79       | 8.30                       | NA                       | 167.49                   | NA                        | 1.4                    | -71                    |
| MW-1     | 01/17/2000 | <50            | <0.50       | <0.50       | <0.50       | <0.50       | 3.30                   | NA                     | 175.79       | 8.04                       | NA                       | 167.75                   | NA                        | 16.9                   | 64                     |
| MW-1     | 04/17/2000 | <50.0          | 1.08        | <0.500      | <0.500      | <0.500      | <2.50                  | NA                     | 175.79       | 8.00                       | NA                       | 167.79                   | NA                        | 1.8                    | 112                    |
| MW-1     | 07/26/2000 | 125            | 54.3        | 2.16        | 5.45        | 9.86        | 33.1                   | NA                     | 175.79       | 7.52                       | NA                       | 168.27                   | NA                        | 13.2                   | -140                   |
| MW-1     | 10/12/2000 | 101            | 40.7        | 2.68        | 3.00        | 5.18        | 25.0                   | NA                     | 175.79       | 7.71                       | NA                       | 168.08                   | NA                        | >20                    | 534                    |
| MW-1     | 01/15/2001 | <50.0          | 0.633       | <0.500      | 0.505       | 1.74        | <2.50                  | NA                     | 175.79       | 7.33                       | NA                       | 168.46                   | NA                        | 16.9                   | -127                   |
| MW-1     | 04/09/2001 | <50.0          | <0.500      | <0.500      | <0.500      | 0.927       | <2.50                  | NA                     | 175.79       | 7.68                       | NA                       | 168.11                   | NA                        | 12.8                   | -117                   |
| MW-1     | 07/24/2001 | <50            | 4.0         | 0.65        | 0.53        | 1.3         | NA                     | <5.0                   | 175.79       | 8.00                       | NA                       | 167.79                   | NA                        | >20                    | 43                     |
| MW-1     | 10/31/2001 | <50            | 4.4         | <0.50       | <0.50       | 0.98        | NA                     | <5.0                   | 175.79       | 7.94                       | NA                       | 167.85                   | NA                        | 13.6                   | 123                    |
| MW-1     | 01/10/2002 | <50            | 2.2         | <0.50       | <0.50       | 1.2         | NA                     | 6.1                    | 175.79       | 7.63                       | NA                       | 168.16                   | NA                        | 0.1                    | 63                     |
| MW-1     | 04/25/2002 | <50            | 2.0         | <0.50       | <0.50       | <0.50       | NA                     | <5.0                   | 175.79       | 7.76                       | NA                       | 168.03                   | NA                        | 0.3                    | 54                     |
| MW-1     | 07/18/2002 | <50            | 6.1         | <0.50       | <0.50       | 0.98        | NA                     | <5.0                   | 175.79       | 8.29                       | NA                       | 167.50                   | NA                        | 1.1                    | 32                     |
| MW-1     | 10/07/2002 | 500            | 17          | 14          | 11          | 60          | NA                     | 9.0                    | 175.76       | 8.34                       | NA                       | 167.42                   | NA                        | 2.8                    | -26                    |
| MW-1     | 01/06/2003 | <50            | 12          | <0.50       | 0.73        | 0.58        | NA                     | 14                     | 175.76       | 7.18                       | NA                       | 168.58                   | NA                        | 0.5                    | -22                    |
| MW-1     | 04/07/2003 | <50            | <0.50       | <0.50       | <0.50       | <1.0        | NA                     | 12                     | 175.76       | 7.75                       | NA                       | 168.01                   | NA                        | 0.7                    | -24                    |
| MW-1     | 07/07/2003 | <50            | 6.6         | <0.50       | <0.50       | <1.0        | NA                     | 8.1                    | 175.76       | 7.75                       | NA                       | 168.01                   | NA                        | 0.5                    | 16                     |
| MW-1     | 10/09/2003 | <50            | 1.9         | <0.50       | <0.50       | <1.0        | NA                     | 22                     | 175.76       | 8.45                       | NA                       | 167.31                   | NA                        | 0.7                    | 80                     |
| MW-2     | 11/17/1993 | 31,000         | 9,400       | 4,600       | 1,000       | 3,900       | NA                     | NA                     | 170.91       | 12.31                      | NA                       | 158.60                   | NA                        | NA                     | NA                     |
| MW-2     | 01/20/1994 | 40,000         | 6,900       | 5,600       | 780         | 4,100       | NA                     | NA                     | 170.91       | 11.48                      | NA                       | 159.43                   | NA                        | NA                     | NA                     |
| MW-2 (D) | 01/20/1994 | 41,000         | 7,200       | 6,200       | 900         | 4,800       | NA                     | NA                     | 170.91       | 11.48                      | NA                       | 159.43                   | NA                        | NA                     | NA                     |
| MW-2     | 04/25/1994 | 60,000         | 9,300       | 6,100       | 1,400       | 6,200       | NA                     | NA                     | 170.91       | 10.84                      | NA                       | 160.07                   | NA                        | NA                     | NA                     |
| MW-2     | 07/07/1994 | 280,000a       | 40,000      | 26,000      | 8,100       | 32,000      | NA                     | NA                     | 170.91       | 11.89                      | NA                       | 159.02                   | NA                        | NA                     | NA                     |
| MW-2 (D) | 07/07/1994 | 53,000         | 13,000      | 6,600       | 2,000       | 8,400       | NA                     | NA                     | 170.91       | 11.89                      | NA                       | 159.02                   | NA                        | NA                     | NA                     |

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4255 MacArthur Boulevard**  
**Oakland, CA**

| Well ID  | Date       | TPPH<br>(ug/L) | B<br>(ug/L) | T<br>(ug/L) | E<br>(ug/L) | X<br>(ug/L) | MTBE<br>8020<br>(ug/L) | MTBE<br>8260<br>(ug/L) | TOC<br>(MSL) | Depth to<br>Water<br>(ft.) | Depth to<br>SPH<br>(ft.) | GW<br>Elevation<br>(MSL) | SPH<br>Thickness<br>(ft.) | DO<br>Reading<br>(ppm) | ORP<br>Reading<br>(mV) |
|----------|------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|--------------------------|---------------------------|------------------------|------------------------|
| MW-2     | 10/27/1994 | 130,000        | 14,000      | 12,000      | 2,400       | 13,000      | NA                     | NA                     | 170.91       | 12.89                      | NA                       | 158.02                   | NA                        | NA                     | NA                     |
| MW-2 (D) | 10/27/1994 | 390,000        | 8,800       | 7,000       | 1,700       | 11,000      | NA                     | NA                     | 170.91       | 12.89                      | NA                       | 158.02                   | NA                        | NA                     | NA                     |
| MW-2     | 11/17/1994 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 170.91       | 9.11                       | NA                       | 161.80                   | NA                        | NA                     | NA                     |
| MW-2     | 11/28/1994 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 170.91       | 9.22                       | NA                       | 161.69                   | NA                        | NA                     | NA                     |
| MW-2     | 01/13/1995 | 75,000         | 5,900       | 12,000      | 3,100       | 17,000      | NA                     | NA                     | 170.91       | 8.10                       | NA                       | 162.81                   | NA                        | NA                     | NA                     |
| MW-2     | 04/12/1995 | 100,000        | 8,500       | 11,000      | 2,400       | 12,000      | NA                     | NA                     | 170.91       | 10.12                      | NA                       | 160.79                   | NA                        | NA                     | NA                     |
| MW-2 (D) | 04/12/1995 | 80,000         | 4,200       | 9,300       | 2,500       | 12,000      | NA                     | NA                     | 170.91       | 10.12                      | NA                       | 160.79                   | NA                        | NA                     | NA                     |
| MW-2     | 07/25/1995 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 170.91       | 11.53                      | NA                       | 159.80                   | 0.52                      | NA                     | NA                     |
| MW-2     | 10/18/1995 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 170.91       | 14.02                      | NA                       | 156.99                   | 0.13                      | NA                     | NA                     |
| MW-2     | 01/17/1996 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 170.91       | 10.27                      | NA                       | 160.78                   | 0.17                      | NA                     | NA                     |
| MW-2     | 04/25/1996 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 170.91       | 11.68                      | NA                       | 159.25                   | 0.03                      | NA                     | NA                     |
| MW-2     | 07/17/1996 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 170.91       | 12.78                      | NA                       | 158.81                   | 0.48                      | NA                     | NA                     |
| MW-2     | 10/01/1996 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 170.91       | 14.21                      | NA                       | 156.70                   | 0.28                      | NA                     | NA                     |
| MW-2     | 01/22/1997 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 170.91       | 10.92                      | NA                       | 160.08                   | 0.11                      | NA                     | NA                     |
| MW-2     | 04/08/1997 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 170.91       | 14.12                      | NA                       | 156.95                   | 0.20                      | NA                     | NA                     |
| MW-2     | 07/08/1997 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 170.91       | 14.98                      | NA                       | 156.08                   | 0.19                      | NA                     | NA                     |
| MW-2     | 10/08/1997 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 170.91       | 12.97                      | NA                       | 157.98                   | 0.05                      | NA                     | NA                     |
| MW-2     | 01/08/1998 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 170.91       | 12.54                      | NA                       | 158.43                   | 0.08                      | NA                     | NA                     |
| MW-2     | 04/13/1998 | 180,000        | 2,800       | 5,200       | 2,400       | 13,000      | 71,000                 | NA                     | 170.91       | 10.05                      | NA                       | 160.86                   | NA                        | NA                     | NA                     |
| MW-2     | 07/17/1998 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 170.91       | 11.75                      | NA                       | 159.24                   | 0.10                      | NA                     | NA                     |
| MW-2     | 10/02/1998 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 170.91       | 16.78                      | NA                       | 154.22                   | 0.11                      | NA                     | NA                     |
| MW-2     | 02/03/1999 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 170.91       | 9.90                       | 9.82                     | 161.07                   | 0.08                      | NA                     | NA                     |
| MW-2     | 04/29/1999 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 170.91       | 9.86                       | 9.81                     | 161.09                   | 0.05                      | NA                     | NA                     |
| MW-2     | 07/23/1999 | 65,800         | 6,500       | 4,480       | 1,960       | 8,960       | 46,600                 | 58,500*                | 170.91       | 14.45                      | NA                       | 156.46                   | NA                        | 1.4                    | NA                     |
| MW-2     | 11/01/1999 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 170.91       | 11.84                      | 11.81                    | 159.09                   | 0.03                      | NA                     | NA                     |
| MW-2     | 01/17/2000 | 46,000         | 6,000       | 2,400       | 1,500       | 5,500       | 50,000                 | 31,000                 | 170.91       | 11.00                      | NA                       | 159.91                   | NA                        | 1.3                    | -54                    |
| MW-2     | 04/17/2000 | 96,300         | 8,150       | 10,200      | 2,820       | 14,900      | 112,000                | 108,000                | 170.91       | 11.06                      | NA                       | 159.85                   | NA                        | 2.6                    | 125                    |

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4255 MacArthur Boulevard**  
**Oakland, CA**

| Well ID  | Date       | TPPH<br>(ug/L) | B<br>(ug/L) | T<br>(ug/L) | E<br>(ug/L) | X<br>(ug/L) | MTBE<br>8020<br>(ug/L) | MTBE<br>8260<br>(ug/L) | TOC<br>(MSL) | Depth to<br>Water<br>(ft.) | Depth to<br>SPH<br>(ft.) | GW<br>Elevation<br>(MSL) | SPH<br>Thickness<br>(ft.) | DO<br>Reading<br>(ppm) | ORP<br>Reading<br>(mV) |
|----------|------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|--------------------------|---------------------------|------------------------|------------------------|
| MW-2     | 07/26/2000 | 72,400         | 8,880       | 5,620       | 2,810       | 13,400      | 66,200                 | 46,300                 | 170.91       | 12.82                      | NA                       | 158.09                   | NA                        | 2.2                    | 113                    |
| MW-2     | 10/12/2000 | 63,200         | 5,840       | 4,180       | 2,310       | 11,100      | 61,200                 | 66,600                 | 170.91       | 11.32                      | NA                       | 159.59                   | NA                        | 0.4                    | 55                     |
| MW-2     | 01/15/2001 | 59,700         | 2,630       | 4,800       | 2,050       | 11,500      | 44,400                 | 5,080                  | 170.91       | 10.19                      | NA                       | 160.72                   | NA                        | 1.1                    | -22                    |
| MW-2     | 04/09/2001 | 56,900         | 1,860       | 2,550       | 1,810       | 9,720       | 40,000                 | 46,600                 | 170.91       | 11.15                      | NA                       | 159.76                   | NA                        | 1.0                    | -55                    |
| MW-2     | 07/24/2001 | 84,000         | 3,000       | 4,600       | 2,500       | 13,000      | NA                     | 41,000                 | 170.91       | 11.67                      | NA                       | 159.24                   | NA                        | 0.2                    | 53                     |
| MW-2     | 10/31/2001 | 45,000         | 2,200       | 3,000       | 1,500       | 7,700       | NA                     | 29,000                 | 170.91       | 11.04                      | NA                       | 159.87                   | NA                        | 1.2                    | -17                    |
| MW-2     | 01/10/2002 | 28,000         | 840         | 740         | 760         | 3,300       | NA                     | 32,000                 | 170.91       | 9.58                       | NA                       | 161.33                   | NA                        | 2.1                    | -76                    |
| MW-2     | 04/25/2002 | 41,000         | 1,900       | 2,000       | 1,200       | 6,900       | NA                     | 17,000                 | 170.91       | 11.40                      | NA                       | 159.51                   | NA                        | 0.8                    | -95                    |
| MW-2     | 07/18/2002 | 87,000         | 2,000       | 2,200       | 1,400       | 10,000      | NA                     | 19,000                 | 170.91       | 12.68                      | NA                       | 158.23                   | NA                        | 0.7                    | -34                    |
| MW-2     | 10/07/2002 | 110,000        | 3,900       | 6,700       | 2,700       | 15,000      | NA                     | 20,000                 | 170.88       | 11.58                      | NA                       | 159.30                   | NA                        | 1.4                    | -52                    |
| MW-2     | 01/06/2003 | 65,000         | 2,400       | 3,500       | 1,400       | 8,600       | NA                     | 26,000                 | 170.88       | 9.09                       | NA                       | 161.79                   | NA                        | 0.4                    | 40                     |
| MW-2     | 04/07/2003 | 57,000         | 1,900       | 2,500       | 1,700       | 8,600       | NA                     | 37,000                 | 170.88       | 11.08                      | NA                       | 159.80                   | NA                        | 1.0                    | 60                     |
| MW-2     | 07/07/2003 | 34,000         | 4,000       | 4,200       | 1,600       | 8,500       | NA                     | 51,000                 | 170.88       | 11.27                      | NA                       | 159.61                   | NA                        | 1.3                    | -17                    |
| MW-2     | 10/09/2003 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 170.88       | 11.64                      | 11.61                    | 159.26                   | 0.03                      | NA                     | NA                     |
| MW-2     | 10/20/2003 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 170.88       | 11.88                      | 11.84                    | 159.03                   | 0.04                      | NA                     | NA                     |
| MW-3     | 11/17/1993 | 18,000         | 5,400       | 660         | 720         | 2,200       | NA                     | NA                     | 174.61       | 15.40                      | NA                       | 159.21                   | NA                        | NA                     | NA                     |
| MW-3     | 01/20/1994 | 55,000         | 13,000      | 2,600       | 2,200       | 6,500       | NA                     | NA                     | 174.61       | 14.61                      | NA                       | 160.00                   | NA                        | NA                     | NA                     |
| MW-3     | 04/25/1994 | 96,000         | 11,000      | 1,600       | 3,100       | 9,900       | NA                     | NA                     | 174.61       | 13.12                      | NA                       | 161.49                   | NA                        | NA                     | NA                     |
| MW-3 (D) | 04/25/1994 | 78,000         | 12,000      | 1,900       | 2,600       | 7,300       | NA                     | NA                     | 174.61       | 13.12                      | NA                       | 161.49                   | NA                        | NA                     | NA                     |
| MW-3     | 07/07/1994 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 174.61       | 14.54                      | NA                       | 160.07                   | 0.02                      | NA                     | NA                     |
| MW-3     | 10/27/1994 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 174.61       | 15.62                      | NA                       | 159.03                   | 0.05                      | NA                     | NA                     |
| MW-3     | 11/17/1994 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 174.61       | 13.83                      | NA                       | 160.78                   | NA                        | NA                     | NA                     |
| MW-3     | 11/28/1994 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 174.61       | 14.02                      | NA                       | 160.59                   | NA                        | NA                     | NA                     |
| MW-3     | 01/13/1995 | 180,000        | 3,200       | 2,700       | 1,700       | 5,200       | NA                     | NA                     | 174.61       | 12.13                      | NA                       | 162.48                   | NA                        | NA                     | NA                     |
| MW-3 (D) | 01/13/1995 | 23,000         | 4,000       | 690         | 960         | 3,000       | NA                     | NA                     | 174.61       | 12.13                      | NA                       | 162.48                   | NA                        | NA                     | NA                     |
| MW-3     | 04/12/1995 | 56,000         | 8,700       | 1,500       | 2,100       | 6,300       | NA                     | NA                     | 174.61       | 12.96                      | NA                       | 161.65                   | NA                        | NA                     | NA                     |

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4255 MacArthur Boulevard**  
**Oakland, CA**

| Well ID  | Date       | TPPH<br>(ug/L) | B<br>(ug/L) | T<br>(ug/L) | E<br>(ug/L) | X<br>(ug/L) | MTBE<br>8020<br>(ug/L) | MTBE<br>8260<br>(ug/L) | TOC<br>(MSL) | Depth to<br>Water<br>(ft.) | Depth to<br>SPH<br>(ft.) | GW<br>Elevation<br>(MSL) | SPH<br>Thickness<br>(ft.) | DO<br>Reading<br>(ppm) | ORP<br>Reading<br>(mV) |
|----------|------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|--------------------------|---------------------------|------------------------|------------------------|
| MW-3     | 07/25/1995 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 174.61       | 14.28                      | NA                       | 160.38                   | 0.06                      | NA                     | NA                     |
| MW-3     | 10/18/1995 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 174.61       | 15.88                      | NA                       | 158.77                   | 0.05                      | NA                     | NA                     |
| MW-3     | 01/17/1996 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 174.61       | 13.86                      | NA                       | 160.94                   | 0.24                      | NA                     | NA                     |
| MW-3     | 04/25/1996 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 174.61       | 13.82                      | NA                       | 160.81                   | 0.02                      | NA                     | NA                     |
| MW-3     | 07/17/1996 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 174.61       | 16.11                      | NA                       | 158.52                   | 0.03                      | NA                     | NA                     |
| MW-3     | 10/01/1996 | 46,000         | 7,300       | 530         | 1,700       | 3,900       | 3,200                  | NA                     | 174.61       | 16.56                      | NA                       | 158.05                   | NA                        | NA                     | NA                     |
| MW-3 (D) | 10/01/1996 | 47,000         | 7,100       | 530         | 1,700       | 4,000       | 2,900                  | NA                     | 174.61       | 16.56                      | NA                       | 158.05                   | NA                        | NA                     | NA                     |
| MW-3     | 01/22/1997 | 82,000         | 5,200       | 1,300       | 2,800       | 8,900       | 1,100                  | NA                     | 174.61       | 13.07                      | NA                       | 161.54                   | NA                        | NA                     | NA                     |
| MW-3 (D) | 01/22/1997 | 61,000         | 8,400       | 1,100       | 2,300       | 7,000       | 2,700                  | NA                     | 174.61       | 13.07                      | NA                       | 161.54                   | NA                        | NA                     | NA                     |
| MW-3     | 04/08/1997 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 174.61       | 17.09                      | NA                       | 157.54                   | 0.03                      | NA                     | NA                     |
| MW-3     | 07/08/1997 | 56,000         | 8,800       | 580         | 2,000       | 4,900       | 2,800                  | NA                     | 174.61       | 15.85                      | NA                       | 158.76                   | NA                        | NA                     | NA                     |
| MW-3     | 10/08/1997 | 48,000         | 8,000       | 590         | 1,700       | 3,400       | 5,100                  | NA                     | 174.61       | 16.22                      | NA                       | 158.39                   | NA                        | NA                     | NA                     |
| MW-3     | 01/08/1998 | 47,000         | 9,400       | 810         | 2,300       | 4,700       | 6,300                  | NA                     | 174.61       | 13.80                      | NA                       | 160.81                   | NA                        | NA                     | NA                     |
| MW-3 (D) | 01/08/1998 | 48,000         | 8,100       | 750         | 2,000       | 4,100       | 5,800                  | NA                     | 174.61       | 13.80                      | NA                       | 160.81                   | NA                        | NA                     | NA                     |
| MW-3     | 04/13/1998 | 32,000         | 6,800       | 540         | 1,400       | 3,400       | 4,000                  | NA                     | 174.61       | 12.97                      | NA                       | 161.64                   | NA                        | NA                     | NA                     |
| MW-3 (D) | 04/13/1998 | 36,000         | 7,300       | 660         | 1,600       | 3,700       | 4,000                  | NA                     | 174.61       | 12.97                      | NA                       | 161.64                   | NA                        | NA                     | NA                     |
| MW-3     | 07/17/1998 | 71,000         | 11,000      | 590         | 2,200       | 6,900       | 3,900                  | NA                     | 174.61       | 11.51                      | NA                       | 163.10                   | NA                        | NA                     | NA                     |
| MW-3 (D) | 07/17/1998 | 76,000         | 12,000      | 700         | 2,600       | 8,000       | 3,000                  | NA                     | 174.61       | 11.51                      | NA                       | 163.10                   | NA                        | NA                     | NA                     |
| MW-3     | 10/02/1998 | 66,000         | 8,900       | 510         | 2,000       | 4,900       | 4,600                  | NA                     | 174.61       | 16.50                      | NA                       | 158.11                   | NA                        | NA                     | NA                     |
| MW-3 (D) | 10/02/1998 | 59,000         | 9,400       | 460         | 2,000       | 4,900       | 4,700                  | NA                     | 174.61       | 16.50                      | NA                       | 158.11                   | NA                        | NA                     | NA                     |
| MW-3     | 02/03/1999 | 36,000         | 6,800       | 300         | 1,600       | 2,900       | 18,000                 | NA                     | 174.61       | 15.21                      | NA                       | 159.40                   | NA                        | 1.3                    | NA                     |
| MW-3     | 04/29/1999 | 45,000         | 8,100       | 580         | 2,200       | 5,800       | 4,700                  | 5,150                  | 174.61       | 15.43                      | NA                       | 159.18                   | NA                        | 1.5                    | -68                    |
| MW-3     | 07/23/1999 | 29,400         | 3,540       | 215         | 810         | 3,800       | 4,720                  | 6,950*                 | 174.61       | 14.95                      | NA                       | 159.66                   | NA                        | 1.3                    | NA                     |
| MW-3     | 11/01/1999 | 20,000         | 4,190       | 294         | 1,060       | 1,740       | 5,540                  | 8,590                  | 174.61       | 14.66                      | NA                       | 159.95                   | NA                        | 0.6                    | -110                   |
| MW-3     | 01/17/2000 | 17,000         | 3,900       | 89          | 1,100       | 1,200       | 7,900                  | NA                     | 174.61       | 13.94                      | NA                       | 160.67                   | NA                        | 1.3                    | -40                    |
| MW-3     | 04/17/2000 | 28,100         | 5,240       | 247         | 1,540       | 2,750       | 16,600                 | NA                     | 174.61       | 14.00                      | NA                       | 160.61                   | NA                        | 1.1                    | -86                    |
| MW-3     | 07/26/2000 | 24,300         | 6,680       | 159         | 1,610       | 1,640       | 17,100                 | NA                     | 174.61       | 13.72                      | NA                       | 160.89                   | NA                        | 0.9                    | -70                    |

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4255 MacArthur Boulevard**  
**Oakland, CA**

| Well ID | Date | TPPH<br>(ug/L) | B<br>(ug/L) | T<br>(ug/L) | E<br>(ug/L) | X<br>(ug/L) | MTBE<br>8020<br>(ug/L) | MTBE<br>8260<br>(ug/L) | TOC<br>(MSL) | Depth to<br>Water<br>(ft.) | Depth to<br>SPH<br>(ft.) | GW<br>Elevation<br>(MSL) | SPH<br>Thickness<br>(ft.) | DO<br>Reading<br>(ppm) | ORP<br>Reading<br>(mV) |
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|--------------------------|---------------------------|------------------------|------------------------|
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|--------------------------|---------------------------|------------------------|------------------------|

|      |            |         |       |       |       |        |        |        |        |       |       |        |      |     |     |
|------|------------|---------|-------|-------|-------|--------|--------|--------|--------|-------|-------|--------|------|-----|-----|
| MW-3 | 10/12/2000 | 14,300  | 2,630 | 86.7  | 241   | 1,360  | 16,300 | NA     | 174.61 | 14.15 | NA    | 160.46 | NA   | 0.9 | 50  |
| MW-3 | 01/15/2001 | 22,100  | 4,400 | 266   | 977   | 2,990  | 13,200 | NA     | 174.61 | 13.05 | NA    | 161.56 | NA   | 1.3 | -40 |
| MW-3 | 04/09/2001 | 33,800  | 7,100 | 147   | 1,700 | 2,660  | 13,000 | NA     | 174.61 | 13.59 | NA    | 161.02 | NA   | 0.6 | -56 |
| MW-3 | 07/24/2001 | 220,000 | 5,600 | 1,900 | 4,400 | 19,000 | NA     | 12,000 | 174.61 | 14.43 | NA    | 160.18 | NA   | 0.4 | 29  |
| MW-3 | 10/31/2001 | 65,000  | 2,700 | 510   | 1,800 | 7,200  | NA     | 9,800  | 174.61 | 14.59 | NA    | 160.02 | NA   | 0.9 | -27 |
| MW-3 | 01/10/2002 | 66,000  | 2,400 | 490   | 1,700 | 6,600  | NA     | 5,500  | 174.61 | 12.65 | NA    | 161.96 | NA   | 1.7 | -76 |
| MW-3 | 04/25/2002 | 55,000  | 4,600 | 460   | 2,400 | 6,900  | NA     | 8,100  | 174.61 | 14.13 | NA    | 160.48 | NA   | 1.2 | -96 |
| MW-3 | 07/18/2002 | 56,000  | 3,300 | 270   | 1,700 | 5,000  | NA     | 8,400  | 174.61 | 15.48 | 15.45 | 159.15 | 0.03 | 0.8 | -41 |
| MW-3 | 10/07/2002 | NA      | NA    | NA    | NA    | NA     | NA     | NA     | 174.59 | 14.60 | 14.40 | 160.15 | 0.20 | NA  | NA  |
| MW-3 | 01/06/2003 | 57,000  | 3,200 | 330   | 1,800 | 5,400  | NA     | 5,100  | 174.59 | 11.62 | 11.60 | 162.99 | 0.02 | 0.4 | 33  |
| MW-3 | 04/07/2003 | 57,000  | 6,200 | 500   | 2,400 | 6,700  | NA     | 8,200  | 174.59 | 13.80 | NA    | 160.79 | NA   | 0.5 | 61  |
| MW-3 | 07/07/2003 | 28,000  | 4,900 | 300   | 1,500 | 4,100  | NA     | 7,900  | 174.59 | 14.00 | NA    | 160.59 | NA   | 1.0 | -11 |
| MW-3 | 10/09/2003 | NA      | NA    | NA    | NA    | NA     | NA     | NA     | 174.59 | 14.44 | 14.36 | 160.21 | 0.08 | NA  | NA  |
| MW-3 | 10/20/2003 | NA      | NA    | NA    | NA    | NA     | NA     | NA     | 174.59 | 14.68 | 14.61 | 159.97 | 0.07 | NA  | NA  |

|          |            |       |     |      |      |      |       |       |        |      |    |        |    |    |    |
|----------|------------|-------|-----|------|------|------|-------|-------|--------|------|----|--------|----|----|----|
| MW-4     | 11/17/1994 | NA    | NA  | NA   | NA   | NA   | NA    | NA    | 164.06 | 6.62 | NA | 157.44 | NA | NA | NA |
| MW-4     | 11/28/1994 | 2,900 | 200 | 17   | 76   | 260  | NA    | NA    | 164.06 | 6.11 | NA | 157.95 | NA | NA | NA |
| MW-4     | 01/13/1995 | 1,900 | 130 | 5.6  | 13   | 40   | NA    | NA    | 164.06 | 6.05 | NA | 158.01 | NA | NA | NA |
| MW-4     | 04/12/1995 | 680   | 150 | <2.0 | 10   | 13   | NA    | NA    | 164.06 | 6.31 | NA | 157.75 | NA | NA | NA |
| MW-4     | 07/25/1995 | 340   | 100 | 0.8  | 8.8  | 3    | NA    | NA    | 164.06 | 7.36 | NA | 156.70 | NA | NA | NA |
| MW-4     | 10/18/1995 | 150   | 31  | <0.5 | 3.5  | 0.8  | NA    | NA    | 164.06 | 8.54 | NA | 155.52 | NA | NA | NA |
| MW-4     | 01/17/1996 | 290   | 14  | <0.5 | 1.8  | 0.8  | NA    | NA    | 164.06 | 8.48 | NA | 155.58 | NA | NA | NA |
| MW-4     | 04/25/1996 | <500  | 65  | <5   | <5   | <5   | 1,700 | NA    | 164.06 | 7.40 | NA | 156.66 | NA | NA | NA |
| MW-4 (D) | 04/25/1996 | <500  | 66  | <5   | 8.7  | <5   | 1,500 | NA    | 164.06 | 7.40 | NA | 156.66 | NA | NA | NA |
| MW-4     | 07/17/1996 | <500  | 84  | <5.0 | 6.5  | <5.0 | 1,500 | NA    | 164.06 | 7.75 | NA | 156.31 | NA | NA | NA |
| MW-4 (D) | 07/17/1996 | <500  | 54  | <5.0 | <5.0 | <5.0 | 1,700 | 2,100 | 164.06 | 7.75 | NA | 156.31 | NA | NA | NA |
| MW-4     | 10/01/1996 | <500  | 1.9 | <5.0 | <5.0 | <5.0 | 3,000 | NA    | 164.06 | 8.82 | NA | 155.24 | NA | NA | NA |

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4255 MacArthur Boulevard**  
**Oakland, CA**

| Well ID  | Date       | TPPH<br>(ug/L) | B<br>(ug/L) | T<br>(ug/L) | E<br>(ug/L) | X<br>(ug/L) | MTBE<br>8020<br>(ug/L) | MTBE<br>8260<br>(ug/L) | TOC<br>(MSL) | Depth to<br>Water<br>(ft.) | Depth to<br>SPH<br>(ft.) | GW<br>Elevation<br>(MSL) | SPH<br>Thickness<br>(ft.) | DO<br>Reading<br>(ppm) | ORP<br>Reading<br>(mV) |
|----------|------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|--------------------------|---------------------------|------------------------|------------------------|
| MW-4     | 01/22/1997 | 580            | 130         | <2.5        | 18          | 5.2         | 1,200                  | NA                     | 164.06       | 7.51                       | NA                       | 156.55                   | NA                        | NA                     | NA                     |
| MW-4     | 04/08/1997 | 770            | 200         | 7           | 26          | 55          | 1,500                  | 8                      | 164.06       | 7.18                       | NA                       | 156.88                   | NA                        | NA                     | NA                     |
| MW-4     | 07/08/1997 | 570            | 78          | <5.0        | 14          | 11          | 1,200                  | NA                     | 164.06       | 9.00                       | NA                       | 155.06                   | NA                        | NA                     | NA                     |
| MW-4 (D) | 07/08/1997 | 640            | 81          | <5.0        | 16          | 19          | 1,600                  | NA                     | 164.06       | 9.00                       | NA                       | 155.06                   | NA                        | NA                     | NA                     |
| MW-4     | 10/08/1997 | <500           | 40          | <5.0        | 7.4         | 5.4         | 1,400                  | NA                     | 164.06       | 8.97                       | NA                       | 155.09                   | NA                        | NA                     | NA                     |
| MW-4 (D) | 10/08/1997 | <500           | 36          | <5.0        | 5.9         | <5.0        | 1,400                  | NA                     | 164.06       | 8.97                       | NA                       | 155.09                   | NA                        | NA                     | NA                     |
| MW-4     | 01/08/1998 | <1,000         | 55          | <10         | 13          | <10         | 2,000                  | NA                     | 164.06       | 7.90                       | NA                       | 156.16                   | NA                        | NA                     | NA                     |
| MW-4     | 04/13/1998 | 350            | 110         | 2.4         | 20          | 26          | <2.5                   | NA                     | 164.06       | 7.35                       | NA                       | 156.71                   | NA                        | NA                     | NA                     |
| MW-4     | 07/17/1998 | 210            | 66          | 0.78        | 5.4         | 9.8         | 1,700                  | NA                     | 164.06       | 6.95                       | NA                       | 157.11                   | NA                        | NA                     | NA                     |
| MW-4     | 10/02/1998 | <50            | 0.69        | <0.50       | <0.50       | <0.50       | 2,900                  | NA                     | 164.06       | 7.35                       | NA                       | 156.71                   | NA                        | NA                     | NA                     |
| MW-4     | 02/03/1999 | 560            | 120         | 2.5         | 29          | 34          | 6,800                  | NA                     | 164.06       | 7.71                       | NA                       | 156.35                   | NA                        | 0.9                    | NA                     |
| MW-4     | 04/29/1999 | 390            | 80          | 1.9         | 13          | 19          | 7,000                  | 8,360                  | 164.06       | 7.83                       | NA                       | 156.23                   | NA                        | 1.1                    | -125                   |
| MW-4     | 07/23/1999 | 460            | 93.6        | 8.40        | 25.2        | 28.8        | 3,760                  | 6,000*                 | 164.06       | 11.33                      | NA                       | 152.73                   | NA                        | 0.9                    | NA                     |
| MW-4     | 11/01/1999 | 77.3           | 0.520       | <0.500      | <0.500      | <0.500      | 539                    | NA                     | 164.06       | 10.66                      | NA                       | 153.40                   | NA                        | 2.8                    | 3                      |
| MW-4     | 01/17/2000 | 160            | 27          | <0.50       | 12          | 6.3         | 12,000                 | NA                     | 164.06       | 10.15                      | NA                       | 153.91                   | NA                        | 3.9                    | -17                    |
| MW-4     | 04/17/2000 | <500           | 26          | 6.38        | 9.35        | 10.4        | 9,070                  | NA                     | 164.06       | 10.10                      | NA                       | 153.96                   | NA                        | 1.7                    | -129                   |
| MW-4     | 07/26/2000 | <500           | 22.7        | <5.00       | 7.59        | 6.96        | 7,660                  | NA                     | 164.06       | 10.09                      | NA                       | 153.97                   | NA                        | 1.4                    | -137                   |
| MW-4     | 10/12/2000 | 172            | 19.8        | <0.500      | 7.47        | 4.50        | 8,290                  | NA                     | 164.06       | 9.35                       | NA                       | 154.71                   | NA                        | 3.5                    | 529                    |
| MW-4     | 01/15/2001 | 53.6           | 1.50        | <0.500      | 2.45        | 1.80        | 9,260                  | NA                     | 164.06       | 8.77                       | NA                       | 155.29                   | NA                        | 2.3                    | 53                     |
| MW-4     | 04/09/2001 | <500           | <5.00       | <5.00       | <5.00       | 5.52        | 10,300                 | NA                     | 164.06       | 7.75                       | NA                       | 156.31                   | NA                        | 1.0                    | -133                   |
| MW-4     | 07/24/2001 | 58             | 3.8         | <0.50       | 3.2         | 2.9         | NA                     | 1,700                  | 164.06       | 10.07                      | NA                       | 153.99                   | NA                        | 0.5                    | 106                    |
| MW-4     | 10/31/2001 | <1,000         | <10         | <10         | <10         | <10         | NA                     | 7,400                  | 164.06       | 9.97                       | NA                       | 154.09                   | NA                        | 0.8                    | 22                     |
| MW-4     | 01/10/2002 | <2,000         | <20         | <20         | <20         | <20         | NA                     | 12,000                 | 164.06       | 8.53                       | NA                       | 155.53                   | NA                        | 8.9                    | 224                    |
| MW-4     | 04/25/2002 | <2,000         | <20         | <20         | <20         | <20         | NA                     | 7,900                  | 164.06       | 7.33                       | NA                       | 156.73                   | NA                        | 3.6                    | -84                    |
| MW-4     | 07/18/2002 | <2,000         | <20         | <20         | <20         | <20         | NA                     | 7,200                  | 164.06       | 9.05                       | NA                       | 155.01                   | NA                        | 1.7                    | 120                    |
| MW-4     | 10/07/2002 | <1,000         | <10         | <10         | <10         | <10         | NA                     | 3,300                  | 164.03       | 9.06                       | NA                       | 154.97                   | NA                        | 2.5                    | 33                     |
| MW-4     | 01/06/2003 | <500           | 21          | <5.0        | <5.0        | <5.0        | NA                     | 2,500                  | 164.03       | 7.09                       | NA                       | 156.94                   | NA                        | 0.5                    | 55                     |

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4255 MacArthur Boulevard**  
**Oakland, CA**

| Well ID | Date       | TPPH<br>(ug/L)     | B<br>(ug/L) | T<br>(ug/L) | E<br>(ug/L) | X<br>(ug/L) | MTBE<br>8020<br>(ug/L) | MTBE<br>8260<br>(ug/L) | TOC<br>(MSL) | Depth to<br>Water<br>(ft.) | Depth to<br>SPH<br>(ft.) | GW<br>Elevation<br>(MSL) | SPH<br>Thickness<br>(ft.) | DO<br>Reading<br>(ppm) | ORP<br>Reading<br>(mV) |
|---------|------------|--------------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|--------------------------|---------------------------|------------------------|------------------------|
| MW-4    | 04/07/2003 | <2,500             | <25         | <25         | <25         | <50         | NA                     | 1,700                  | 164.03       | 8.26                       | NA                       | 155.77                   | NA                        | 1.2                    | 69                     |
| MW-4    | 07/07/2003 | <2,500             | <25         | <25         | <25         | <50         | NA                     | 860                    | 164.03       | 8.92                       | NA                       | 155.11                   | NA                        | 0.5                    | -3                     |
| MW-4    | 10/09/2003 | <500               | <5.0        | <5.0        | <5.0        | <10         | NA                     | 420                    | 164.03       | 8.91                       | NA                       | 155.12                   | NA                        | 0.7                    | 171                    |
| MW-5    | 01/04/2002 | NA                 | NA          | NA          | NA          | NA          | NA                     | NA                     | NA           | 5.62                       | NA                       | NA                       | NA                        | NA                     | NA                     |
| MW-5    | 01/10/2002 | <50                | <0.50       | <0.50       | <0.50       | <0.50       | NA                     | 110                    | 164.06       | 5.88                       | NA                       | 158.18                   | NA                        | 3.3                    | 172                    |
| MW-5    | 04/25/2002 | <50                | <0.50       | <0.50       | <0.50       | <0.50       | NA                     | 73                     | 164.06       | 6.81                       | NA                       | 157.25                   | NA                        | 0.3                    | -44                    |
| MW-5    | 07/18/2002 | <50                | <0.50       | <0.50       | <0.50       | <0.50       | NA                     | 75                     | 164.06       | 7.38                       | NA                       | 156.68                   | NA                        | 0.4                    | 170                    |
| MW-5    | 10/07/2002 | <50                | <0.50       | <0.50       | <0.50       | <0.50       | NA                     | 41                     | 164.14       | 6.75                       | NA                       | 157.39                   | NA                        | 1.5                    | 16                     |
| MW-5    | 01/06/2003 | <50                | <0.50       | <0.50       | <0.50       | <0.50       | NA                     | 81                     | 164.14       | 5.96                       | NA                       | 158.18                   | NA                        | 0.6                    | 166                    |
| MW-5    | 04/07/2003 | <50                | <0.50       | <0.50       | <0.50       | <1.0        | NA                     | 77                     | 164.14       | 6.51                       | NA                       | 157.63                   | NA                        | 0.8                    | 174                    |
| MW-5    | 07/07/2003 | <50                | <0.50       | <0.50       | <0.50       | <1.0        | NA                     | 32                     | 164.14       | 6.44                       | NA                       | 157.70                   | NA                        | 0.3                    | -17                    |
| MW-5    | 10/09/2003 | <50                | <0.50       | <0.50       | <0.50       | <1.0        | NA                     | 59                     | 164.14       | 7.05                       | NA                       | 157.09                   | NA                        | 0.9                    | 17                     |
| TB-1    | 04/29/1999 | NA                 | NA          | NA          | NA          | NA          | NA                     | NA                     | NA           | 6.00                       | NA                       | NA                       | NA                        | 3.8                    | -132                   |
| TB-1    | 11/01/1999 | NA                 | NA          | NA          | NA          | NA          | NA                     | NA                     | NA           | 12.65                      | NA                       | NA                       | NA                        | 0.2                    | -165                   |
| TB-1    | 01/17/2000 | NA                 | NA          | NA          | NA          | NA          | NA                     | NA                     | NA           | 7.72                       | NA                       | NA                       | NA                        | 0.8                    | -178                   |
| TB-1    | 04/17/2000 | NA                 | NA          | NA          | NA          | NA          | NA                     | NA                     | NA           | 7.65                       | NA                       | NA                       | NA                        | 0.5                    | -152                   |
| TB-1    | 07/26/2000 | NA                 | NA          | NA          | NA          | NA          | NA                     | NA                     | NA           | 5.13                       | NA                       | NA                       | NA                        | 1.0                    | -124                   |
| TB-1    | 10/12/2000 | NA                 | NA          | NA          | NA          | NA          | NA                     | NA                     | NA           | 5.20                       | NA                       | NA                       | NA                        | 0.7                    | -73                    |
| TB-1    | 01/15/2001 | NA                 | NA          | NA          | NA          | NA          | NA                     | NA                     | NA           | 5.09                       | NA                       | NA                       | NA                        | 1.2                    | -118                   |
| TB-1    | 04/09/2001 | NA                 | NA          | NA          | NA          | NA          | NA                     | NA                     | NA           | 4.96                       | NA                       | NA                       | NA                        | 1.0                    | -72                    |
| TB-1    | 07/24/2001 | NA                 | NA          | NA          | NA          | NA          | NA                     | NA                     | NA           | 6.03                       | NA                       | NA                       | NA                        | 1.4                    | 31                     |
| TB-1    | 10/31/2001 | 1,000              | 85          | <10         | <10         | 42          | NA                     | 4,100                  | NA           | 5.89                       | NA                       | NA                       | NA                        | 1.8                    | 88                     |
| TB-1    | 01/10/2002 | 5,000              | 410         | 390         | 65          | 620         | NA                     | 9,000                  | NA           | 7.47                       | NA                       | NA                       | NA                        | 2.0                    | 95                     |
| TB-1    | 04/25/2002 | 5,000              | 780         | 60          | 49          | 91          | NA                     | 6,000                  | NA           | 11.71                      | NA                       | NA                       | NA                        | 1.7                    | -136                   |
| TB-1    | 07/18/2002 | Insufficient water |             | NA          | NA          | NA          | NA                     | NA                     | NA           | 13.50                      | NA                       | NA                       | NA                        | NA                     | NA                     |



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4255 MacArthur Boulevard**  
**Oakland, CA**

| Well ID | Date | TPPH<br>(ug/L) | B<br>(ug/L) | T<br>(ug/L) | E<br>(ug/L) | X<br>(ug/L) | MTBE<br>8020<br>(ug/L) | MTBE<br>8260<br>(ug/L) | TOC<br>(MSL) | Depth to<br>Water<br>(ft.) | Depth to<br>SPH<br>(ft.) | GW<br>Elevation<br>(MSL) | SPH<br>Thickness<br>(ft.) | DO<br>Reading<br>(ppm) | ORP<br>Reading<br>(mV) |
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|--------------------------|---------------------------|------------------------|------------------------|
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|--------------------------|---------------------------|------------------------|------------------------|

|      |            |       |     |       |       |      |    |       |    |       |    |    |    |     |     |
|------|------------|-------|-----|-------|-------|------|----|-------|----|-------|----|----|----|-----|-----|
| TB-1 | 10/07/2002 | 4,600 | 480 | 36    | 98    | 200  | NA | 4,000 | NA | 12.95 | NA | NA | NA | 1.6 | -48 |
| TB-1 | 01/06/2003 | 130   | 30  | <0.50 | <0.50 | 0.78 | NA | 330   | NA | 5.56  | NA | NA | NA | 0.4 | -20 |

|      |            |         |       |       |       |        |        |        |    |       |    |    |    |     |      |
|------|------------|---------|-------|-------|-------|--------|--------|--------|----|-------|----|----|----|-----|------|
| TB-2 | 04/29/1999 | NA      | NA    | NA    | NA    | NA     | NA     | NA     | NA | 4.76  | NA | NA | NA | 4.2 | -108 |
| TB-2 | 11/01/1999 | NA      | NA    | NA    | NA    | NA     | NA     | NA     | NA | 11.33 | NA | NA | NA | 0.5 | -148 |
| TB-2 | 01/17/2000 | NA      | NA    | NA    | NA    | NA     | NA     | NA     | NA | 9.79  | NA | NA | NA | 0.7 | -162 |
| TB-2 | 04/17/2000 | NA      | NA    | NA    | NA    | NA     | NA     | NA     | NA | 9.75  | NA | NA | NA | 0.9 | -121 |
| TB-2 | 07/26/2000 | NA      | NA    | NA    | NA    | NA     | NA     | NA     | NA | 4.73  | NA | NA | NA | 0.9 | -85  |
| TB-2 | 10/12/2000 | NA      | NA    | NA    | NA    | NA     | NA     | NA     | NA | 4.05  | NA | NA | NA | 0.6 | -47  |
| TB-2 | 01/15/2001 | NA      | NA    | NA    | NA    | NA     | NA     | NA     | NA | 3.87  | NA | NA | NA | 0.7 | -91  |
| TB-2 | 04/09/2001 | 46,600  | 1,240 | 1,310 | 1,110 | 12,100 | 31,300 | NA     | NA | 3.76  | NA | NA | NA | 0.8 | -24  |
| TB-2 | 07/24/2001 | 11,000  | 630   | <25   | 310   | 200    | NA     | 11,000 | NA | 4.75  | NA | NA | NA | 0.4 | -51  |
| TB-2 | 10/31/2001 | 7,500   | 530   | 1,500 | 100   | 500    | NA     | 2,500  | NA | 4.24  | NA | NA | NA | 0.6 | -7   |
| TB-2 | 01/10/2002 | <5,000  | 480   | 47    | 34    | 110    | NA     | 12,000 | NA | 6.26  | NA | NA | NA | 1.3 | -81  |
| TB-2 | 04/25/2002 | 4,700   | 470   | 140   | <20   | 80     | NA     | 7,400  | NA | 11.78 | NA | NA | NA | 0.9 | -107 |
| TB-2 | 07/18/2002 | 7,500   | 630   | 650   | <25   | 390    | NA     | 44,000 | NA | 12.34 | NA | NA | NA | 0.9 | -67  |
| TB-2 | 10/07/2002 | <10,000 | 580   | <100  | <100  | 180    | NA     | 30,000 | NA | 11.62 | NA | NA | NA | 1.0 | -41  |
| TB-2 | 01/06/2003 | 120     | 4.8   | <0.50 | <0.50 | 2.0    | NA     | 220    | NA | 4.35  | NA | NA | NA | 0.5 | -515 |

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4255 MacArthur Boulevard**  
**Oakland, CA**

| Well ID | Date | TPPH<br>(ug/L) | B<br>(ug/L) | T<br>(ug/L) | E<br>(ug/L) | X<br>(ug/L) | MTBE<br>8020<br>(ug/L) | MTBE<br>8260<br>(ug/L) | TOC<br>(MSL) | Depth to<br>Water<br>(ft.) | Depth to<br>SPH<br>(ft.) | GW<br>Elevation<br>(MSL) | SPH<br>Thickness<br>(ft.) | DO<br>Reading<br>(ppm) | ORP<br>Reading<br>(mV) |
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|--------------------------|---------------------------|------------------------|------------------------|
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|--------------------------|---------------------------|------------------------|------------------------|

**Abbreviations:**

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to July 24, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to July 24, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

NA = Not applicable

DO = Dissolved Oxygens

ppm = Parts per million

ORP = Oxidation Reduction Potential

mV = Millivolts

**Notes:**

\* = Sample analyzed outside the EPA recommended holding time.

a = Ground water surface had a sheen when sampled.

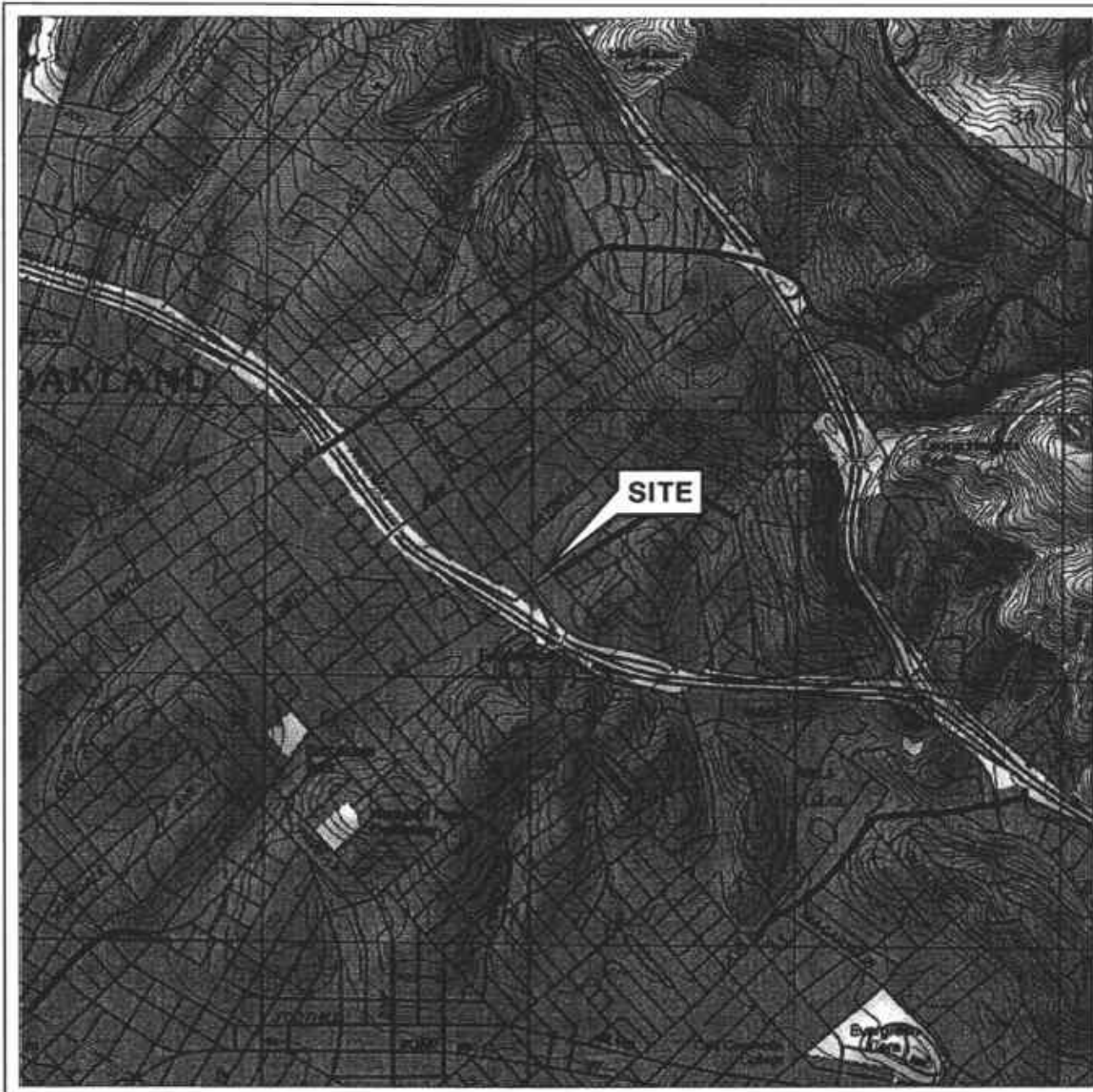
b = MTBE value is estimated by Sequoia Analytical of Redwood City, California.

Site surveyed March 14, 2002, by Virgil Chavez Land Surveying of Vallejo, California.

When separate-phase hydrocarbons are present, ground water elevation is adjusted using the relation:

Corrected ground water elevation = Top-of-casing elevation - depth to water + (0.8 x hydrocarbon thickness).

# FIGURES



0 1/4 1/2 3/4 1 MILE



SCALE 1:24,000



**SOURCE:**

United States Geological Survey  
7.5 Minute Topographic Map:  
Oakland East Quadrangle



QUADRANGLE  
LOCATION

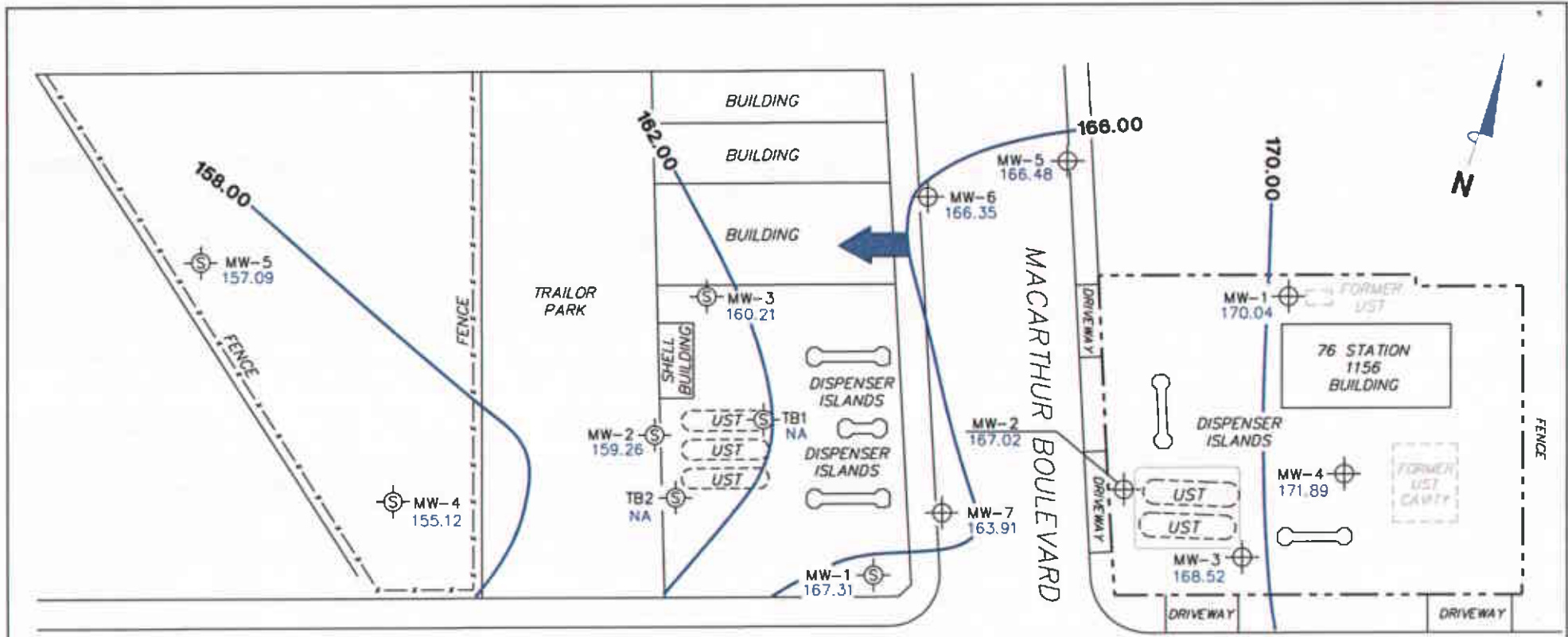
**VICINITY MAP**

76 Station 1156  
4276 MacArthur Boulevard  
Oakland, California

**FIGURE 1**

P.S = 1:1

**TRC**



HIGH STREET

**NOTES:**

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank. Shell data provided by Blaine Tech. Services. NA = not analyzed, measured, or collected.

**LEGEND**

- MW-7 ⊕ Monitoring Well with Groundwater Elevation (feet)
- MW-14 ⊕ Shell Monitoring Well with Groundwater Elevation
- 170.00 — Groundwater Elevation Contour
- ➡ General Direction of Groundwater Flow

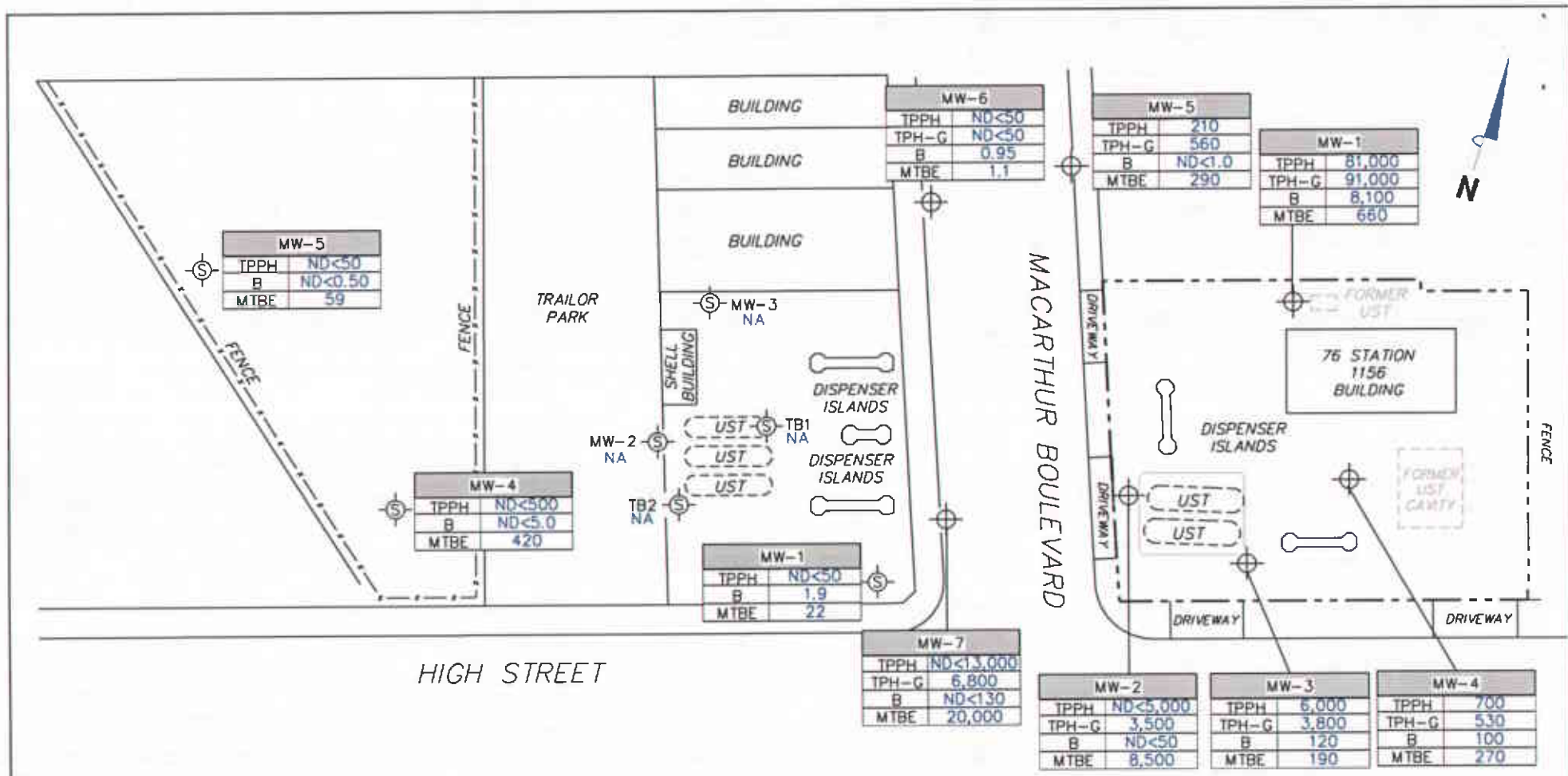
**GROUNDWATER ELEVATION  
CONTOUR MAP  
October 9, 2003**

76 Station 1156  
4276 MacArthur Boulevard  
Oakland, California

**FIGURE 2**

**TRC**





**NOTES:**

TPPH = total purgeable petroleum hydrocarbons.  
 TPH-G = total petroleum hydrocarbons as gasoline.  
 B = benzene. MTBE = methyl tertiary butyl ether.  
 µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected. UST = underground storage tank. TPPH and MTBE results obtained using EPA Method 8260B. TPH-G results obtained using EPA Method 8015. TPH-G results sampled on 11/14/03. Shell Station results provided by Blaine Tech. Services.

**LEGEND**

| Well No. | TPPH | TPH-G | B    | MTBE |
|----------|------|-------|------|------|
|          | µg/l | µg/l  | µg/l | µg/l |

⊕ Monitoring Well with Dissolved-Phase Hydrocarbon Concentrations (µg/l)

MW-1 ⊕ Shell Monitoring Well with Dissolved-Phase Hydrocarbon Concentrations (µg/l)

**DISSOLVED-PHASE HYDROCARBON CONCENTRATIONS MAP**  
 October 9 and November 14, 2003

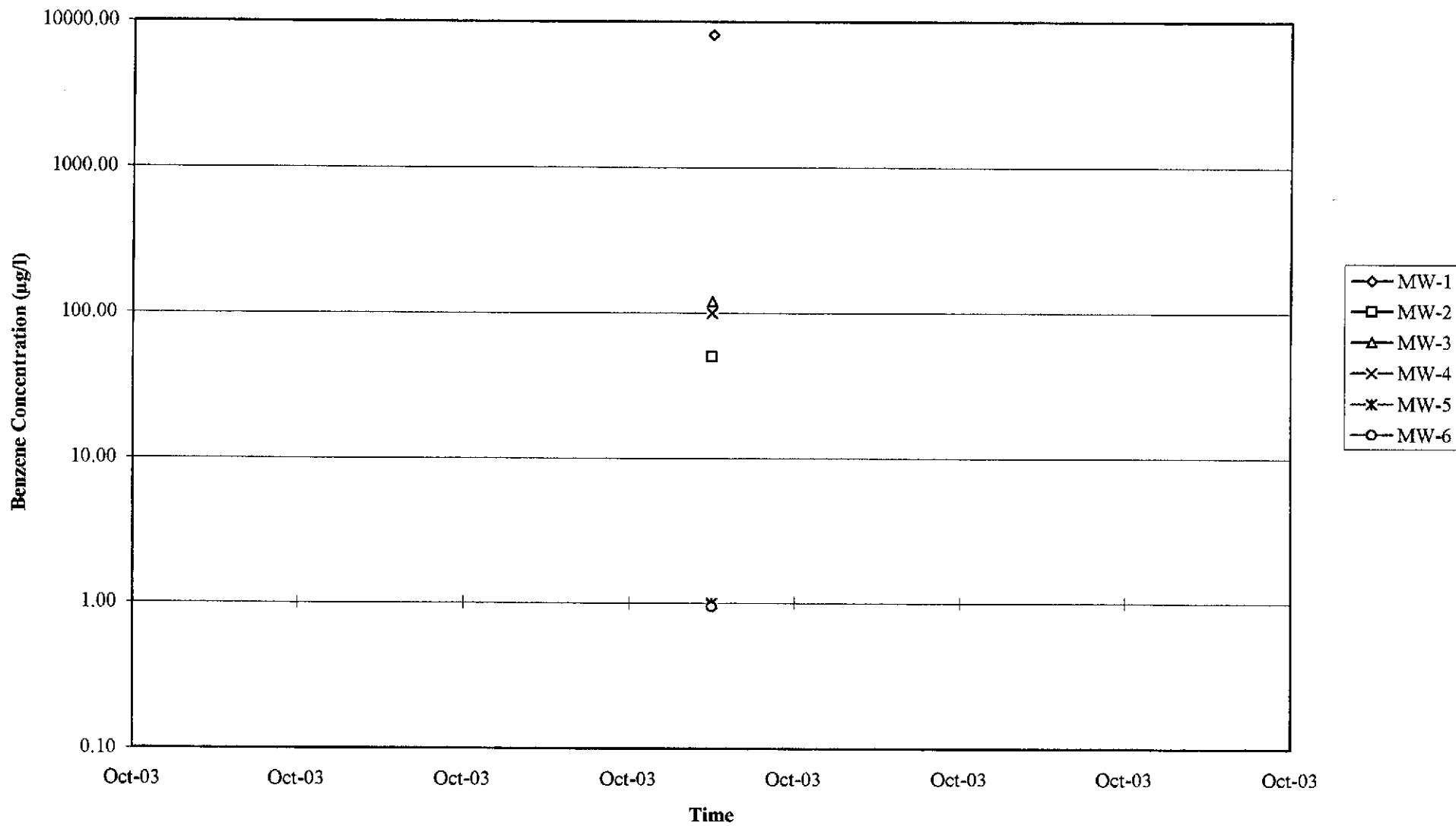
76 Station 1156  
 4276 MacArthur Boulevard  
 Oakland, California

**FIGURE 3**



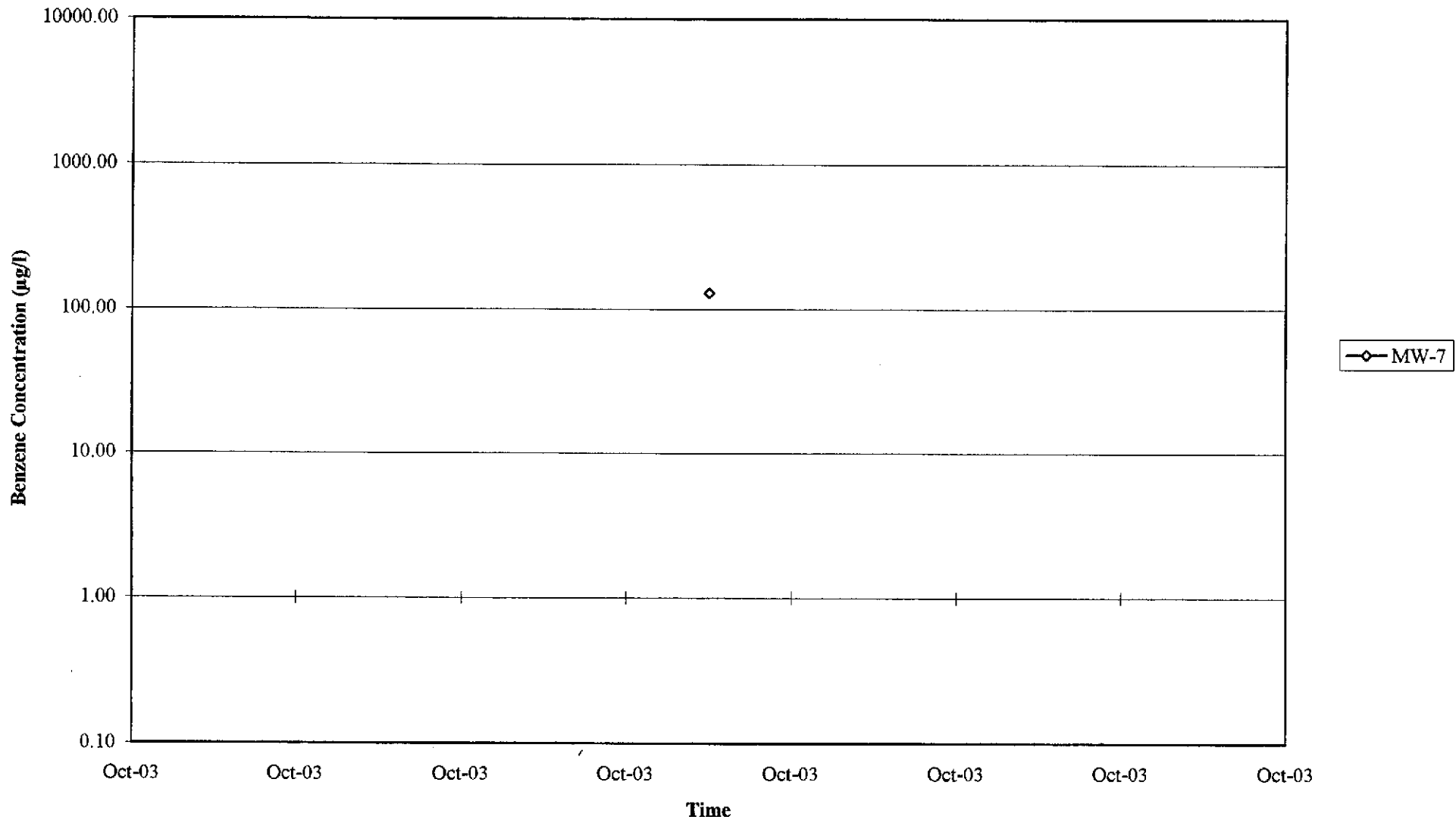
# GRAPHS

Graph 1  
Benzene Concentrations vs. Time  
76 Station 1156

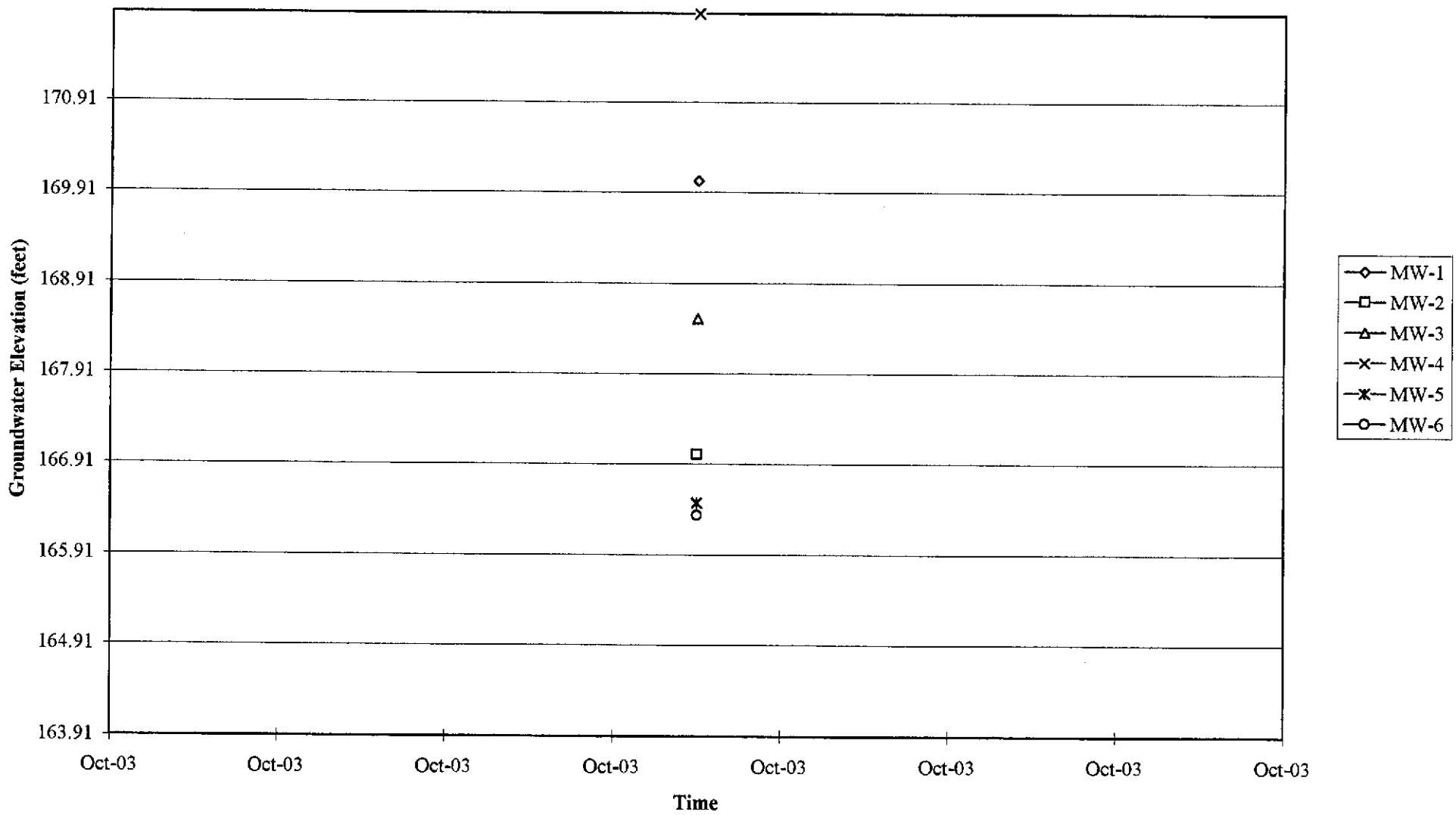




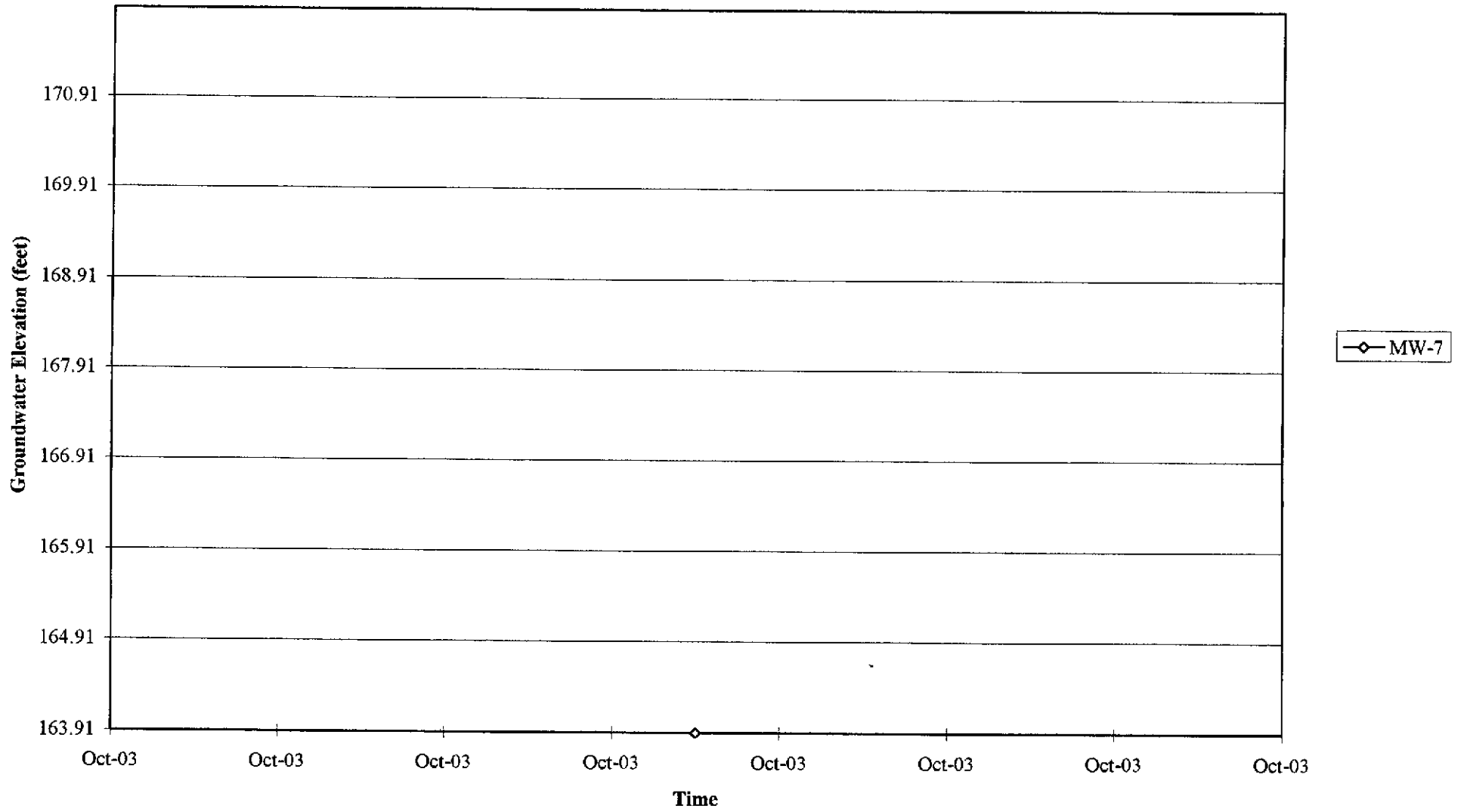
Graph 2  
Benzene Concentrations vs. Time  
76 Station 1156



Graph 3  
Hydrograph  
76 Station 1156



Graph 4  
Hydrograph  
76 Station 1156



## GENERAL FIELD PROCEDURES

### **Groundwater Monitoring and Sampling Assignments**

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater monitoring and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

### **Fluid Level Measurements**

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage, or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Wells that are found to contain LPH are not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed. Bailed fluids are placed in a container separate from normal purge water, and properly disposed.

### **Purging and Groundwater Parameter Measurement**

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurement are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously until they become stable in general accordance with EPA guidelines.

Purge water is generally collected in labeled drums for disposal. Drums may be left on site for disposal by others, or transported to a collection location for eventual transfer to a licensed treatment or recycling facility. In some cases, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

### **Groundwater Sample Collection**

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

Samples are collected by lowering a new, disposable, ½-inch to 4-inch polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

After filling, all containers are labeled with project number (or site number), well designation, sample date, and the samplers initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

### **Sequence of Gauging, Purging, and Sampling**

The sequence in which monitoring activities are conducted are specified on the TSR. In general, wells are gauged beginning with the least-affected well and ending with the well that has highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected well to the most-affected well.

### **Decontamination**

In order to reduce the possibility of cross-contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated to a particular well, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liqui-nox and water and rinsing twice. The final rinse is in deionized water.

### **Exceptions**

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, and noted on the site TSR, are documented in field notes on the following pages.



# GROUNDWATER SAMPLING FIELD NOTES

Technician: ALEX

Site: 1156

Project No.: 110500-01/FA20

Date: 10-9-03

Well No. MW-6

Purge Method: \_\_\_\_\_

Depth to Water (feet): 2.69

Depth to Product (feet): 0

Total Depth (feet): 24.45

LPH & Water Recovered (gallons): 0

Water Column (feet): 21.76

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 7.04

Borehole Diameter (Inches): 0

1 Borehole Volume (gallons): \_\_\_\_\_

| Time Start             | Time Stop   | Depth to Water (feet) | Volume Purged (gallons) | Conductivity (uS/cm) | Temperature (F, C) | pH          | Turbidity | D.O |
|------------------------|-------------|-----------------------|-------------------------|----------------------|--------------------|-------------|-----------|-----|
| <u>0126</u>            |             |                       | <u>4</u>                | <u>668</u>           | <u>16.0</u>        | <u>7.84</u> |           |     |
|                        |             |                       | <u>8</u>                | <u>673</u>           | <u>18.4</u>        | <u>7.23</u> |           |     |
|                        | <u>0135</u> |                       | <u>12</u>               | <u>667</u>           | <u>18.9</u>        | <u>7.17</u> |           |     |
| Static at Time Sampled |             | Total Gallons Purged  |                         |                      | Sample Time        |             |           |     |
| <u>3.65</u>            |             | <u>12</u>             |                         |                      | <u>0235</u>        |             |           |     |
| Comments:              |             |                       |                         |                      |                    |             |           |     |

Well No. MW-7

Purge Method: \_\_\_\_\_

Depth to Water (feet): 7.73

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet): 25.44

LPH & Water Recovered (gallons): \_\_\_\_\_

Water Column (feet): 17.71

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 11.27

Borehole Diameter (Inches): 0

1 Borehole Volume (gallons): 3

| Time Start             | Time Stop   | Depth to Water (feet) | Volume Purged (gallons) | Conductivity (uS/cm) | Temperature (F, C) | pH          | Turbidity | D.O |
|------------------------|-------------|-----------------------|-------------------------|----------------------|--------------------|-------------|-----------|-----|
| <u>0156</u>            |             |                       | <u>3</u>                | <u>469</u>           | <u>17.7</u>        | <u>7.21</u> |           |     |
|                        |             |                       | <u>6</u>                | <u>1027</u>          | <u>19.7</u>        | <u>7.0</u>  |           |     |
|                        | <u>0206</u> |                       | <u>9</u>                | <u>1029</u>          | <u>19.6</u>        | <u>6.98</u> |           |     |
| Static at Time Sampled |             | Total Gallons Purged  |                         |                      | Sample Time        |             |           |     |
| <u>1.20</u>            |             | <u>9</u>              |                         |                      | <u>0258</u>        |             |           |     |
| Comments:              |             |                       |                         |                      |                    |             |           |     |

| Borehole Volume Constants | Casing/Borehole Diameter   | 2"/8" | 4"/8" | 4"/10"        | 6"/10" | 6"/12"        |
|---------------------------|----------------------------|-------|-------|---------------|--------|---------------|
|                           | Borehole Constant (gal/ft) | 0.88  | 1.19  | <u>(1.63)</u> | 2.16   | <u>(3.07)</u> |

## GROUNDWATER SAMPLING FIELD NOTES

Site: 15C Project No.: 40-50-01 Date: 10-9  
 Well No. MW-1 Purge Method: 5  
 Depth to Water (feet): 7.50 Depth to Product (feet): 0  
 Total Depth (feet): 25.06 LPH & Water Recovered (gallons): 2"  
 Water Column (feet): 17.56 Casing Diameter (Inches): 0  
 80% Recharge Depth (feet): 11.01 1 Well Volume (gallons): 3

| Time Start  | Time Stop | Depth To Water (feet) | Volume Purged (gallons) | Conduc-tivity (uS/cm) | Temper-ature (F, C) | pH |
|---|-----------|-----------------------|-------------------------|-----------------------|---------------------|----|
| 0902  |           | 3                     | 7.75                    | 16.6                  | 7.25                |    |
|   | 0917      | 6                     | 9.35                    | 20.7                  | 7.30                |    |
|   |           | 9                     | 0                       | 0                     | 0                   |    |
|   |           |                       |                         |                       |                     |    |
|   |           |                       |                         |                       |                     |    |
|   |           |                       |                         |                       |                     |    |
|   |           |                       |                         |                       |                     |    |
|   |           |                       |                         |                       |                     |    |
|   |           |                       |                         |                       |                     |    |
|   |           |                       |                         |                       |                     |    |
| Static at Time Sampled                                    |           | Total Purged          |                         | Time Sampled          |                     |    |
| 11:03   |           | 6                     |                         | 11:20                 |                     |    |
| Comments: <u>DRY @ 6 Gallons / NOT RECOVERED IN 2 HRS</u> |           |                       |                         |                       |                     |    |

Site: \_\_\_\_\_ Project No.: \_\_\_\_\_  
 Well No. \_\_\_\_\_ Purge Method: \_\_\_\_\_  
 Depth to Water (feet): \_\_\_\_\_ Depth to Product (feet): \_\_\_\_\_  
 Total Depth (feet) \_\_\_\_\_ LPH & Water Recovered (gallons): \_\_\_\_\_  
 Water Column (feet): \_\_\_\_\_ Casing Diameter (Inches): \_\_\_\_\_  
 80% Recharge Depth (feet): \_\_\_\_\_ 1 Well Volume (gallons): \_\_\_\_\_

| Time Start             | Time Stop | Depth To Water (feet) | Volume Purged (gallons) | Conduc-tivity (uS/cm) | Temper-ature (F, C) | pH |
|------------------------|-----------|-----------------------|-------------------------|-----------------------|---------------------|----|
|                        |           |                       |                         |                       |                     |    |
|                        |           |                       |                         |                       |                     |    |
|                        |           |                       |                         |                       |                     |    |
|                        |           |                       |                         |                       |                     |    |
|                        |           |                       |                         |                       |                     |    |
|                        |           |                       |                         |                       |                     |    |
|                        |           |                       |                         |                       |                     |    |
|                        |           |                       |                         |                       |                     |    |
|                        |           |                       |                         |                       |                     |    |
|                        |           |                       |                         |                       |                     |    |
| Static at Time Sampled |           | Total Purged          |                         | Time Sampled          |                     |    |
| Comments:              |           |                       |                         |                       |                     |    |



# GROUNDWATER SAMPLING FIELD NOTES

Technician: ALEX M.

Site: 1150

Project No.: 410-500-01/FA20

Date: 10-9-03

Well No. MW-2

Purge Method: S

Depth to Water (feet): 6.48

Depth to Product (feet): 0

Total Depth (feet) 25.11

LPH & Water Recovered (gallons): 0

Water Column (feet): 18.63

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 1020

Borehole Diameter (Inches): 0

1 Borehole Volume (gallons): 3

| Time Start                              | Time Stop | Depth to Water (feet) | Volume Purged (gallons) | Conductivity (uS/cm) | Temperature (F, C) | pH   | Turbidity | D.O. |
|---|-----------|-----------------------|-------------------------|----------------------|--------------------|------|-----------|------|
| 717                                     |           |                       | 3                       | 499                  | 15.9               | 8.61 |           |      |
|   |           |                       | 6                       | 710                  | 16.8               | 7.20 |           |      |
|   | 0725      |                       | 9                       | 718                  | 21.8               | 7.09 |           |      |
| Static at Time Sampled                  |           | Total Gallons Purged  |                         |                      | Sample Time        |      |           |      |
| 1321                                    |           | 9                     |                         |                      | 0930               |      |           |      |
| Comments: <u>NOT RECOVERED IN 2 HRS</u> |           |                       |                         |                      |                    |      |           |      |

Well No. MW-5

Purge Method: S

Depth to Water (feet): 2.70

Depth to Product (feet): 0

Total Depth (feet) 25.32

LPH & Water Recovered (gallons): 0

Water Column (feet): 22.62

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 1.22

Borehole Diameter (Inches): 0

1 Borehole Volume (gallons): 4

| Time Start             | Time Stop | Depth to Water (feet) | Volume Purged (gallons) | Conductivity (uS/cm) | Temperature (F, C) | pH   | Turbidity | D.O. |
|------------------------|-----------|-----------------------|-------------------------|----------------------|--------------------|------|-----------|------|
| 0754                   |           |                       | 4                       | 811                  | 17.0               | 7.23 |           |      |
|                        |           |                       | 8                       | 873                  | 18.4               | 7.87 |           |      |
|                        | 0800      |                       | 12                      | 808                  | 19.5               | 7.37 |           |      |
| Static at Time Sampled |           | Total Gallons Purged  |                         |                      | Sample Time        |      |           |      |
| 320                    |           | 12                    |                         |                      | 0205               |      |           |      |
| Comments:              |           |                       |                         |                      |                    |      |           |      |

| Borehole Volume Constants | Casing/Borehole Diameter   | 2"/8" | 4"/8" | 4"/10" | 6"/10" | 6"/12" |
|---------------------------|----------------------------|-------|-------|--------|--------|--------|
|                           | Borehole Constant (gal/ft) | 0.88  | 1.19  | 1.63   | 2.16   | 3.07   |

# GROUNDWATER SAMPLING FIELD NOTES

Technician: ALEX

Site: 1156

Project No.: 40-500-01/FA20

Date: 10-9-03

Well No. MW-4

Purge Method: S

Depth to Water (feet): 7.07

Depth to Product (feet): 0

Total Depth (feet): 25.24

LPH & Water Recovered (gallons): 0

Water Column (feet): 18.17

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 10.76

Borehole Diameter (Inches): 0

1 Borehole Volume (gallons): 3

| Time Start | Time Stop | Depth to Water (feet)  | Volume Purged (gallons) | Conductivity (uS/cm) | Temperature (F, C) | pH   | Turbidity | D.O |
|------------|-----------|------------------------|-------------------------|----------------------|--------------------|------|-----------|-----|
| 0747       |           |                        | 3                       | 848                  | 19.7               | 7.06 |           |     |
|            |           |                        | 6                       | 849                  | 22.1               | 6.95 |           |     |
|            | 0754      |                        | 9                       | 870                  | 22.3               | 6.90 |           |     |
|            |           | Static at Time Sampled | Total Gallons Purged    |                      | Sample Time        |      |           |     |
|            |           | 8.71                   | 9                       |                      | 1:00               |      |           |     |
| Comments:  |           |                        |                         |                      |                    |      |           |     |

Well No. MW-3

Purge Method: S

Depth to Water (feet): 9.61

Depth to Product (feet): 0

Total Depth (feet): 24.96

LPH & Water Recovered (gallons): 0

Water Column (feet): 15.35

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 12.68

Borehole Diameter (Inches): 0

1 Borehole Volume (gallons): 3

| Time Start | Time Stop | Depth to Water (feet)  | Volume Purged (gallons) | Conductivity (uS/cm) | Temperature (F, C) | pH   | Turbidity | D.O |
|------------|-----------|------------------------|-------------------------|----------------------|--------------------|------|-----------|-----|
| 0814       |           |                        | 3                       | 870                  | 19.4               | 6.89 |           |     |
|            |           |                        | 6                       | 742                  | 21.5               | 6.98 |           |     |
|            | 0825      |                        | 9                       | 745                  | 21.6               | 7.01 |           |     |
|            |           | Static at Time Sampled | Total Gallons Purged    |                      | Sample Time        |      |           |     |
|            |           | 10:33                  | 9                       |                      | 10:15              |      |           |     |
| Comments:  |           |                        |                         |                      |                    |      |           |     |

| Borehole Volume Constants | Casing/Borehole Diameter   | 2"/8" | 4"/8" | 4"/10" | 6"/10" | 6"/12" |
|---------------------------|----------------------------|-------|-------|--------|--------|--------|
|                           | Borehole Constant (gal/ft) | 0.88  | 1.19  | (1.63) | 2.16   | (3.07) |



**GROUNDWATER SAMPLING FIELD NOTES**

Technician: ALEX

Site: 1156

Project No.: 410 500 01

Date: 11-14

Well No.: MW-7

Purge Method: SUB

Depth to Water (feet): ~~25.19~~ 7.72

Depth to Product (feet): 0

Total Depth (feet): ~~7.72~~ 25.19

LPH & Water Recovered (gallons): 0

Water Column (feet): 17.47

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 11.21

1 Well Volume (gallons): 3

| Time Start             | Time Stop | Depth To Water (feet) | Volume Purged (gallons) | Conductivity (uS/cm) | Temperature (F, C) | pH   | Turbidity | D.O. |
|------------------------|-----------|-----------------------|-------------------------|----------------------|--------------------|------|-----------|------|
| 0450                   |           |                       | 3                       | 480                  | 16.0               | 7.11 |           |      |
|                        |           |                       | 4                       | 933                  | 16.0               | 6.93 |           |      |
|                        | 0458      |                       | 9                       | 953                  | 18.4               | 6.94 |           |      |
| Static at Time Sampled |           |                       | Total Gallons Purged    |                      | Time Sampled       |      |           |      |
| 1109                   |           |                       | 9                       |                      | 0510               |      |           |      |
| Comments:              |           |                       |                         |                      |                    |      |           |      |

Well No.: MW-6

Purge Method: SUB

Depth to Water (feet): 2.71

Depth to Product (feet): 0

Total Depth (feet): 24.81

LPH & Water Recovered (gallons): 0

Water Column (feet): 22.10

Casing Diameter (Inches): 2'

80% Recharge Depth (feet): 7.13

1 Well Volume (gallons): 4

| Time Start             | Time Stop | Depth To Water (feet) | Volume Purged (gallons) | Conductivity (uS/cm) | Temperature (F, C) | pH   | Turbidity | D.O. |
|------------------------|-----------|-----------------------|-------------------------|----------------------|--------------------|------|-----------|------|
| 0533                   |           |                       | 4                       | 642                  | 17.7               | 7.04 |           |      |
|                        |           |                       | 8                       | 642                  | 18.4               | 7.03 |           |      |
|                        | 0540      |                       | 12                      | 639                  | 18.5               | 7.02 |           |      |
| Static at Time Sampled |           |                       | Total Gallons Purged    |                      | Time Sampled       |      |           |      |
| 485                    |           |                       | 12                      |                      | 0550               |      |           |      |
| Comments:              |           |                       |                         |                      |                    |      |           |      |

### GROUNDWATER SAMPLING FIELD NOTES

Technician: AMEX

Site: 1156

Project No.: 4105001

Date: 11-14

Well No.: MW-5

Purge Method: SBB

Depth to Water (feet): 2.72

Depth to Product (feet): -6

Total Depth (feet): 25.11

LPH & Water Recovered (gallons): -6

Water Column (feet): 22.39

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 7.19

1 Well Volume (gallons): 4

| Time Start             | Time Stop | Depth To Water (feet) | Volume Purged (gallons) | Conduc-tivity (uS/cm) | Temperature (F, C) | pH           | Turbidity | D.O. |
|------------------------|-----------|-----------------------|-------------------------|-----------------------|--------------------|--------------|-----------|------|
| 0641                   |           |                       | 4                       | 520                   | 17.1               | 7.05         |           |      |
|                        | 6         |                       | 8                       | 656                   | 18.6               | 7.02         |           |      |
|                        | 0653      |                       | 12                      | 7.05                  | 18.5               | 7.05         |           |      |
| Static at Time Sampled |           |                       | Total Gallons Purged    |                       |                    | Time Sampled |           |      |
| 412                    |           |                       | 12                      |                       |                    | 0707         |           |      |
| Comments:              |           |                       |                         |                       |                    |              |           |      |
|                        |           |                       |                         |                       |                    |              |           |      |

Well No.: MW-2

Purge Method: SBB

Depth to Water (feet): 7.16

Depth to Product (feet): 8

Total Depth (feet): 25.12

LPH & Water Recovered (gallons): 8

Water Column (feet): 17.96

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 10.75

1 Well Volume (gallons): 3

| Time Start             | Time Stop | Depth To Water (feet) | Volume Purged (gallons) | Conduc-tivity (uS/cm) | Temperature (F, C) | pH           | Turbidity | D.O. |
|------------------------|-----------|-----------------------|-------------------------|-----------------------|--------------------|--------------|-----------|------|
| 0747                   |           |                       | 3                       | 667                   | 17.1               | 7.03         |           |      |
|                        |           |                       | 6                       | 659                   | 19.7               | 6.94         |           |      |
|                        | 0756      |                       | 9                       | 6.87                  | 20.8               | 6.97         |           |      |
| Static at Time Sampled |           |                       | Total Gallons Purged    |                       |                    | Time Sampled |           |      |
| 1302                   |           |                       | 9                       |                       |                    | 1015         |           |      |
| Comments:              |           |                       |                         |                       |                    |              |           |      |
|                        |           |                       |                         |                       |                    |              |           |      |

**GROUNDWATER SAMPLING FIELD NOTES**

Technician: Alex M.

Site: 1156

Project No.: 410 500 a

Date: 11-14

Well No.: MW-4

Purge Method: SUB

Depth to Water (feet): 7.97

Depth to Product (feet): 0

Total Depth (feet): 25.25

LPH & Water Recovered (gallons): 0

Water Column (feet): 17.28

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 11.42

1 Well Volume (gallons): 3

| Time Start             | Time Stop | Depth To Water (feet) | Volume Purged (gallons) | Conduc-tivity (uS/cm) | Temperature (F. $\text{\textcircled{C}}$ ) | pH           | Turbidity | D.O. |
|------------------------|-----------|-----------------------|-------------------------|-----------------------|--|--------------|-----------|------|
| 0821                   |           |                       | 3                       | 690                   | 21.5                                       | 6.88         |           |      |
|                        |           |                       | 6                       | 750                   | 20.9                                       | 6.80         |           |      |
|                        | 0832      |                       | 9                       | 782                   | 21.2                                       | 6.83         |           |      |
| Static at Time Sampled |           |                       | Total Gallons Purged    |                       |  | Time Sampled |           |      |
| 1040                   |           |                       | 9                       |                       |  | 1045         |           |      |
| Comments:              |           |                       |                         |                       |  |              |           |      |
|                        |           |                       |                         |                       |  |              |           |      |

Well No.: MW-3

Purge Method: SUB

Depth to Water (feet): 9.39

Depth to Product (feet): 0

Total Depth (feet): 24.71

LPH & Water Recovered (gallons): 0

Water Column (feet): 15.32

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 12.45

1 Well Volume (gallons): 3

| Time Start             | Time Stop | Depth To Water (feet) | Volume Purged (gallons) | Conduc-tivity (uS/cm) | Temperature (F. $\text{\textcircled{C}}$ ) | pH           | Turbidity | D.O. |
|------------------------|-----------|-----------------------|-------------------------|-----------------------|--|--------------|-----------|------|
| 0858                   |           |                       | 3                       | 718                   | 18.4                                       | 7.01         |           |      |
|                        |           |                       | 6                       | 721                   | 20.2                                       | 6.97         |           |      |
|                        | 0910      |                       | 9                       | 705                   | 21.0                                       | 7.01         |           |      |
| Static at Time Sampled |           |                       | Total Gallons Purged    |                       |  | Time Sampled |           |      |
| 115                    |           |                       | 9                       |                       |  | 115          |           |      |
| Comments:              |           |                       |                         |                       |  |              |           |      |
|                        |           |                       |                         |                       |  |              |           |      |

### GROUNDWATER SAMPLING FIELD NOTES

Technician: ALEX

Site: 1156

Project No.: 410 500 01

Date: 11-14

Well No.: MW-1

Purge Method: SUB

Depth to Water (feet): 7.85

Depth to Product (feet): 0

Total Depth (feet): 25.06

LPH & Water Recovered (gallons): 0

Water Column (feet): 17-21

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 11.29

1 Well Volume (gallons): 3

| Time Start             | Time Stop | Depth To Water (feet) | Volume Purged (gallons) | Conduc-tivity (uS/cm) | Temperature (F <sup>⊙</sup> C) | pH           | Turbidity | D.O. |
|------------------------|-----------|-----------------------|-------------------------|-----------------------|--------------------------------|--------------|-----------|------|
| 0941                   |           |                       | 3                       | 688                   | 18.9                           | 7.09         |           |      |
|                        |           |                       | 6                       | 821                   | 19.4                           | 7.05         |           |      |
|                        | 0948      |                       | 9                       | 826                   | 19.0                           | 7.03         |           |      |
| Static at Time Sampled |           |                       | Total Gallons Purged    |                       |                                | Time Sampled |           |      |
| 1015                   |           |                       | 9                       |                       |                                | 1125         |           |      |
| Comments:              |           |                       |                         |                       |                                |              |           |      |
|                        |           |                       |                         |                       |                                |              |           |      |
|                        |           |                       |                         |                       |                                |              |           |      |

Well No.: \_\_\_\_\_

Purge Method: \_\_\_\_\_

Depth to Water (feet): \_\_\_\_\_

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet): \_\_\_\_\_

LPH & Water Recovered (gallons): \_\_\_\_\_

Water Column (feet): \_\_\_\_\_

Casing Diameter (Inches): \_\_\_\_\_

80% Recharge Depth (feet): \_\_\_\_\_

1 Well Volume (gallons): \_\_\_\_\_

| Time Start             | Time Stop | Depth To Water (feet) | Volume Purged (gallons) | Conduc-tivity (uS/cm) | Temperature (F, C) | pH           | Turbidity | D.O. |
|------------------------|-----------|-----------------------|-------------------------|-----------------------|--------------------|--------------|-----------|------|
|                        |           |                       |                         |                       |                    |              |           |      |
|                        |           |                       |                         |                       |                    |              |           |      |
|                        |           |                       |                         |                       |                    |              |           |      |
| Static at Time Sampled |           |                       | Total Gallons Purged    |                       |                    | Time Sampled |           |      |
|                        |           |                       |                         |                       |                    |              |           |      |
| Comments:              |           |                       |                         |                       |                    |              |           |      |
|                        |           |                       |                         |                       |                    |              |           |      |
|                        |           |                       |                         |                       |                    |              |           |      |

## TRC Alton Geoscience

December 02, 2003

21 Technology Drive  
Irvine, CA 92718

Attn.: Anju Farfan

Project#: 41050001FA20

Project: Conoco Phillips #1156

Site: 4276 Mac Arthur, Oakland

Attached is our report for your samples received on 11/17/2003 16:46

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 01/01/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: [dsharma@stl-inc.com](mailto:dsharma@stl-inc.com)

Sincerely,



Dimple Sharma  
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* [www.stl-inc.com](http://www.stl-inc.com) \* CA DHS ELAP# 2496



Gasoline

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20  
Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

Samples Reported

| Sample Name | Date Sampled     | Matrix | Lab # |
|-------------|------------------|--------|-------|
| MW-7        | 11/14/2003 05:10 | Water  | 1     |
| MW-6        | 11/14/2003 05:50 | Water  | 2     |
| MW-5        | 11/14/2003 07:07 | Water  | 3     |
| MW-2        | 11/14/2003 10:15 | Water  | 4     |
| MW-4        | 11/14/2003 10:45 | Water  | 5     |
| MW-3        | 11/14/2003 11:15 | Water  | 6     |
| MW-1        | 11/14/2003 11:25 | Water  | 7     |

Gasoline

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

|            |                  |            |                  |
|------------|------------------|------------|------------------|
| Prep(s):   | 5030             | Test(s):   | 8015M            |
| Sample ID: | MW-7             | Lab ID:    | 2003-11-0631 - 1 |
| Sampled:   | 11/14/2003 05:10 | Extracted: | 11/19/2003 19:38 |
| Matrix:    | Water            | QC Batch#: | 2003/11/19-01.01 |

| Compound                 | Conc. | RL  | Unit | Dilution | Analyzed         | Flag |
|--------------------------|-------|-----|------|----------|------------------|------|
| Gasoline                 | 6800  | 500 | ug/L | 10.00    | 11/19/2003 19:38 | g    |
| <i>Surrogate(s)</i>      |       |     |      |          |                  |      |
| 4-Bromofluorobenzene-FID | 72.4  | 50  | %    | 10.00    | 11/19/2003 19:38 |      |

Gasoline

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Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

|            |                  |            |                  |
|------------|------------------|------------|------------------|
| Prep(s):   | 5030             | Test(s):   | 8015M            |
| Sample ID: | MW-6             | Lab ID:    | 2003-11-0631 - 2 |
| Sampled:   | 11/14/2003 05:50 | Extracted: | 11/19/2003 20:10 |
| Matrix:    | Water            | QC Batch#: | 2003/11/19-01.01 |

| Compound                 | Conc. | RL | Unit | Dilution | Analyzed         | Flag |
|--------------------------|-------|----|------|----------|------------------|------|
| Gasoline                 | ND    | 50 | ug/L | 1.00     | 11/19/2003 20:10 |      |
| <i>Surrogate(s)</i>      |       |    |      |          |                  |      |
| 4-Bromofluorobenzene-FID | 93.5  | 50 | %    | 1.00     | 11/19/2003 20:10 |      |

**Gasoline**

TRC Alton Geoscience

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Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

|            |                  |            |                  |
|------------|------------------|------------|------------------|
| Prep(s):   | 5030             | Test(s):   | 8015M            |
| Sample ID: | MW-5             | Lab ID:    | 2003-11-0631 - 3 |
| Sampled:   | 11/14/2003 07:07 | Extracted: | 11/19/2003 20:42 |
| Matrix:    | Water            | QC Batch#: | 2003/11/19-01.01 |

| Compound                 | Conc. | RL  | Unit | Dilution | Analyzed         | Flag |
|--------------------------|-------|-----|------|----------|------------------|------|
| Gasoline                 | 560   | 250 | ug/L | 5.00     | 11/19/2003 20:42 | g    |
| <b>Surrogate(s)</b>      |       |     |      |          |                  |      |
| 4-Bromofluorobenzene-FID | 91.4  | 50  | %    | 5.00     | 11/19/2003 20:42 |      |

Gasoline

TRC Alton Geoscience

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Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

|            |                  |            |                  |
|------------|------------------|------------|------------------|
| Prep(s):   | 5030             | Test(s):   | 8015M            |
| Sample ID: | MW-2             | Lab ID:    | 2003-11-0631 - 4 |
| Sampled:   | 11/14/2003 10:15 | Extracted: | 11/20/2003 18:47 |
| Matrix:    | Water            | QC Batch#: | 2003/11/20-01.01 |

| Compound                 | Conc. | RL   | Unit | Dilution | Analyzed         | Flag |
|--------------------------|-------|------|------|----------|------------------|------|
| Gasoline                 | 3500  | 2500 | ug/L | 50.00    | 11/20/2003 18:47 | g    |
| <i>Surrogate(s)</i>      |       |      |      |          |                  |      |
| 4-Bromofluorobenzene-FID | 86.7  | 50   | %    | 1.00     | 11/20/2003 18:47 |      |

Gasoline

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Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

|            |                  |            |                  |
|------------|------------------|------------|------------------|
| Prep(s):   | 5030             | Test(s):   | 8015M            |
| Sample ID: | MW-4             | Lab ID:    | 2003-11-0631 - 5 |
| Sampled:   | 11/14/2003 10:45 | Extracted: | 11/19/2003 21:46 |
| Matrix:    | Water            | QC Batch#: | 2003/11/19-01.01 |

| Compound                 | Conc. | RL  | Unit | Dilution | Analyzed         | Flag |
|--------------------------|-------|-----|------|----------|------------------|------|
| Gasoline                 | 530   | 250 | ug/L | 5.00     | 11/19/2003 21:46 | g    |
| <b>Surrogate(s)</b>      |       |     |      |          |                  |      |
| 4-Bromofluorobenzene-FID | 82.8  | 50  | %    | 5.00     | 11/19/2003 21:46 |      |

Gasoline

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Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

|            |                  |            |                  |
|------------|------------------|------------|------------------|
| Prep(s):   | 5030             | Test(s):   | 8015M            |
| Sample ID: | MW-3             | Lab ID:    | 2003-11-0631 - 6 |
| Sampled:   | 11/14/2003 11:15 | Extracted: | 11/19/2003 22:18 |
| Matrix:    | Water            | QC Batch#: | 2003/11/19-01:01 |

| Compound                 | Conc. | RL  | Unit | Dilution | Analyzed         | Flag |
|--------------------------|-------|-----|------|----------|------------------|------|
| Gasoline                 | 3800  | 250 | ug/L | 5.00     | 11/19/2003 22:18 |      |
| <b>Surrogate(s)</b>      |       |     |      |          |                  |      |
| 4-Bromofluorobenzene-FID | 79.2  | 50  | %    | 5.00     | 11/19/2003 22:18 |      |

Gasoline

TRC Alton Geoscience

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21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

|            |                  |            |                  |
|------------|------------------|------------|------------------|
| Prep(s):   | 5030             | Test(s):   | 8015M            |
| Sample ID: | MW-1             | Lab ID:    | 2003-11-0631 - 7 |
| Sampled:   | 11/14/2003 11:25 | Extracted: | 11/21/2003 17:24 |
| Matrix:    | Water            | QC Batch#: | 2003/11/21-01:05 |

| Compound                 | Conc. | RL    | Unit | Dilution | Analyzed         | Flag |
|--------------------------|-------|-------|------|----------|------------------|------|
| Gasoline                 | 91000 | 13000 | ug/L | 250.00   | 11/21/2003 17:24 |      |
| <b>Surrogate(s)</b>      |       |       |      |          |                  |      |
| 4-Bromofluorobenzene-FID | 88.3  | 50    | %    | 250.00   | 11/21/2003 17:24 |      |



Gasoline

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

Batch QC Report

Prep(s): 5030

Method Blank

MB: 2003/11/19-01.01-022

Water

Test(s): 8015M

QC Batch # 2003/11/19-01.01

Date Extracted: 11/19/2003 18:02

| Compound                 | Conc. | RL     | Unit | Analyzed         | Flag |
|--------------------------|-------|--------|------|------------------|------|
| Gasoline                 | ND    | 50     | ug/L | 11/19/2003 18:02 |      |
| <b>Surrogates(s)</b>     |       |        |      |                  |      |
| 4-Bromofluorobenzene-FID | 94.6  | 50-150 | %    | 11/19/2003 18:02 |      |

Gasoline

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

Batch QC Report

Prep(s): 5030

Method Blank

MB: 2003/11/20-01.01-005

Water

Test(s): 8015M

QC Batch # 2003/11/20-01.01

Date Extracted: 11/20/2003 09:28

| Compound                 | Conc. | RL     | Unit | Analyzed         | Flag |
|--------------------------|-------|--------|------|------------------|------|
| Gasoline                 | ND    | 50     | ug/L | 11/20/2003 09:28 |      |
| <b>Surrogates(s)</b>     |       |        |      |                  |      |
| 4-Bromofluorobenzene-FID | 98.4  | 50-150 | %    | 11/20/2003 09:28 |      |

Gasoline

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

Batch QC Report

Prep(s): 5030

Method Blank

MB: 2003/11/21-01.05-017

Water

Test(s): 8015M

QC Batch # 2003/11/21-01.05

Date Extracted: 11/21/2003 14:43

| Compound                 | Conc. | RL     | Unit | Analyzed         | Flag |
|--------------------------|-------|--------|------|------------------|------|
| Gasoline                 | ND    | 50     | ug/L | 11/21/2003 14:43 |      |
| <b>Surrogates(s)</b>     |       |        |      |                  |      |
| 4-Bromofluorobenzene-FID | 114.0 | 50-150 | %    | 11/21/2003 14:43 |      |

Gasoline

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2003/11/19-01.01

LCS 2003/11/19-01.01-023

Extracted: 11/19/2003

Analyzed: 11/19/2003 18:34

LCSD 2003/11/19-01.01-024

Extracted: 11/19/2003

Analyzed: 11/19/2003 19:06

| Compound   | Conc. ug/L |      | Exp. Conc. | Recovery % |      | RPD | Ctrl. Limits % |      | Flags |     |
|--|------------|------|------------|------------|------|-----|----------------|------|-------|-----|
|  | LCS        | LCSD |            | LCS        | LCSD |     | %              | Rec. | RPD   | LCS |
| Gasoline   | 454        | 462  | 500        | 90.8       | 92.4 | 1.7 | 75-125         | 20   |       |     |
| <i>Surrogates(s)</i><br>4-Bromofluorobenzene-FID | 428        | 446  | 500        | 85.6       | 89.2 |     | 50-150         |      |       |     |

**Gasoline**

TRC Alton Geoscience

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21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

**Batch QC Report**

Prep(s): 5030

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2003/11/20-01.01

LCS 2003/11/20-01.01-008

Extracted: 11/20/2003

Analyzed: 11/20/2003 11:04

LCSD 2003/11/20-01.01-009

Extracted: 11/20/2003

Analyzed: 11/20/2003 11:37

| Compound                 | Conc. ug/L |      | Exp.Conc. | Recovery % |       | RPD | Ctrl.Limits % |      | Flags |     |
|--------------------------|------------|------|-----------|------------|-------|-----|---------------|------|-------|-----|
|                          | LCS        | LCSD |           | LCS        | LCSD  |     | %             | Rec. | RPD   | LCS |
| Gasoline                 | 478        | 505  | 500       | 95.6       | 101.0 | 5.5 | 75-125        | 20   |       |     |
| <i>Surrogates(s)</i>     |            |      |           |            |       |     |               |      |       |     |
| 4-Bromofluorobenzene-FID | 484        | 484  | 500       | 96.8       | 96.8  |     | 50-150        |      |       |     |

Gasoline

TRC Alton Geoscience

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Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2003/11/21-01.05

LCS 2003/11/21-01.05-020

Extracted: 11/21/2003

Analyzed: 11/21/2003 16:20

LCSD 2003/11/21-01.05-021

Extracted: 11/21/2003

Analyzed: 11/21/2003 16:52

| Compound                 | Conc. ug/L |      | Exp.Conc. | Recovery % |      | RPD | Ctrl.Limits % |      | Flags |     |
|--------------------------|------------|------|-----------|------------|------|-----|---------------|------|-------|-----|
|                          | LCS        | LCSD |           | LCS        | LCSD |     | %             | Rec. | RPD   | LCS |
| Gasoline                 | 463        | 443  | 500       | 92.6       | 88.6 | 4.4 | 75-125        | 20   |       |     |
| <b>Surrogates(s)</b>     |            |      |           |            |      |     |               |      |       |     |
| 4-Bromofluorobenzene-FID | 482        | 469  | 500       | 96.4       | 93.8 |     | 50-150        |      |       |     |

Gasoline

TRC Alton Geoscience

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Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

---

Legend and Notes

---

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

STL-San Francisco

2003-11-0631

ConocoPhillips Chain Of Custody Record

80334

1220 Quarry Lane  
 Pleasanton, CA 94566  
 (925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:  
 INVOICE REMITTANCE ADDRESS:  
 CONOCOPHILLIPS  
 Attn: Dee Hutchinson  
 3611 South Harbor, Suite 200  
 Santa Ana, CA. 92704

ConocoPhillips Work Order Number:  
 ConocoPhillips Cost Object:  
 DATE: 11-17-03  
 PAGE: 1 of 2

SAMPLING COMPANY: TRC  
 Valid Value ID:  
 CONOCOPHILLIPS SITE NUMBER: 1156  
 GLOBAL ID NO.:

ADDRESS: 21 Technology Drive, Irvine CA 92618  
 SITE ADDRESS (Street and City): 4276 MAC ARTHUR  
 CONOCOPHILLIPS SITE MANAGER:

PROJECT CONTACT (Hardcopy or PDF Report to):  
 Anju Farfan  
 EOF DELIVERABLE TO (RP or Designee): Peter Thomson, TRC  
 PHONE NO.: 949-341-7408  
 E-MAIL: pthomson@trcsolutions.com  
 TELEPHONE: 949-341-7440 FAX: 949-753-0111 E-MAIL: afarfan@trcsolutions.com  
 LAB USE ONLY

SAMPLER NAME(S) (Print): ALEX M.  
 CONSULTANT PROJECT NUMBER: 41050001/FA20  
 REQUESTED ANALYSES

TURNAROUND TIME (CALENDAR DAYS):  
 14 DAYS  7 DAYS  72 HOURS  48 HOURS  24 HOURS  LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED

| 8015m - TPHd Extractable | 8260B - TPHg/BTEX/MBE | 8260B - TPHg / BTEX / 8<br>Oxygenates | 8260B - TPHg / BTEX / 8<br>oxygenates + methanol (8015M) | 8260B - Full Scan VOCs (does not<br>include oxygenates) | 8270C - Semi-Volatiles | 8015M / 8021B - TPHg/BTEX/MBE | Lead <input type="checkbox"/> Total <input type="checkbox"/> TLCLP | REQUESTED ANALYSES |   |      |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------|-----------------------|---------------------------------------|--|---|------------------------|-------------------------------|--|--------------------|---|------|--|--|--|--|--|--|--|--|--|--|--|
|                          |                       |                                       |  |   |                        |                               |  | TPH-G BY 8015M     | 3 | VDAS |  |  |  |  |  |  |  |  |  |  |  |

FIELD NOTES:  
 Container/Preservative  
 or PID Readings  
 or Laboratory Notes  
 5.5°C

\* Field Point name only required if different from Sample ID

| LAB USE ONLY | Sample Identification/Field Point Name* | SAMPLING |      | MATRIX | NO. OF CONT. |
|--------------|---|----------|------|--------|--------------|
|              |   | DATE     | TIME |        |              |
|              | MW-7                                    | 11-14    | 0510 | G.W    | 3            |
|              | MW-6                                    |          | 0550 |        |              |
|              | MW-5                                    |          | 0707 |        |              |
|              | MW-2                                    |          | 1015 |        |              |
|              | MW-4                                    |          | 1045 |        |              |
|              | MW-3                                    |          | 1115 |        |              |
|              | MW-1                                    |          | 1125 |        |              |

|   |   |                   |               |
|---|---|-------------------|---------------|
| Relinquished by: (Signature)<br>ALEX MARINI | Received by: (Signature)<br>[Signature] | Date:<br>11/17/03 | Time:<br>1010 |
| Relinquished by: (Signature)<br>[Signature] | Received by: (Signature)<br>[Signature] | Date:<br>11/17/03 | Time:<br>1646 |



**STL San Francisco**

### Sample Receipt Checklist

Submission #: 2003- 11 - 0631

Checklist completed by: (initials) DSH Date: 11/19/03

Courier name:  STL San Francisco  Client \_\_\_\_\_

Custody seals intact on shipping container/samples

Chain of custody present?

Chain of custody signed when relinquished and received?

Chain of custody agrees with sample labels?

Samples in proper container/bottle?

Sample containers intact?

Sufficient sample volume for indicated test?

All samples received within holding time?

Container/Temp Blank temperature in compliance ( $4^{\circ}C \pm 2$ )?

Water - VOA vials have zero headspace?

Yes \_\_\_ No \_\_\_ Not Present

Yes  No \_\_\_

Yes  No \_\_\_

Yes  No \_\_\_

Yes  No \_\_\_

Yes  No \_\_\_

Yes  No \_\_\_

Yes  No \_\_\_

Temp: 5.5°C Yes  No \_\_\_

Ice Present Yes  No \_\_\_

No VOA vials submitted \_\_\_ Yes \_\_\_ No \_\_\_

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~ O), M (medium ~ O) or L (large ~ O))

Water - pH acceptable upon receipt?  Yes  No

pH adjusted- Preservative used:  HNO<sub>3</sub>  HCl  H<sub>2</sub>SO<sub>4</sub>  NaOH  ZnOAc -Lot #(s) \_\_\_\_\_

For any item check-listed "No", provided detail of discrepancy in comment section below:

**Comments:**  
\_\_\_\_\_  
\_\_\_\_\_

#### Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) \_\_\_\_\_ Date: \_\_\_\_\_/\_\_\_\_\_/03

Client contacted:  Yes  No

Summary of discussion:  
\_\_\_\_\_  
\_\_\_\_\_

Corrective Action (per PM/Client):  
\_\_\_\_\_  
\_\_\_\_\_



STL

Submission#: 2003-10-0441

TRC Alton Geoscience

October 27, 2003

21 Technology Drive  
Irvine, CA 92718

Attn.: Anju Farfan  
Project#: 410500-01  
Project: 1156-003  
Site: 4276 MAC ARTHUR

Attached is our report for your samples received on 10/10/2003 16:32  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
11/24/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.

You can also contact me via email. My email address is: [asalimpour@stl-inc.com](mailto:asalimpour@stl-inc.com)

Sincerely,

Afsaneh Salimpour  
Project Manager

**Diesel**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 410500-01

1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

**Samples Reported**

| Sample Name | Date Sampled     | Matrix | Lab # |
|-------------|------------------|--------|-------|
| MW1         | 10/09/2003 11:20 | Water  | 7     |

**Diesel**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 410500-01

1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

|            |                  |            |                  |
|------------|------------------|------------|------------------|
| Prep(s):   | 3510/8015M       | Test(s):   | 8015M            |
| Sample ID: | MW1              | Lab ID:    | 2003-10-0441 - 7 |
| Sampled:   | 10/09/2003 11:20 | Extracted: | 10/18/2003 10:04 |
| Matrix:    | Water            | QC Batch#: | 2003/10/18-02.10 |

| Compound                           | Conc. | RL     | Unit | Dilution | Analyzed         | Flag |
|------------------------------------|-------|--------|------|----------|------------------|------|
| Diesel                             | 4300  | 50     | ug/L | 1.00     | 10/20/2003 12:01 | ndp  |
| <i>Surrogate(s)</i><br>o-Terphenyl | 79.4  | 60-130 | %    | 1.00     | 10/20/2003 12:01 |      |

**Diesel**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 410500-01

1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

| Batch QC Report          |       |                                  |
|--------------------------|-------|----------------------------------|
| Prep(s): 3510/8015M      |       | Test(s): 8015M                   |
| Method Blank             | Water | QC Batch # 2003/10/18-02.10      |
| MB: 2003/10/18-02.10-001 |       | Date Extracted: 10/18/2003 10:04 |

| Compound             | Conc. | RL     | Unit | Analyzed         | Flag |
|----------------------|-------|--------|------|------------------|------|
| Diesel               | ND    | 50     | ug/L | 10/20/2003 08:02 |      |
| <b>Surrogates(s)</b> |       |        |      |                  |      |
| o-Terphenyl          | 91.9  | 60-130 | %    | 10/20/2003 08:02 |      |

**Diesel**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 410500-01

1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

| Batch QC Report          |                      |                       |                             |
|--------------------------|----------------------|-----------------------|-----------------------------|
| Prep(s): 3510/8015M      |                      | Test(s): 8015M        |                             |
| Laboratory Control Spike |                      | Water                 | QC Batch # 2003/10/18-02.10 |
| LCS                      | 2003/10/18-02.10-002 | Extracted: 10/18/2003 | Analyzed: 10/20/2003 08:32  |
| LCSD                     | 2003/10/18-02.10-003 | Extracted: 10/18/2003 | Analyzed: 10/20/2003 09:03  |

| Compound             | Conc. ug/L |      | Exp. Conc. | Recovery % |      | RPD | Ctrl. Limits % |      | Flags |     |
|----------------------|------------|------|------------|------------|------|-----|----------------|------|-------|-----|
|                      | LCS        | LCSD |            | LCS        | LCSD |     | %              | Rec. | RPD   | LCS |
| Diesel               | 839        | 859  | 1000       | 83.9       | 85.9 | 2.4 | 60-130         | 25   |       |     |
| <i>Surrogates(s)</i> |            |      |            |            |      |     |                |      |       |     |
| o-Terphenyl          | 18.8       | 19.1 | 20.0       | 93.8       | 95.3 |     | 60-130         | 0    |       |     |

**Diesel**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 410500-01

1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

**Legend and Notes**

**Result Flag**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 410500-01

1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

**Samples Reported**

| Sample Name | Date Sampled     | Matrix | Lab # |
|-------------|------------------|--------|-------|
| MW2         | 10/09/2003 09:30 | Water  | 1     |
| MW5         | 10/09/2003 08:05 | Water  | 2     |
| MW6         | 10/09/2003 02:35 | Water  | 3     |
| MW7         | 10/09/2003 02:58 | Water  | 4     |
| MW4         | 10/09/2003 10:02 | Water  | 5     |
| MW3         | 10/09/2003 10:15 | Water  | 6     |
| MW1         | 10/09/2003 11:20 | Water  | 7     |



**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 410500-01

1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

|  |                  |            |                  |
|--|------------------|------------|------------------|
| Prep(s):   | 5030B            | Test(s):   | 8260FAB          |
| Sample ID:                                       | MW2              | Lab ID:    | 2003-10-0441 - 1 |
| Sampled:   | 10/09/2003 09:30 | Extracted: | 10/23/2003 12:22 |
| Matrix:  | Water            | QC Batch#: | 2003/10/23-1F.65 |
| Analysis Flag: o ( See Legend and Note Section ) |                  |            |                  |

| Compound                       | Conc. | RL     | Unit | Dilution | Analyzed         | Flag |
|--------------------------------|-------|--------|------|----------|------------------|------|
| tert-Butyl alcohol (TBA)       | ND    | 10000  | ug/L | 100.00   | 10/23/2003 12:22 |      |
| Methyl tert-butyl ether (MTBE) | 8500  | 200    | ug/L | 100.00   | 10/23/2003 12:22 |      |
| Di-isopropyl Ether (DIPE)      | ND    | 200    | ug/L | 100.00   | 10/23/2003 12:22 |      |
| Ethyl tert-butyl ether (ETBE)  | ND    | 200    | ug/L | 100.00   | 10/23/2003 12:22 |      |
| tert-Amyl methyl ether (TAME)  | ND    | 200    | ug/L | 100.00   | 10/23/2003 12:22 |      |
| 1,2-DCA                        | ND    | 200    | ug/L | 100.00   | 10/23/2003 12:22 |      |
| EDB                            | ND    | 200    | ug/L | 100.00   | 10/23/2003 12:22 |      |
| Ethanol                        | ND    | 50000  | ug/L | 100.00   | 10/23/2003 12:22 |      |
| <b>Surrogate(s)</b>            |       |        |      |          |                  |      |
| 1,2-Dichloroethane-d4          | 92.2  | 76-114 | %    | 100.00   | 10/23/2003 12:22 |      |
| Toluene-d8                     | 103.5 | 88-110 | %    | 100.00   | 10/23/2003 12:22 |      |

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 410500-01

1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

|  |                  |            |                  |
|--|------------------|------------|------------------|
| Prep(s):   | 5030B            | Test(s):   | 8260FAB          |
| Sample ID:                                       | MW5              | Lab ID:    | 2003-10-0441 - 2 |
| Sampled:   | 10/09/2003 08:05 | Extracted: | 10/23/2003 12:45 |
| Matrix:  | Water            | QC Batch#: | 2003/10/23-1F.65 |
| Analysis Flag: o ( See Legend and Note Section ) |                  |            |                  |

| Compound                       | Conc. | RL     | Unit | Dilution | Analyzed         | Flag |
|--------------------------------|-------|--------|------|----------|------------------|------|
| tert-Butyl alcohol (TBA)       | ND    | 200    | ug/L | 2.00     | 10/23/2003 12:45 |      |
| Methyl tert-butyl ether (MTBE) | 290   | 4.0    | ug/L | 2.00     | 10/23/2003 12:45 |      |
| Di-isopropyl Ether (DIPE)      | ND    | 4.0    | ug/L | 2.00     | 10/23/2003 12:45 |      |
| Ethyl tert-butyl ether (ETBE)  | ND    | 4.0    | ug/L | 2.00     | 10/23/2003 12:45 |      |
| tert-Amyl methyl ether (TAME)  | ND    | 4.0    | ug/L | 2.00     | 10/23/2003 12:45 |      |
| 1,2-DCA                        | ND    | 4.0    | ug/L | 2.00     | 10/23/2003 12:45 |      |
| EDB                            | ND    | 4.0    | ug/L | 2.00     | 10/23/2003 12:45 |      |
| Ethanol                        | ND    | 1000   | ug/L | 2.00     | 10/23/2003 12:45 |      |
| <b>Surrogate(s)</b>            |       |        |      |          |                  |      |
| 1,2-Dichloroethane-d4          | 103.1 | 76-114 | %    | 2.00     | 10/23/2003 12:45 |      |
| Toluene-d8                     | 97.6  | 88-110 | %    | 2.00     | 10/23/2003 12:45 |      |

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 410500-01

1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

|            |                  |            |                  |
|------------|------------------|------------|------------------|
| Prep(s):   | 5030B            | Test(s):   | 8260FAB          |
| Sample ID: | MW6              | Lab ID:    | 2003-10-0441 - 3 |
| Sampled:   | 10/09/2003 02:35 | Extracted: | 10/23/2003 13:08 |
| Matrix:    | Water            | QC Batch#: | 2003/10/23-1F.65 |

| Compound                       | Conc. | RL     | Unit | Dilution | Analyzed         | Flag |
|--------------------------------|-------|--------|------|----------|------------------|------|
| tert-Butyl alcohol (TBA)       | ND    | 100    | ug/L | 1.00     | 10/23/2003 13:08 |      |
| Methyl tert-butyl ether (MTBE) | ND    | 2.0    | ug/L | 1.00     | 10/23/2003 13:08 |      |
| Di-isopropyl Ether (DIPE)      | ND    | 2.0    | ug/L | 1.00     | 10/23/2003 13:08 |      |
| Ethyl tert-butyl ether (ETBE)  | ND    | 2.0    | ug/L | 1.00     | 10/23/2003 13:08 |      |
| tert-Amyl methyl ether (TAME)  | ND    | 2.0    | ug/L | 1.00     | 10/23/2003 13:08 |      |
| 1,2-DCA                        | ND    | 2.0    | ug/L | 1.00     | 10/23/2003 13:08 |      |
| EDB                            | ND    | 2.0    | ug/L | 1.00     | 10/23/2003 13:08 |      |
| Ethanol                        | ND    | 500    | ug/L | 1.00     | 10/23/2003 13:08 |      |
| <b>Surrogate(s)</b>            |       |        |      |          |                  |      |
| 1,2-Dichloroethane-d4          | 92.2  | 76-114 | %    | 1.00     | 10/23/2003 13:08 |      |
| Toluene-d8                     | 104.3 | 88-110 | %    | 1.00     | 10/23/2003 13:08 |      |

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 410500-01

1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

|            |                  |            |                  |
|------------|------------------|------------|------------------|
| Prep(s):   | 5030B            | Test(s):   | 8260FAB          |
| Sample ID: | MW7              | Lab ID:    | 2003-10-0441 - 4 |
| Sampled:   | 10/09/2003 02:58 | Extracted: | 10/23/2003 16:36 |
| Matrix:    | Water            | QC Batch#: | 2003/10/23-01.68 |

| Compound                       | Conc. | RL     | Unit | Dilution | Analyzed         | Flag |
|--------------------------------|-------|--------|------|----------|------------------|------|
| tert-Butyl alcohol (TBA)       | ND    | 25000  | ug/L | 250.00   | 10/23/2003 16:36 |      |
| Methyl tert-butyl ether (MTBE) | 20000 | 500    | ug/L | 250.00   | 10/23/2003 16:36 |      |
| Di-isopropyl Ether (DIPE)      | ND    | 500    | ug/L | 250.00   | 10/23/2003 16:36 |      |
| Ethyl tert-butyl ether (ETBE)  | ND    | 500    | ug/L | 250.00   | 10/23/2003 16:36 |      |
| tert-Amyl methyl ether (TAME)  | ND    | 500    | ug/L | 250.00   | 10/23/2003 16:36 |      |
| 1,2-DCA                        | ND    | 500    | ug/L | 250.00   | 10/23/2003 16:36 |      |
| EDB                            | ND    | 500    | ug/L | 250.00   | 10/23/2003 16:36 |      |
| Ethanol                        | ND    | 130000 | ug/L | 250.00   | 10/23/2003 16:36 |      |
| <b>Surrogate(s)</b>            |       |        |      |          |                  |      |
| 1,2-Dichloroethane-d4          | 97.7  | 76-114 | %    | 250.00   | 10/23/2003 16:36 |      |
| Toluene-d8                     | 99.0  | 88-110 | %    | 250.00   | 10/23/2003 16:36 |      |

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience

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Project: 410500-01  
1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

|  |                  |            |                  |
|--|------------------|------------|------------------|
| Prep(s):   | 5030B            | Test(s):   | 8260FAB          |
| Sample ID:                                       | MW4              | Lab ID:    | 2003-10-0441 - 5 |
| Sampled:   | 10/09/2003 10:02 | Extracted: | 10/23/2003 13:54 |
| Matrix:  | Water            | QC Batch#: | 2003/10/23-1F.65 |
| Analysis Flag: o ( See Legend and Note Section ) |                  |            |                  |

| Compound                       | Conc. | RL     | Unit | Dilution | Analyzed         | Flag |
|--------------------------------|-------|--------|------|----------|------------------|------|
| tert-Butyl alcohol (TBA)       | ND    | 200    | ug/L | 2.00     | 10/23/2003 13:54 |      |
| Methyl tert-butyl ether (MTBE) | 270   | 4.0    | ug/L | 2.00     | 10/23/2003 13:54 |      |
| Di-isopropyl Ether (DIPE)      | ND    | 4.0    | ug/L | 2.00     | 10/23/2003 13:54 |      |
| Ethyl tert-butyl ether (ETBE)  | ND    | 4.0    | ug/L | 2.00     | 10/23/2003 13:54 |      |
| tert-Amyl methyl ether (TAME)  | ND    | 4.0    | ug/L | 2.00     | 10/23/2003 13:54 |      |
| 1,2-DCA                        | ND    | 4.0    | ug/L | 2.00     | 10/23/2003 13:54 |      |
| EDB                            | ND    | 4.0    | ug/L | 2.00     | 10/23/2003 13:54 |      |
| Ethanol                        | ND    | 1000   | ug/L | 2.00     | 10/23/2003 13:54 |      |
| <b>Surrogate(s)</b>            |       |        |      |          |                  |      |
| 1,2-Dichloroethane-d4          | 107.3 | 76-114 | %    | 2.00     | 10/23/2003 13:54 |      |
| Toluene-d8                     | 98.2  | 88-110 | %    | 2.00     | 10/23/2003 13:54 |      |

**Gas/BTEX Fuel Oxygenates by 8260B**

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|  |                  |            |                  |
|--|------------------|------------|------------------|
| Prep(s):   | 5030B            | Test(s):   | 8260FAB          |
| Sample ID:                                       | MW3              | Lab ID:    | 2003-10-0441 - 6 |
| Sampled:   | 10/09/2003 10:15 | Extracted: | 10/23/2003 14:17 |
| Matrix:  | Water            | QC Batch#: | 2003/10/23-1F.65 |
| Analysis Flag: o ( See Legend and Note Section ) |                  |            |                  |

| Compound                       | Conc. | RL     | Unit | Dilution | Analyzed         | Flag |
|--------------------------------|-------|--------|------|----------|------------------|------|
| tert-Butyl alcohol (TBA)       | ND    | 1000   | ug/L | 10.00    | 10/23/2003 14:17 |      |
| Methyl tert-butyl ether (MTBE) | 190   | 20     | ug/L | 10.00    | 10/23/2003 14:17 |      |
| Di-isopropyl Ether (DIPE)      | ND    | 20     | ug/L | 10.00    | 10/23/2003 14:17 |      |
| Ethyl tert-butyl ether (ETBE)  | ND    | 20     | ug/L | 10.00    | 10/23/2003 14:17 |      |
| tert-Amyl methyl ether (TAME)  | ND    | 20     | ug/L | 10.00    | 10/23/2003 14:17 |      |
| 1,2-DCA                        | ND    | 20     | ug/L | 10.00    | 10/23/2003 14:17 |      |
| EDB                            | ND    | 20     | ug/L | 10.00    | 10/23/2003 14:17 |      |
| Ethanol                        | ND    | 5000   | ug/L | 10.00    | 10/23/2003 14:17 |      |
| <b>Surrogate(s)</b>            |       |        |      |          |                  |      |
| 1,2-Dichloroethane-d4          | 91.2  | 76-114 | %    | 10.00    | 10/23/2003 14:17 |      |
| Toluene-d8                     | 105.7 | 88-110 | %    | 10.00    | 10/23/2003 14:17 |      |

**Gas/BTEX Fuel Oxygenates by 8260B**

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|  |                  |            |                  |
|--|------------------|------------|------------------|
| Prep(s):   | 5030B            | Test(s):   | 8260FAB          |
| Sample ID:                                       | MW1              | Lab ID:    | 2003-10-0441 - 7 |
| Sampled:   | 10/09/2003 11:20 | Extracted: | 10/23/2003 14:39 |
| Matrix:  | Water            | QC Batch#: | 2003/10/23-1F.65 |
| Analysis Flag: o ( See Legend and Note Section ) |                  |            |                  |

| Compound                       | Conc. | RL     | Unit | Dilution | Analyzed         | Flag |
|--------------------------------|-------|--------|------|----------|------------------|------|
| tert-Butyl alcohol (TBA)       | ND    | 20000  | ug/L | 200.00   | 10/23/2003 14:39 |      |
| Methyl tert-butyl ether (MTBE) | 660   | 400    | ug/L | 200.00   | 10/23/2003 14:39 |      |
| Di-isopropyl Ether (DIPE)      | ND    | 400    | ug/L | 200.00   | 10/23/2003 14:39 |      |
| Ethyl tert-butyl ether (ETBE)  | ND    | 400    | ug/L | 200.00   | 10/23/2003 14:39 |      |
| tert-Amyl methyl ether (TAME)  | ND    | 400    | ug/L | 200.00   | 10/23/2003 14:39 |      |
| 1,2-DCA                        | ND    | 400    | ug/L | 200.00   | 10/23/2003 14:39 |      |
| EDB                            | ND    | 400    | ug/L | 200.00   | 10/23/2003 14:39 |      |
| Ethanol                        | ND    | 100000 | ug/L | 200.00   | 10/23/2003 14:39 |      |
| <b>Surrogate(s)</b>            |       |        |      |          |                  |      |
| 1,2-Dichloroethane-d4          | 87.6  | 76-114 | %    | 200.00   | 10/23/2003 14:39 |      |
| Toluene-d8                     | 100.6 | 88-110 | %    | 200.00   | 10/23/2003 14:39 |      |

Gas/BTEX Fuel Oxygenates by 8260B

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1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2003/10/23-01.68-008

Water

Test(s): 8260FAB

QC Batch # 2003/10/23-01.68

Date Extracted: 10/23/2003 12:08

| Compound                       | Conc. | RL     | Unit | Analyzed         | Flag |
|--------------------------------|-------|--------|------|------------------|------|
| tert-Butyl alcohol (TBA)       | ND    | 100    | ug/L | 10/23/2003 12:08 |      |
| Methyl tert-butyl ether (MTBE) | ND    | 2.0    | ug/L | 10/23/2003 12:08 |      |
| Di-isopropyl Ether (DIPE)      | ND    | 2.0    | ug/L | 10/23/2003 12:08 |      |
| Ethyl tert-butyl ether (ETBE)  | ND    | 2.0    | ug/L | 10/23/2003 12:08 |      |
| tert-Amyl methyl ether (TAME)  | ND    | 2.0    | ug/L | 10/23/2003 12:08 |      |
| 1,2-DCA                        | ND    | 2.0    | ug/L | 10/23/2003 12:08 |      |
| EDB                            | ND    | 2.0    | ug/L | 10/23/2003 12:08 |      |
| Ethanol                        | ND    | 500    | ug/L | 10/23/2003 12:08 |      |
| <b>Surrogates(s)</b>           |       |        |      |                  |      |
| 1,2-Dichloroethane-d4          | 96.6  | 76-114 | %    | 10/23/2003 12:08 |      |
| Toluene-d8                     | 99.4  | 88-110 | %    | 10/23/2003 12:08 |      |



**Gas/BTEX Fuel Oxygenates by 8260B**

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Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

| Batch QC Report          |       |                                  |
|--------------------------|-------|----------------------------------|
| Prep(s): 5030B           |       | Test(s): 8260FAB                 |
| Method Blank             | Water | QC Batch # 2003/10/23-1F.65      |
| MB: 2003/10/23-1F.65-032 |       | Date Extracted: 10/23/2003 11:32 |

| Compound                       | Conc. | RL     | Unit | Analyzed         | Flag |
|--------------------------------|-------|--------|------|------------------|------|
| tert-Butyl alcohol (TBA)       | ND    | 100    | ug/L | 10/23/2003 11:32 |      |
| Methyl tert-butyl ether (MTBE) | ND    | 2.0    | ug/L | 10/23/2003 11:32 |      |
| Di-isopropyl Ether (DIPE)      | ND    | 2.0    | ug/L | 10/23/2003 11:32 |      |
| Ethyl tert-butyl ether (ETBE)  | ND    | 2.0    | ug/L | 10/23/2003 11:32 |      |
| tert-Amyl methyl ether (TAME)  | ND    | 2.0    | ug/L | 10/23/2003 11:32 |      |
| 1,2-DCA                        | ND    | 2.0    | ug/L | 10/23/2003 11:32 |      |
| EDB                            | ND    | 2.0    | ug/L | 10/23/2003 11:32 |      |
| Ethanol                        | ND    | 500    | ug/L | 10/23/2003 11:32 |      |
| <b>Surrogates(s)</b>           |       |        |      |                  |      |
| 1,2-Dichloroethane-d4          | 83.7  | 76-114 | %    | 10/23/2003 11:32 |      |
| Toluene-d8                     | 108.6 | 88-110 | %    | 10/23/2003 11:32 |      |

**Gas/BTEX Fuel Oxygenates by 8260B**

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Site: 4276 MAC ARTHUR

| Batch QC Report          |                      |                       |                             |
|--------------------------|----------------------|-----------------------|-----------------------------|
| Prep(s): 5030B           |                      | Test(s): 8260FAB      |                             |
| Laboratory Control Spike |                      | Water                 | QC Batch # 2003/10/23-01.68 |
| LCS                      | 2003/10/23-01.68-027 | Extracted: 10/23/2003 | Analyzed: 10/23/2003 11:27  |
| LCSD                     | 2003/10/23-01.68-047 | Extracted: 10/23/2003 | Analyzed: 10/23/2003 11:47  |

| Compound                       | Conc. ug/L |      | Exp.Conc. | Recovery % |       | RPD | Ctrl.Limits % |      | Flags |     |
|--------------------------------|------------|------|-----------|------------|-------|-----|---------------|------|-------|-----|
|                                | LCS        | LCSD |           | LCS        | LCSD  |     | %             | Rec. | RPD   | LCS |
| Methyl tert-butyl ether (MTBE) | 22.8       | 21.8 | 25.0      | 91.2       | 87.2  | 4.5 | 65-165        | 20   |       |     |
| <b>Surrogates(s)</b>           |            |      |           |            |       |     |               |      |       |     |
| 1,2-Dichloroethane-d4          | 505        | 496  | 500       | 101.0      | 99.2  |     | 76-114        |      |       |     |
| Toluene-d8                     | 515        | 532  | 500       | 103.0      | 106.4 |     | 88-110        |      |       |     |



STL

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 410500-01

1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2003/10/23-1F.65

LCS 2003/10/23-1F.65-047

Extracted: 10/23/2003

Analyzed: 10/23/2003 10:47

LCSD 2003/10/23-1F.65-009

Extracted: 10/23/2003

Analyzed: 10/23/2003 11:09

| Compound                       | Conc. ug/L |      | Exp.Conc. | Recovery % |       | RPD | Ctrl.Limits % |      | Flags |     |
|--------------------------------|------------|------|-----------|------------|-------|-----|---------------|------|-------|-----|
|                                | LCS        | LCSD |           | LCS        | LCSD  |     | %             | Rec. | RPD   | LCS |
| Methyl tert-butyl ether (MTBE) | 18.0       | 18.2 | 25        | 72.0       | 72.8  | 1.1 | 65-165        | 20   |       |     |
| <i>Surrogates(s)</i>           |            |      |           |            |       |     |               |      |       |     |
| 1,2-Dichloroethane-d4          | 457        | 451  | 500       | 91.4       | 90.2  |     | 76-114        |      |       |     |
| Toluene-d8                     | 477        | 502  | 500       | 95.4       | 100.4 |     | 88-110        |      |       |     |

**Gas/BTEX Fuel Oxygenates by 8260B**

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Project: 410500-01

1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

**Legend and Notes**

**Analysis Flag**

o

Reporting limits were raised due to high level of analyte present in the sample.

**Gas/BTEX/MTBE by 8260B**

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Project: 410500-01  
1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

**Samples Reported**

| Sample Name | Date Sampled     | Matrix | Lab # |
|-------------|------------------|--------|-------|
| MW2         | 10/09/2003 09:30 | Water  | 1     |
| MW5         | 10/09/2003 08:05 | Water  | 2     |
| MW6         | 10/09/2003 02:35 | Water  | 3     |
| MW7         | 10/09/2003 02:58 | Water  | 4     |
| MW4         | 10/09/2003 10:02 | Water  | 5     |
| MW3         | 10/09/2003 10:15 | Water  | 6     |
| MW1         | 10/09/2003 11:20 | Water  | 7     |

Gas/BTEX/MTBE by 8260B

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|  |                  |            |                  |
|--|------------------|------------|------------------|
| Prep(s):   | 5030B            | Test(s):   | 8260FAB          |
| Sample ID:                                       | MW2              | Lab ID:    | 2003-10-0441 - 1 |
| Sampled:   | 10/09/2003 09:30 | Extracted: | 10/23/2003 12:22 |
| Matrix:  | Water            | QC Batch#: | 2003/10/23-1H:65 |
| Analysis Flag: o ( See Legend and Note Section ) |                  |            |                  |

| Compound                       | Conc. | RL     | Unit | Dilution | Analyzed         | Flag |
|--------------------------------|-------|--------|------|----------|------------------|------|
| Gasoline                       | ND    | 5000   | ug/L | 100.00   | 10/23/2003 12:22 |      |
| Benzene                        | ND    | 50     | ug/L | 100.00   | 10/23/2003 12:22 |      |
| Toluene                        | ND    | 50     | ug/L | 100.00   | 10/23/2003 12:22 |      |
| Ethylbenzene                   | ND    | 50     | ug/L | 100.00   | 10/23/2003 12:22 |      |
| Total xylenes                  | ND    | 100    | ug/L | 100.00   | 10/23/2003 12:22 |      |
| Methyl tert-butyl ether (MTBE) | 8500  | 50     | ug/L | 100.00   | 10/23/2003 12:22 |      |
| <b>Surrogate(s)</b>            |       |        |      |          |                  |      |
| 1,2-Dichloroethane-d4          | 92.2  | 76-114 | %    | 100.00   | 10/23/2003 12:22 |      |
| Toluene-d8                     | 103.5 | 88-110 | %    | 100.00   | 10/23/2003 12:22 |      |

Gas/BTEX/MTBE by 8260B

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|  |                  |            |                  |
|--|------------------|------------|------------------|
| Prep(s):   | 5030B            | Test(s):   | 8260FAB          |
| Sample ID:                                       | MW5              | Lab ID:    | 2003-10-0441 - 2 |
| Sampled:   | 10/09/2003 08:05 | Extracted: | 10/23/2003 12:45 |
| Matrix:  | Water            | QC Batch#: | 2003/10/23-1H.65 |
| Analysis Flag: o ( See Legend and Note Section ) |                  |            |                  |

| Compound                       | Conc. | RL     | Unit | Dilution | Analyzed         | Flag |
|--------------------------------|-------|--------|------|----------|------------------|------|
| Gasoline                       | 210   | 100    | ug/L | 2.00     | 10/23/2003 12:45 |      |
| Benzene                        | ND    | 1.0    | ug/L | 2.00     | 10/23/2003 12:45 |      |
| Toluene                        | ND    | 1.0    | ug/L | 2.00     | 10/23/2003 12:45 |      |
| Ethylbenzene                   | ND    | 1.0    | ug/L | 2.00     | 10/23/2003 12:45 |      |
| Total xylenes                  | ND    | 2.0    | ug/L | 2.00     | 10/23/2003 12:45 |      |
| Methyl tert-butyl ether (MTBE) | 290   | 1.0    | ug/L | 2.00     | 10/23/2003 12:45 |      |
| <b>Surrogate(s)</b>            |       |        |      |          |                  |      |
| 1,2-Dichloroethane-d4          | 103.1 | 76-114 | %    | 2.00     | 10/23/2003 12:45 |      |
| Toluene-d8                     | 97.6  | 88-110 | %    | 2.00     | 10/23/2003 12:45 |      |

Gas/BTEX/MTBE by 8260B

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|            |                  |            |                  |
|------------|------------------|------------|------------------|
| Prep(s):   | 5030B            | Test(s):   | 8260FAB          |
| Sample ID: | MW6              | Lab ID:    | 2003-10-0441 - 3 |
| Sampled:   | 10/09/2003 02:35 | Extracted: | 10/23/2003 13:08 |
| Matrix:    | Water            | QC Batch#: | 2003/10/23-1H.65 |

| Compound                       | Conc. | RL     | Unit | Dilution | Analyzed         | Flag |
|--------------------------------|-------|--------|------|----------|------------------|------|
| Gasoline                       | ND    | 50     | ug/L | 1.00     | 10/23/2003 13:08 |      |
| Benzene                        | 0.95  | 0.50   | ug/L | 1.00     | 10/23/2003 13:08 |      |
| Toluene                        | 3.0   | 0.50   | ug/L | 1.00     | 10/23/2003 13:08 |      |
| Ethylbenzene                   | 1.4   | 0.50   | ug/L | 1.00     | 10/23/2003 13:08 |      |
| Total xylenes                  | 5.5   | 1.0    | ug/L | 1.00     | 10/23/2003 13:08 |      |
| Methyl tert-butyl ether (MTBE) | 1.1   | 0.50   | ug/L | 1.00     | 10/23/2003 13:08 |      |
| <b>Surrogate(s)</b>            |       |        |      |          |                  |      |
| 1,2-Dichloroethane-d4          | 92.2  | 76-114 | %    | 1.00     | 10/23/2003 13:08 |      |
| Toluene-d8                     | 104.3 | 88-110 | %    | 1.00     | 10/23/2003 13:08 |      |



**Gas/BTEX/MTBE by 8260B**

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|  |                  |            |                  |
|--|------------------|------------|------------------|
| Prep(s):   | 5030B            | Test(s):   | 8260FAB          |
| Sample ID:                                       | MW7              | Lab ID:    | 2003-10-0441 - 4 |
| Sampled:   | 10/09/2003 02:58 | Extracted: | 10/23/2003 16:22 |
| Matrix:  | Water            | QC Batch#: | 2003/10/23-1A.68 |
| Analysis Flag: o ( See Legend and Note Section ) |                  |            |                  |

| Compound                       | Conc. | RL     | Unit | Dilution | Analyzed         | Flag |
|--------------------------------|-------|--------|------|----------|------------------|------|
| Gasoline                       | ND    | 13000  | ug/L | 250.00   | 10/23/2003 16:22 |      |
| Benzene                        | ND    | 130    | ug/L | 250.00   | 10/23/2003 16:22 |      |
| Toluene                        | ND    | 130    | ug/L | 250.00   | 10/23/2003 16:22 |      |
| Ethylbenzene                   | ND    | 130    | ug/L | 250.00   | 10/23/2003 16:22 |      |
| Total xylenes                  | ND    | 250    | ug/L | 250.00   | 10/23/2003 16:22 |      |
| Methyl tert-butyl ether (MTBE) | 20000 | 130    | ug/L | 250.00   | 10/23/2003 16:22 |      |
| <b>Surrogate(s)</b>            |       |        |      |          |                  |      |
| 1,2-Dichloroethane-d4          | 97.7  | 76-114 | %    | 250.00   | 10/23/2003 16:22 |      |
| Toluene-d8                     | 99.0  | 88-110 | %    | 250.00   | 10/23/2003 16:22 |      |

**Gas/BTEX/MTBE by 8260B**

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|  |                  |            |                  |
|--|------------------|------------|------------------|
| Prep(s):   | 5030B            | Test(s):   | 8260FAB          |
| Sample ID:                                       | MW4              | Lab ID:    | 2003-10-0441 - 5 |
| Sampled:   | 10/09/2003 10:02 | Extracted: | 10/23/2003 13:54 |
| Matrix:  | Water            | QC Batch#: | 2003/10/23-1H.65 |
| Analysis Flag: o ( See Legend and Note Section ) |                  |            |                  |

| Compound                       | Conc. | RL     | Unit | Dilution | Analyzed         | Flag |
|--------------------------------|-------|--------|------|----------|------------------|------|
| Gasoline                       | 700   | 100    | ug/L | 2.00     | 10/23/2003 13:54 |      |
| Benzene                        | 100   | 1.0    | ug/L | 2.00     | 10/23/2003 13:54 |      |
| Toluene                        | 2.2   | 1.0    | ug/L | 2.00     | 10/23/2003 13:54 |      |
| Ethylbenzene                   | 5.4   | 1.0    | ug/L | 2.00     | 10/23/2003 13:54 |      |
| Total xylenes                  | 14    | 2.0    | ug/L | 2.00     | 10/23/2003 13:54 |      |
| Methyl tert-butyl ether (MTBE) | 270   | 1.0    | ug/L | 2.00     | 10/23/2003 13:54 |      |
| <b>Surrogate(s)</b>            |       |        |      |          |                  |      |
| 1,2-Dichloroethane-d4          | 107.3 | 76-114 | %    | 2.00     | 10/23/2003 13:54 |      |
| Toluene-d8                     | 98.2  | 88-110 | %    | 2.00     | 10/23/2003 13:54 |      |

**Gas/BTEX/MTBE by 8260B**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 410500-01

1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

|  |                  |            |                  |
|--|------------------|------------|------------------|
| Prep(s):   | 5030B            | Test(s):   | 8260FAB          |
| Sample ID:                                       | MW3              | Lab ID:    | 2003-10-0441 - 6 |
| Sampled:   | 10/09/2003 10:15 | Extracted: | 10/23/2003 14:17 |
| Matrix:  | Water            | QC Batch#: | 2003/10/23-1H.65 |
| Analysis Flag: 0 ( See Legend and Note Section ) |                  |            |                  |

| Compound                       | Conc. | RL     | Unit | Dilution | Analyzed         | Flag |
|--------------------------------|-------|--------|------|----------|------------------|------|
| Gasoline                       | 6000  | 500    | ug/L | 10.00    | 10/23/2003 14:17 |      |
| Benzene                        | 120   | 5.0    | ug/L | 10.00    | 10/23/2003 14:17 |      |
| Toluene                        | 260   | 5.0    | ug/L | 10.00    | 10/23/2003 14:17 |      |
| Ethylbenzene                   | 390   | 5.0    | ug/L | 10.00    | 10/23/2003 14:17 |      |
| Total xylenes                  | 1200  | 10     | ug/L | 10.00    | 10/23/2003 14:17 |      |
| Methyl tert-butyl ether (MTBE) | 190   | 5.0    | ug/L | 10.00    | 10/23/2003 14:17 |      |
| <b>Surrogate(s)</b>            |       |        |      |          |                  |      |
| 1,2-Dichloroethane-d4          | 91.2  | 76-114 | %    | 10.00    | 10/23/2003 14:17 |      |
| Toluene-d8                     | 105.7 | 88-110 | %    | 10.00    | 10/23/2003 14:17 |      |

**Gas/BTEX/MTBE by 8260B**

TRC Alton Geoscience

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Project: 410500-01

1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

|  |                  |            |                  |
|--|------------------|------------|------------------|
| Prep(s):   | 5030B            | Test(s):   | 8260FAB          |
| Sample ID:                                       | MW1              | Lab ID:    | 2003-10-0441 - 7 |
| Sampled:   | 10/09/2003 11:20 | Extracted: | 10/23/2003 14:39 |
| Matrix:  | Water            | QC Batch#: | 2003/10/23-1H.65 |
| Analysis Flag: o ( See Legend and Note Section ) |                  |            |                  |

| Compound                       | Conc. | RL     | Unit | Dilution | Analyzed         | Flag |
|--------------------------------|-------|--------|------|----------|------------------|------|
| Gasoline                       | 81000 | 10000  | ug/L | 200.00   | 10/23/2003 14:39 |      |
| Benzene                        | 8100  | 100    | ug/L | 200.00   | 10/23/2003 14:39 |      |
| Toluene                        | 17000 | 100    | ug/L | 200.00   | 10/23/2003 14:39 |      |
| Ethylbenzene                   | 3200  | 100    | ug/L | 200.00   | 10/23/2003 14:39 |      |
| Total xylenes                  | 14000 | 200    | ug/L | 200.00   | 10/23/2003 14:39 |      |
| Methyl tert-butyl ether (MTBE) | 660   | 100    | ug/L | 200.00   | 10/23/2003 14:39 |      |
| <b>Surrogate(s)</b>            |       |        |      |          |                  |      |
| 1,2-Dichloroethane-d4          | 87.6  | 76-114 | %    | 200.00   | 10/23/2003 14:39 |      |
| Toluene-d8                     | 100.6 | 88-110 | %    | 200.00   | 10/23/2003 14:39 |      |

**Gas/BTEX/MTBE by 8260B**

TRC Alton Geoscience

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Project: 410500-01  
1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260FAB

Method Blank

Water

QC Batch # 2003/10/23-1A.68

MB: 2003/10/23-1A.68-008

Date Extracted: 10/23/2003 12:08

| Compound                       | Conc. | RL     | Unit | Analyzed         | Flag |
|--------------------------------|-------|--------|------|------------------|------|
| Gasoline                       | ND    | 50     | ug/L | 10/23/2003 12:08 |      |
| Benzene                        | ND    | 0.5    | ug/L | 10/23/2003 12:08 |      |
| Toluene                        | ND    | 0.5    | ug/L | 10/23/2003 12:08 |      |
| Ethylbenzene                   | ND    | 0.5    | ug/L | 10/23/2003 12:08 |      |
| Total xylenes                  | ND    | 1.0    | ug/L | 10/23/2003 12:08 |      |
| Methyl tert-butyl ether (MTBE) | ND    | 0.5    | ug/L | 10/23/2003 12:08 |      |
| <b>Surrogates(s)</b>           |       |        |      |                  |      |
| 1,2-Dichloroethane-d4          | 96.6  | 76-114 | %    | 10/23/2003 12:08 |      |
| Toluene-d8                     | 99.4  | 88-110 | %    | 10/23/2003 12:08 |      |

**Gas/BTEX/MTBE by 8260B**

TRC Alton Geoscience

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21 Technology Drive

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Project: 410500-01  
1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

| Batch QC Report          |       |  |  |                                  |  |
|--------------------------|-------|--|--|----------------------------------|--|
| Prep(s): 5030B           |       |  |  | Test(s): 8260FAB                 |  |
| Method Blank             | Water |  |  | QC Batch # 2003/10/23-1H.65      |  |
| MB: 2003/10/23-1H.65-032 |       |  |  | Date Extracted: 10/23/2003 11:32 |  |

| Compound                       | Conc. | RL     | Unit | Analyzed         | Flag |
|--------------------------------|-------|--------|------|------------------|------|
| Gasoline                       | ND    | 50     | ug/L | 10/23/2003 11:32 |      |
| Methyl tert-butyl ether (MTBE) | ND    | 0.5    | ug/L | 10/23/2003 11:32 |      |
| Benzene                        | ND    | 0.5    | ug/L | 10/23/2003 11:32 |      |
| Toluene                        | ND    | 0.5    | ug/L | 10/23/2003 11:32 |      |
| Ethylbenzene                   | ND    | 0.5    | ug/L | 10/23/2003 11:32 |      |
| Total xylenes                  | ND    | 1.0    | ug/L | 10/23/2003 11:32 |      |
| <b>Surrogates(s)</b>           |       |        |      |                  |      |
| 1,2-Dichloroethane-d4          | 83.7  | 76-114 | %    | 10/23/2003 11:32 |      |
| Toluene-d8                     | 108.6 | 88-110 | %    | 10/23/2003 11:32 |      |

**Gas/BTEX/MTBE by 8260B**

TRC Alton Geoscience

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Project: 410500-01

1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

| Batch QC Report          |                      |  |                       |  |                  |                             |  |  |  |
|--------------------------|----------------------|--|-----------------------|--|------------------|-----------------------------|--|--|--|
| Prep(s): 5030B           |                      |  |                       |  | Test(s): 8260FAB |                             |  |  |  |
| Laboratory Control Spike |                      |  | Water                 |  |                  | QC Batch # 2003/10/23-1A.68 |  |  |  |
| LCS                      | 2003/10/23-1A.68-027 |  | Extracted: 10/23/2003 |  |                  | Analyzed: 10/23/2003 11:27  |  |  |  |
| LCSD                     | 2003/10/23-1A.68-047 |  | Extracted: 10/23/2003 |  |                  | Analyzed: 10/23/2003 11:47  |  |  |  |

| Compound                       | Conc. ug/L |      | Exp. Conc. | Recovery % |       | RPD | Ctrl. Limits % |      | Flags |     |
|--------------------------------|------------|------|------------|------------|-------|-----|----------------|------|-------|-----|
|                                | LCS        | LCSD |            | LCS        | LCSD  |     | %              | Rec. | RPD   | LCS |
| Benzene                        | 22.5       | 22.4 | 25         | 90.0       | 89.6  | 0.4 | 69-129         | 20   |       |     |
| Toluene                        | 23.4       | 23.5 | 25         | 93.6       | 94.0  | 0.4 | 70-130         | 20   |       |     |
| Methyl tert-butyl ether (MTBE) | 22.8       | 21.8 | 25         | 91.2       | 87.2  | 4.5 | 65-165         | 20   |       |     |
| <b>Surrogates(s)</b>           |            |      |            |            |       |     |                |      |       |     |
| 1,2-Dichloroethane-d4          | 505        | 496  | 500        | 101.0      | 99.2  |     | 76-114         |      |       |     |
| Toluene-d8                     | 515        | 532  | 500        | 103.0      | 106.4 |     | 88-110         |      |       |     |

**Gas/BTEX/MTBE by 8260B**

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Project: 410500-01

1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

| Batch QC Report             |                      |                       |                            |
|-----------------------------|----------------------|-----------------------|----------------------------|
| Prep(s): 5030B              |                      | Test(s): 8260FAB      |                            |
| Laboratory Control Spike    |                      | Water                 |                            |
| QC Batch # 2003/10/23-1H.65 |                      |                       |                            |
| LCS                         | 2003/10/23-1H.65-047 | Extracted: 10/23/2003 | Analyzed: 10/23/2003 10:47 |
| LCSD                        | 2003/10/23-1H.65-009 | Extracted: 10/23/2003 | Analyzed: 10/23/2003 11:09 |

| Compound                       | Conc. ug/L |      | Exp. Conc. | Recovery % |       | RPD  | Ctrl.Limits % |      | Flags |     |
|--------------------------------|------------|------|------------|------------|-------|------|---------------|------|-------|-----|
|                                | LCS        | LCSD |            | LCS        | LCSD  |      | %             | Rec. | RPD   | LCS |
| Methyl tert-butyl ether (MTBE) | 18.0       | 18.2 | 25         | 72.0       | 72.8  | 1.1  | 65-165        | 20   |       |     |
| Benzene                        | 19.9       | 21.0 | 25         | 79.6       | 84.0  | 5.4  | 69-129        | 20   |       |     |
| Toluene                        | 19.6       | 21.9 | 25         | 78.4       | 87.6  | 11.1 | 70-130        | 20   |       |     |
| <b>Surrogates(s)</b>           |            |      |            |            |       |      |               |      |       |     |
| 1,2-Dichloroethane-d4          | 457        | 451  | 500        | 91.4       | 90.2  |      | 76-114        |      |       |     |
| Toluene-d8                     | 477        | 502  | 500        | 95.4       | 100.4 |      | 88-110        |      |       |     |



**Gas/BTEX/MTBE by 8260B**

TRC Alton Geoscience

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Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 410500-01

1156-003

Received: 10/10/2003 16:32

Site: 4276 MAC ARTHUR

**Legend and Notes**

**Analysis Flag**

o

Reporting limits were raised due to high level of analyte present in the sample.



STL

Submission#: 2003-11-0631

TRC Alton Geoscience

December 02, 2003

21 Technology Drive  
Irvine, CA 92718

Attn.: Anju Farfan  
Project#: 41050001FA20  
Project: Conoco Phillips #1156  
Site: 4276 Mac Arthur, Oakland

Attached is our report for your samples received on 11/17/2003 16:46  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
01/01/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: [dsharma@stl-inc.com](mailto:dsharma@stl-inc.com)

Sincerely,

Dimple Sharma  
Project Manager



STL

**Gasoline**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

**Samples Reported**

| Sample Name | Date Sampled     | Matrix | Lab # |
|-------------|------------------|--------|-------|
| MW-7        | 11/14/2003 05:10 | Water  | 1     |
| MW-6        | 11/14/2003 05:50 | Water  | 2     |
| MW-5        | 11/14/2003 07:07 | Water  | 3     |
| MW-2        | 11/14/2003 10:15 | Water  | 4     |
| MW-4        | 11/14/2003 10:45 | Water  | 5     |
| MW-3        | 11/14/2003 11:15 | Water  | 6     |
| MW-1        | 11/14/2003 11:25 | Water  | 7     |

**Gasoline**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

|            |                  |            |                  |
|------------|------------------|------------|------------------|
| Prep(s):   | 5030             | Test(s):   | 8015M            |
| Sample ID: | MW-7             | Lab ID:    | 2003-11-0631 - 1 |
| Sampled:   | 11/14/2003 05:10 | Extracted: | 11/19/2003 19:38 |
| Matrix:    | Water            | QC Batch#: | 2003/11/19-01.01 |

| Compound                 | Conc. | RL  | Unit | Dilution | Analyzed         | Flag |
|--------------------------|-------|-----|------|----------|------------------|------|
| Gasoline                 | 6800  | 500 | ug/L | 10.00    | 11/19/2003 19:38 | g    |
| <i>Surrogate(s)</i>      |       |     |      |          |                  |      |
| 4-Bromofluorobenzene-FID | 72.4  | 50  | %    | 10.00    | 11/19/2003 19:38 |      |

**Gasoline**

TRC Alton Geoscience

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21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

|            |                  |            |                  |
|------------|------------------|------------|------------------|
| Prep(s):   | 5030             | Test(s):   | 8015M            |
| Sample ID: | MW-6             | Lab ID:    | 2003-11-0631 - 2 |
| Sampled:   | 11/14/2003 05:50 | Extracted: | 11/19/2003 20:10 |
| Matrix:    | Water            | QC Batch#: | 2003/11/19-01.01 |

| Compound                 | Conc. | RL | Unit | Dilution | Analyzed         | Flag |
|--------------------------|-------|----|------|----------|------------------|------|
| Gasoline                 | ND    | 50 | ug/L | 1.00     | 11/19/2003 20:10 |      |
| <i>Surrogate(s)</i>      |       |    |      |          |                  |      |
| 4-Bromofluorobenzene-FID | 93.5  | 50 | %    | 1.00     | 11/19/2003 20:10 |      |

**Gasoline**

TRC Alton Geoscience

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Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

|            |                  |            |                  |
|------------|------------------|------------|------------------|
| Prep(s):   | 5030             | Test(s):   | 8015M            |
| Sample ID: | MW-5             | Lab ID:    | 2003-11-0631 - 3 |
| Sampled:   | 11/14/2003 07:07 | Extracted: | 11/19/2003 20:42 |
| Matrix:    | Water            | QC Batch#: | 2003/11/19-01.01 |

| Compound                 | Conc. | RL  | Unit | Dilution | Analyzed         | Flag |
|--------------------------|-------|-----|------|----------|------------------|------|
| Gasoline                 | 560   | 250 | ug/L | 5.00     | 11/19/2003 20:42 | g    |
| <i>Surrogate(s)</i>      |       |     |      |          |                  |      |
| 4-Bromofluorobenzene-FID | 91.4  | 50  | %    | 5.00     | 11/19/2003 20:42 |      |

Gasoline

TRC Alton Geoscience

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Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

|            |                  |            |                  |
|------------|------------------|------------|------------------|
| Prep(s):   | 5030             | Test(s):   | 8015M            |
| Sample ID: | MW-2             | Lab ID:    | 2003-11-0631 - 4 |
| Sampled:   | 11/14/2003 10:15 | Extracted: | 11/20/2003 18:47 |
| Matrix:    | Water            | QC Batch#: | 2003/11/20-01.01 |

| Compound                 | Conc. | RL   | Unit | Dilution | Analyzed         | Flag |
|--------------------------|-------|------|------|----------|------------------|------|
| Gasoline                 | 3500  | 2500 | ug/L | 50.00    | 11/20/2003 18:47 | g    |
| <b>Surrogate(s)</b>      |       |      |      |          |                  |      |
| 4-Bromofluorobenzene-FID | 86.7  | 50   | %    | 1.00     | 11/20/2003 18:47 |      |

**Gasoline**

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Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

|            |                  |            |                  |
|------------|------------------|------------|------------------|
| Prep(s):   | 5030             | Test(s):   | 8015M            |
| Sample ID: | MW-4             | Lab ID:    | 2003-11-0631 - 5 |
| Sampled:   | 11/14/2003 10:45 | Extracted: | 11/19/2003 21:46 |
| Matrix:    | Water            | QC Batch#: | 2003/11/19-01.01 |

| Compound                 | Conc. | RL  | Unit | Dilution | Analyzed         | Flag |
|--------------------------|-------|-----|------|----------|------------------|------|
| Gasoline                 | 530   | 250 | ug/L | 5.00     | 11/19/2003 21:46 | g    |
| <i>Surrogate(s)</i>      |       |     |      |          |                  |      |
| 4-Bromofluorobenzene-FID | 82.8  | 50  | %    | 5.00     | 11/19/2003 21:46 |      |



**Gasoline**

TRC Alton Geoscience

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Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

|            |                  |            |                  |
|------------|------------------|------------|------------------|
| Prep(s):   | 5030             | Test(s):   | 8015M            |
| Sample ID: | MW-3             | Lab ID:    | 2003-11-0631 - 6 |
| Sampled:   | 11/14/2003 11:15 | Extracted: | 11/19/2003 22:18 |
| Matrix:    | Water            | QC Batch#: | 2003/11/19-01.01 |

| Compound                 | Conc. | RL  | Unit | Dilution | Analyzed         | Flag |
|--------------------------|-------|-----|------|----------|------------------|------|
| Gasoline                 | 3800  | 250 | ug/L | 5.00     | 11/19/2003 22:18 |      |
| <i>Surrogate(s)</i>      |       |     |      |          |                  |      |
| 4-Bromofluorobenzene-FID | 79.2  | 50  | %    | 5.00     | 11/19/2003 22:18 |      |



STL

Gasoline

TRC Alton Geoscience

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Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

|            |                  |            |                  |
|------------|------------------|------------|------------------|
| Prep(s):   | 5030             | Test(s):   | 8015M            |
| Sample ID: | MW-1             | Lab ID:    | 2003-11-0631 - 7 |
| Sampled:   | 11/14/2003 11:25 | Extracted: | 11/21/2003 17:24 |
| Matrix:    | Water            | QC Batch#: | 2003/11/21-01.05 |

| Compound                 | Conc. | RL    | Unit | Dilution | Analyzed         | Flag |
|--------------------------|-------|-------|------|----------|------------------|------|
| Gasoline                 | 91000 | 13000 | ug/L | 250.00   | 11/21/2003 17:24 |      |
| <b>Surrogate(s)</b>      |       |       |      |          |                  |      |
| 4-Bromofluorobenzene-FID | 88.3  | 50    | %    | 250.00   | 11/21/2003 17:24 |      |

**Gasoline**

TRC Alton Geoscience

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Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

| Batch QC Report          |  |       |  |                                  |  |
|--------------------------|--|-------|--|----------------------------------|--|
| Prep(s): 5030            |  |       |  | Test(s): 8015M                   |  |
| Method Blank             |  | Water |  | QC Batch # 2003/11/19-01.01      |  |
| MB: 2003/11/19-01.01-022 |  |       |  | Date Extracted: 11/19/2003 18:02 |  |

| Compound                 | Conc. | RL     | Unit | Analyzed         | Flag |
|--------------------------|-------|--------|------|------------------|------|
| Gasoline                 | ND    | 50     | ug/L | 11/19/2003 18:02 |      |
| <b>Surrogates(s)</b>     |       |        |      |                  |      |
| 4-Bromofluorobenzene-FID | 94.6  | 50-150 | %    | 11/19/2003 18:02 |      |

**Gasoline**

TRC Alton Geoscience

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Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

**Batch QC Report**

Prep(s): 5030

Method Blank

MB: 2003/11/20-01.01-005

Water

Test(s): 8015M

QC Batch # 2003/11/20-01.01

Date Extracted: 11/20/2003 09:28

| Compound                 | Conc. | RL     | Unit | Analyzed         | Flag |
|--------------------------|-------|--------|------|------------------|------|
| Gasoline                 | ND    | 50     | ug/L | 11/20/2003 09:28 |      |
| <b>Surrogates(s)</b>     |       |        |      |                  |      |
| 4-Bromofluorobenzene-FID | 98.4  | 50-150 | %    | 11/20/2003 09:28 |      |

**Gasoline**

TRC Alton Geoscience

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Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

**Batch QC Report**

Prep(s): 5030

Method Blank

MB: 2003/11/21-01.05-017

Water

Test(s): 8015M

QC Batch # 2003/11/21-01.05

Date Extracted: 11/21/2003 14:43

| Compound                 | Conc. | RL     | Unit | Analyzed         | Flag |
|--------------------------|-------|--------|------|------------------|------|
| Gasoline                 | ND    | 50     | ug/L | 11/21/2003 14:43 |      |
| <b>Surrogates(s)</b>     |       |        |      |                  |      |
| 4-Bromofluorobenzene-FID | 114.0 | 50-150 | %    | 11/21/2003 14:43 |      |

**Gasoline**

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Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

**Batch QC Report**

Prep(s): 5030

Test(s): 8015M

**Laboratory Control Spike**

**Water**

**QC Batch # 2003/11/19-01.01**

LCS 2003/11/19-01.01-023

Extracted: 11/19/2003

Analyzed: 11/19/2003 18:34

LCSD 2003/11/19-01.01-024

Extracted: 11/19/2003

Analyzed: 11/19/2003 19:06

| Compound                 | Conc. ug/L |      | Exp. Conc. | Recovery % |      | RPD | Ctrl. Limits % |      | Flags |     |
|--------------------------|------------|------|------------|------------|------|-----|----------------|------|-------|-----|
|                          | LCS        | LCSD |            | LCS        | LCSD |     | %              | Rec. | RPD   | LCS |
| Gasoline                 | 454        | 462  | 500        | 90.8       | 92.4 | 1.7 | 75-125         | 20   |       |     |
| <i>Surrogates(s)</i>     |            |      |            |            |      |     |                |      |       |     |
| 4-Bromofluorobenzene-FID | 428        | 446  | 500        | 85.6       | 89.2 |     | 50-150         |      |       |     |

**Gasoline**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

**Batch QC Report**

Prep(s): 5030

Test(s): 8015M

**Laboratory Control Spike**

**Water**

**QC Batch # 2003/11/20-01.01**

LCS 2003/11/20-01.01-008

Extracted: 11/20/2003

Analyzed: 11/20/2003 11:04

LCSD 2003/11/20-01.01-009

Extracted: 11/20/2003

Analyzed: 11/20/2003 11:37

| Compound                 | Conc. ug/L |      | Exp. Conc. | Recovery % |       | RPD | Ctrl. Limits % |      | Flags |     |
|--------------------------|------------|------|------------|------------|-------|-----|----------------|------|-------|-----|
|                          | LCS        | LCSD |            | LCS        | LCSD  |     | %              | Rec. | RPD   | LCS |
| Gasoline                 | 478        | 505  | 500        | 95.6       | 101.0 | 5.5 | 75-125         | 20   |       |     |
| <i>Surrogates(s)</i>     |            |      |            |            |       |     |                |      |       |     |
| 4-Bromofluorobenzene-FID | 484        | 484  | 500        | 96.8       | 96.8  |     | 50-150         |      |       |     |

**Gasoline**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

**Batch QC Report**

Prep(s): 5030

Test(s): 8015M

**Laboratory Control Spike**

**Water**

**QC Batch # 2003/11/21-01.05**

LCS 2003/11/21-01.05-020

Extracted: 11/21/2003

Analyzed: 11/21/2003 16:20

LCSD 2003/11/21-01.05-021

Extracted: 11/21/2003

Analyzed: 11/21/2003 16:52

| Compound                 | Conc. ug/L |      | Exp. Conc. | Recovery % |      | RPD | Ctrl.Limits % |      | Flags |     |
|--------------------------|------------|------|------------|------------|------|-----|---------------|------|-------|-----|
|                          | LCS        | LCSD |            | LCS        | LCSD |     | %             | Rec. | RPD   | LCS |
| Gasoline                 | 463        | 443  | 500        | 92.6       | 88.6 | 4.4 | 75-125        | 20   |       |     |
| <i>Surrogates(s)</i>     |            |      |            |            |      |     |               |      |       |     |
| 4-Bromofluorobenzene-FID | 482        | 469  | 500        | 96.4       | 93.8 |     | 50-150        |      |       |     |



**Gasoline**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #1156

Received: 11/17/2003 16:46

Site: 4276 Mac Arthur, Oakland

**Legend and Notes**

**Result Flag**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.



STL San Francisco

### Sample Receipt Checklist

Submission #: 2003- 10 - 0441

Checklist completed by: (initials) PM Date: 12 / 13 / 03

Courier name:  STL San Francisco  Client Work

Custody seals intact on shipping container/samples Yes  No  Not Present

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Container/Temp Blank Temperature in compliance ( $4^{\circ}C \pm 2$ )? Temp 3.9°C Yes  No

Water - VOA vials have zero headspace? No VOA vials submitted Yes  No

If bubbles is present, refer to approximate bubble size and itemize in comments as S (small - ) M (medium - ) or L (large - )

Water - pH acceptable upon receipt?  Yes  No

pH adjusted - Preservative used:  HNO<sub>3</sub>  HCl  H<sub>2</sub>SO<sub>4</sub>  NaOH  ZrOAc - Lot # (s) \_\_\_\_\_

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) \_\_\_\_\_ Date: 12 / 13 / 03

Client contacted:  Yes  No

Summary of discussion: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Corrective Action (per PM/Client): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

STL San Francisco

### Sample Receipt Checklist

Submission #: 2003- 10 - 0441

Checklist completed by: (initials) [Signature] Date: 10 / 13 /03

Courier name:  STL San Francisco  Client Work

Custody seals intact on shipping container/samples Yes \_\_\_ No \_\_\_ Not Present

Chain of custody present? Yes  No \_\_\_

Chain of custody signed when relinquished and received? Yes  No \_\_\_

Chain of custody agrees with sample labels? Yes  No \_\_\_

Samples in proper container/bottle? Yes  No \_\_\_

Sample containers intact? Yes  No \_\_\_

Sufficient sample volume for indicated test? Yes  No \_\_\_

All samples received within holding time? Yes  No \_\_\_

Container/Temp Blank temperature in compliance (4° C ± 2)? Temp: 3.9 °C Yes  No \_\_\_

Ice Present Yes  No \_\_\_

Water - VOA vials have zero headspace? No VOA vials submitted \_\_\_ Yes \_\_\_ No

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~O), M (medium ~ O) or L (large ~ O))

Water - pH acceptable upon receipt?  Yes  No

pH adjusted- Preservative used:  HNO<sub>3</sub>  HCl  H<sub>2</sub>SO<sub>4</sub>  NaOH  ZnOAc -Lot #(s) \_\_\_\_\_

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments: \_\_\_\_\_

\_\_\_\_\_

### Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) \_\_\_\_\_ Date: \_\_\_\_\_ / \_\_\_\_\_ /03

Client contacted:  Yes  No

Summary of discussion: \_\_\_\_\_

\_\_\_\_\_

Corrective Action (per PM/Client): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

2003-10-044

ConocoPhillips Chain Of Custody Record

78332

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS:

CONOCOPHILLIPS  
Attn: Dee Hutchinson  
3611 South Harbor, Suite 200  
Santa Ana, CA. 92704

ConocoPhillips Work Order Number

ConocoPhillips Cost Object

DATE: 10-9-03

PAGE: 1 of 1

|   |                      |                                     |  |                            |                               |
|---|----------------------|-------------------------------------|--|----------------------------|-------------------------------|
| SAMPLING COMPANY:<br>TRC                                    |                      | Valid Value ID:                     | CONOCOPHILLIPS SITE NUMBER<br>1156-003                                       |                            | GLOBAL ID NO.:<br>T0600102279 |
| ADDRESS:<br>21 Technology Drive, Irvine, CA 92618           |                      |                                     | SITE ADDRESS (Street and City):<br>4276 MAC ARTHUR                           |                            |                               |
| PROJECT CONTACT (Hardcopy or PDF Report to):<br>Anju Farfan |                      |                                     | EDF DELIVERABLE TO (RP or Designee):<br>Chris Rentz, crentz@trcsolutions.com | PHONE NO.:<br>949-753-0101 | E-MAIL:<br>LAB-USE ONLY       |
| TELEPHONE:<br>949-341-7440                                  | FAX:<br>949-753-0111 | E-MAIL:<br>afarfan@trcsolutions.com |  |                            |                               |

|                                    |  |                    |  |  |  |
|------------------------------------|--|--------------------|--|--|--|
| SAMPLER NAME(S) (Print):<br>MEY M. | CONSULTANT PROJECT NUMBER:<br>410 500-01 | REQUESTED ANALYSES |  |  |  |
|------------------------------------|--|--------------------|--|--|--|

|   |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| TURNAROUND TIME (CALENDAR DAYS):<br><input checked="" type="checkbox"/> 14 DAYS <input type="checkbox"/> 7 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS |  | SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED <input checked="" type="checkbox"/>  |  |  |  | FIELD NOTES:<br>Container/Preservative<br>or PID Readings<br>or Laboratory Notes<br><br>3.9°C<br>TEMPERATURE ON RECEIPT °C |
|   |  | 8015m - TPHd Extractable<br>8260B - TPHg/BTEX/MBE<br>8260B - TPHg/BTEX/8 Oxygenates<br>8260B - TPHg/BTEX/8 oxygenates + methanol (8015M)<br>8260B - Full Scan VOCs (does not include oxygenates)<br>8270C - Semi-Volatiles<br>8015M/8021B - TPHg/BTEX/MBE<br>Lead <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> DTCLP<br>TPH-g BY 8015M<br>BTEX/MBE BY 8021<br>8 OXYS BY 8260B<br>TPH-D BY 8015M |  |  |  |  |

| CAR USE ONLY | Sample Identification/Field Point Name* | SAMPLING |      | MATRIX | NO. OF CONT. | 8015m - TPHd Extractable | 8260B - TPHg/BTEX/MBE | 8260B - TPHg/BTEX/8 Oxygenates | 8260B - TPHg/BTEX/8 oxygenates + methanol (8015M) | 8260B - Full Scan VOCs (does not include oxygenates) | 8270C - Semi-Volatiles | 8015M/8021B - TPHg/BTEX/MBE | Lead <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> DTCLP | TPH-g BY 8015M | BTEX/MBE BY 8021 | 8 OXYS BY 8260B | TPH-D BY 8015M |  |
|--------------|---|----------|------|--------|--------------|--------------------------|-----------------------|--------------------------------|---|--|------------------------|-----------------------------|--|----------------|------------------|-----------------|----------------|--|
|              |   | DATE     | TIME |        |              |                          |                       |                                |   |  |                        |                             |  |                |                  |                 |                |  |
|              | ✓ MW2                                   | 10-9     | 0930 | GW     | 9            |                          |                       |                                |   |  |                        |                             |  |                |                  |                 |                |  |
|              | MW5                                     |          | 0805 |        | 9            |                          |                       |                                |   |  |                        |                             |  |                |                  |                 |                |  |
|              | ✓ MW6                                   |          | 0235 |        | 9            |                          |                       |                                |   |  |                        |                             |  |                |                  |                 |                |  |
|              | ✓ MW7                                   |          | 0258 |        | 9            |                          |                       |                                |   |  |                        |                             |  |                |                  |                 |                |  |
|              | ✓ MW4                                   |          | 1002 |        | 9            |                          |                       |                                |   |  |                        |                             |  |                |                  |                 |                |  |
|              | ✓ MW3                                   |          | 1015 |        | 9            |                          |                       |                                |   |  |                        |                             |  |                |                  |                 |                |  |
|              | ✓ MW1                                   |          | 1120 |        | 10           |                          |                       |                                |   |  |                        |                             |  |                |                  |                 |                |  |

|   |  |                   |                |
|---|--|-------------------|----------------|
| Relinquished by: (Signature)<br><i>[Signature]</i>        | Received by: (Signature)<br><i>[Signature]</i> | Date:<br>10-9-03  | Time:          |
| Relinquished by: (Signature)<br><i>Steve 10-9-03 1525</i> | Received by: (Signature)<br><i>Steve</i>       | Date:<br>10-10-03 | Time:<br>11:40 |
| Relinquished by: (Signature)                              | Received by: (Signature)<br><i>Noumat</i>      | Date:<br>10-10-03 | Time:<br>1525  |

**TRC** Customer Focused Solutions  
5052 Commercial Circle  
Concord, CA 94520-1248

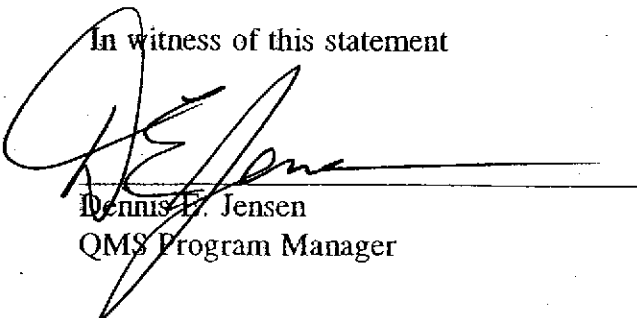
## Statement of Authorized Transportation and Disposal

This is to certify that non-hazardous groundwater produced during purging and sampling of monitoring wells at ConocoPhillips site number 1196 was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by Onyx Transportation, Inc. to the ConocoPhillips Refinery at Rodeo California for disposal. TRC records indicate that approximately 70 gallons of purge water from the site were transferred to the purge water holding tank on 10/9/03. The contents of the holding tank were transported to the Unit 100 Water Treatment Facility at the Rodeo Refinery on 11/3/03.

Disposal at the facility was authorized by ConocoPhillips in accordance with "ESD Standard Operating Procedures - Water Quality and Compliance", as revised on February 7, 2003. The procedure requires that TRC dispose only of monitoring well purge water from sites for which TRC services are under contract by ConocoPhillips. The non-hazardous nature of the purge water is confirmed quarterly by analysis by an independent certified laboratory of a random sample from the TRC holding facility. The sample is analyzed for all analytes and parameters that might affect the ConocoPhillips NPDES permit for ultimate disposal of the water. Documentation of compliance with ConocoPhillips requirements is provided by an ESD Form R-149, which is on file with ConocoPhillips.

If any purge water collected at the site is suspected of containing potentially hazardous material such as liquid-phase hydrocarbons, that water was accumulated separately in a drum for transportation and disposal by Filter Recycling, Inc.

In witness of this statement

  
Dennis E. Jensen  
QMS Program Manager

1/24/04  
date

## LIMITATIONS

The fluid level monitoring and groundwater sampling activities summarized in this report have been performed under the responsible charge of a California Registered Geologist or Registered Civil Engineer and have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the conclusions and professional opinions presented in this report. The conclusions are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.