



1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
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ENVIRONMENTAL
PROTECTION

97 NOV 18 AM 9:19

November 7, 1997

Phil Briggs
Chevron U.S.A. Products Company
P.O. Box 6004
San Ramon, CA 94583-0904

4th Quarter 1997 Monitoring at 9-0329

Fourth Quarter 1997 Groundwater Monitoring at
Chevron Service Station Number 9-0329
340 Highland Avenue
Piedmont, CA

Monitoring Performed on October 8, 1997

Groundwater Sampling Report 971008-G-1

This report covers the routine 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,

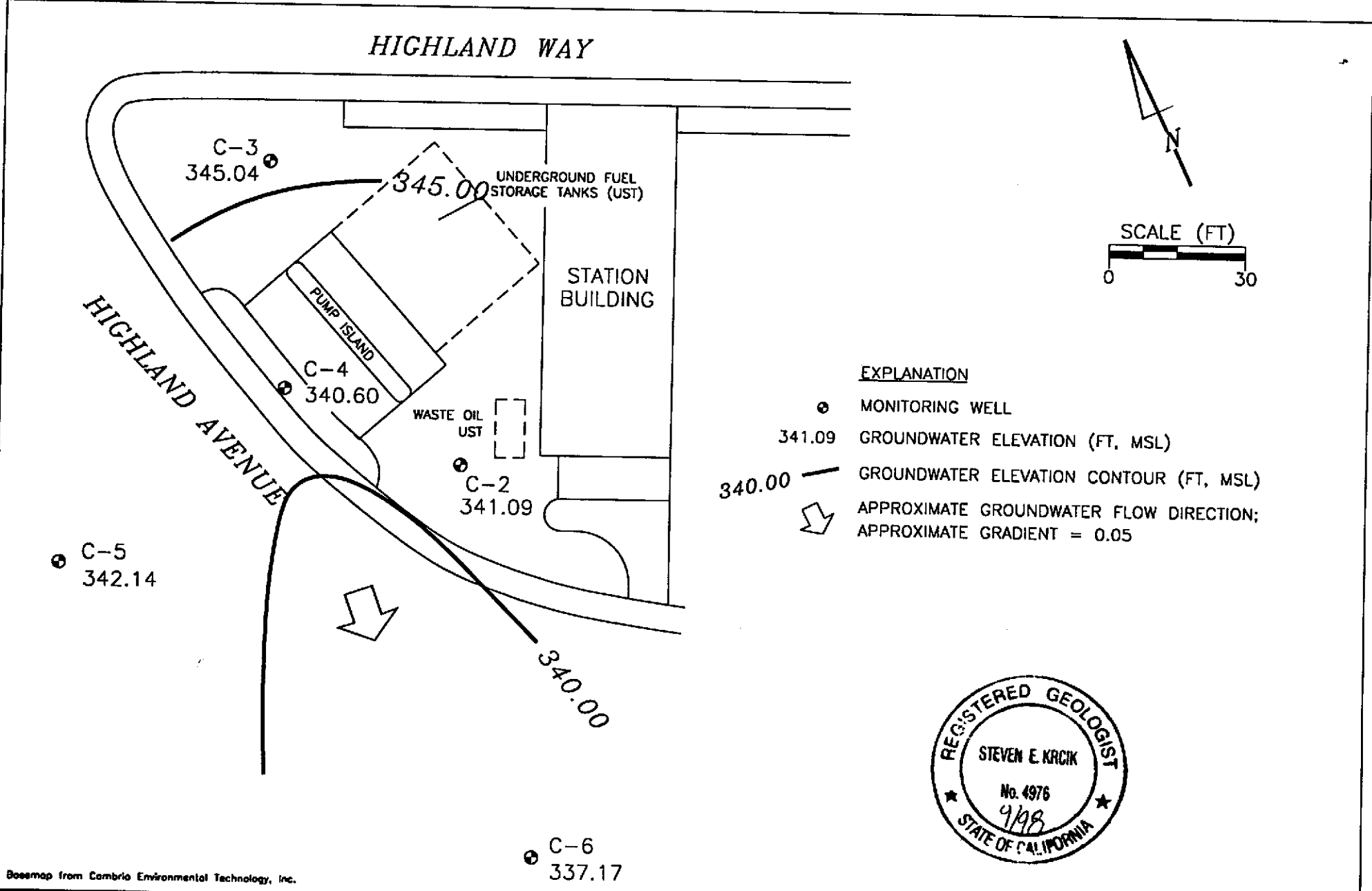
A handwritten signature in black ink, appearing to read 'Francis Thie', written in a cursive style.

Francis Thie
Vice President

FPT/ew

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

Professional Engineering Appendix



Basemap from Cambrio Environmental Technology, Inc.

PREPARED BY

RRM
engineering contracting firm

Chevron Station 9-0329
340 Highland Avenue
Piedmont, California

GROUNDWATER ELEVATION CONTOUR MAP,
OCTOBER 8, 1997

FIGURE:
1
PROJECT:
DAC04

Table of Well Data and Analytical Results

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

| DATE | Well Head Elev. | Ground Water Elev. | Depth To Water | Notes | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE |
|------------|-----------------|--------------------|----------------|------------------|--------------|---------|---------|---------------|--------|---------|
| C-2 | | | | | | | | | | |
| 08/07/89 | 94.19 | 91.33 | 2.88 | -- | 34,000 | 580 | 60 | 170 | 270 | -- |
| 11/15/89 | 94.19 | 91.39 | 2.80 | -- | 8100 | 500 | 36 | 420 | 180 | -- |
| 02/01/91 | 94.19 | 90.41 | 3.75 | -- | 6800 | 490 | 21 | 310 | 86 | -- |
| 04/16/91 | 94.19 | 91.64 | 2.55 | -- | 9600 | 810 | 43 | 550 | 270 | -- |
| 10/16/91 | 94.19 | 90.67 | 3.52 | -- | 7100 | 320 | 23 | 200 | 60 | -- |
| 01/08/92 | 94.19 | 90.04 | 4.15 | -- | 2400 | 190 | 9.0 | 83 | 22 | -- |
| 04/10/92 | 94.19 | 91.23 | 2.96 | -- | 6600 | 550 | 33 | 340 | 170 | -- |
| 07/14/92 | 94.19 | 91.36 | 2.83 | -- | 9000 | 680 | 330 | 580 | 690 | -- |
| 10/05/92 | 94.19 | 89.81 | 4.38 | -- | 5500 | 250 | 17 | 130 | 82 | -- |
| 01/06/93 | 94.19 | 90.25 | 3.94 | -- | 5500 | 190 | 32 | 41 | 54 | -- |
| 03/29/93 | 94.19 | 92.10 | 2.09 | -- | 19,000 | 670 | 40 | 180 | 370 | -- |
| 07/02/93 | 94.19 | 92.10 | 2.09 | -- | 8000 | 1100 | 41 | 420 | 500 | -- |
| 10/11/93 | 94.19 | 91.43 | 2.76 | -- | 42,000 | 940 | 34 | 140 | 87 | -- |
| 01/10/94 | 94.19 | 89.37 | 4.82 | -- | 12,000 | 770 | 20 | 220 | 74 | -- |
| 04/06/94 | 94.19 | 91.70 | 2.49 | -- | 40,000 | 820 | 33 | 190 | 110 | -- |
| 07/06/94 | 94.19 | 91.72 | 2.47 | -- | 8800 | 870 | 28 | 140 | 95 | -- |
| 11/11/94 | 94.19 | 91.32 | 2.87 | -- | 8600 | 460 | 81 | 180 | 120 | -- |
| 01/06/95 | 94.19 | 91.64 | 2.55 | -- | 15,000 | 880 | 48 | 270 | 140 | -- |
| 04/13/95 | 94.19 | 92.13 | 2.06 | -- | 56,000 | 2500 | 130 | 730 | 360 | -- |
| 07/25/95 | 94.19 | 92.05 | 2.14 | -- | 11,000 | 1000 | 34 | 540 | 160 | -- |
| 10/05/95 | 94.19 | 91.68 | 2.51 | -- | 13,000 | 1000 | <20 | 160 | 170 | -- |
| 01/02/96 | 94.19 | 91.97 | 2.22 | -- | 9500 | 1300 | <50 | 380 | 87 | 64,000 |
| 04/11/96 | 94.19 | 92.27 | 1.92 | -- | <10,000 | 1300 | <100 | <100 | <100 | 74,000 |
| 07/08/96 | 94.19 | 92.14 | 2.05 | -- | <20,000 | 1200 | <200 | <200 | <200 | 110,000 |
| 10/03/96 | 94.19 | 91.90 | 2.29 | -- | <25,000 | 1200 | <250 | <250 | <250 | 140,000 |
| 01/23/97 | 343.39 | 341.49 | 1.90 | -- | 20,000 | 1100 | <200 | 460 | <200 | 110,000 |
| 02/14/97 | 343.39 | 341.42 | 1.97 | Confirmation run | -- | -- | -- | -- | -- | 150,000 |
| 04/08/97 | 343.39 | 341.12 | 2.27 | -- | <50,000 | 1100 | <500 | <500 | <500 | 160,000 |
| 07/09/97 | 343.39 | 341.41 | 1.98 | -- | <50,000 | 1300 | <500 | <500 | <500 | 210,000 |
| 10/08/97 | 343.39 | 341.09 | 2.30 | -- | 18,000 | 1400 | <50 | 300 | 95 | 160,000 |

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

| DATE | Well Head Elev. | Ground Water Elev. | Depth To Water | Notes | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE |
|------------|-----------------|--------------------|----------------|-------|--------------|---------|---------|---------------|--------|------|
| C-3 | | | | | | | | | | |
| 08/07/89 | 97.65 | 93.36 | 4.29 | -- | <50 | <0.5 | <1.0 | <1.0 | <3.0 | -- |
| 11/15/89 | 97.65 | 92.48 | 5.17 | -- | <500 | <0.5 | 2.8 | <0.5 | 1.1 | -- |
| 02/01/91 | 97.65 | 91.27 | 6.38 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 04/16/91 | 97.65 | 93.93 | 3.72 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 10/16/91 | 97.65 | 89.45 | 8.20 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 01/08/92 | 97.65 | 90.97 | 6.68 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 04/10/92 | 97.65 | 93.15 | 4.50 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 07/14/92 | 97.65 | 91.44 | 6.21 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 10/05/92 | 97.65 | 88.34 | 9.31 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 01/06/93 | 97.65 | 94.24 | 3.41 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 03/29/93 | 97.65 | 97.15 | 0.50 | -- | <50 | <0.5 | <0.5 | <0.5 | 0.8 | -- |
| 07/02/93 | 97.65 | 95.06 | 2.59 | -- | <50 | 4.0 | 3.0 | <0.5 | 3.0 | -- |
| 10/11/93 | 97.65 | 92.75 | 4.90 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 01/10/94 | 97.65 | 93.26 | 4.39 | -- | <50 | <0.5 | 1.0 | <0.5 | 0.8 | -- |
| 04/06/94 | 97.65 | 94.97 | 2.68 | -- | <50 | <0.5 | 1.0 | 0.7 | 4.5 | -- |
| 07/06/94 | 97.65 | 95.55 | 2.10 | -- | <50 | 2.2 | 4.1 | <0.5 | 2.8 | -- |
| 11/11/94 | 97.65 | 96.42 | 1.23 | -- | <50 | <0.5 | 0.8 | <0.5 | <0.5 | -- |
| 01/06/95 | 97.65 | 97.05 | 0.60 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 04/13/95 | 97.65 | 97.05 | 0.60 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 07/25/95 | 97.65 | 96.00 | 1.65 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 10/05/95 | 97.65 | 94.02 | 3.63 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 01/02/96 | 97.65 | 94.53 | 3.12 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 04/11/96 | 97.65 | 96.83 | 0.82 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 07/08/96 | 97.65 | 96.15 | 1.50 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 10/03/96 | 97.65 | 95.17 | 2.48 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 01/23/97 | 347.08 | 346.87 | 0.21 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 3.2 |
| 04/08/97 | 347.08 | 346.33 | 0.75 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 07/09/97 | 347.08 | 345.61 | 1.47 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 10/08/97 | 347.08 | 345.04 | 2.04 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

| DATE | Well Head Elev. | Ground Water Elev. | Depth To Water | Notes | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE |
|------------|-----------------|--------------------|----------------|-------|--------------|---------|---------|---------------|--------|------|
| C-4 | | | | | | | | | | |
| 08/07/89 | 95.60 | -- | -- | Dry | -- | -- | -- | -- | -- | Dry |
| 11/15/89 | 95.60 | 90.65 | 4.95 | -- | 1300 | 2.9 | 310 | 0.5 | 2.9 | -- |
| 02/01/91 | 95.60 | 90.82 | 4.78 | -- | 72 | <0.5 | 9.0 | <0.5 | <0.5 | -- |
| 04/16/91 | 95.60 | 95.60 | 4.83 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 10/16/91 | 95.60 | 91.37 | 4.23 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 01/08/92 | 95.60 | 90.79 | 4.81 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 04/10/92 | 95.60 | 91.34 | 4.26 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 07/14/92 | 95.60 | 91.32 | 4.28 | -- | <50 | <0.5 | 3.8 | <0.5 | <0.5 | -- |
| 10/05/92 | 95.60 | 91.31 | 4.29 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 01/06/93 | 95.60 | 91.31 | 4.29 | -- | <50 | 0.7 | <0.5 | <0.5 | <0.5 | -- |
| 03/29/93 | 95.60 | 91.30 | 4.30 | -- | <50 | 0.5 | 1.0 | <0.5 | 2.0 | -- |
| 07/02/93 | 95.60 | 91.38 | 4.22 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 10/11/93 | 95.60 | 91.30 | 4.30 | -- | <50 | 0.6 | <0.5 | <0.5 | <0.5 | -- |
| 01/10/94 | 95.60 | 91.16 | 4.44 | -- | <50 | 0.7 | 3.0 | <0.5 | 1.0 | -- |
| 04/06/94 | 95.60 | 91.36 | 4.24 | -- | 130 | 2.2 | 5.4 | 3.3 | 24 | -- |
| 07/06/94 | 95.60 | 91.36 | 4.24 | -- | 99 | 5.9 | 7.5 | 2.0 | 12 | -- |
| 11/11/94 | 95.60 | 91.39 | 4.21 | -- | <50 | <0.5 | 9.5 | <0.5 | <0.5 | -- |
| 01/06/95 | 95.60 | 91.18 | 4.42 | -- | <50 | 0.7 | 1.0 | <0.5 | 1.1 | -- |
| 04/13/95 | 95.60 | 91.36 | 4.24 | -- | 67 | 0.54 | 7.2 | <0.5 | 1.1 | -- |
| 07/25/95 | 95.60 | 91.36 | 4.24 | -- | 390 | <2.0 | 150 | <2.0 | <2.0 | -- |
| 10/05/95 | 95.60 | 91.22 | 4.38 | -- | 130 | <0.5 | 66 | <0.5 | <0.5 | -- |
| 01/02/96 | 95.60 | 91.34 | 4.26 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 34 |
| 04/11/96 | 95.60 | 91.21 | 4.39 | -- | <50 | <0.5 | 0.93 | <0.5 | <0.5 | 56 |
| 07/08/96 | 95.60 | 91.32 | 4.28 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 21 |
| 10/03/96 | 95.60 | 91.38 | 4.22 | -- | 80 | <0.5 | 31 | <0.5 | <0.5 | 9.9 |
| 01/23/97 | 344.94 | 340.55 | 4.39 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 23 |
| 04/08/97 | 344.94 | 340.69 | 4.25 | -- | 87 | <0.5 | 3.6 | <0.5 | 1.7 | 7.0 |
| 07/09/97 | 344.94 | 340.73 | 4.21 | -- | 93 | <0.5 | 32 | <0.5 | <0.5 | 26 |
| 10/08/97 | 344.94 | 340.60 | 4.34 | -- | <50 | <0.5 | 0.63 | <0.5 | <0.5 | 12 |
| C-5 | | | | | | | | | | |
| 11/25/96 | -- | -- | 3.30 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 01/23/97 | 345.14 | 343.69 | 1.45 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 04/08/97 | 345.14 | 342.82 | 2.32 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 07/09/97 | 345.14 | 342.84 | 2.30 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 10/08/97 | 345.14 | 342.14 | 3.00 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

| DATE | Well Head Elev. | Ground Water Elev. | Depth To Water | Notes | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE |
|-------------------------|-----------------|--------------------|----------------|--------------|--------------|---------|---------|---------------|--------|------|
| C-6 | | | | | | | | | | |
| 11/25/96 | -- | -- | 2.13 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 01/23/97 | 338.61 | -- | 0.00 | Well flooded | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 04/08/97 | 338.61 | -- | 0.00 | Well flooded | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 07/09/97 | 338.61 | 335.84 | 2.77 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 10/08/97 | 338.61 | 337.17 | 1.44 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| Backfill Well: A | | | | | | | | | | |
| 08/07/89 | -- | -- | 2.10 | -- | 1000 | 50 | 6.0 | 5.0 | 22 | -- |
| 11/15/89 | -- | -- | 2.04 | -- | 3700 | 98 | 2.1 | 4.3 | 55 | -- |
| 02/01/91 | -- | -- | 3.05 | -- | 36,000 | 1100 | 750 | 130 | 6100 | -- |
| 04/16/91 | -- | -- | 2.01 | -- | 8000 | 370 | 6.0 | 86 | 750 | -- |
| 10/16/91 | -- | -- | 4.15 | -- | -- | -- | -- | -- | -- | -- |
| Backfill Well: B | | | | | | | | | | |
| 08/07/89 | -- | -- | 4.12 | -- | -- | -- | -- | -- | -- | -- |
| 11/15/89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/01/91 | -- | -- | 5.03 | -- | -- | -- | -- | -- | -- | -- |
| 04/16/91 | -- | -- | 4.00 | -- | -- | -- | -- | -- | -- | -- |
| 10/16/91 | -- | -- | 6.24 | -- | -- | -- | -- | -- | -- | -- |

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

| DATE | Well Head Elev. | Ground Water Elev. | Depth To Water | Notes | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE |
|-------------------|-----------------|--------------------|----------------|-------|--------------|---------|---------|---------------|--------|------|
| TRIP BLANK | | | | | | | | | | |
| 01/06/93 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 03/29/93 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | 1.0 | -- |
| 07/02/93 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 10/11/93 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 01/10/94 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 04/06/94 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 07/06/94 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 11/11/94 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 01/06/95 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 04/13/95 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 07/25/95 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 10/05/95 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 01/02/96 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 04/11/96 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 07/08/96 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 10/03/96 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 01/23/97 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 04/08/97 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 07/09/97 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 10/08/97 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on April 13, 1995.
 Earlier field data and analytical results provided by Sierra Environmental.
 Survey performed on March 20, 1997 by Ron Archer, Civil Engineer Inc.

ABBREVIATIONS:

TPH = Total Petroleum Hydrocarbons

MTBE = Methyl t-butyl ether

Analytical Appendix



| | | |
|--|--|---|
| Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 | Client Proj. ID: Chevron 9-0329/971008-G1 Sample Descript: C-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9710685-01 | Sampled: 10/08/97 Received: 10/09/97 Analyzed: 10/17/97 Reported: 10/22/97 |
|--|--|---|

QC Batch Number: GC101797BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|-----------------------|-------------------------|------------------------|
| TPPH as Gas | 5000 | 18000 |
| Methyl t-Butyl Ether | 2500 | 160000 |
| Benzene | 50 | 1400 |
| Toluene | 50 | N.D. |
| Ethyl Benzene | 50 | 300 |
| Xylenes (Total) | 50 | 95 |
| Chromatogram Pattern: | | Gas |

| Surrogates | Control Limits % | % Recovery |
|------------------|------------------|------------|
| Trifluorotoluene | 70 | 134 Q |

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





| | | |
|--|--|---|
| Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 | Client Proj. ID: Chevron 9-0329/971008-G1 Sample Descript: C-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9710685-02 | Sampled: 10/08/97 Received: 10/09/97 Analyzed: 10/16/97 Reported: 10/22/97 |
|--|--|---|

QC Batch Number: GC101697BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Detection Limit ug/L | Sample Results 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: | | |
| Surrogates | Control Limits % | % Recovery |
| Trifluorotoluene | 70 130 | 97 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





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|--|--|---|
| Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 | Client Proj. ID: Chevron 9-0329/971008-G1 Sample Descript: C-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9710685-03 | Sampled: 10/08/97 Received: 10/09/97 Analyzed: 10/17/97 Reported: 10/22/97 |
| QC Batch Number: GC101797BTEX02A Instrument ID: GCHP02 | | |

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|-----------------------|-------------------------|------------------------|
| TPPH as Gas | 50 | N.D. |
| Methyl t-Butyl Ether | 2.5 | 12 |
| Benzene | 0.50 | N.D. |
| Toluene | 0.50 | 0.63 |
| Ethyl Benzene | 0.50 | N.D. |
| Xylenes (Total) | 0.50 | N.D. |
| Chromatogram Pattern: | | N.D. |
| Surrogates | Control Limits % | % Recovery |
| Trifluorotoluene | 70 130 | 100 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





| | | |
|--|--|---|
| Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 | Client Proj. ID: Chevron 9-0329/971008-G1 Sample Descript: C-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9710685-04 | Sampled: 10/08/97 Received: 10/09/97 Analyzed: 10/16/97 Reported: 10/22/97 |
| Attention: Fran Thie | | |

QC Batch Number: GC101697BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Detection Limit ug/L | Sample Results 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: | | |
| Surrogates | Control Limits % | % Recovery |
| Trifluorotoluene | 70 130 | 97 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





| | | |
|--|--|---|
| Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 | Client Proj. ID: Chevron 9-0329/971008-G1 Sample Descript: C-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9710685-05 | Sampled: 10/08/97 Received: 10/09/97 Analyzed: 10/16/97 Reported: 10/22/97 |
| Attention: Fran Thie | | |

QC Batch Number: GC101697BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Detection Limit ug/L | Sample Results 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: | | |
| Surrogates | Control Limits % | % Recovery |
| Trifluorotoluene | 70 130 | 96 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





| | | |
|--|---|---|
| Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 | Client Proj. ID: Chevron 9-0329/971008-G1 Sample Descript: TB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9710685-06 | Sampled: 10/08/97 Received: 10/09/97 Analyzed: 10/16/97 Reported: 10/22/97 |
| Attention: Fran Thie | | |

QC Batch Number: GC101697BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Detection Limit ug/L | Sample Results 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: | | |
| Surrogates | Control Limits % | % Recovery |
| Trifluorotoluene | 70 130 | 96 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Chevron 9-0329 / 971008-G1
Matrix: Liquid

Work Order #: 9710685 -01

Reported: Oct 22, 1997

QUALITY CONTROL DATA REPORT

| Analyte: | Benzene | Toluene | Ethyl Benzene | Xylenes | Gas |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| QC Batch#: | GC102197BTEX06A | GC102197BTEX06A | GC102197BTEX06A | GC102197BTEX06A | GC102197BTEX06A |
| Analy. Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8015M |
| Prep. Method: | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 |
| Analyst: | A. Porter | A. Porter | A. Porter | A. Porter | A. Porter |
| MS/MSD #: | 971086502 | 971086502 | 971086502 | 971086502 | 971086502 |
| Sample Conc.: | 1.3 | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 10/21/97 | 10/21/97 | 10/21/97 | 10/21/97 | 10/21/97 |
| Analyzed Date: | 10/21/97 | 10/21/97 | 10/21/97 | 10/21/97 | 10/21/97 |
| Instrument I.D.#: | GCHP6 | GCHP6 | GCHP6 | GCHP6 | GCHP6 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L | 30 µg/L | 60 µg/L |
| Result: | 12 | 9.7 | 10 | 29 | 68 |
| MS % Recovery: | 107 | 97 | 100 | 97 | 113 |
| Dup. Result: | 12 | 10 | 11 | 33 | 74 |
| MSD % Recov.: | 107 | 100 | 110 | 110 | 123 |
| RPD: | 0.0 | 3.0 | 9.5 | 13 | 8.5 |
| RPD Limit: | 0-25 | 0-25 | 0-25 | 0-25 | 0-25 |

| LCS #: | BLK102197 | BLK102197 | BLK102197 | BLK102197 | BLK102197 |
|-------------------|-----------|-----------|-----------|-----------|-----------|
| Prepared Date: | 10/21/97 | 10/21/97 | 10/21/97 | 10/21/97 | 10/21/97 |
| Analyzed Date: | 10/21/97 | 10/21/97 | 10/21/97 | 10/21/97 | 10/21/97 |
| Instrument I.D.#: | GCHP6 | GCHP6 | GCHP6 | GCHP6 | GCHP6 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L | 30 µg/L | 60 µg/L |
| LCS Result: | 10 | 10 | 10 | 30 | 67 |
| LCS % Recov.: | 100 | 100 | 100 | 100 | 112 |

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

SEQUOIA ANALYTICAL

Peggy Renner
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

9710685.BLA <1>





Blaine Tech Services, Inc. Client Project ID: Chevron 9-0329 / 971008-G1
 1680 Rogers Ave. Matrix: Liquid
 San Jose, CA 95112
 Attention: Fran Thie Work Order #: 9710685-01, 03 Reported: Oct 22, 1997

QUALITY CONTROL DATA REPORT

| Analyte: | Benzene | Toluene | Ethyl Benzene | Xylenes | Gas |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| QC Batch#: | GC101797BTEX02A | GC101797BTEX02A | GC101797BTEX02A | GC101797BTEX02A | GC101797BTEX02A |
| Analy. Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8015M |
| Prep. Method: | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 |
| Analyst: | A. MirafTAB | A. MirafTAB | A. MirafTAB | A. MirafTAB | A. MirafTAB |
| MS/MSD #: | 971073402 | 971073402 | 971073402 | 971073402 | 971073402 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 10/17/97 | 10/17/97 | 10/17/97 | 10/17/97 | 10/17/97 |
| Analyzed Date: | 10/17/97 | 10/17/97 | 10/17/97 | 10/17/97 | 10/17/97 |
| Instrument I.D.#: | GCHP2 | GCHP2 | GCHP2 | GCHP2 | GCHP2 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L | 30 µg/L | 60 µg/L |
| Result: | 10 | 9.8 | 9.9 | 30 | 66 |
| MS % Recovery: | 100 | 98 | 99 | 100 | 110 |
| Dup. Result: | 9.9 | 9.6 | 9.8 | 29 | 65 |
| MSD % Recov.: | 99 | 96 | 98 | 97 | 108 |
| RPD: | 1.0 | 2.1 | 1.0 | 3.4 | 1.5 |
| RPD Limit: | 0-25 | 0-25 | 0-25 | 0-25 | 0-25 |

| LCS #: | BLK101797 | BLK101797 | BLK101797 | BLK101797 | BLK101797 |
|-------------------|-----------|-----------|-----------|-----------|-----------|
| Prepared Date: | 10/17/97 | 10/17/97 | 10/17/97 | 10/17/97 | 10/17/97 |
| Analyzed Date: | 10/17/97 | 10/17/97 | 10/17/97 | 10/17/97 | 10/17/97 |
| Instrument I.D.#: | GCHP2 | GCHP2 | GCHP2 | GCHP2 | GCHP2 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L | 30 µg/L | 60 µg/L |
| LCS Result: | 10 | 9.9 | 10 | 30 | 65 |
| LCS % Recov.: | 100 | 99 | 100 | 100 | 108 |

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

9710685.BLA <2>





Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Chevron 9-0329 / 971008-G1
Matrix: Liquid

Work Order #: 9710685-02

Reported: Oct 22, 1997

QUALITY CONTROL DATA REPORT

| Analyte: | Benzene | Toluene | Ethyl Benzene | Xylenes | Gas |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| QC Batch#: | GC101697BTEX03A | GC101697BTEX03A | GC101697BTEX03A | GC101697BTEX03A | GC101697BTEX03A |
| Analy. Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8015M |
| Prep. Method: | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 |

| | | | | | |
|-------------------|-------------|-------------|-------------|-------------|-------------|
| Analyst: | A. MirafTAB | A. MirafTAB | A. MirafTAB | A. MirafTAB | A. MirafTAB |
| MS/MSD #: | 971073401 | 971073401 | 971073401 | 971073401 | 971073401 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 |
| Analyzed Date: | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 |
| Instrument I.D.#: | GCHP3 | GCHP3 | GCHP3 | GCHP3 | GCHP3 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L | 30 µg/L | 60 µg/L |

| | | | | | |
|----------------|------|------|------|------|------|
| Result: | 9.0 | 8.9 | 8.8 | 25 | 70 |
| MS % Recovery: | 90 | 89 | 88 | 83 | 117 |
| Dup. Result: | 8.9 | 8.8 | 8.7 | 24 | 69 |
| MSD % Recov.: | 89 | 88 | 87 | 80 | 115 |
| RPD: | 1.1 | 1.1 | 1.1 | 4.1 | 1.4 |
| RPD Limit: | 0-25 | 0-25 | 0-25 | 0-25 | 0-25 |

| LCS #: | BLK101697 | BLK101697 | BLK101697 | BLK101697 | BLK101697 |
|-------------------|-----------|-----------|-----------|-----------|-----------|
| Prepared Date: | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 |
| Analyzed Date: | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 |
| Instrument I.D.#: | GCHP3 | GCHP3 | GCHP3 | GCHP3 | GCHP3 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L | 30 µg/L | 60 µg/L |
| LCS Result: | 7.9 | 7.8 | 7.7 | 22 | 61 |
| LCS % Recov.: | 79 | 78 | 77 | 73 | 102 |

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

SEQUOIA ANALYTICAL

Peggy Fenner
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

9710685.BLA <3>





Sequoia Analytical

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(510) 988-9600
(916) 921-9600

FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Chevron 9-0329 / 971008-G1
Matrix: Liquid

Work Order #: 9710685-04-05

Reported: Oct 22, 1997

QUALITY CONTROL DATA REPORT

| Analyte: | Benzene | Toluene | Ethyl Benzene | Xylenes | Gas |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| QC Batch#: | GC101697BTEX21A | GC101697BTEX21A | GC101697BTEX21A | GC101697BTEX21A | GC101697BTEX21A |
| Analy. Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8015M |
| Prep. Method: | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 |

| | | | | | |
|-------------------|-------------|-------------|-------------|-------------|-------------|
| Analyst: | A. Miraftab | A. Miraftab | A. Miraftab | A. Miraftab | A. Miraftab |
| MS/MSD #: | 971073401 | 971073401 | 971073401 | 971073401 | 971073401 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 |
| Analyzed Date: | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 |
| Instrument I.D.#: | GCHP21 | GCHP21 | GCHP21 | GCHP21 | GCHP21 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L | 30 µg/L | 60 µg/L |
| Result: | 9.4 | 9.3 | 9.0 | 27 | 55 |
| MS % Recovery: | 94 | 93 | 90 | 90 | 92 |
| Dup. Result: | 9.3 | 9.1 | 8.9 | 27 | 55 |
| MSD % Recov.: | 93 | 91 | 89 | 90 | 92 |
| RPD: | 1.1 | 2.2 | 1.1 | 0.0 | 0.0 |
| RPD Limit: | 0-25 | 0-25 | 0-25 | 0-25 | 0-25 |

| LCS #: | BLK101697 | BLK101697 | BLK101697 | BLK101697 | BLK101697 |
|-------------------|-----------|-----------|-----------|-----------|-----------|
| Prepared Date: | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 |
| Analyzed Date: | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 |
| Instrument I.D.#: | GCHP21 | GCHP21 | GCHP21 | GCHP21 | GCHP21 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L | 30 µg/L | 60 µg/L |
| LCS Result: | 9.2 | 9.2 | 9.0 | 27 | 55 |
| LCS % Recov.: | 92 | 92 | 90 | 90 | 92 |

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

9710685.BLA <4>





Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Chevron 9-0329 / 971008-G1
Matrix: Liquid

Work Order #: 9710685-06

Reported: Oct 22, 1997

QUALITY CONTROL DATA REPORT

| Analyte: | Benzene | Toluene | Ethyl Benzene | Xylenes | Gas |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| QC Batch#: | GC101697BTEX17A | GC101697BTEX17A | GC101697BTEX17A | GC101697BTEX17A | GC101697BTEX17A |
| Analy. Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8015M |
| Prep. Method: | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 |

| | | | | | |
|-------------------|-------------|-------------|-------------|-------------|-------------|
| Analyst: | A. Miraftab | A. Miraftab | A. Miraftab | A. Miraftab | A. Miraftab |
| MS/MSD #: | 971073401 | 971073401 | 971073401 | 971073401 | 971073401 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 |
| Analyzed Date: | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 |
| Instrument I.D.#: | GCHP17 | GCHP17 | GCHP17 | GCHP17 | GCHP17 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L | 30 µg/L | 60 µg/L |
| Result: | 9.3 | 9.2 | 9.1 | 27 | 62 |
| MS % Recovery: | 93 | 92 | 91 | 90 | 103 |
| Dup. Result: | 9.4 | 9.2 | 9.1 | 27 | 61 |
| MSD % Recov.: | 94 | 92 | 91 | 90 | 102 |
| RPD: | 1.1 | 0.0 | 0.0 | 0.0 | 1.6 |
| RPD Limit: | 0-25 | 0-25 | 0-25 | 0-25 | 0-25 |

| LCS #: | BLK101697 | BLK101697 | BLK101697 | BLK101697 | BLK101697 |
|-------------------|-----------|-----------|-----------|-----------|-----------|
| Prepared Date: | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 |
| Analyzed Date: | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 | 10/16/97 |
| Instrument I.D.#: | GCHP17 | GCHP17 | GCHP17 | GCHP17 | GCHP17 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L | 30 µg/L | 60 µg/L |
| LCS Result: | 9.3 | 9.3 | 9.2 | 27 | 62 |
| LCS % Recov.: | 93 | 93 | 92 | 90 | 103 |

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

9710685.BLA <5>





Sequoia
Analytical

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(510) 988-9600
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FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Client Proj. ID: Chevron 9-0329/971008-G1

Received: 10/09/97

Lab Proj. ID: 9710685

Reported: 10/22/97

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 12 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPPH Note: Sample 9710685-01 was diluted 100-fold and 1000-fold.

SEQUOIA ANALYTICAL


Peggy Renner
Project Manager



Fax copy of Lab Report and COC to Chevron Contact: Yes No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
 P.O. BOX 5004
 San Ramon, CA 94583
 FAX (415)842-9591

Chevron Facility Number 9-0329
 Facility Address 340 Highland Ave., Piedmont, CA
 Consultant Project Number 971008-61
 Consultant Name Blaine Tech Services, Inc.
 Address 1680 Rogers Ave., San Jose, CA 95112
 Project Contact (Name) Fran Thie
 (Phone) (408)573-0555 (Fax Number) (408)573-7771

Chevron Contact (Name) Phil Briggs
 (Phone) (510)842-9136
 Laboratory Name Sequoia
 Laboratory Release Number 9034836
 Samples Collected by (Name) Morgan Gillies
 Collection Date 10/8/97
 Signature [Signature]

| Sample Number | Lab Sample Number | Number of Containers | Matrix S = Soil A = Air W = Water C = Charcoal | Type G = Grab C = Composite D = Discrete | Time | Sample Preservation | Iced (Yes or No) | Analytes To Be Performed <u>9710689</u> | | | | | | | | | | | | | | | | |
|---------------|-------------------|----------------------|--|---|------|---------------------|------------------|---|----------------------|---------------------------|---------------------------------|-------------------------------|------------------------------|--------------------------------|--|------|--|--|--|--|--|--|--|--|
| | | | | | | | | BTEX + TPH GAS (8020 + 8015) | TPH Diesel (8015) | Oil and Greases (5520) | Purgeable Halocarbons (8010) | Purgeable Aromatics (8020) | Purgeable Organics (8240) | Extractable Organics (8270) | Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA) | MTBE | | | | | | | | |
| C-2 | 01 | 3 | W | | 1027 | HCL | Yes | X | | | | | | | | | | | | | | | | |
| C-3 | 02 | ↓ | ↓ | | 945 | ↓ | ↓ | X | | | | | | | | | | | | | | | | |
| C-4 | 03 | ↓ | ↓ | | 1005 | ↓ | ↓ | X | | | | | | | | | | | | | | | | |
| C-5 | 04 | ↓ | ↓ | | 901 | ↓ | ↓ | X | | | | | | | | | | | | | | | | |
| C-6 | 05 | ↓ | ↓ | | 925 | ↓ | ↓ | X | | | | | | | | | | | | | | | | |
| TB | 06 | 2 | ↓ | | | | | X | | | | | | | | | | | | | | | | |

DO NOT BILL FOR TB-LB.

Remarks

8 9 12 07

| | | | | | |
|--|--------------------------|--------------------------------|---|-----------------------------|---------------------------------|
| Relinquished By (Signature) <u>[Signature]</u> | Organization <u>BTS</u> | Date/Time <u>10/9/97 11:15</u> | Received By (Signature) <u>Rony [Signature]</u> | Organization <u>Sequoia</u> | Date/Time <u>10/9/97 11:15</u> |
| Relinquished By (Signature) <u>[Signature]</u> | Organization <u>Seq.</u> | Date/Time <u>10/9</u> | Received By (Signature) _____ | Organization _____ | Date/Time _____ |
| Relinquished By (Signature) _____ | Organization _____ | Date/Time _____ | Received For Laboratory By (Signature) <u>J. Downer</u> | Date/Time <u>10/9/97</u> | Date/Time <u>10/10/97 10:07</u> |

Turn Around Time (Circle Choice)

24 Hrs.
 48 Hrs.
 5 Days
 10 Days
 As Contracted

Field Data Sheets

CHEVRON WELL MONITORING DATA SHEET

| | |
|---------------------------------|-------------------------------------|
| Project #: <u>971008-61</u> | Station #: <u>9-0329</u> |
| Sampler: <u>MG</u> | Date: <u>10/8/97</u> |
| Well I.D.: <u>C-2</u> | Well Diameter: <u>3</u> 4 6 8 _____ |
| Total Well Depth: <u>14.81</u> | Depth to Water: <u>2.30</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 ² * 0.163 |

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

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>2.0</u> | x | <u>3</u> | = | <u>6.0</u> | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Cond. | Gals. Removed | Observations |
|------|-----------|-----|-------|---------------|-------------------|
| 1018 | 72.2 | 6.8 | 890 | 2.2 | Odor / Sheen |
| 1020 | 71.6 | 6.7 | 880 | 4.4 | |
| 1022 | 71.0 | 6.7 | 840 | 6.5 | |
| | | | | | Sheen on samples. |
| | | | | | |

| | |
|---|--|
| Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Gallons actually evacuated: <u>6.5</u> |
| Sampling Time: <u>1027</u> | Sampling Date: <u>10/8/97</u> |
| Sample I.D.: <u>C-2</u> | Laboratory: <u>Sequoia</u> GTEL N. Creek Assoc. Labs |

| |
|---|
| Analyzed for: <u>TPH-G BTEX 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 |

CHEVRON WELL MONITORING DATA SHEET

| | |
|---------------------------------|---|
| Project #: <u>971008-61</u> | Station #: <u>9-0329</u> |
| Sampler: <u>MG</u> | Date: <u>10/8/97</u> |
| Well I.D.: <u>C-3</u> | Well Diameter: <u>2</u> 3 4 6 8 <u> </u> |
| Total Well Depth: <u>14.19</u> | Depth to Water: <u>2.04</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 ² * 0.163 |

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

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>1.9</u> | x | <u>3</u> | = | <u>5.7</u> | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Cond. | Gals. Removed | Observations |
|------------|-------------|------------|------------|---------------|--------------|
| <u>936</u> | <u>78.6</u> | <u>7.1</u> | <u>380</u> | <u>2</u> | |
| <u>938</u> | <u>78.0</u> | <u>7.1</u> | <u>360</u> | <u>4</u> | |
| <u>940</u> | <u>77.2</u> | <u>7.0</u> | <u>360</u> | <u>6</u> | |
| | | | | | |
| | | | | | |

| | |
|---|--|
| Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Gallons actually evacuated: <u>6</u> |
| Sampling Time: <u>945</u> | Sampling Date: <u>10/8/97</u> |
| Sample I.D.: <u>C-3</u> | Laboratory: <u>Sequoia</u> GTEL N. Creek Assoc. Labs |
| Analyzed for: <u>TPH-G BTEX MTBE</u> TPH-D Other: | |

| | | |
|--------------------|--|------------------------------|
| Duplicate I.D.: | Analyzed for: TPH-G BTEX MTBE TPH-D Other: | |
| D.O. (if req'd): | Pre-purge: <u> </u> mg/L | Post-purge: <u> </u> mg/L |
| O.R.P. (if req'd): | Pre-purge: <u> </u> mV | Post-purge: <u> </u> mV |

CHEVRON WELL MONITORING DATA SHEET

| | |
|-----------------------------------|--|
| Project #: <u>971008-61</u> | Station #: <u>9-0329</u> |
| Sampler: <u>M6</u> | Date: <u>10/8/97</u> |
| Well I.D.: <u>C-4</u> | Well Diameter: <u>(2)</u> 3 4 6 8 ____ |
| Total Well Depth: <u>10.11</u> | Depth to Water: <u>4.34</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 ² * 0.163 |

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

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>0.9</u> | x | <u>3</u> | = | <u>2.7</u> | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Cond. | Gals. Removed | Observations |
|------|-----------|-----|-------|---------------|--------------|
| 958 | 70.2 | 6.9 | 420 | 1 | |
| 959 | 69.8 | 6.8 | 400 | 2 | |
| 1000 | 69.8 | 6.8 | 420 | 3 | |
| | | | | | |
| | | | | | |

| | |
|--|--|
| Did well dewater? Yes <input type="checkbox"/> <u>(No)</u> | Gallons actually evacuated: <u>3</u> |
| Sampling Time: <u>1005</u> | Sampling Date: <u>10/8/97</u> |
| Sample I.D.: <u>C-4</u> | Laboratory: <u>(Sequoia)</u> GTEL N. Creek Assoc. Labs |
| Analyzed for: <u>(TPH-G BTEX MTBE)</u> TPH-D Other: | |

| | | |
|--------------------|--|---------------------------------------|
| Duplicate I.D.: | Analyzed for: TPH-G BTEX MTBE TPH-D Other: | |
| D.O. (if req'd): | Pre-purge: <input type="text"/> mg/L | Post-purge: <input type="text"/> mg/L |
| O.R.P. (if req'd): | Pre-purge: <input type="text"/> mV | Post-purge: <input type="text"/> mV |

CHEVRON WELL MONITORING DATA SHEET

| | |
|---------------------------------|--|
| Project: <u>711008-61</u> | Station #: <u>9-0329</u> |
| Sampler: <u>M6</u> | Date: <u>10/8/97</u> |
| Well I.D.: <u>C-6</u> | Well Diameter: <u>2</u> 3 4 6 8 <u> </u> |
| Total Well Depth: <u>17.43</u> | Depth to Water: <u>1.44</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 ² * 0.163 |

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

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>2.6</u> | x | <u>3</u> | = | <u>7.8</u> | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Cond. | Gals. Removed | Observations |
|------------|-------------|------------|------------|---------------|--------------|
| <u>914</u> | <u>73.4</u> | <u>7.2</u> | <u>680</u> | <u>2.7</u> | |
| <u>917</u> | <u>73.0</u> | <u>7.2</u> | <u>650</u> | <u>5.4</u> | |
| <u>920</u> | <u>72.8</u> | <u>7.2</u> | <u>650</u> | <u>8</u> | |
| | | | | | |
| | | | | | |

| | |
|---|--|
| Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Gallons actually evacuated: <u>8</u> |
| Sampling Time: <u>925</u> | Sampling Date: <u>10/8/97</u> |
| Sample I.D.: <u>C-6</u> | Laboratory: <u>Sequoia</u> GTEL N. Creek Assoc. Labs |
| Analyzed for: <u>TPH-G BTEX MTBE</u> TPH-D Other: | |

| | | |
|--------------------|--|------------------------------------|
| Duplicate I.D.: | Analyzed for: TPH-G BTEX MTBE TPH-D Other: | |
| D.O. (if req'd): | Pre-purge: <u> </u> mg/L | Post-purge: <u> </u> mg/L |
| O.R.P. (if req'd): | Pre-purge: <u> </u> mV | Post-purge: <u> </u> mV |