

# BLAINE TECH SERVICES, INC.

985 TIMOTHY DRIVE  
SAN JOSE, CA 95133  
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November 12, 1996

Phil Briggs  
Chevron U.S.A. Products Company  
P.O. Box 5004  
San Ramon, CA 94583-0804

## 4th Quarter 1996 Monitoring at 9-1153

Fourth Quarter 1996 Groundwater Monitoring at  
Chevron Service Station Number 9-1153  
3126 Fernside Blvd.  
Alameda, CA

Monitoring Performed on October 10, 1996

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### Groundwater Sampling Report 961010-A-2

This report covers the routine quarterly monitoring of groundwater wells at this Chevron facility. Blaine Tech Services, Inc.'s work at the site includes inspection, gauging, evacuation, purgewater containment, sample collection and sample handling in accordance with standard procedures that conform to Regional Water Quality Control Board requirements.

Routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated volume of a three-case volume purge, elapsed evacuation time, total volume of water removed, and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater is, likewise, collected and transported to McKittrick Waste Treatment Site for disposal.

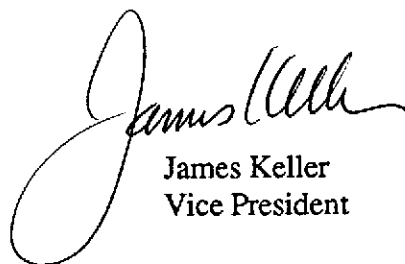
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The table also contains new groundwater elevation calculations taken from the computer plotted gradient map which is located in the **Professional Engineering Appendix**.

At a minimum, Blaine Tech Services, Inc. field personnel are certified upon completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,



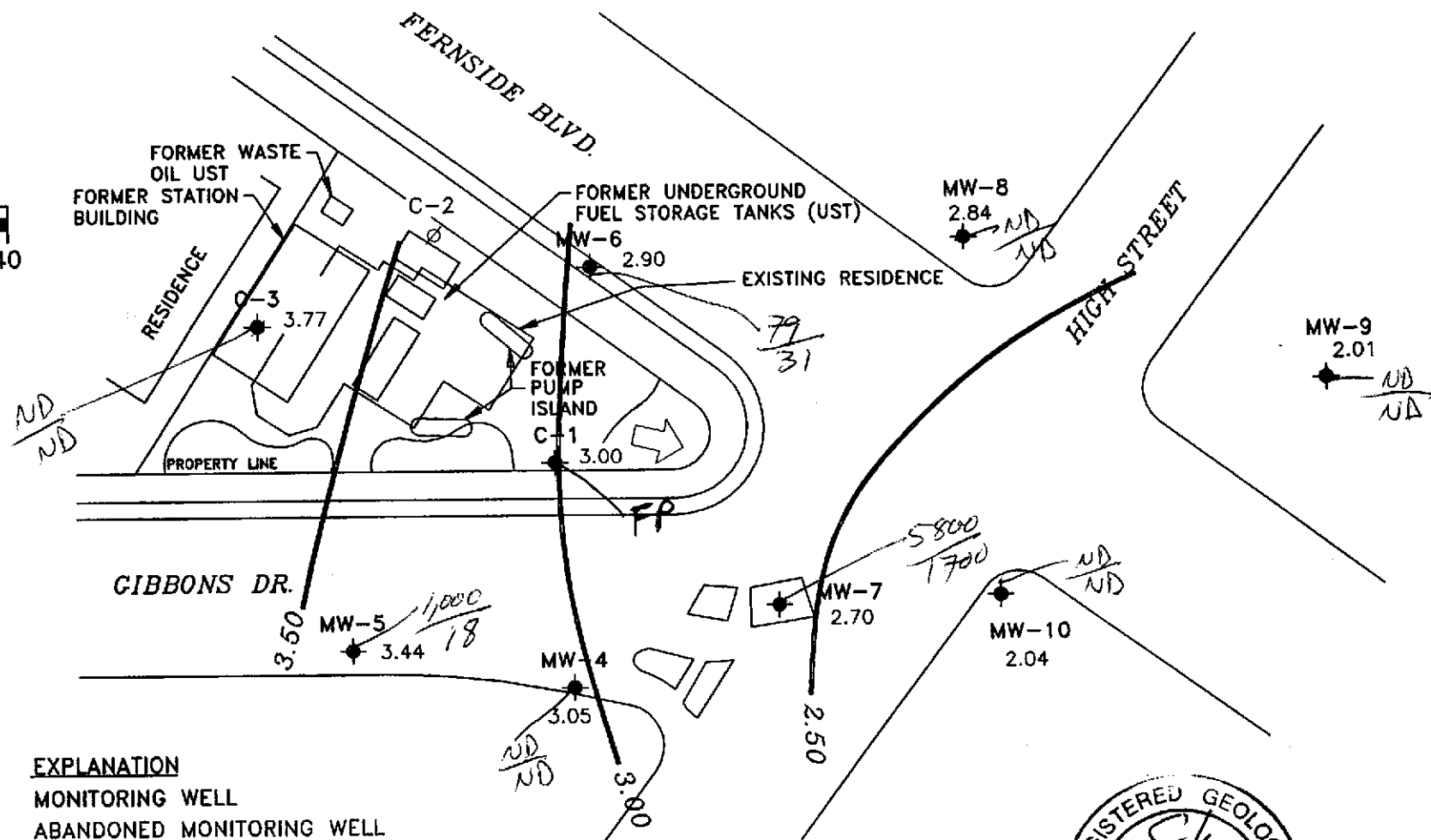
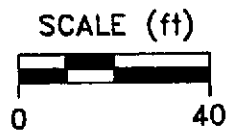
James Keller  
Vice President

JPK/cg

attachments: Professional Engineering Appendix  
Cumulative Table of Well Data and Analytical Results  
Analytical Appendix  
Field Data Sheets

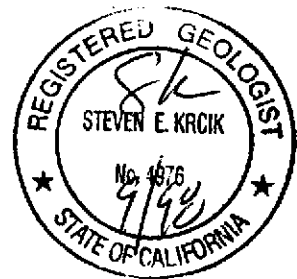
cc: Jim Perry  
Delta Environmental  
3164 Gold Camp Drive, Suite 200  
Rancho Cordova, CA 95670

# **Professional Engineering Appendix**



**EXPLANATION**


- ◆ MONITORING WELL
- ∅ ABANDONED MONITORING WELL
- 2.01 GROUNDWATER ELEVATION (FT, MSL)
- 3.00 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- ➔ APPROXIMATE GROUNDWATER FLOW DIRECTION;  
APPROXIMATE GRADIENT = 0.007



$\frac{TPH_q}{B}$  (ppb)

FP = Free Product

Base map from Cambria Environmental Technology, Inc.

|   |  |  |                                   |
|---|--|--|-----------------------------------|
| PREPARED BY<br> | Chevron Station 9-1153<br>3126 Fernside Boulevard<br>Alameda, California | GROUNDWATER ELEVATION<br>CONTOUR MAP, OCTOBER 10, 1996 | FIGURE:<br>1<br>PROJECT:<br>DAC04 |
|---|--|--|-----------------------------------|

**Table of  
Well Data and  
Analytical Results**

## Cumulative Table of Well Data and Analytical Results

| Vertical Measurements are in feet. |                 |                    | Volumetric Measurements are in gallons. |               |             |                   | Analytical results are in parts per billion (ppb) |              |         |         |               |        |      |       |
|------------------------------------|-----------------|--------------------|---|---------------|-------------|-------------------|---|--------------|---------|---------|---------------|--------|------|-------|
| DATE                               | Well Head Elev. | Ground Water Elev. | Depth To Water                          | SPH Thickness | SPH Removed | Total SPH Removed | Notes   | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE | Other |
| <b>C-1</b>                         |                 |                    |   |               |             |                   |   |              |         |         |               |        |      |       |
| 08/18/86                           | --              | --                 | 4.10                                    | --            | --          | --                | --  | --           | --      | --      | --            | --     | --   | --    |
| 09/04/86                           | --              | --                 | --                                      | --            | --          | --                | --  | 15,000       | 760     | 820     | 1500          | --     | --   | --    |
| 07/22/87                           | --              | --                 | --                                      | --            | --          | --                | --  | 1100         | 250     | 7.0     | 40            | --     | --   | --    |
| 05/03/89                           | --              | --                 | 4.46                                    | --            | --          | --                | --  | 6900         | 3800    | 190     | 229           | --     | --   | --    |
| 12/04/89                           | --              | --                 | 4.16                                    | --            | --          | --                | --  | 17,000       | 8000    | 490     | 470           | --     | --   | --    |
| 02/14/90                           | --              | --                 | 3.64                                    | --            | --          | --                | --  | 19,000       | 12,000  | 990     | 1050          | --     | --   | --    |
| 03/07/90                           | --              | --                 | 3.36                                    | --            | --          | --                | --  | --           | 4260    | 261     | 430           | --     | --   | --    |
| 09/06/91                           | --              | --                 | 4.43                                    | --            | --          | --                | --  | 21,000       | 10,000  | 100     | 240           | 560    | --   | --    |
| 12/15/91                           | --              | --                 | 4.78                                    | --            | --          | --                | --  | 20,000       | 4900    | 43      | 110           | 330    | --   | --    |
| 03/03/92                           | --              | --                 | 2.39                                    | --            | --          | --                | --  | 13,000       | 5800    | 730     | 340           | 1200   | --   | --    |
| 06/04/92                           | 4.08            | 0.00               | 4.08                                    | --            | --          | --                | --  | 34,000       | 9400    | 350     | 290           | 1200   | --   | --    |
| 10/13/92                           | 4.08            | -0.67              | 4.75                                    | --            | --          | --                | --  | 24,000       | 11,000  | 98      | 280           | 530    | --   | --    |
| 01/11/93                           | 4.08            | 1.82               | 2.26                                    | Sheen         | --          | --                | --  | 7100         | 1500    | 130     | 150           | 700    | --   | --    |
| 04/14/93                           | 4.08            | 1.18               | 2.90                                    | Sheen         | --          | --                | --  | 29,000       | 7300    | 4000    | 640           | 2300   | --   | --    |
| 07/13/93                           | 4.08            | 0.11               | 3.97                                    | Sheen         | --          | --                | --  | 650,000      | 27,000  | 18,000  | 6300          | 29,000 | --   | --    |
| 10/19/93                           | 4.08            | -0.42              | 4.50                                    | --            | --          | --                | --  | 40,000       | 12,000  | 730     | 1100          | 3600   | --   | --    |
| 11/30/93                           | 7.50            | 3.23               | 4.27                                    | --            | --          | --                | --  | --           | --      | --      | --            | --     | --   | --    |
| 01/27/94                           | 7.50            | 4.15               | 3.35                                    | --            | --          | --                | --  | 36,000       | 8600    | 220     | 670           | 1900   | --   | --    |
| 04/07/94                           | 7.50            | 4.08               | 3.42                                    | --            | --          | --                | --  | 53,000       | 12,000  | 3500    | 480           | 3300   | --   | --    |
| 07/01/94                           | 7.50            | 3.54               | 3.96                                    | --            | --          | --                | --  | 65,000       | 19,000  | 5900    | 1000          | 9000   | --   | --    |
| 10/05/94                           | 7.50            | 3.11               | 4.39                                    | --            | --          | --                | --  | 160,000      | 23,000  | 12,000  | 2200          | 11,000 | --   | --    |
| 01/12/95                           | 7.50            | 6.38               | 1.52                                    | 0.50          | 0.264       | 0.264             | --  | --           | --      | --      | --            | --     | --   | --    |
| 04/26/95                           | 7.50            | 4.86               | 4.40                                    | 2.20          | 1.321       | 1.585             | --  | --           | --      | --      | --            | --     | --   | --    |
| 07/12/95                           | 7.50            | 4.10               | 4.85                                    | 1.81          | 0.661       | 2.246             | --  | --           | --      | --      | --            | --     | --   | --    |
| 10/30/95                           | 7.50            | 3.13               | 5.67                                    | 1.63          | 0.528       | 2.774             | --  | --           | --      | --      | --            | --     | --   | --    |

CONTINUED ON NEXT PAGE

## Cumulative Table of Well Data and Analytical Results

| Vertical Measurements are in feet. |                 |                    |                | Volumetric Measurements are in gallons. |             |                   | Analytical results are in parts per billion (ppb) |              |         |         |               |        |       |       |
|------------------------------------|-----------------|--------------------|----------------|---|-------------|-------------------|---|--------------|---------|---------|---------------|--------|-------|-------|
| DATE                               | Well Head Elev. | Ground Water Elev. | Depth To Water | SPH Thickness                           | SPH Removed | Total SPH Removed | Notes   | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE  | Other |
| <b>C-1 (CONT'D)</b>                |                 |                    |                |   |             |                   |   |              |         |         |               |        |       |       |
| 01/04/96                           | 7.50            | 3.68               | 3.92           | 0.12                                    | 0.264       | 3.038             | --  | --           | --      | --      | --            | --     | --    | --    |
| 01/10/96                           | 7.50            | 4.12               | 3.48           | 0.13                                    | 0.066       | 3.104             | --  | --           | --      | --      | --            | --     | --    | --    |
| 01/17/96                           | 7.50            | 4.12               | 3.40           | 0.02                                    | 0.396       | 3.500             | --  | --           | --      | --      | --            | --     | --    | --    |
| 01/22/96                           | 7.50            | 4.60               | 2.90           | 0.00                                    | 0.000       | 3.500             | --  | 82,000       | 18,000  | 4400    | 1400          | 5200   | <1000 | --    |
| 02/23/96                           | 7.50            | 4.89               | 4.10           | 1.86                                    | 0.661       | 4.161             | --  | --           | --      | --      | --            | --     | --    | --    |
| 02/28/96                           | 7.50            | --                 | --             | >0.83                                   | 1.250       | 5.411             | --  | --           | --      | --      | --            | --     | --    | --    |
| 03/08/96                           | 7.50            | 6.10               | 2.86           | 1.83                                    | 0.264       | 5.675             | --  | --           | --      | --      | --            | --     | --    | --    |
| 03/08/96                           | 7.50            | 5.49               | 2.30           | 0.36                                    | 0.528       | 6.203             | --  | --           | --      | --      | --            | --     | --    | --    |
| 03/08/96                           | 7.50            | 5.46               | 2.33           | 0.36                                    | 0.264       | 6.467             | --  | --           | --      | --      | --            | --     | --    | --    |
| 03/08/96                           | 7.50            | 5.40               | 2.28           | 0.22                                    | 0.528       | 6.995             | --  | --           | --      | --      | --            | --     | --    | --    |
| 03/26/96                           | 7.50            | 4.56               | 3.96           | 1.28                                    | 0.396       | 7.391             | --  | --           | --      | --      | --            | --     | --    | --    |
| 04/11/96                           | 7.50            | 3.29               | 5.61           | 1.75                                    | 0.528       | 7.919             | --  | --           | --      | --      | --            | --     | --    | --    |
| 04/19/96                           | 7.50            | 4.44               | 3.09           | 0.04                                    | 0.396       | 8.315             | --  | --           | --      | --      | --            | --     | --    | --    |
| 04/24/96                           | 7.50            | 4.48               | 3.04           | 0.03                                    | 0.396       | 8.711             | --  | --           | --      | --      | --            | --     | --    | --    |
| 05/03/96                           | 7.50            | 3.85               | 4.02           | 0.46                                    | 0.396       | 9.107             | --  | --           | --      | --      | --            | --     | --    | --    |
| 05/03/96                           | 7.50            | 3.99               | 3.89           | 0.47                                    | 0.000       | 9.107             | --  | --           | --      | --      | --            | --     | --    | --    |
| 05/08/96                           | 7.50            | 3.53               | 4.25           | 0.35                                    | 0.066       | 9.173             | --  | --           | --      | --      | --            | --     | --    | --    |
| 05/17/96                           | 7.50            | 4.29               | 3.24           | 0.04                                    | 0.029       | 9.202             | --  | --           | --      | --      | --            | --     | --    | --    |
| 05/17/96                           | 7.50            | 4.16               | 3.35           | 0.01                                    | 0.029       | 9.231             | --  | --           | --      | --      | --            | --     | --    | --    |
| 05/17/96                           | 7.50            | 4.08               | 3.43           | 0.01                                    | 0.029       | 9.260             | --  | --           | --      | --      | --            | --     | --    | --    |
| 05/17/96                           | 7.50            | 3.86               | 3.65           | 0.01                                    | 0.000       | 9.260             | --  | --           | --      | --      | --            | --     | --    | --    |
| 05/22/96                           | 7.50            | 4.46               | 3.10           | 0.07                                    | 0.079       | 9.339             | --  | --           | --      | --      | --            | --     | --    | --    |
| 06/18/96                           | 7.50            | 3.20               | 4.68           | 0.48                                    | 0.264       | 9.603             | --  | --           | --      | --      | --            | --     | --    | --    |
| 07/03/96                           | 7.50            | 2.57               | 5.03           | 0.13                                    | 0.145       | 9.748             | --  | --           | --      | --      | --            | --     | --    | --    |
| 07/09/96                           | 7.50            | 3.05               | 4.63           | 0.23                                    | 0.092       | 9.840             | --  | --           | --      | --      | --            | --     | --    | --    |
| 07/17/96                           | 7.50            | 2.89               | 4.73           | 0.15                                    | 0.317       | 10.157            | --  | --           | --      | --      | --            | --     | --    | --    |
| 07/29/96                           | 7.50            | 2.47               | 5.10           | 0.09                                    | 0.264       | 10.421            | --  | --           | --      | --      | --            | --     | --    | --    |
| 08/02/96                           | 7.50            | 1.84               | 5.68           | 0.03                                    | 0.033       | 10.454            | --  | --           | --      | --      | --            | --     | --    | --    |
| 08/07/96                           | 7.50            | 2.35               | 5.16           | 0.01                                    | 0.132       | 10.586            | --  | --           | --      | --      | --            | --     | --    | --    |
| 08/23/96                           | 7.50            | 1.77               | 5.75           | 0.03                                    | 0.026       | 10.612            | --  | --           | --      | --      | --            | --     | --    | --    |
| 08/28/96                           | 7.50            | 1.99               | 5.53           | 0.03                                    | 0.013       | 10.625            | --  | --           | --      | --      | --            | --     | --    | --    |
| 09/06/96                           | 7.50            | 2.12               | 5.38           | 0.00                                    | 0.046       | 10.671            | --  | --           | --      | --      | --            | --     | --    | --    |
| 09/12/96                           | 7.50            | 2.04               | 5.48           | 0.03                                    | 0.013       | 10.684            | --  | --           | --      | --      | --            | --     | --    | --    |
| 09/19/96                           | 7.50            | 1.20               | 6.32           | 0.03                                    | 0.011       | 10.695            | --  | --           | --      | --      | --            | --     | --    | --    |
| 10/10/96                           | 7.50            | 3.00               | 4.58           | 0.10                                    | 0.132       | 10.827            | --  | --           | --      | --      | --            | --     | --    | --    |

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

| DATE       | Vertical Measurements are in feet. |                    |                | Volumetric Measurements are in gallons. |             |                   | Notes     | Analytical results are in parts per billion (ppb) |         |         |               |        |      |       |
|------------|------------------------------------|--------------------|----------------|---|-------------|-------------------|-----------|---|---------|---------|---------------|--------|------|-------|
|            | Well Head Elev.                    | Ground Water Elev. | Depth To Water | SPH Thickness                           | SPH Removed | Total SPH Removed |           | TPH-Gasoline                                      | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE | Other |
| <b>C-2</b> |                                    |                    |                |   |             |                   |           |   |         |         |               |        |      |       |
| 08/18/86   | --                                 | --                 | --             | --                                      | --          | --                | --        | --  | --      | --      | --            | --     | --   | --    |
| 09/04/86   | --                                 | --                 | --             | --                                      | --          | --                | --        | 1100  | 49      | 18      | 84            | --     | --   | --    |
| 07/22/87   | --                                 | --                 | --             | --                                      | --          | --                | --        | <50   | 1.8     | <1.0    | <4.0          | --     | --   | --    |
| 05/03/89   | --                                 | --                 | --             | --                                      | --          | --                | Abandoned | --  | --      | --      | --            | --     | --   | --    |
| <b>C-3</b> |                                    |                    |                |   |             |                   |           |   |         |         |               |        |      |       |
| 08/18/86   | --                                 | --                 | 4.00           | --                                      | --          | --                | --        | --  | --      | --      | --            | --     | --   | --    |
| 09/04/86   | --                                 | --                 | --             | --                                      | --          | --                | --        | 50  | 3.2     | 5.4     | 5.8           | --     | --   | --    |
| 07/22/87   | --                                 | --                 | --             | --                                      | --          | --                | --        | <50   | <0.5    | <1.0    | <4.0          | --     | --   | --    |
| 05/03/89   | --                                 | --                 | 4.15           | --                                      | --          | --                | --        | <50   | <0.5    | <1.0    | <2.0          | --     | --   | --    |
| 12/04/89   | --                                 | --                 | 4.24           | --                                      | --          | --                | --        | <250  | <0.5    | <0.5    | <0.5          | --     | --   | --    |
| 02/14/90   | --                                 | --                 | 3.57           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | --     | --   | --    |
| 03/07/90   | --                                 | --                 | 3.31           | --                                      | --          | --                | --        | --  | <5.0    | <5.0    | <5.0          | --     | --   | --    |
| 09/06/91   | --                                 | --                 | 4.59           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 12/15/91   | --                                 | --                 | 4.84           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 03/03/92   | --                                 | --                 | 2.17           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 06/04/92   | 4.41                               | 0.40               | 4.01           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 10/13/92   | 4.41                               | -0.38              | 4.79           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 01/11/93   | 4.41                               | 2.40               | 2.01           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 04/14/93   | 4.41                               | 1.65               | 2.76           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 07/13/93   | 4.41                               | 0.45               | 3.96           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | <1.5   | --   | --    |
| 10/19/93   | 4.41                               | -0.12              | 4.53           | --                                      | --          | --                | --        | 66  | 12      | 1.4     | 1.0           | 8.4    | --   | --    |
| 11/30/93   | 7.83                               | 3.79               | 4.04           | --                                      | --          | --                | --        | --  | --      | --      | --            | --     | --   | --    |
| 01/27/94   | 7.83                               | 4.66               | 3.17           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 04/07/94   | 7.83                               | 4.63               | 3.20           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 07/01/94   | 7.83                               | 3.84               | 3.99           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 10/05/94   | 7.83                               | 3.29               | 4.54           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 01/12/95   | 7.83                               | 7.03               | 0.80           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 05/02/95   | 7.83                               | 5.68               | 2.15           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 07/12/95   | 7.83                               | 4.41               | 3.42           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 10/30/95   | 7.83                               | 3.37               | 4.46           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 01/22/96   | 7.83                               | 6.10               | 1.73           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 04/24/96   | 7.83                               | 5.21               | 2.62           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 07/29/96   | 7.83                               | 3.89               | 3.94           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 10/10/96   | 7.83                               | 3.77               | 4.06           | --                                      | --          | --                | --        | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |



## Cumulative Table of Well Data and Analytical Results

| Vertical Measurements are in feet. |                 |                    | Volumetric Measurements are in gallons. |               |             |                   | Analytical results are in parts per billion (ppb) |              |         |         |               |        |      |       |
|------------------------------------|-----------------|--------------------|---|---------------|-------------|-------------------|---|--------------|---------|---------|---------------|--------|------|-------|
| DATE                               | Well Head Elev. | Ground Water Elev. | Depth To Water                          | SPH Thickness | SPH Removed | Total SPH Removed | Notes   | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE | Other |
| <b>MW-4</b>                        |                 |                    |   |               |             |                   |   |              |         |         |               |        |      |       |
| 06/04/92                           | 3.58            | -0.05              | 3.63                                    | --            | --          | --                | --  | <50          | 0.8     | <0.5    | <0.5          | <0.5   | --   | --    |
| 10/13/92                           | 3.58            | --                 | --                                      | --            | --          | --                | --  | --           | --      | --      | --            | --     | --   | --    |
| 01/11/93                           | 3.58            | 1.69               | 1.89                                    | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 04/14/93                           | 3.58            | 1.38               | 2.20                                    | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <1.5   | --   | --    |
| 07/13/93                           | 3.58            | 0.07               | 3.51                                    | --            | --          | --                | --  | 54           | 2.6     | 1.6     | <0.5          | <1.5   | --   | --    |
| 10/19/93                           | 3.58            | -0.64              | 4.22                                    | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 11/30/93                           | 7.01            | 3.00               | 4.01                                    | --            | --          | --                | --  | --           | --      | --      | --            | --     | --   | --    |
| 01/27/94                           | 7.01            | 4.12               | 2.89                                    | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 04/07/94                           | 7.01            | 3.95               | 3.06                                    | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 07/01/94                           | 7.01            | 3.42               | 3.59                                    | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 10/05/94                           | 7.01            | 2.68               | 4.33                                    | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 01/12/95                           | 7.01            | 5.81               | 1.20                                    | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 04/26/95                           | 7.01            | 5.86               | 1.15                                    | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 07/12/95                           | 7.01            | 4.29               | 2.72                                    | --            | --          | --                | --  | <50          | 6.4     | <0.5    | 0.63          | 0.72   | --   | --    |
| 10/30/95                           | 7.01            | 2.93               | 4.08                                    | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 01/22/96                           | 7.01            | 5.25               | 1.76                                    | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 04/24/96                           | 7.01            | 5.06               | 1.95                                    | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 07/29/96                           | 7.01            | 3.64               | 3.37                                    | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 10/10/96                           | 7.01            | 3.05               | 3.96                                    | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |

## Cumulative Table of Well Data and Analytical Results

| Vertical Measurements are in feet. |                 |                    | Volumetric Measurements are in gallons. |               |             |                   | Analytical results are in parts per billion (ppb) |              |         |         |               |        |      |       |
|------------------------------------|-----------------|--------------------|---|---------------|-------------|-------------------|---|--------------|---------|---------|---------------|--------|------|-------|
| DATE                               | Well Head Elev. | Ground Water Elev. | Depth To Water                          | SPH Thickness | SPH Removed | Total SPH Removed | Notes   | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE | Other |
| <b>MW-5</b>                        |                 |                    |   |               |             |                   |   |              |         |         |               |        |      |       |
| 06/04/92                           | 3.61            | 0.36               | 3.25                                    | --            | --          | --                | --  | 560          | 110     | 0.5     | 37            | 2.2    | --   | --    |
| 10/13/92                           | 3.61            | -0.59              | 4.20                                    | --            | --          | --                | --  | 1200         | 150     | <2.5    | 84            | 8.6    | --   | --    |
| 01/11/93                           | 3.61            | 2.31               | 1.30                                    | --            | --          | --                | --  | 1300         | 48      | 1.0     | 83            | 33     | --   | --    |
| 04/14/93                           | 3.61            | 2.41               | 1.20                                    | --            | --          | --                | --  | 2600         | 240     | 6.1     | 250           | 170    | --   | --    |
| 07/13/93                           | 3.61            | 0.46               | 3.15                                    | --            | --          | --                | --  | 1700         | 260     | 7.8     | 160           | 100    | --   | --    |
| 10/19/93                           | 3.61            | -0.21              | 3.82                                    | --            | --          | --                | --  | 1900         | 190     | 3.3     | 200           | 93     | --   | --    |
| 11/30/93                           | 7.04            | 3.48               | 3.56                                    | --            | --          | --                | --  | --           | --      | --      | --            | --     | --   | --    |
| 01/27/94                           | 7.04            | 4.62               | 2.42                                    | --            | --          | --                | --  | 4000         | 100     | 12      | 210           | 110    | --   | --    |
| 04/07/94                           | 7.04            | 4.71               | 2.33                                    | --            | --          | --                | --  | 2600         | 170     | 10      | 150           | 88     | --   | --    |
| 07/01/94                           | 7.04            | 3.86               | 3.18                                    | --            | --          | --                | --  | 2300         | 350     | 9.1     | 110           | 76     | --   | --    |
| 10/05/94                           | 7.04            | 3.06               | 3.98                                    | --            | --          | --                | --  | 11,000       | 840     | 150     | 130           | 340    | --   | --    |
| 01/12/95                           | 7.04            | 6.64               | 0.40                                    | --            | --          | --                | --  | 2300         | 82      | <2.5    | 54            | 20     | --   | --    |
| 04/26/95                           | 7.04            | 6.54               | 0.50                                    | --            | --          | --                | --  | 1600         | 52      | <5.0    | 36            | 61     | --   | --    |
| 07/12/95                           | 7.04            | 4.63               | 2.41                                    | --            | --          | --                | --  | 2800         | 150     | <5.0    | 34            | 38     | --   | --    |
| 10/30/95                           | 7.04            | 3.26               | 3.78                                    | --            | --          | --                | --  | 1100         | 81      | <5.0    | <5.0          | <5.0   | 35   | --    |
| 01/22/96                           | 7.04            | 6.26               | 0.78                                    | --            | --          | --                | --  | 880          | 7.3     | <2.0    | 15            | 4.8    | <10  | --    |
| 04/24/96                           | 7.04            | 5.39               | 1.65                                    | --            | --          | --                | --  | 1600         | 51      | 3.8     | 14            | 5.6    | 56   | --    |
| 07/29/96                           | 7.04            | --                 | --                                      | --            | --          | --                | Inaccessible                                      | --           | --      | --      | --            | --     | --   | --    |
| 10/10/96                           | 7.04            | 3.44               | 3.60                                    | --            | --          | --                | --  | 1000         | 18      | <1.2    | 1.5           | <1.2   | <6.2 | --    |

## Cumulative Table of Well Data and Analytical Results

| Vertical Measurements are in feet. |                 |                    |                | Volumetric Measurements are in gallons. |             |                   | Analytical results are in parts per billion (ppb) |              |         |         |               |        |      |       |
|------------------------------------|-----------------|--------------------|----------------|---|-------------|-------------------|---|--------------|---------|---------|---------------|--------|------|-------|
| DATE                               | Well Head Elev. | Ground Water Elev. | Depth To Water | SPH Thickness                           | SPH Removed | Total SPH Removed | Notes   | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE | Other |
| <b>MW-6</b>                        |                 |                    |                |   |             |                   |   |              |         |         |               |        |      |       |
| 06/04/92                           | 3.85            | -0.04              | 3.89           | --                                      | --          | --                | --  | 210          | 54      | <0.5    | 1.9           | 2.4    | --   | --    |
| 10/13/92                           | 3.85            | -0.71              | 4.56           | --                                      | --          | --                | --  | 10,000       | 5300    | <10     | 70            | <10    | --   | --    |
| 01/11/93                           | 3.85            | 1.49               | 2.36           | --                                      | --          | --                | --  | 100          | 50      | <0.5    | <0.5          | <0.5   | --   | --    |
| 04/14/93                           | 3.85            | 0.70               | 3.15           | --                                      | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 07/13/93                           | 3.85            | -0.09              | 3.94           | --                                      | --          | --                | --  | <50          | 1.8     | <0.5    | <0.5          | <1.5   | --   | --    |
| 10/19/93                           | 3.85            | -0.55              | 4.40           | --                                      | --          | --                | --  | 320          | 150     | <0.5    | 0.8           | <0.5   | --   | --    |
| 11/30/93                           | 7.27            | 3.11               | 4.16           | --                                      | --          | --                | --  | --           | --      | --      | --            | --     | --   | --    |
| 01/27/94                           | 7.27            | 3.94               | 3.33           | --                                      | --          | --                | --  | 120          | 45      | <0.5    | <0.5          | <0.5   | --   | --    |
| 04/07/94                           | 7.27            | 3.84               | 3.43           | --                                      | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 07/01/94                           | 7.27            | 3.33               | 3.94           | --                                      | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 10/05/94                           | 7.27            | 2.89               | 4.38           | --                                      | --          | --                | --  | 8300         | 2400    | 160     | 42            | 190    | --   | --    |
| 01/12/95                           | 7.27            | 4.84               | 2.43           | --                                      | --          | --                | --  | <50          | 12      | <0.5    | <0.5          | <0.5   | --   | ND *  |
| 04/26/95                           | 7.27            | 5.21               | 2.06           | --                                      | --          | --                | --  | <50          | 5.5     | 0.67    | <0.5          | <0.5   | 1.3  | --    |
| 07/12/95                           | 7.27            | 3.74               | 3.53           | --                                      | --          | --                | --  | 65           | 27      | <0.5    | <0.5          | <0.5   | --   | --    |
| 10/30/95                           | 7.27            | 2.93               | 4.34           | --                                      | --          | --                | --  | <50          | 3.9     | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 01/22/96                           | 7.27            | 4.66               | 2.61           | --                                      | --          | --                | --  | <50          | 0.93    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 04/24/96                           | 7.27            | 4.77               | 2.50           | --                                      | --          | --                | --  | 260          | 110     | <1.2    | <1.2          | <1.2   | <6.2 | --    |
| 07/29/96                           | 7.27            | 3.42               | 3.85           | --                                      | --          | --                | --  | <50          | 23      | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 10/10/96                           | 7.27            | 2.90               | 4.37           | --                                      | --          | --                | --  | 79           | 31      | <0.5    | <0.5          | <0.5   | <2.5 | --    |

\* EPA 8010

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

| DATE        | Vertical Measurements are in feet. |                    |                | Volumetric Measurements are in gallons. |             |                   | Notes | Analytical results are in parts per billion (ppb) |         |         |               |        |      |       |
|-------------|------------------------------------|--------------------|----------------|---|-------------|-------------------|-------|---|---------|---------|---------------|--------|------|-------|
|             | Well Head Elev.                    | Ground Water Elev. | Depth To Water | SPH Thickness                           | SPH Removed | Total SPH Removed |       | TPH-Gasoline                                      | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE | Other |
| <b>MW-7</b> |                                    |                    |                |   |             |                   |       |   |         |         |               |        |      |       |
| 11/30/93    | 8.22                               | 2.89               | 5.33           | --                                      | --          | --                | --    | 480   | 110     | 41      | 4.4           | 38     | --   | --    |
| 01/27/94    | 8.22                               | 3.72               | 4.50           | --                                      | --          | --                | --    | 120   | 21      | 1.1     | 2.2           | 4.8    | --   | --    |
| 04/07/94    | 8.22                               | 3.60               | 4.62           | --                                      | --          | --                | --    | 2600  | 630     | 39      | 56            | 94     | --   | --    |
| 07/01/94    | 8.22                               | 3.09               | 5.13           | --                                      | --          | --                | --    | 2200  | 770     | 42      | <10           | 92     | --   | --    |
| 10/05/94    | 8.22                               | 2.61               | 5.61           | --                                      | --          | --                | --    | 15,000  | 3300    | 90      | 130           | 320    | --   | --    |
| 01/12/95    | 8.22                               | 5.39               | 2.83           | --                                      | --          | --                | --    | 340   | 57      | <1.3    | 18            | 6.4    | --   | --    |
| 04/26/95    | 8.22                               | 5.87               | 2.35           | --                                      | --          | --                | --    | 15,000  | 3700    | 210     | 520           | 800    | --   | --    |
| 07/12/95    | 8.22                               | 3.56               | 4.66           | --                                      | --          | --                | --    | 7700  | 1800    | 59      | 130           | 370    | --   | --    |
| 10/30/95    | 8.22                               | 2.74               | 5.48           | --                                      | --          | --                | --    | 770   | 260     | <5.0    | 33            | 48     | 25   | --    |
| 01/22/96    | 8.22                               | 4.88               | 3.34           | --                                      | --          | --                | --    | 290   | 63      | <1.0    | 6.4           | 5.7    | <5.0 | --    |
| 04/24/96    | 8.22                               | 4.10               | 4.12           | --                                      | --          | --                | --    | 12,000  | 2500    | 510     | 380           | 810    | <125 | --    |
| 07/29/96    | 8.22                               | 3.19               | 5.03           | --                                      | --          | --                | --    | 2600  | 650     | <25     | 61            | 150    | <125 | --    |
| 10/10/96    | 8.22                               | 2.70               | 5.52           | --                                      | --          | --                | --    | 5800  | 1700    | 28      | 170           | 210    | <62  | --    |
| <b>MW-8</b> |                                    |                    |                |   |             |                   |       |   |         |         |               |        |      |       |
| 10/17/95    | 6.96                               | 2.56               | 4.40           | --                                      | --          | --                | --    | --  | --      | --      | --            | --     | --   | --    |
| 10/30/95    | 6.96                               | 2.52               | 4.44           | --                                      | --          | --                | --    | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 01/22/96    | 6.96                               | 4.72               | 2.24           | --                                      | --          | --                | --    | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 04/24/96    | 6.96                               | 3.99               | 2.97           | --                                      | --          | --                | --    | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 07/29/96    | 6.96                               | 3.59               | 3.37           | --                                      | --          | --                | --    | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 10/10/96    | 6.96                               | 2.84               | 4.12           | --                                      | --          | --                | --    | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

| DATE         | Vertical Measurements are in feet. |                    |                | Volumetric Measurements are in gallons. |             |                   | Notes | Analytical results are in parts per billion (ppb) |         |         |               |        |      |       |
|--------------|------------------------------------|--------------------|----------------|---|-------------|-------------------|-------|---|---------|---------|---------------|--------|------|-------|
|              | Well Head Elev.                    | Ground Water Elev. | Depth To Water | SPH Thickness                           | SPH Removed | Total SPH Removed |       | TPH-Gasoline                                      | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE | Other |
| <b>MW-9</b>  |                                    |                    |                |   |             |                   |       |   |         |         |               |        |      |       |
| 10/17/95     | 7.21                               | 2.41               | 4.80           | --                                      | --          | --                | --    | --  | --      | --      | --            | --     | --   | --    |
| 10/30/95     | 7.21                               | 2.24               | 4.97           | --                                      | --          | --                | --    | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 01/22/96     | 7.21                               | 3.81               | 3.40           | --                                      | --          | --                | --    | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 04/24/96     | 7.21                               | 3.03               | 4.18           | --                                      | --          | --                | --    | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 07/29/96     | 7.21                               | 2.52               | 4.69           | --                                      | --          | --                | --    | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 10/10/96     | 7.21                               | 2.01               | 5.20           | --                                      | --          | --                | --    | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| <b>MW-10</b> |                                    |                    |                |   |             |                   |       |   |         |         |               |        |      |       |
| 10/17/95     | 7.28                               | 2.23               | 5.05           | --                                      | --          | --                | --    | --  | --      | --      | --            | --     | --   | --    |
| 10/30/95     | 7.28                               | 2.17               | 5.11           | --                                      | --          | --                | --    | <50   | <0.5    | <0.5    | <0.5          | <0.5   | 5.1  | --    |
| 01/22/96     | 7.28                               | 3.25               | 4.03           | --                                      | --          | --                | --    | <50   | <0.5    | <0.5    | <0.5          | <0.5   | 0.70 | 17    |
| 04/24/96     | 7.28                               | 2.98               | 4.30           | --                                      | --          | --                | --    | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <0.5 | 12    |
| 07/29/96     | 7.28                               | 2.58               | 4.70           | --                                      | --          | --                | --    | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <0.5 | 14    |
| 10/10/96     | 7.28                               | 2.04               | 5.24           | --                                      | --          | --                | --    | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <0.5 | <2.5  |

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

| DATE              | Well Head Elev. | Ground Water Elev. | Depth To Water | SPH Thickness | SPH Removed | Total SPH Removed | Notes | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE | Other |
|-------------------|-----------------|--------------------|----------------|---------------|-------------|-------------------|-------|--------------|---------|---------|---------------|--------|------|-------|
| <b>TMW-1</b>      |                 |                    |                |               |             |                   |       |              |         |         |               |        |      |       |
| 11/11/93          | --              | --                 | --             | --            | --          | --                | --    | <1.0         | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| <b>TRIP BLANK</b> |                 |                    |                |               |             |                   |       |              |         |         |               |        |      |       |
| 02/14/90          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | 1.1     | <0.5          | <0.5   | --   | --    |
| 09/06/91          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 12/15/91          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 03/03/92          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 06/04/92          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 10/13/92          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 01/11/93          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 04/14/93          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 07/13/93          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 10/19/93          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | <0.5    | <0.5          | <1.5   | --   | --    |
| 01/27/94          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 04/07/94          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 07/01/94          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 10/05/94          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 01/12/95          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 04/26/95          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 07/12/95          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 10/30/95          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 01/22/96          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 04/24/96          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 07/29/96          | --              | --                 | --             | --            | --          | --                | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 10/10/96          | --              | --                 | --             | --            | --          | --                | --    | --           | --      | --      | --            | --     | --   | --    |

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on November 1, 1994.  
 Earlier field data and analytical results are drawn from the September 27, 1994 Groundwater Technology, Inc. report.

**ABBREVIATIONS:**

TPH = Total Petroleum Hydrocarbons  
 SPH = Separate-Phase Hydrocarbons  
 MTBE = Methyl t-butyl ether

# **Analytical Appendix**



|                           |  |                    |
|---------------------------|--|--------------------|
| Blaine Technical Services | Client Proj. ID: Chevron, 9-1153, 96010-A2 | Sampled: 10/10/96  |
| 985 Timothy Drive         | Sample Descript: C-3                       | Received: 10/11/96 |
| San Jose, CA 95133        | Matrix: LIQUID                             |                    |
| Attention: Jim Keller     | Analysis Method: 8015Mod/8020              | Analyzed: 10/16/96 |
|                           | Lab Number: 9610802-01                     | Reported: 10/25/96 |

QC Batch Number: GC101696BTEX21A  
Instrument ID: GCHP21

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

| Analyte               | Detection Limit<br>ug/L | Sample Results<br>ug/L |
|-----------------------|-------------------------|------------------------|
| TPPH as Gas           | 50                      | N.D. ✓                 |
| Methyl t-Butyl Ether  | 2.5                     | N.D.                   |
| Benzene               | 0.50                    | N.D.                   |
| Toluene               | 0.50                    | N.D.                   |
| Ethyl Benzene         | 0.50                    | N.D.                   |
| Xylenes (Total)       | 0.50                    | N.D.                   |
| Chromatogram Pattern: |                         |                        |
| <b>Surrogates</b>     | <b>Control Limits %</b> | <b>% Recovery</b> ✓    |
| Trifluorotoluene      | 70 130                  | 87                     |

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

*Shirley J. Penner*  
Peggy Penner  
Project Manager







|  |  |   |
|--|--|---|
| Blaine Technical Services<br>985 Timothy Drive<br>San Jose, CA 95133 | Client Proj. ID: Chevron, 9-1153, 96010-A2<br>Sample Descript: MW-4<br>Matrix: LIQUID<br>Analysis Method: 8015Mod/8020<br>Lab Number: 9610802-02 | Sampled: 10/10/96<br>Received: 10/11/96<br>Analyzed: 10/16/96<br>Reported: 10/25/96 |
| Attention: Jim Keller  |  |   |

QC Batch Number: GC101696BTEX21A  
Instrument ID: GCHP21

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

| Analyte               | Detection Limit<br>ug/L | Sample Results<br>ug/L |
|-----------------------|-------------------------|------------------------|
| TPPH as Gas           | 50                      | N.D.                   |
| Methyl t-Butyl Ether  | 2.5                     | N.D.                   |
| Benzene               | 0.50                    | N.D. ✓                 |
| Toluene               | 0.50                    | N.D. ✓                 |
| Ethyl Benzene         | 0.50                    | N.D.                   |
| Xylenes (Total)       | 0.50                    | N.D.                   |
| Chromatogram Pattern: |                         |                        |
| <b>Surrogates</b>     | <b>Control Limits %</b> | <b>% Recovery</b>      |
| Trifluorotoluene      | 70 130                  | 77 ✓                   |

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

*Sheila J. Penner*  
Peggy Penner  
Project Manager





|  |  |   |
|--|--|---|
| Blaine Technical Services<br>985 Timothy Drive<br>San Jose, CA 95133 | Client Proj. ID: Chevron, 9-1153, 96010-A2<br>Sample Descript: MW-5<br>Matrix: LIQUID<br>Analysis Method: 8015Mod/8020<br>Lab Number: 9610802-03 | Sampled: 10/10/96<br>Received: 10/11/96<br><br>Analyzed: 10/18/96<br>Reported: 10/25/96 |
| Attention: Jim Keller  |  |   |

QC Batch Number: GC101896BTEX21A  
Instrument ID: GCHP21

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

| Analyte                                | Detection Limit<br>ug/L     | Sample Results<br>ug/L |
|--|-----------------------------|------------------------|
| TPPH as Gas                            | 125                         | 1000                   |
| Methyl t-Butyl Ether                   | 6.2                         | N.D.                   |
| <b>Benzene</b>                         | 1.2                         | 18                     |
| Toluene                                | 1.2                         | N.D.                   |
| <b>Ethyl Benzene</b>                   | 1.2                         | 1.5                    |
| Xylenes (Total)                        | 1.2                         | N.D.                   |
| Chromatogram Pattern:<br>Weathered Gas |                             | C6-C12                 |
| <b>Surrogates</b>                      | <b>Control Limits %</b>     | <b>% Recovery</b>      |
| Trifluorotoluene                       | 70                      130 | 98                     |

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

*Shirley J. Penner*  
Peggy Penner  
Project Manager





|  |  |   |
|--|--|---|
| Blaine Technical Services<br>985 Timothy Drive<br>San Jose, CA 95133 | Client Proj. ID: Chevron, 9-1153, 96010-A2<br>Sample Descript: MW-6<br>Matrix: LIQUID<br>Analysis Method: 8015Mod/8020<br>Lab Number: 9610802-04 | Sampled: 10/10/96<br>Received: 10/11/96<br><br>Analyzed: 10/17/96<br>Reported: 10/25/96 |
| Attention: Jim Keller  |  |   |

QC Batch Number: GC101796BTEX02A  
Instrument ID: GCHP02

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

| Analyte                                | Detection Limit<br>ug/L     | Sample Results<br>ug/L |
|--|-----------------------------|------------------------|
| <b>TPPH as Gas</b>                     | <b>50</b>                   | <b>79</b>              |
| Methyl t-Butyl Ether                   | 2.5                         | N.D. ✓                 |
| <b>Benzene</b>                         | <b>0.50</b>                 | <b>31</b>              |
| Toluene                                | 0.50                        | N.D.                   |
| Ethyl Benzene                          | 0.50                        | N.D.                   |
| Xylenes (Total)                        | 0.50                        | N.D.                   |
| Chromatogram Pattern:<br>Discrete Peak |                             | <b>C6-C7</b>           |
| <b>Surrogates</b>                      | <b>Control Limits %</b>     | <b>% Recovery</b>      |
| Trifluorotoluene                       | 70                      130 | 86 ✓                   |

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

*Shula J. Penner*  
Peggy Penner  
Project Manager





|  |  |   |
|--|--|---|
| Blaine Technical Services<br>985 Timothy Drive<br>San Jose, CA 95133 | Client Proj. ID: Chevron, 9-1153, 96010-A2<br>Sample Descript: MW-7<br>Matrix: LIQUID<br>Analysis Method: 8015Mod/8020<br>Lab Number: 9610802-05 | Sampled: 10/10/96<br>Received: 10/11/96<br><br>Analyzed: 10/17/96<br>Reported: 10/25/96 |
| Attention: Jim Keller  |  |   |

QC Batch Number: GC101796BTEX02A  
Instrument ID: GCHP02

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

| Analyte               | Detection Limit<br>ug/L     | Sample Results<br>ug/L |
|-----------------------|-----------------------------|------------------------|
| TPPH as Gas           | 1250                        | 5800                   |
| Methyl t-Butyl Ether  | 62                          | N.D.                   |
| Benzene               | 12                          | 1700 ✓                 |
| Toluene               | 12                          | 28                     |
| Ethyl Benzene         | 12                          | 170                    |
| Xylenes (Total)       | 12                          | 210                    |
| Chromatogram Pattern: |                             | Gas                    |
| Surrogates            | Control Limits %            | % Recovery             |
| Trifluorotoluene      | 70                      130 | 99 ✓                   |

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

*[Handwritten Signature]*  
Peggy Penner  
Project Manager





|  |  |   |
|--|--|---|
| Blaine Technical Services<br>985 Timothy Drive<br>San Jose, CA 95133 | Client Proj. ID: Chevron, 9-1153, 96010-A2<br>Sample Descript: MW-8<br>Matrix: LIQUID<br>Analysis Method: 8015Mod/8020<br>Lab Number: 9610802-06 | Sampled: 10/10/96<br>Received: 10/11/96<br><br>Analyzed: 10/16/96<br>Reported: 10/25/96 |
|--|--|---|

QC Batch Number: GC101696BTEX21A  
Instrument ID: GCHP21

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

| Analyte               | Detection Limit<br>ug/L     | Sample Results<br>ug/L |
|-----------------------|-----------------------------|------------------------|
| TPPH as Gas           | 50                          | N.D.                   |
| Methyl t-Butyl Ether  | 2.5                         | N.D.                   |
| Benzene               | 0.50                        | N.D. ✓                 |
| Toluene               | 0.50                        | N.D.                   |
| Ethyl Benzene         | 0.50                        | N.D.                   |
| Xylenes (Total)       | 0.50                        | N.D.                   |
| Chromatogram Pattern: |                             | N.D. ✓                 |
| <b>Surrogates</b>     | <b>Control Limits %</b>     | <b>% Recovery</b>      |
| Trifluorotoluene      | 70                      130 | 82                     |

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

*Peggy Penner*  
Peggy Penner  
Project Manager





|  |  |   |
|--|--|---|
| Blaine Technical Services<br>985 Timothy Drive<br>San Jose, CA 95133 | Client Proj. ID: Chevron, 9-1153, 96010-A2<br>Sample Descript: MW-9<br>Matrix: LIQUID<br>Analysis Method: 8015Mod/8020<br>Lab Number: 9610802-07 | Sampled: 10/10/96<br>Received: 10/11/96<br>Analyzed: 10/16/96<br>Reported: 10/25/96 |
| Attention: Jim Keller  |  |   |

QC Batch Number: GC101696BTEX21A  
Instrument ID: GCHP21

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

| Analyte               | Detection Limit<br>ug/L     | Sample Results<br>ug/L |
|-----------------------|-----------------------------|------------------------|
| TPPH as Gas           | 50                          | N.D.                   |
| Methyl t-Butyl Ether  | 2.5                         | N.D.                   |
| Benzene               | 0.50                        | N.D. ✓                 |
| Toluene               | 0.50                        | N.D.                   |
| Ethyl Benzene         | 0.50                        | N.D.                   |
| Xylenes (Total)       | 0.50                        | N.D.                   |
| Chromatogram Pattern: |                             |                        |
| <b>Surrogates</b>     | <b>Control Limits %</b>     | <b>% Recovery</b> ✓    |
| Trifluorotoluene      | 70                      130 | 80                     |

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

*Sheila J. Penner*  
Peggy Penner  
Project Manager





|  |   |   |
|--|---|---|
| Blaine Technical Services<br>985 Timothy Drive<br>San Jose, CA 95133 | Client Proj. ID: Chevron, 9-1153, 96010-A2<br>Sample Descript: MW-10<br>Matrix: LIQUID<br>Analysis Method: 8015Mod/8020<br>Lab Number: 9610802-08 | Sampled: 10/10/96<br>Received: 10/11/96<br>Analyzed: 10/16/96<br>Reported: 10/25/96 |
| Attention: Jim Keller  |   |   |

QC Batch Number: GC101696BTEX21A  
Instrument ID: GCHP21

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

| Analyte               | Detection Limit<br>ug/L     | Sample Results<br>ug/L |
|-----------------------|-----------------------------|------------------------|
| TPPH as Gas           | 50                          | N.D.                   |
| Methyl t-Butyl Ether  | 2.5                         | N.D. ✓                 |
| Benzene               | 0.50                        | N.D.                   |
| Toluene               | 0.50                        | N.D.                   |
| Ethyl Benzene         | 0.50                        | N.D.                   |
| Xylenes (Total)       | 0.50                        | N.D.                   |
| Chromatogram Pattern: |                             | N.D. ✓                 |
| <b>Surrogates</b>     | <b>Control Limits %</b>     | <b>% Recovery</b>      |
| Trifluorotoluene      | 70                      130 | 81 ✓                   |

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

*Peggy Penner*  
Peggy Penner  
Project Manager





Blaine Technical Services  
985 Timothy Drive  
San Jose, CA 95133  
Attention: Jim Keller

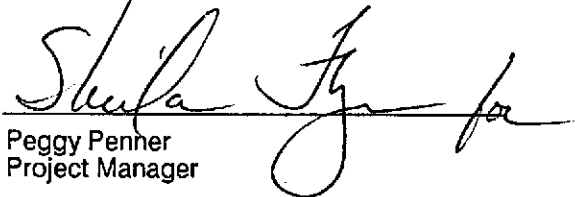
Client Proj. ID: Chevron, 9-1153, 96010-A2  
Lab Proj. ID: 9610802

Received: 10/11/96  
Reported: 10/25/96

### LABORATORY NARRATIVE

TPH Note: Sample 9610802-03 was diluted 2.5-fold.  
Sample 9610802-05 was diluted 25-fold.

SEQUOIA ANALYTICAL

  
Peggy Penner  
Project Manager







# Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233  
 404 N. Wiget Lane Walnut Creek, CA 94598 (510) 988-9600 FAX (510) 988-9673  
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Blaine Tech Services, Inc. Client Project ID: Chevron 9-1153 / 96010-A2  
 985 Timothy Drive Matrix: Liquid  
 San Jose, CA 95133  
 Attention: Jim Keller Work Order #: 9610802 -01, 02, 06-08 Reported: Oct 28, 1996


## QUALITY CONTROL DATA REPORT

| Analyte:       | Benzene         | Toluene         | Ethyl Benzene   | Xylenes         |
|----------------|-----------------|-----------------|-----------------|-----------------|
| QC Batch#:     | GC101696BTEX21A | GC101696BTEX21A | GC101696BTEX21A | GC101696BTEX21A |
| Analy. Method: | EPA 8020        | EPA 8020        | EPA 8020        | EPA 8020        |
| Prep. Method:  | EPA 5030        | EPA 5030        | EPA 5030        | EPA 5030        |

|                   |           |           |           |           |
|-------------------|-----------|-----------|-----------|-----------|
| Analyst:          | G. Fish   | G. Fish   | G. Fish   | G. Fish   |
| MS/MSD #:         | 961057904 | 961057904 | 961057904 | 961057904 |
| Sample Conc.:     | N.D.      | N.D.      | N.D.      | N.D.      |
| Prepared Date:    | 10/16/96  | 10/16/96  | 10/16/96  | 10/16/96  |
| Analyzed Date:    | 10/16/96  | 10/16/96  | 10/16/96  | 10/16/96  |
| Instrument I.D.#: | GCHP21    | GCHP21    | GCHP21    | GCHP21    |
| Conc. Spiked:     | 10 µg/L   | 10 µg/L   | 10 µg/L   | 30 µg/L   |
| Result:           | 9.0       | 8.5       | 8.5       | 25        |
| MS % Recovery:    | 90        | 85        | 85        | 83        |
| Dup. Result:      | 9.6       | 9.9       | 9.1       | 27        |
| MSD % Recov.:     | 96        | 99        | 91        | 90        |
| RPD:              | 6.5       | 15        | 6.8       | 7.7       |
| RPD Limit:        | 0-25      | 0-25      | 0-25      | 0-25      |

| LCS #:            | BLK101696 | BLK101696 | BLK101696 | BLK101696 |
|-------------------|-----------|-----------|-----------|-----------|
| Prepared Date:    | 10/16/96  | 10/16/96  | 10/16/96  | 10/16/96  |
| Analyzed Date:    | 10/16/96  | 10/16/96  | 10/16/96  | 10/16/96  |
| Instrument I.D.#: | GCHP21    | GCHP21    | GCHP21    | GCHP21    |
| Conc. Spiked:     | 10 µg/L   | 10 µg/L   | 10 µg/L   | 30 µg/L   |
| LCS Result:       | 11        | 9.7       | 9.6       | 29        |
| LCS % Recov.:     | 110       | 97        | 96        | 97        |

|                |        |        |        |        |
|----------------|--------|--------|--------|--------|
| MS/MSD         | 60-140 | 60-140 | 60-140 | 60-140 |
| LCS            | 70-130 | 70-130 | 70-130 | 70-130 |
| Control Limits |        |        |        |        |

**SEQUOIA ANALYTICAL**  
  
 Peggy Penner  
 Project Manager

**Please Note:**  
 The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

\*\* MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9610802.BLA <1>





Blaine Tech Services, Inc.  
985 Timothy Drive  
San Jose, CA 95133  
Attention: Jim Keller

Client Project ID: **Chevron 9-1153 / 96010-A2**  
Matrix: **Liquid**

Work Order #: **9610802-04, 05**

Reported: **Oct 28, 1996**

**QUALITY CONTROL DATA REPORT**

| Analyte:       | Benzene         | Toluene         | Ethyl Benzene   | Xylenes         |
|----------------|-----------------|-----------------|-----------------|-----------------|
| QC Batch#:     | GC101796BTEX02A | GC101796BTEX02A | GC101796BTEX02A | GC101796BTEX02A |
| Analy. Method: | EPA 8020        | EPA 8020        | EPA 8020        | EPA 8020        |
| Prep. Method:  | EPA 5030        | EPA 5030        | EPA 5030        | EPA 5030        |

|                   |            |            |            |            |
|-------------------|------------|------------|------------|------------|
| Analyst:          | Y. Arteaga | Y. Arteaga | Y. Arteaga | Y. Arteaga |
| MS/MSD #:         | 961057905  | 961057905  | 961057905  | 961057905  |
| Sample Conc.:     | N.D.       | N.D.       | N.D.       | N.D.       |
| Prepared Date:    | 10/17/96   | 10/17/96   | 10/17/96   | 10/17/96   |
| Analyzed Date:    | 10/17/96   | 10/17/96   | 10/17/96   | 10/17/96   |
| Instrument I.D.#: | GCHP2      | GCHP2      | GCHP2      | GCHP2      |
| Conc. Spiked:     | 10 µg/L    | 10 µg/L    | 10 µg/L    | 30 µg/L    |
| Result:           | 14         | 12         | 12         | 32         |
| MS % Recovery:    | 140        | 120        | 120        | 107        |
| Dup. Result:      | 12         | 10         | 9.8        | 27         |
| MSD % Recov.:     | 120        | 100        | 98         | 90         |
| RPD:              | 15         | 18         | 20         | 17         |
| RPD Limit:        | 0-25       | 0-25       | 0-25       | 0-25       |

|                   |           |           |           |           |
|-------------------|-----------|-----------|-----------|-----------|
| LCS #:            | BLK101796 | BLK101796 | BLK101796 | BLK101796 |
| Prepared Date:    | 10/17/96  | 10/17/96  | 10/17/96  | 10/17/96  |
| Analyzed Date:    | 10/17/96  | 10/17/96  | 10/17/96  | 10/17/96  |
| Instrument I.D.#: | GCHP2     | GCHP2     | GCHP2     | GCHP2     |
| Conc. Spiked:     | 10 µg/L   | 10 µg/L   | 10 µg/L   | 30 µg/L   |
| LCS Result:       | 12        | 11        | 10        | 28        |
| LCS % Recov.:     | 120       | 110       | 100       | 93        |

|                |        |        |        |        |
|----------------|--------|--------|--------|--------|
| MS/MSD         | 60-140 | 60-140 | 60-140 | 60-140 |
| LCS            | 70-130 | 70-130 | 70-130 | 70-130 |
| Control Limits |        |        |        |        |

**SEQUOIA ANALYTICAL**

Peggy Penner  
Project Manager

**Please Note:**

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

\*\* MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9610802.BLA <2>





Blaine Tech Services, Inc.  
985 Timothy Drive  
San Jose, CA 95133  
Attention: Jim Keller

Client Project ID: Chevron 9-1153 / 96010-A2  
Matrix: Liquid

Work Order #: 9610802-03

Reported: Oct 28, 1996

**QUALITY CONTROL DATA REPORT**

| Analyte:       | Benzene         | Toluene         | Ethyl Benzene   | Xylenes         |
|----------------|-----------------|-----------------|-----------------|-----------------|
| QC Batch#:     | GC101896BTEX21A | GC101896BTEX21A | GC101896BTEX21A | GC101896BTEX21A |
| Analy. Method: | EPA 8020        | EPA 8020        | EPA 8020        | EPA 8020        |
| Prep. Method:  | EPA 5030        | EPA 5030        | EPA 5030        | EPA 5030        |

|                   |           |           |           |           |
|-------------------|-----------|-----------|-----------|-----------|
| Analyst:          | G. Fish   | G. Fish   | G. Fish   | G. Fish   |
| MS/MSD #:         | 961082606 | 961082606 | 961082606 | 961082606 |
| Sample Conc.:     | N.D.      | N.D.      | N.D.      | N.D.      |
| Prepared Date:    | 10/18/96  | 10/18/96  | 10/18/96  | 10/18/96  |
| Analyzed Date:    | 10/18/96  | 10/18/96  | 10/18/96  | 10/18/96  |
| Instrument I.D.#: | GCHP21    | GCHP21    | GCHP21    | GCHP21    |
| Conc. Spiked:     | 10 µg/L   | 10 µg/L   | 10 µg/L   | 30 µg/L   |
| Result:           | 11        | 10        | 10        | 31        |
| MS % Recovery:    | 110       | 100       | 100       | 103       |
| Dup. Result:      | 11        | 10        | 10        | 31        |
| MSD % Recov.:     | 110       | 100       | 100       | 103       |
| RPD:              | 0.0       | 0.0       | 0.0       | 0.0       |
| RPD Limit:        | 0-25      | 0-25      | 0-25      | 0-25      |

| LCS #:            | BLK101896 | BLK101896 | BLK101896 | BLK101896 |
|-------------------|-----------|-----------|-----------|-----------|
| Prepared Date:    | 10/18/96  | 10/18/96  | 10/18/96  | 10/18/96  |
| Analyzed Date:    | 10/18/96  | 10/18/96  | 10/18/96  | 10/18/96  |
| Instrument I.D.#: | GCHP21    | GCHP21    | GCHP21    | GCHP21    |
| Conc. Spiked:     | 10 µg/L   | 10 µg/L   | 10 µg/L   | 30 µg/L   |
| LCS Result:       | 11        | 10        | 10        | 31        |
| LCS % Recov.:     | 110       | 100       | 100       | 103       |

|                |        |        |        |        |
|----------------|--------|--------|--------|--------|
| MS/MSD         | 60-140 | 60-140 | 60-140 | 60-140 |
| LCS            | 70-130 | 70-130 | 70-130 | 70-130 |
| Control Limits |        |        |        |        |

**SEQUOIA ANALYTICAL**

Reggy Penner  
Project Manager

**Please Note:**

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

\*\* MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9610802.BLA <3>



# **Field Data Sheets**

# WELL GAUGING DATA

Project # ~~961015~~ 761015-AC Date 10-10-96 Client CHEVRON 9-1153

Site 3126 FERNSIDE BLVD., ALAMEDA

| Well I.D. | Well Size (in.) | Sheen/Odor | Depth to Immiscible Liquid (feet) | Thickness of Immiscible Liquid (ft.) | Volume of Immiscibles Removed (ml) | Depth to Water (feet) | Depth to Well Bottom (feet) | Survey Point: TOB or TOC |
|-----------|-----------------|------------|-----------------------------------|--------------------------------------|------------------------------------|-----------------------|-----------------------------|--------------------------|
| C-1       | 3               | FP         | 4.48                              | 0.10                                 | 500ml                              | 4.58                  | —                           | TOC                      |
| C-3       | 3               |            |                                   |                                      |                                    | 4.06                  | 19.30                       |                          |
| MW-4      | 2               |            |                                   |                                      |                                    | 3.96                  | 13.30                       |                          |
| MW-5      | 2               |            |                                   |                                      |                                    | 3.60                  | 13.12                       |                          |
| MW-6      | 2               |            |                                   |                                      |                                    | 4.37                  | 14.01                       |                          |
| MW-7      | 2               |            |                                   |                                      |                                    | 5.52                  | 14.52                       |                          |
| MW-8      | 2               |            |                                   |                                      |                                    | 4.12                  | 9.16                        |                          |
| MW-9      | 2               |            |                                   |                                      |                                    | 5.20                  | 8.53                        |                          |
| MW-10     | 2               |            |                                   |                                      |                                    | 5.24                  | 8.90                        |                          |
|           |                 |            |                                   |                                      |                                    |                       |                             |                          |
|           |                 |            |                                   |                                      |                                    |                       |                             |                          |
|           |                 |            |                                   |                                      |                                    |                       |                             |                          |
|           |                 |            |                                   |                                      |                                    |                       |                             |                          |
|           |                 |            |                                   |                                      |                                    |                       |                             |                          |
|           |                 |            |                                   |                                      |                                    |                       |                             |                          |
|           |                 |            |                                   |                                      |                                    |                       |                             |                          |



# CHEVRON WELL MONITORING DATA SHEET

|                            |   |
|----------------------------|---|
| Project #: 961010-A2       | Station #: 9-1153                           |
| Sampler: RV                | Date: 10-10-96                              |
| Well I.D.: C-3             | Well Diameter: <del>2</del> (3) 4 6 8 _____ |
| Total Well Depth: 19.30    | Depth to Water: 4.06                        |
| Depth to Free Product:     | Thickness of Free Product (feet):           |
| Referenced to: (PVD) Grade | D.O. Meter (if req'd): YSI HACH             |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 2"            | 0.16       | 5"            | 1.02                        |
| 3"            | 0.37       | 6"            | 1.47                        |
| 4"            | 0.65       | Other         | radius <sup>2</sup> * 0.163 |

|               |   |                  |   |
|---------------|---|------------------|---|
| Purge Method: | Bailer  | Sampling Method: | Bailer  |
|               | Disposable Bailer <input checked="" type="checkbox"/> |                  | Disposable Bailer <input checked="" type="checkbox"/> |
|               | Middleburg  |                  | Extraction Port                                       |
|               | Electric Submersible                                  | Other: _____     |   |
|               | Extraction Pump                                       |                  |   |
| Other: _____  |   |                  |   |

~~2.4~~ 5.6  
 1 Case Volume (Gals.)

x

\_\_\_\_\_ 3  
 Specified Volumes

=

~~7.2~~ 16.8 Gals.  
 Calculated Volume

| Time | Temp (°F) | pH  | Cond. | Gals. Removed | Observations |
|------|-----------|-----|-------|---------------|--------------|
| 1127 | 70.4      | 7.3 | 750   | 2.5           |              |
| 1130 | 69.8      | 7.3 | 740   | 5.0           |              |
| 1133 | 69.8      | 7.3 | 740   | 7.5           |              |
|      |           |     |       |               |              |
|      |           |     |       |               |              |

|   |   |
|---|---|
| Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Gallons actually evacuated: 7.5               |
| Sampling Time: 1140   | Sampling Date: 10-10-96                       |
| Sample I.D.: C-3  | Laboratory: Sequoia GTEL N. Creek Assoc. Labs |

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

Duplicate I.D.: \_\_\_\_\_ Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

|                  |                    |            |             |             |
|------------------|--------------------|------------|-------------|-------------|
| D.O. (if req'd): | Pre-purge:         | mg/L       | Post-purge: | mg/L        |
|                  | O.R.P. (if req'd): | Pre-purge: | mV          | Post-purge: |

## CHEVRON WELL MONITORING DATA SHEET

|                          |                                   |
|--------------------------|-----------------------------------|
| Project #: 961010-A 2    | Station #: 9-1153                 |
| Sampler: <i>rw</i>       | Date: 10-10-96                    |
| Well I.D.: MW-4          | Well Diameter: (2) 3 4 6 8 _____  |
| Total Well Depth: 13.30  | Depth to Water: 3.96              |
| Depth to Free Product:   | Thickness of Free Product (feet): |
| Referenced to: PVC Grade | D.O. Meter (if req'd): YSI HACH   |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 2"            | 0.16       | 5"            | 1.02                        |
| 3"            | 0.37       | 6"            | 1.47                        |
| 4"            | 0.65       | Other         | radius <sup>2</sup> * 0.163 |

Purge Method:  Bailer                      Sampling Method:  Bailer  
 Disposable Bailer                       Disposable Bailer  
 Middleburg                                       Extraction Port  
 Electric Submersible                      Other: \_\_\_\_\_  
 Extraction Pump  
 Other: \_\_\_\_\_

|                       |   |                   |   |                   |       |
|-----------------------|---|-------------------|---|-------------------|-------|
| 1.5                   | x | 3                 | = | 4.5               | Gals. |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |       |

| Time | Temp (°F) | pH  | Cond. | Gals. Removed | Observations |
|------|-----------|-----|-------|---------------|--------------|
| 1154 | 68.8      | 7.4 | 940   | 1.5           |              |
| 1155 | 68.6      | 7.3 | 830   | 3.0           |              |
| 1157 | 67.4      | 7.3 | 820   | 4.5           |              |
|      |           |     |       |               |              |
|      |           |     |       |               |              |

Did well dewater? Yes  No  Gallons actually evacuated: 4.5

Sampling Time: 1200                      Sampling Date: 10-10-96

Sample I.D.: MW-4                      Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

Duplicate I.D.:                      Analyzed for: TPH-G BTEX MTBE TPH-D Other:

|                    |            |      |             |      |
|--------------------|------------|------|-------------|------|
| D.O. (if req'd):   | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV   | Post-purge: | mV   |

## CHEVRON WELL MONITORING DATA SHEET

|                                |                                       |
|--------------------------------|---------------------------------------|
| Project #: <u>961010-AZ</u>    | Station #: <u>9-1153</u>              |
| Sampler: <u>RV</u>             | Date: <u>10-10-96</u>                 |
| Well I.D.: <u>MW-5</u>         | Well Diameter: <u>②</u> 3 4 6 8 _____ |
| Total Well Depth: <u>13.12</u> | Depth to Water: <u>3.60</u>           |
| Depth to Free Product:         | Thickness of Free Product (feet):     |
| Referenced to: PVC Grade       | D.O. Meter (if req'd): YSI HACH       |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 2"            | 0.16       | 5"            | 1.02                        |
| 3"            | 0.37       | 6"            | 1.47                        |
| 4"            | 0.65       | Other         | radius <sup>2</sup> * 0.163 |

Purge Method: Bailer                      Sampling Method: Bailer

Disposable Bailer                       Disposable Bailer

Middleburg    Extraction Port

Electric Submersible                                      Other: \_\_\_\_\_

Extraction Pump

Other: \_\_\_\_\_

|                       |          |                   |     |                   |       |
|-----------------------|----------|-------------------|-----|-------------------|-------|
| <u>1.5</u>            | $\times$ | <u>3</u>          | $=$ | <u>4.5</u>        | Gals. |
| 1 Case Volume (Gals.) |          | Specified Volumes |     | Calculated Volume |       |

| Time | Temp (°F) | pH  | Cond. | Gals. Removed | Observations |
|------|-----------|-----|-------|---------------|--------------|
| 1207 | 70.2      | 6.8 | 760   | 1.5           | ODOR         |
| 1209 | 69.6      | 6.9 | 810   | 3.0           |              |
| 1210 | 69.4      | 6.9 | 800   | 4.5           |              |
|      |           |     |       |               |              |
|      |           |     |       |               |              |

Did well dewater? Yes  No                      Gallons actually evacuated: 4.5

Sampling Time: 1215                      Sampling Date: 10-10-96

Sample I.D.: MW-5                      Laboratory: Sequoia GTEL N. Creek Assoc. Labs

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Duplicate I.D.:                      Analyzed for: TPH-G BTEX MTBE TPH-D Other:

|                    |            |      |             |      |
|--------------------|------------|------|-------------|------|
| D.O. (if req'd):   | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV   | Post-purge: | mV   |



# CHEVRON WELL MONITORING DATA SHEET

|                                 |   |
|---------------------------------|---|
| Project #: <u>961010-AZ</u>     | Station #: <u>9-1153</u>  |
| Sampler: <u>RV</u>              | Date: <u>10-10-96</u>   |
| Well I.D.: <u>MW-6</u>          | Well Diameter: <u>2</u> 3 4 6 8 <u>    </u>                               |
| Total Well Depth: <u>14.01</u>  | Depth to Water: <u>4.37</u>   |
| Depth to Free Product:          | Thickness of Free Product (feet):   |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd):                      YSI                      HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 2"            | 0.16       | 5"            | 1.02                        |
| 3"            | 0.37       | 6"            | 1.47                        |
| 4"            | 0.65       | Other         | radius <sup>2</sup> * 0.163 |

Purge Method:                      Bailer                      Sampling Method:                      Bailer

Disposable Bailer                       Disposable Bailer

Middleburg                      Extraction Port

Electric Submersible                      Other:                     

Extraction Pump

Other:                     

$$\frac{1.5}{1 \text{ Case Volume (Gals.)}} \times \frac{3}{\text{Specified Volumes}} = \frac{4.5}{\text{Calculated Volume}} \text{ Gals.}$$

| Time        | Temp (°F)   | pH         | Cond.       | Gals. Removed | Observations |
|-------------|-------------|------------|-------------|---------------|--------------|
| <u>1105</u> | <u>69.8</u> | <u>7.5</u> | <u>1200</u> | <u>1.5</u>    |              |
| <u>1106</u> | <u>69.6</u> | <u>7.4</u> | <u>1100</u> | <u>3.0</u>    |              |
| <u>1107</u> | <u>69.6</u> | <u>7.4</u> | <u>1100</u> | <u>4.5</u>    |              |
|             |             |            |             |               |              |
|             |             |            |             |               |              |

Did well dewater?    Yes    No    Gallons actually evacuated: 4.5

Sampling Time: 1110    Sampling Date: 10-10-96

Sample I.D.: MW-6    Laboratory: Sequoia GTEL N. Creek Assoc. Labs

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Duplicate I.D.:                      Analyzed for: TPH-G BTEX MTBE TPH-D Other:

|                    |            |      |             |      |
|--------------------|------------|------|-------------|------|
| D.O. (if req'd):   | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV   | Post-purge: | mV   |

## CHEVRON WELL MONITORING DATA SHEET

|                                 |   |
|---------------------------------|---|
| Project #: 961010-AZ            | Station #: 9-1153                       |
| Sampler: M-J                    | Date: 10-10-96                          |
| Well I.D.: MW-7                 | Well Diameter: $\text{O}$ 3 4 6 8 _____ |
| Total Well Depth: 14.52         | Depth to Water: 5.52                    |
| Depth to Free Product:          | Thickness of Free Product (feet):       |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): YSI HACH         |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 2"            | 0.16       | 5"            | 1.02                        |
| 3"            | 0.37       | 6"            | 1.47                        |
| 4"            | 0.65       | Other         | radius <sup>2</sup> * 0.163 |

Purge Method:  Bailer      Sampling Method:  Bailer  
 Disposable Bailer       Disposable Bailer  
 Middleburg       Extraction Port  
 Electric Submersible      Other: \_\_\_\_\_  
 Extraction Pump  
 Other: \_\_\_\_\_

|                       |   |                   |   |                   |       |
|-----------------------|---|-------------------|---|-------------------|-------|
| 1.4                   | x | 3                 | = | 4.2               | Gals. |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |       |

| Time | Temp (°F) | pH  | Cond. | Gals. Removed | Observations |
|------|-----------|-----|-------|---------------|--------------|
| 1222 | 72.4      | 6.4 | 800   | 1.5           |              |
| 1223 | 71.8      | 6.6 | 810   | 3.0           |              |
| 1227 | 71.0      | 6.7 | 820   | 4.5           |              |
|      |           |     |       |               |              |
|      |           |     |       |               |              |

Did well dewater?    Yes     No    Gallons actually evacuated: 4.5

Sampling Time: 1230    Sampling Date: 10-10-96

Sample I.D.: MW-7    Laboratory: Sequoia GTEL N. Creek Assoc. Labs

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Duplicate I.D.:    Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):    Pre-purge:    mg/L    Post-purge:    mg/L

O.R.P. (if req'd):    Pre-purge:    mV    Post-purge:    mV

## CHEVRON WELL MONITORING DATA SHEET

|                          |                                   |
|--------------------------|-----------------------------------|
| Project #: 961010-A2     | Station #: 9-1153                 |
| Sampler: R               | Date: 10-10-96                    |
| Well I.D.: MW-8          | Well Diameter: 3 4 6 8            |
| Total Well Depth: 9.16   | Depth to Water: 4.12              |
| Depth to Free Product:   | Thickness of Free Product (feet): |
| Referenced to: PVC Grade | D.O. Meter (if req'd): YSI HACH   |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 2"            | 0.16       | 5"            | 1.02                        |
| 3"            | 0.37       | 6"            | 1.47                        |
| 4"            | 0.65       | Other         | radius <sup>2</sup> * 0.163 |

Purge Method: Bailer      Disposable Bailer       Middleburg      Electric Submersible      Extraction Pump      Other: \_\_\_\_\_

Sampling Method: Bailer      Disposable Bailer       Extraction Port      Other: \_\_\_\_\_

|                       |   |                   |   |                   |       |
|-----------------------|---|-------------------|---|-------------------|-------|
| .8                    | x | 3                 | = | 2.4               | Gals. |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |       |

| Time | Temp (°F) | pH  | Cond. | Gals. Removed | Observations |
|------|-----------|-----|-------|---------------|--------------|
| 1050 | 70.2      | 6.9 | 1000  | 1.0           |              |
| 1051 | 70.0      | 7.0 | 1000  | 2.0           |              |
| 1052 | 69.4      | 7.0 | 1000  | 2.5           |              |
|      |           |     |       |               |              |
|      |           |     |       |               |              |

Did well dewater? Yes  No  Gallons actually evacuated: 2.5

Sampling Time: 1100      Sampling Date: 10-10-96

Sample I.D.: MW-8      Laboratory: Sequoia GTEL N. Creek Assoc. Labs

Analyzed for:  TPH-G  BTEX  MTBE  TPH-D Other: \_\_\_\_\_

Duplicate I.D.: \_\_\_\_\_ Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

|                    |            |      |             |      |
|--------------------|------------|------|-------------|------|
| D.O. (if req'd):   | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV   | Post-purge: | mV   |

## CHEVRON WELL MONITORING DATA SHEET

|                          |                                   |
|--------------------------|-----------------------------------|
| Project #: 961010-AZ     | Station #: 9-1153                 |
| Sampler: RV              | Date: 10-10-96                    |
| Well I.D.: MW-9          | Well Diameter: <u>2</u> 3 4 6 8   |
| Total Well Depth: 8-53   | Depth to Water: 5.20              |
| Depth to Free Product:   | Thickness of Free Product (feet): |
| Referenced to: PVC Grade | D.O. Meter (if req'd): YSI HACH   |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 2"            | 0.16       | 5"            | 1.02                        |
| 3"            | 0.37       | 6"            | 1.47                        |
| 4"            | 0.65       | Other         | radius <sup>2</sup> * 0.163 |

Purge Method: Bailer      Sampling Method: Bailer  
 Disposable Bailer ✓      Disposable Bailer ✓  
 Middleburg      Extraction Port  
 Electric Submersible      Other: \_\_\_\_\_  
 Extraction Pump  
 Other: \_\_\_\_\_

$$\frac{1.5}{1 \text{ Case Volume (Gals.)}} \times \frac{3}{\text{Specified Volumes}} = \frac{1.5}{\text{Calculated Volume}} \text{ Gals.}$$

| Time | Temp (°F) | pH                 | Cond. | Gals. Removed | Observations |
|------|-----------|--------------------|-------|---------------|--------------|
| 1030 | 69.4      | <del>6.4</del> 6.4 | 1200  | .5            |              |
| 1031 | 69.6      | 7.0                | 1100  | 1.0           |              |
| 1032 | 69.6      | 7.0                | 1000  | 1.5           |              |
|      |           |                    |       |               |              |
|      |           |                    |       |               |              |

Did well dewater? Yes  No  Gallons actually evacuated: 1.5

Sampling Time: 1040      Sampling Date: 10-10-96

Sample I.D.: MW-9      Laboratory: Sequia GTEL N. Creek Assoc. Labs

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Duplicate I.D.:      Analyzed for: TPH-G BTEX MTBE TPH-D Other:

|                    |            |      |             |      |
|--------------------|------------|------|-------------|------|
| D.O. (if req'd):   | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV   | Post-purge: | mV   |

## CHEVRON WELL MONITORING DATA SHEET

|                          |   |
|--------------------------|---|
| Project #: 961010 - A2   | Station #: 9-1153                       |
| Sampler: RV              | Date: 10-10-96                          |
| Well I.D.: MW-10         | Well Diameter: <u>(2)</u> 3 4 6 8 _____ |
| Total Well Depth: 890    | Depth to Water: 5.24                    |
| Depth to Free Product:   | Thickness of Free Product (feet):       |
| Referenced to: PVC Grade | D.O. Meter (if req'd): YSI HACH         |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 2"            | 0.16       | 5"            | 1.02                        |
| 3"            | 0.37       | 6"            | 1.47                        |
| 4"            | 0.65       | Other         | radius <sup>2</sup> * 0.163 |

Purge Method: Bailer                                  Sampling Method: Bailer  
                             Disposable Bailer ✓    Disposable Bailer \_\_\_\_\_  
                             Middleburg    Extraction Port  
                             Electric Submersible    Other: \_\_\_\_\_  
                             Extraction Pump  
 Other: \_\_\_\_\_

|                       |   |                   |   |                   |       |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>1.5</u>            | x | <u>3</u>          | = | <u>1.5</u>        | Gals. |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |       |

| Time | Temp (°F) | pH  | Cond. | Gals. Removed | Observations |
|------|-----------|-----|-------|---------------|--------------|
| 1002 | 71.6      | 6.8 | 3000  | 1.5           |              |
| 1003 | 70.8      | 6.9 | 2900  | 1.0           |              |
| 1004 | 70.6      | 6.7 | 2900  | 1.5           |              |
|      |           |     |       |               |              |
|      |           |     |       |               |              |

|   |  |
|---|--|
| Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Gallons actually evacuated: <u>1.5</u>               |
| Sampling Time: <u>1010</u>  | Sampling Date: <u>10-10-96</u>                       |
| Sample I.D.: <u>MW-10</u>   | Laboratory: <u>Sequoia</u> GTEL N. Creek Assoc. Labs |
| Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> TPH-D Other:                       |  |
| Duplicate I.D.:   | Analyzed for: TPH-G BTEX MTBE TPH-D Other:           |
| D.O. (if req'd):  | Pre-purge: _____ mg/L      Post-purge: _____ mg/L    |
| O.R.P. (if req'd):  | Pre-purge: _____ mV      Post-purge: _____ mV        |