

ALCO  
HAZMAT



**Chevron**

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September 7, 1994

**Chevron U.S.A. Products Company**  
6001 Bollinger Canyon Road  
Building L  
San Ramon, CA 94583  
P.O. Box 5004  
San Ramon, CA 94583-0804

**Marketing - Northwest Region**  
Phone 510 842 9500

Ms. Jennifer Eberle  
Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Re: Former Chevron Service Station #9-4816  
301 14th Street, Oakland, CA**

Dear Ms. Eberle:

Enclosed is the Groundwater Monitoring and Sampling Activities report dated July 15, 1994, prepared by our consultant Groundwater Technology, Inc. for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and BTEX. The levels of dissolved hydrocarbon constituents in the ground water samples analyzed were consistent with previous observations at the site. Separate-phase hydrocarbons were not detected in any of the monitor wells during the past quarter. Depth to ground water was measured at approximately 19.7 to 21.3 feet below grade and the direction of flow is to the north.

Modifications to the remediation system were completed and the system began operations during the first week of August. Influent hydrocarbon concentrations are higher than initially anticipated, therefore the activated vapor carbon was spent by the end of the first week of operation. We are currently evaluating more economical abatement technologies and expect to restart the system soon.

If you have any questions or comments, please do not hesitate to contact me at (510) 842-8134.

Sincerely,  
CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller  
Site Assessment and Remediation Engineer

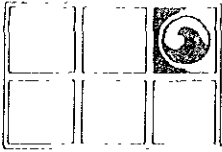
Enclosure

cc: Mr. Kevin Graves, RWQCB - Bay Area  
Mr. Mike Cooke, Weiss Associates  
Mr. J.N. Robbins, CHVPK/V1156  
Ms. B.C. Owen

Page 2  
September 7, 1994  
Former SS#9-4816

Ms. Beth D. Castleberry  
Gray, Cary, Ware & Freidenrich  
400 Hamilton Avenue  
Palo Alto, CA 94301-1825

File: 9-4816 QM2



# GROUNDWATER TECHNOLOGY, INC.

4057 Port Chicago Highway, Concord, CA 94520 (415) 671-2387

FAX: (415) 685-9148

July 15, 1994

Project No. 020104084

Mr. Mark Miller  
Chevron U.S.A. Products Company  
2410 Camino Ramon  
San Ramon, CA 94583-0804


SUBJECT: *Groundwater Monitoring and Sampling Activities*  
Chevron Service Station No.9-4816  
301 14th Street, Oakland, California

Dear Mr. Mark Miller:

Groundwater Technology, Inc. presents the quarterly groundwater monitoring and sampling data collected on June 17, 1994. The eleven groundwater monitoring wells at this site were gauged to measure depth to groundwater (DTW) and to check for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not detected in the monitoring wells. A potentiometric surface map and a summary of groundwater monitoring data are presented in Attachments 1 and 2, respectively. After the DTW was measured, each monitoring well was purged and sampled. Groundwater monitoring and sample collection protocol and field data sheets are presented in Attachment 3. The groundwater samples collected were analyzed for benzene, toluene, ethylbenzene, xylenes and for total petroleum hydrocarbons-as-gasoline. Results of the chemical analyses are summarized in Attachment 2. The laboratory report and chain-of-custody record are included in Attachment 4. Monitoring-well purge water was transported by Groundwater Technology to the Chevron Terminal in Richmond, California, for recycling. Two new monitoring wells, MW-11 and MW-12 will be added to the next quarterly groundwater sampling round.

Groundwater Technology is pleased to assist Chevron on this project. If you have any questions or comments, please contact our Concord office at (510) 671-2387.

Sincerely,  
**Groundwater Technology, Inc.**  
Written/Submitted by

  
Kenneth P. Johnson  
Project Manager

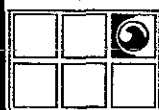
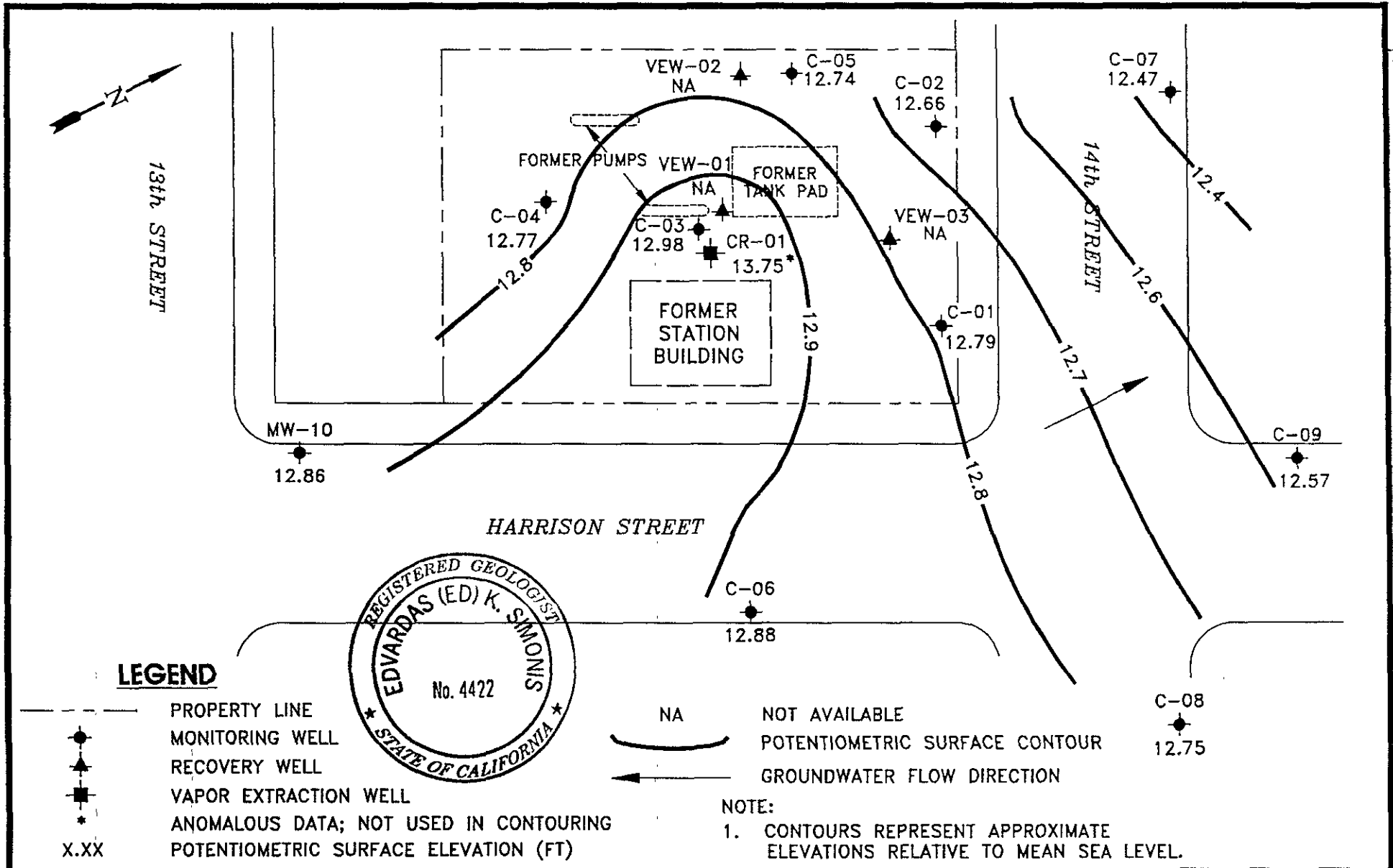
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Attachment 1 Figure  
Attachment 2 Table  
Attachment 3 Protocol and Field Data Sheets  
Attachment 4 Laboratory Report

For:  
Wendell C. Lattz  
Vice President, General Manager  
West Region

**ATTACHMENT 1**

**Figure**



**GROUNDWATER TECHNOLOGY**



CLIENT:  
CHEVRON U.S.A. PRODUCTS CO.  
SERVICE STATION No. 9-4816

LOCATION:  
301 14TH STREET  
OAKLAND, CALIFORNIA

**POTENTIOMETRIC SURFACE MAP  
(6/17/94)**

FILE:  
4084PSM, (1:40)

PROJECT NO.:  
02010-4084

PM:

PE/RG:

FIGURE:

REV.:

DES.:  
SS

DET.:  
SS

DATE:  
6/23/94

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1

**ATTACHMENT 2**

**Table**

**TABLE 1**  
**HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**  
**Chevron Service Station No. 9-4816**  
**301 14th Street, Oakland, California**

| Well ID/<br>Elevation | Date     | TPH-G   | Benzene | Toluene | Ethyl-<br>benzene | Xylenes | DTW<br>(ft) | SPT<br>(ft) | WTE<br>(ft) |
|-----------------------|----------|---------|---------|---------|-------------------|---------|-------------|-------------|-------------|
| C-1                   | 06/13/90 | 26,000  | 2,800   | 5,100   | 400               | 2,600   | 21.97       | ---         | 8.85        |
|                       | 10/30/90 | 67,000  | 6,700   | 8,700   | 900               | 5,000   | 21.72       | ---         | 9.10        |
| 30.82                 | 01/04/91 | ---     | ---     | ---     | ---               | ---     | 21.84       | ---         | 8.98        |
|                       | 01/07/91 | 100,000 | 12,000  | 20,000  | 1,600             | 11,000  | 21.95       | ---         | 8.87        |
|                       | 01/11/91 | ---     | ---     | ---     | ---               | ---     | 21.99       | ---         | 8.83        |
|                       | 02/15/91 | ---     | ---     | ---     | ---               | ---     | 22.12       | ---         | 8.70        |
|                       | 05/02/91 | 59,000  | 5,600   | 7,700   | 700               | 5,200   | 22.06       | ---         | 8.76        |
|                       | 05/30/91 | ---     | ---     | ---     | ---               | ---     | 22.04       | ---         | 8.78        |
|                       | 06/13/91 | ---     | ---     | ---     | ---               | ---     | 21.80       | ---         | 9.02        |
|                       | 07/12/91 | ---     | ---     | ---     | ---               | ---     | 22.01       | ---         | 8.81        |
|                       | 08/07/91 | 7,900   | 2,000   | 150     | 240               | 330     | ---         | ---         | ---         |
|                       | 09/24/91 | ---     | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
| 30.87                 | 10/18/91 | ---     | ---     | ---     | ---               | ---     | 22.42       | ---         | 8.45        |
|                       | 11/05/91 | 8,700   | 1,500   | 1,200   | 150               | 580     | 22.36       | ---         | 8.51        |
|                       | 01/06/92 | ---     | ---     | ---     | ---               | ---     | 22.34       | ---         | 8.53        |
|                       | 01/16/92 | ---     | ---     | ---     | ---               | ---     | 22.28       | 0.03        | 8.61        |
|                       | 01/22/92 | ---     | ---     | ---     | ---               | ---     | 22.43       | 0.09        | 8.51        |
|                       | 01/28/92 | ---     | ---     | ---     | ---               | ---     | 22.28       | 0.02        | 8.61        |
|                       | 02/04/92 | ---     | ---     | ---     | ---               | ---     | 22.24       | 0.01        | 8.64        |
|                       | 02/14/92 | ---     | ---     | ---     | ---               | ---     | 22.16       | Sheen       | 8.71        |
|                       | 02/21/92 | ---     | ---     | ---     | ---               | ---     | 22.07       | Sheen       | 8.80        |
|                       | 02/25/92 | ---     | ---     | ---     | ---               | ---     | 21.95       | Sheen       | 8.92        |
|                       | 03/06/92 | ---     | ---     | ---     | ---               | ---     | 21.85       | 0.00        | 9.02        |
|                       | 03/19/92 | ---     | ---     | ---     | ---               | ---     | 20.54       | 0.00        | 10.33       |
|                       | 05/06/92 | ---     | ---     | ---     | ---               | ---     | 21.39       | Sheen       | 9.48        |
|                       | 08/31/92 | ---     | ---     | ---     | ---               | ---     | 21.51       | Sheen       | 9.36        |
| 12/01/92              | ---      | ---     | ---     | ---     | ---               | 21.88   | Sheen       | 8.99        |             |
| 32.81                 | 03/15/93 | 130,000 | 8,900   | 13,000  | 1,800             | 11,000  | 20.90       | 0.00        | 11.91       |
|                       | 06/08/93 | 23,000  | 2,300   | 2,900   | 540               | 3,300   | 19.46       | 0.00        | 13.35       |
|                       | 09/07/93 | 14,000  | 1,300   | 2,100   | 340               | 2,800   | 19.83       | 0.00        | 12.98       |
|                       | 03/09/94 | 37,000  | 2,700   | 3,400   | 930               | 5,900   | 20.10       | 0.00        | 12.71       |
|                       | 06/17/94 | 24,000  | 2,200   | 2,300   | 520               | 3,800   | 20.02       | 0.00        | 12.79       |

**TABLE 1**  
**HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**  
Chevron Service Station No. 9-4816  
301 14th Street, Oakland, California

| Well ID/<br>Elevation | Date     | TPH-G  | Benzene | Toluene | Ethyl-<br>benzene | Xylenes | DTW<br>(ft) | SPT<br>(ft) | WTE<br>(ft) |
|-----------------------|----------|--------|---------|---------|-------------------|---------|-------------|-------------|-------------|
| C-2                   | 06/13/90 | 15,000 | 1,100   | 1,900   | 260               | 1,700   | 22.08       | ---         | 8.83        |
|                       | 10/30/90 | 13,000 | 2,800   | 1,900   | 240               | 1,000   | 21.81       | ---         | 9.10        |
| 30.91                 | 01/04/91 | ---    | ---     | ---     | ---               | ---     | 21.90       | ---         | 9.01        |
|                       | 01/07/91 | 15,000 | 3,400   | 2,500   | 340               | 1,400   | 22.03       | ---         | 8.88        |
|                       | 01/11/91 | ---    | ---     | ---     | ---               | ---     | 22.13       | ---         | 8.78        |
|                       | 02/15/91 | ---    | ---     | ---     | ---               | ---     | 22.36       | ---         | 8.55        |
|                       | 05/02/91 | 19,000 | 4,500   | 3,200   | 660               | 2,900   | 22.44       | ---         | 8.47        |
|                       | 05/02/91 | 21,000 | 3,200   | 2,200   | 410               | 2,000   | 22.44       | ---         | 8.47        |
|                       | 05/30/91 | ---    | ---     | ---     | ---               | ---     | 22.44       | ---         | 8.47        |
|                       | 06/13/91 | ---    | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
|                       | 07/12/91 | ---    | ---     | ---     | ---               | ---     | 22.57       | 0.01        | 8.35        |
|                       | 08/07/91 | ---    | ---     | ---     | ---               | ---     | ---         | 0.11        | ---         |
| 30.72                 | 09/24/91 | ---    | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
|                       | 10/18/91 | ---    | ---     | ---     | ---               | ---     | 22.34       | 0.07        | 8.44        |
|                       | 11/05/91 | ---    | ---     | ---     | ---               | ---     | 22.26       | 0.04        | 8.49        |
|                       | 01/06/92 | ---    | ---     | ---     | ---               | ---     | 22.25       | ---         | 8.47        |
|                       | 01/16/92 | ---    | ---     | ---     | ---               | ---     | 22.16       | 0.01        | 8.57        |
|                       | 01/22/92 | ---    | ---     | ---     | ---               | ---     | 22.25       | 0.02        | 8.49        |
|                       | 01/28/92 | ---    | ---     | ---     | ---               | ---     | 22.18       | 0.01        | 8.55        |
|                       | 02/04/92 | ---    | ---     | ---     | ---               | ---     | 22.15       | 0.01        | 8.58        |
|                       | 02/14/92 | ---    | ---     | ---     | ---               | ---     | 22.09       | 0.00        | 8.63        |
|                       | 02/21/92 | ---    | ---     | ---     | ---               | ---     | 22.06       | Sheen       | 8.66        |
|                       | 02/25/92 | ---    | ---     | ---     | ---               | ---     | 21.96       | 0.00        | 8.76        |
|                       | 03/06/92 | ---    | ---     | ---     | ---               | ---     | 21.80       | 0.00        | 8.92        |
|                       | 03/19/92 | ---    | ---     | ---     | ---               | ---     | 21.12       | 0.00        | 9.60        |
|                       | 05/06/92 | ---    | ---     | ---     | ---               | ---     | 21.30       | Sheen       | 9.42        |
| 08/31/92              | ---      | ---    | ---     | ---     | ---               | 21.43   | Sheen       | 9.29        |             |
| 12/01/92              | ---      | ---    | ---     | ---     | ---               | 21.74   | Sheen       | 8.98        |             |
| 33.27                 | 03/15/93 | 66,000 | 2,200   | 3,900   | 1,300             | 7,300   | 20.92       | 0.00        | 12.35       |
|                       | 06/08/93 | 23,000 | 1,400   | 2,300   | 680               | 4,000   | 20.05       | 0.00        | 13.22       |
|                       | 09/07/93 | 22,000 | 1,900   | 2,000   | 620               | 4,000   | 20.37       | 0.00        | 12.90       |
|                       | 03/09/94 | 25,000 | 4,100   | 1,100   | 670               | 3,100   | 20.72       | 0.00        | 12.55       |
|                       | 06/17/94 | 43,000 | 13,000  | 2,600   | 1,300             | 5,200   | 20.61       | 0.00        | 12.66       |



**TABLE 1**  
**HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**  
**Chevron Service Station No. 9-4816**  
**301 14th Street, Oakland, California**

| Well ID/<br>Elevation | Date     | TPH-G   | Benzene | Toluene | Ethyl-<br>benzene | Xylenes | DTW<br>(ft) | SPT<br>(ft) | WTE<br>(ft) |
|-----------------------|----------|---------|---------|---------|-------------------|---------|-------------|-------------|-------------|
| C-3                   | 06/13/90 | ---     | ---     | ---     | ---               | ---     | 24.75       | 3.00        | ---         |
|                       | 10/30/90 | ---     | ---     | ---     | ---               | ---     | 23.81       | 2.50        | ---         |
|                       | 01/04/91 | ---     | ---     | ---     | ---               | ---     | 24.15       | 2.70        | ---         |
|                       | 01/07/91 | ---     | ---     | ---     | ---               | ---     | 24.13       | 2.50        | ---         |
|                       | 01/11/91 | ---     | ---     | ---     | ---               | ---     | 24.35       | 2.66        | ---         |
|                       | 02/15/91 | ---     | ---     | ---     | ---               | ---     | 24.70       | 2.93        | ---         |
|                       | 05/02/91 | ---     | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
|                       | 05/30/91 | ---     | ---     | ---     | ---               | ---     | 24.08       | 2.49        | ---         |
|                       | 06/13/91 | ---     | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
|                       | 07/12/91 | ---     | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
| 30.79                 | 08/07/91 | ---     | ---     | ---     | ---               | ---     | ---         | 2.64        | ---         |
|                       | 09/24/91 | ---     | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
|                       | 10/18/91 | ---     | ---     | ---     | ---               | ---     | 24.44       | 2.50        | ---#        |
|                       | 11/05/91 | ---     | ---     | ---     | ---               | ---     | 24.31       | 2.46        | ---#        |
|                       | 01/06/92 | ---     | ---     | ---     | ---               | ---     | 24.25       | 2.39        | ---#        |
|                       | 01/16/92 | ---     | ---     | ---     | ---               | ---     | 24.02       | 2.29        | ---#        |
|                       | 01/22/92 | ---     | ---     | ---     | ---               | ---     | 24.10       | 2.28        | ---#        |
|                       | 01/28/92 | ---     | ---     | ---     | ---               | ---     | 24.06       | 2.29        | ---#        |
|                       | 02/04/92 | ---     | ---     | ---     | ---               | ---     | 24.04       | 2.31        | ---#        |
|                       | 02/14/92 | ---     | ---     | ---     | ---               | ---     | 23.93       | 2.31        | ---#        |
|                       | 02/21/92 | ---     | ---     | ---     | ---               | ---     | 24.61       | 3.05        | ---#        |
|                       | 02/25/92 | ---     | ---     | ---     | ---               | ---     | 23.69       | 2.23        | ---#        |
|                       | 03/06/92 | ---     | ---     | ---     | ---               | ---     | 23.69       | 2.23        | ---#        |
| 03/19/92              | ---      | ---     | ---     | ---     | ---               | 22.98   | 2.26        | ---#        |             |
| 05/06/92              | ---      | ---     | ---     | ---     | ---               | 22.74   | 1.93        | ---#        |             |
| 08/31/92              | ---      | ---     | ---     | ---     | ---               | 21.77   | 1.93        | ---#        |             |
| 12/01/92              | ---      | ---     | ---     | ---     | ---               | 22.63   | 1.32        | ---#        |             |
| 33.28                 | 03/15/93 | 530,000 | 69,000  | 58,000  | 6,000             | 32,000  | 20.76       | 0.00        | 12.52       |
|                       | 06/08/93 | 310,000 | 56,000  | 58,000  | 7,000             | 41,000  | 19.97       | 0.00        | 13.31       |
|                       | 09/07/93 | 160,000 | 48,000  | 43,000  | 3,300             | 24,000  | 20.28       | 0.00        | 13.00       |
|                       | 03/09/94 | 260,000 | 56,000  | 44,000  | 5,000             | 30,000  | 20.56       | 0.00        | 12.72       |
|                       | 06/17/94 | 150,000 | 50,000  | 36,000  | 2,900             | 23,000  | 20.30       | 0.00        | 12.98       |

**TABLE 1**  
**HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**  
**Chevron Service Station No. 9-4816**  
**301 14th Street, Oakland, California**

| Well ID/<br>Elevation | Date     | TPH-G | Benzene | Toluene | Ethyl-<br>benzene | Xylenes | DTW<br>(ft) | SPT<br>(ft) | WTE<br>(ft) |
|-----------------------|----------|-------|---------|---------|-------------------|---------|-------------|-------------|-------------|
| C-4                   | 06/13/90 | 440   | 47      | 47      | 3                 | 61      | 22.73       | ---         | 8.69        |
|                       | 10/30/90 | 210   | 72      | 13      | 1                 | 11      | 22.48       | ---         | 8.94        |
| 31 42                 | 01/04/91 | ---   | ---     | ---     | ---               | ---     | 22.64       | ---         | 8.78        |
|                       | 01/07/91 | 890   | 100     | 130     | 15                | 88      | 22.74       | ---         | 8.68        |
|                       | 01/11/91 | ---   | ---     | ---     | ---               | ---     | 22.81       | ---         | 8.61        |
|                       | 02/15/91 | ---   | ---     | ---     | ---               | ---     | 22.55       | ---         | 8.87        |
|                       | 05/02/91 | 330   | 140     | 11      | 2                 | 9       | 22.54       | ---         | 8.88        |
|                       | 05/30/91 | ---   | ---     | ---     | ---               | ---     | 22.55       | ---         | 8.87        |
|                       | 06/13/91 | ---   | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
|                       | 07/12/91 | ---   | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
| 31.20                 | 08/07/91 | 1,500 | 400     | 79      | 13                | 61      | ---         | ---         | ---         |
|                       | 09/24/91 | ---   | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
|                       | 10/18/91 | ---   | ---     | ---     | ---               | ---     | 22.97       | ---         | 8.23        |
|                       | 11/05/91 | 310   | 130     | 11      | 2.6               | 6.8     | 22.90       | ---         | 8.30        |
|                       | 01/06/92 | ---   | ---     | ---     | ---               | ---     | 22.84       | ---         | 8.36        |
|                       | 01/16/92 | ---   | ---     | ---     | ---               | ---     | 22.75       | ---         | 8.45        |
|                       | 01/22/92 | ---   | ---     | ---     | ---               | ---     | 22.81       | ---         | 8.39        |
|                       | 01/28/92 | ---   | ---     | ---     | ---               | ---     | 22.77       | ---         | 8.43        |
|                       | 02/04/92 | 300   | 100     | 26      | 2.4               | 14      | 22.72       | ---         | 8.48        |
|                       | 02/14/92 | ---   | ---     | ---     | ---               | ---     | 22.58       | ---         | 8.62        |
|                       | 02/21/92 | ---   | ---     | ---     | ---               | ---     | 22.60       | ---         | 8.60        |
|                       | 02/25/92 | ---   | ---     | ---     | ---               | ---     | 22.50       | ---         | 8.70        |
|                       | 03/06/92 | ---   | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
|                       | 03/19/92 | ---   | ---     | ---     | ---               | ---     | 21.75       | ---         | 9.45        |
|                       | 05/06/92 | 200   | 26      | <0.5    | 1.2               | 1.4     | 21.82       | ---         | 9.38        |
| 08/31/92              | 190      | 20    | 1.2     | 1.7     | 1.7               | 21.88   | ---         | 9.32        |             |
| 33 85                 | 12/01/92 | 72    | 5       | 0.5     | ND<0.5            | 1.3     | 22.23       | ---         | 8.97        |
|                       | 03/15/93 | 84    | 2.1     | 0.9     | <0.5              | <1.5    | 33.85       | ---         | 12.47       |
|                       | 06/08/93 | 74    | 1       | <0.5    | <0.5              | 0.5     | 20.55       | 0.00        | 13.30       |
|                       | 09/07/93 | <50   | 1       | <0.5    | <0.5              | <0.5    | 20.85       | 0.00        | 13.00       |
|                       | 03/09/94 | <50   | 5       | 4       | <0.5              | 4       | 21.16       | 0.00        | 12.69       |
|                       | 06/17/94 | 120   | 4.3     | 18      | 2.8               | 43      | 21.08       | 0.00        | 12.77       |

**TABLE 1**  
**HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**  
**Chevron Service Station No. 9-4816**  
**301 14th Street, Oakland, California**

| Well ID/<br>Elevation | Date     | TPH-G   | Benzene | Toluene | Ethyl-<br>benzene | Xylenes | DTW<br>(ft) | SPT<br>(ft) | WTE<br>(ft) |
|-----------------------|----------|---------|---------|---------|-------------------|---------|-------------|-------------|-------------|
| C-5                   | 10/30/90 | 20,000  | 2,500   | 3,300   | 320               | 2,200   | 22.11       | ---         | 9.14        |
|                       | 01/04/91 | ---     | ---     | ---     | ---               | ---     | 22.55       | 0.31        | ---         |
| 31 25                 | 01/07/91 | ---     | ---     | ---     | ---               | ---     | 22.36       | 0.04        | 9.26        |
|                       | 01/11/91 | ---     | ---     | ---     | ---               | ---     | 23.08       | 0.73        | ---         |
| 30 16                 | 02/15/91 | ---     | ---     | ---     | ---               | ---     | 24.70       | 2.74        | ---         |
|                       | 05/02/91 | ---     | ---     | ---     | ---               | ---     | 22.02       | 2.00        | ---         |
|                       | 05/30/91 | ---     | ---     | ---     | ---               | ---     | 24.78       | 2.70        | ---         |
|                       | 06/13/91 | ---     | ---     | ---     | ---               | ---     | 24.70       | 2.77        | ---         |
|                       | 07/12/91 | ---     | ---     | ---     | ---               | ---     | 25.10       | 2.72        | ---         |
|                       | 08/07/91 | ---     | ---     | ---     | ---               | ---     | ---         | 2.69        | ---         |
|                       | 09/24/91 | ---     | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
|                       | 10/18/91 | ---     | ---     | ---     | ---               | ---     | 24.71       | 2.51        | ---#        |
|                       | 11/05/91 | ---     | ---     | ---     | ---               | ---     | 24.47       | 2.29        | ---#        |
|                       | 01/06/92 | ---     | ---     | ---     | ---               | ---     | 24.68       | ---         | ---#        |
|                       | 01/16/92 | ---     | ---     | ---     | ---               | ---     | 24.03       | 1.82        | ---#        |
|                       | 01/22/92 | ---     | ---     | ---     | ---               | ---     | 24.01       | 1.67        | ---#        |
|                       | 01/28/92 | ---     | ---     | ---     | ---               | ---     | 23.79       | 1.46        | ---#        |
|                       | 02/04/92 | ---     | ---     | ---     | ---               | ---     | 23.81       | 1.54        | ---#        |
|                       | 02/14/92 | ---     | ---     | ---     | ---               | ---     | 22.79       | 1.59        | ---#        |
|                       | 02/21/92 | ---     | ---     | ---     | ---               | ---     | 24.40       | 2.22        | ---#        |
| 02/25/92              | ---      | ---     | ---     | ---     | ---               | 23.25   | 1.03        | ---#        |             |
| 03/06/92              | ---      | ---     | ---     | ---     | ---               | 23.20   | 1.19        | ---#        |             |
| 03/19/92              | ---      | ---     | ---     | ---     | ---               | ---     | ---         | ---         |             |
| 05/06/92              | ---      | ---     | ---     | ---     | ---               | ---     | ---         | ---         |             |
| 08/31/92              | ---      | ---     | ---     | ---     | ---               | 21.86   | Sheen       | ---         |             |
| 12/01/92              | ---      | ---     | ---     | ---     | ---               | 22.24   | Sheen       | ---         |             |
| 33.85                 | 03/15/93 | ---     | ---     | ---     | ---               | ---     | 20.96       | ---         | 20.96       |
|                       | 06/08/93 | 90,000  | 26,000  | 11,000  | 2,000             | 16,000  | 20.65       | 0.00        | 13.20       |
| 33.85                 | 09/07/93 | ---     | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
|                       | 03/09/94 | 170,000 | 35,000  | 11,000  | 2,400             | 13,000  | 21.32       | 0.00        | 12.53       |
|                       | 06/17/94 | 100,000 | 57,000  | 13,000  | 1,800             | 5,100   | 21.11       | 0.00        | 12.74       |

**TABLE 1**  
**HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**  
**Chevron Service Station No. 9-4816**  
**301 14th Street, Oakland, California**

| Well ID/<br>Elevation | Date     | TPH-G | Benzene | Toluene | Ethyl-<br>benzene | Xylenes | DTW<br>(ft) | SPT<br>(ft) | WTE<br>(ft) |
|-----------------------|----------|-------|---------|---------|-------------------|---------|-------------|-------------|-------------|
| C-6                   | 05/02/91 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | 21.84       | ---         | 8.57        |
|                       | 05/30/91 | ---   | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
| 30.41                 | 07/12/91 | ---   | ---     | ---     | ---               | ---     | 22.86       | ---         | 7.55        |
|                       | 08/07/91 | ---   | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
|                       | 09/24/91 | ---   | ---     | ---     | ---               | ---     | 21.88       | ---         | 8.53        |
|                       | 10/18/91 | ---   | ---     | ---     | ---               | ---     | 22.18       | ---         | 8.23        |
|                       | 11/05/91 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | 22.14       | ---         | 8.27        |
|                       | 01/06/92 | ---   | ---     | ---     | ---               | ---     | 22.09       | ---         | 8.32        |
|                       | 01/16/92 | ---   | ---     | ---     | ---               | ---     | 22.04       | ---         | 8.37        |
|                       | 01/22/92 | ---   | ---     | ---     | ---               | ---     | 22.04       | ---         | 8.37        |
|                       | 01/28/92 | ---   | ---     | ---     | ---               | ---     | 21.99       | ---         | 8.42        |
|                       | 02/04/92 | <50   | <0.5    | <0.5    | <0.5              | 0.6     | 21.94       | ---         | 8.47        |
|                       | 02/14/92 | ---   | ---     | ---     | ---               | ---     | 21.87       | ---         | 8.54        |
|                       | 02/21/92 | ---   | ---     | ---     | ---               | ---     | 21.83       | ---         | 8.58        |
|                       | 02/25/92 | ---   | ---     | ---     | ---               | ---     | 21.71       | ---         | 8.70        |
|                       | 03/06/92 | ---   | ---     | ---     | ---               | ---     | 21.53       | ---         | 8.88        |
|                       | 03/19/92 | ---   | ---     | ---     | ---               | ---     | 20.92       | ---         | 9.49        |
| 05/06/92              | <50      | <0.5  | <0.5    | <0.5    | <0.5              | 21.02   | ---         | 9.39        |             |
| 08/31/92              | 80       | <0.5  | <0.5    | <0.5    | 2.4               | 21.14   | ---         | 9.27        |             |
| 33.09                 | 01/21/93 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | 20.91       | ---         | 9.50        |
|                       | 03/15/93 | <50   | <0.5    | <0.5    | <0.5              | <1.5    | 20.00       | ---         | 13.09       |
|                       | 06/08/93 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | 19.72       | 0.00        | 13.37       |
|                       | 09/07/93 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | 19.75       | 0.00        | 13.34       |
|                       | 03/09/94 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | 20.30       | 0.00        | 12.79       |
|                       | 06/17/94 | <50   | 1.1     | <0.5    | <0.5              | 0.6     | 20.21       | 0.00        | 12.88       |

**TABLE 1**  
**HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**  
Chevron Service Station No. 9-4816  
301 14th Street, Oakland, California

| Well ID/<br>Elevation | Date     | TPH-G | Benzene | Toluene | Ethyl-<br>benzene | Xylenes | DTW<br>(ft) | SPT<br>(ft) | WTE<br>(ft) |
|-----------------------|----------|-------|---------|---------|-------------------|---------|-------------|-------------|-------------|
| C-7                   | 05/02/91 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | 21.81       | ---         | 8.75        |
|                       | 05/30/91 | ---   | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
| 30 56                 | 07/12/91 | ---   | ---     | ---     | ---               | ---     | 22.15       | ---         | 8.41        |
|                       | 08/07/91 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | ---         | ---         | ---         |
|                       | 09/24/91 | ---   | ---     | ---     | ---               | ---     | 21.53       | ---         | 9.03        |
|                       | 10/18/91 | ---   | ---     | ---     | ---               | ---     | 22.07       | ---         | 8.49        |
|                       | 11/05/91 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | 22.01       | ---         | 8.55        |
|                       | 01/06/92 | ---   | ---     | ---     | ---               | ---     | 22.03       | ---         | 8.53        |
|                       | 01/16/92 | ---   | ---     | ---     | ---               | ---     | 21.98       | ---         | 8.58        |
|                       | 01/22/92 | ---   | ---     | ---     | ---               | ---     | 22.05       | ---         | 8.51        |
|                       | 01/28/92 | ---   | ---     | ---     | ---               | ---     | 22.01       | ---         | 8.55        |
|                       | 02/14/92 | ---   | ---     | ---     | ---               | ---     | 21.94       | ---         | 8.62        |
|                       | 02/21/92 | ---   | ---     | ---     | ---               | ---     | 21.94       | ---         | 8.62        |
|                       | 02/25/92 | ---   | ---     | ---     | ---               | ---     | 21.82       | ---         | 8.74        |
|                       | 03/06/92 | ---   | ---     | ---     | ---               | ---     | 21.65       | ---         | 8.91        |
|                       | 03/19/92 | ---   | ---     | ---     | ---               | ---     | 20.92       | ---         | 9.64        |
|                       | 05/06/92 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | 21.21       | ---         | 9.35        |
| 08/31/92              | <50      | <0.5  | 0.7     | <0.5    | 0.9               | 21.39   | ---         | 9.17        |             |
| 12/01/92              | <50      | <0.5  | <0.5    | <0.5    | 0.9               | 21.79   | ---         | 8.77        |             |
| 33 06                 | 03/15/93 | <50   | <0.5    | <0.5    | <0.5              | <1.5    | 20.94       | ---         | 12.12       |
|                       | 06/08/93 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | 19.99       | 0.00        | 13.07       |
|                       | 09/07/93 | 2,800 | 63      | 36      | 41                | 40      | 20.00       | 0.00        | 13.06       |
|                       | 03/09/94 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | 20.70       | 0.00        | 12.36       |
|                       | 06/17/94 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | 20.59       | 0.00        | 12.47       |

**TABLE 1**  
**HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**  
**Chevron Service Station No. 9-4816**  
**301 14th Street, Oakland, California**

| Well ID/<br>Elevation | Date     | TPH-G | Benzene | Toluene | Ethyl-<br>benzene | Xylenes | DTW<br>(ft) | SPT<br>(ft) | WTE<br>(ft) |
|-----------------------|----------|-------|---------|---------|-------------------|---------|-------------|-------------|-------------|
| C-8                   | 05/02/91 | 5,000 | <0.5    | 17      | 140               | 470     | 21.24       | ---         | 8.88        |
|                       | 05/30/91 | ---   | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
| 30 12                 | 07/12/91 | ---   | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
|                       | 08/07/91 | 6,300 | <0.5    | 28      | 100               | 120     | ---         | ---         | ---         |
|                       | 09/24/91 | ---   | ---     | ---     | ---               | ---     | 21.33       | ---         | 8.79        |
|                       | 10/18/91 | ---   | ---     | ---     | ---               | ---     | 21.76       | ---         | 8.36        |
|                       | 11/05/91 | 5,100 | <0.5    | 20      | 92                | 74      | 21.70       | ---         | 8.42        |
|                       | 01/06/92 | ---   | ---     | ---     | ---               | ---     | 21.73       | ---         | 8.39        |
|                       | 01/16/92 | ---   | ---     | ---     | ---               | ---     | 21.63       | ---         | 8.49        |
|                       | 01/22/92 | ---   | ---     | ---     | ---               | ---     | 21.70       | ---         | 8.42        |
|                       | 01/28/92 | ---   | ---     | ---     | ---               | ---     | 21.65       | ---         | 8.47        |
|                       | 02/04/92 | 5,300 | <2.5    | 2.5     | 97                | 61      | 21.62       | ---         | 8.50        |
|                       | 02/14/92 | ---   | ---     | ---     | ---               | ---     | 21.53       | ---         | 8.59        |
|                       | 02/21/92 | ---   | ---     | ---     | ---               | ---     | 21.51       | ---         | 8.61        |
|                       | 02/25/92 | ---   | ---     | ---     | ---               | ---     | 21.39       | ---         | 8.73        |
|                       | 03/06/92 | ---   | ---     | ---     | ---               | ---     | 21.21       | ---         | 8.91        |
|                       | 03/19/92 | ---   | ---     | ---     | ---               | ---     | 20.57       | ---         | 9.55        |
|                       | 05/06/92 | 3,700 | <0.5    | 29      | 110               | 130     | 20.77       | ---         | 9.35        |
|                       | 08/31/92 | 1,100 | 1.3     | 2.0     | 31                | 48      | 20.91       | ---         | 9.21        |
|                       | 12/01/92 | 3,400 | <0.5    | 19      | 140               | 290     | 21.17       | ---         | 8.95        |
| 32 77                 | 03/15/93 | 4,200 | <0.5    | 20      | 54                | 33      | 19.76       | ---         | 13.01       |
|                       | 06/08/93 | 3,700 | 53      | 6       | 74                | 120     | 19.38       | 0.00        | 13.39       |
|                       | 09/07/93 | 2,900 | 70      | 46      | 39                | 55      | 19.38       | 0.00        | 13.39       |
|                       | 03/09/94 | 3,400 | <0.5    | 6       | 46                | 66      | 20.12       | 0.00        | 12.65       |
|                       | 06/17/94 | 4,200 | 1.0     | 39      | 75                | 86      | 20.02       | 0.00        | 12.75       |

**TABLE 1**  
**HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**  
**Chevron Service Station No. 9-4816**  
**301 14th Street, Oakland, California**

| Well ID/<br>Elevation | Date     | TPH-G | Benzene | Toluene | Ethyl-<br>benzene | Xylenes | DTW<br>(ft) | SPT<br>(ft) | WTE<br>(ft) |
|-----------------------|----------|-------|---------|---------|-------------------|---------|-------------|-------------|-------------|
| C-9                   | 05/02/91 | <50   | <0.5    | <0.5    | <0.5              | 0.8     | 21.27       | ---         | 8.88        |
|                       | 05/30/91 | ---   | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
| 30.15                 | 07/12/91 | ---   | ---     | ---     | ---               | ---     | 21.57       | ---         | 8.58        |
|                       | 08/07/91 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | ---         | ---         | ---         |
|                       | 08/07/91 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | ---         | ---         | ---         |
|                       | 09/24/91 | ---   | ---     | ---     | ---               | ---     | 21.10       | ---         | 9.05        |
|                       | 10/18/91 | ---   | ---     | ---     | ---               | ---     | 21.67       | ---         | 8.48        |
|                       | 11/05/91 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | 21.65       | ---         | 8.50        |
|                       | 11/05/91 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | 21.65       | ---         | 8.50        |
|                       | 01/06/92 | ---   | ---     | ---     | ---               | ---     | 21.65       | ---         | 8.50        |
|                       | 01/16/92 | ---   | ---     | ---     | ---               | ---     | 21.58       | ---         | 8.57        |
|                       | 01/22/92 | ---   | ---     | ---     | ---               | ---     | 21.65       | ---         | 8.50        |
|                       | 01/28/92 | ---   | ---     | ---     | ---               | ---     | 21.63       | ---         | 8.52        |
|                       | 02/04/92 | <50   | <0.5    | 0.7     | <0.5              | 0.7<0.5 | 21.58       | ---         | 8.57        |
|                       | 02/04/92 | <50   | <0.5    | <0.5    | <0.5              | ---     | 21.58       | ---         | 8.57        |
|                       | 02/14/92 | ---   | ---     | ---     | ---               | ---     | 21.54       | ---         | 8.61        |
|                       | 02/21/92 | ---   | ---     | ---     | ---               | ---     | 21.52       | ---         | 8.63        |
|                       | 02/25/92 | ---   | ---     | ---     | ---               | ---     | 21.39       | ---         | 8.76        |
|                       | 03/06/92 | ---   | ---     | ---     | ---               | ---     | 21.21       | ---         | 8.94        |
| 03/19/92              | ---      | ---   | ---     | ---     | ---               | <0.5    | 20.47       | ---         | 9.68        |
| 05/06/92              | <50      | <0.5  | <0.5    | <0.5    | <0.5              | <0.5    | 20.81       | ---         | 9.34        |
| 08/31/92              | <50      | <0.5  | <0.5    | <0.5    | <0.5              | <0.5    | 20.97       | ---         | 9.18        |
| 12/01/92              | <50      | <0.5  | <0.5    | <0.5    | <0.5              | <1.5    | 21.27       | ---         | 8.88        |
| 32.70                 | 03/15/93 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | 20.42       | ---         | 12.28       |
|                       | 06/08/93 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | 19.43       | 0.00        | 13.27       |
|                       | 09/07/93 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | 19.40       | 0.00        | 13.30       |
|                       | 03/09/94 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | 20.24       | 0.00        | 12.46       |
|                       | 06/17/94 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | 20.13       | 0.00        | 12.57       |

**TABLE 1**  
**HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**  
 Chevron Service Station No. 9-4816  
 301 14th Street, Oakland, California

| Well ID/<br>Elevation | Date     | TPH-G   | Benzene | Toluene | Ethyl-<br>benzene | Xylenes | DTW<br>(ft) | SPT<br>(ft) | WTE<br>(ft) |
|-----------------------|----------|---------|---------|---------|-------------------|---------|-------------|-------------|-------------|
| CR-1                  | 10/30/90 | ---     | ---     | ---     | ---               | ---     | 23.81       | 2.50        | ---         |
|                       | 01/04/91 | ---     | ---     | ---     | ---               | ---     | 24.08       | 2.70        | ---         |
| 30.17                 | 01/07/91 | ---     | ---     | ---     | ---               | ---     | 23.30       | 3.00        | ---         |
|                       | 01/11/91 | ---     | ---     | ---     | ---               | ---     | 24.24       | 2.64        | ---         |
|                       | 02/15/91 | ---     | ---     | ---     | ---               | ---     | 24.72       | 2.92        | ---         |
|                       | 05/02/91 | ---     | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
|                       | 05/30/91 | ---     | ---     | ---     | ---               | ---     | 23.07       | 2.42        | ---         |
|                       | 06/13/91 | ---     | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
|                       | 07/12/91 | ---     | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
|                       | 08/07/91 | ---     | ---     | ---     | ---               | ---     | ---         | 2.69        | ---         |
|                       | 09/24/91 | ---     | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
|                       | 10/18/91 | ---     | ---     | ---     | ---               | ---     | 23.75       | 2.50        | ---         |
|                       | 11/05/91 | ---     | ---     | ---     | ---               | ---     | 23.64       | 2.43        | ---         |
|                       | 01/06/92 | ---     | ---     | ---     | ---               | ---     | 23.57       | ---         | ---         |
|                       | 01/16/92 | ---     | ---     | ---     | ---               | ---     | 23.41       | 2.30        | ---         |
|                       | 01/22/92 | ---     | ---     | ---     | ---               | ---     | 23.44       | 2.24        | ---         |
|                       | 01/28/92 | ---     | ---     | ---     | ---               | ---     | 23.40       | 2.29        | ---         |
|                       | 02/14/92 | ---     | ---     | ---     | ---               | ---     | 23.31       | 2.34        | ---         |
|                       | 02/21/92 | ---     | ---     | ---     | ---               | ---     | 24.10       | 3.19        | ---         |
|                       | 02/25/92 | ---     | ---     | ---     | ---               | ---     | 23.15       | 1.03        | ---         |
|                       | 03/06/92 | ---     | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
|                       | 03/19/92 | ---     | ---     | ---     | ---               | ---     | ---         | ---         | ---         |
| 05/06/92              | ---      | ---     | ---     | ---     | ---               | ---     | ---         | ---         |             |
| 08/31/92              | ---      | ---     | ---     | ---     | ---               | 21.84   | 0.41        | ---         |             |
| 12/01/92              | ---      | ---     | ---     | ---     | ---               | 22.06   | 0.21        | ---         |             |
| 33.40                 | 03/15/93 | 410,000 | 28,000  | 42,000  | 5,200             | 37,000  | 20.34       | ---         | ---         |
|                       | 06/08/93 | 85,000  | 10,000  | 21,000  | 3,200             | 20,000  | 20.07       | 0.00        | 13.33       |
|                       | 09/07/93 | 180,000 | 50,000  | 48,000  | 5,100             | 33,000  | 20.07       | 0.00        | 13.33       |
|                       | 03/09/94 | 94,000  | 18,000  | 20,000  | 2,500             | 19,000  | 20.67       | 0.00        | 12.73       |
| **                    | 06/17/94 | 26,000  | 2,400   | 3,600   | 480               | 6,100   | 19.65       | 0.00        | 13.75       |



**TABLE 1**  
**HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**  
**Chevron Service Station No. 9-4816**  
**301 14th Street, Oakland, California**

| Well ID/<br>Elevation   | Date      | TPH-G   | Benzene | Toluene | Ethyl-<br>benzene | Xylenes | DTW<br>(ft) | SPT<br>(ft) | WTE<br>(ft) |
|-------------------------|-----------|---------|---------|---------|-------------------|---------|-------------|-------------|-------------|
| MW-10<br>31.59<br>33.28 | 01/21/93  | <50     | <0.5    | <0.5    | <0.5              | <0.5    | 21.27       | ---         | 10.32       |
|                         | 03/15/93  | <50     | <0.5    | <0.5    | <0.5              | <1.5    | 21.10       | ---         | 12.18       |
|                         | 06/08/93  | <50     | <0.5    | <0.5    | <0.5              | 1       | 19.95       | 0.00        | 13.33       |
|                         | 09/07/93  | <250    | <2.5    | <2.5    | <2.5              | <2.5    | 19.93       | 0.00        | 13.35       |
|                         | 03/09/94  | <50     | 1       | 0.5     | <0.5              | 0.9     | 20.51       | 0.00        | 12.77       |
|                         | *06/17/94 | <50     | <0.5    | <0.5    | <0.5              | <0.5    | 20.42       | 0.00        | 12.86       |
| MW-11<br>33.02          | 05/06/94  | <50     | 1.4     | <0.5    | <0.5              | 0.6     | ---         | ---         | ---         |
|                         | 05/16/94  | ---     | ---     | ---     | ---               | ---     | 20.58       | ---         | 12.44       |
| MW-12<br>33.90          | 05/06/94  | 160,000 | 69,000  | 16,000  | 1,900             | 7,600   | ---         | ---         | ---         |
|                         | 05/16/94  | ---     | ---     | ---     | ---               | ---     | 21.27       | ---         | 12.63       |
| TBLB                    | 05/02/91  | <50     | <0.5    | <0.5    | <0.5              | <0.5    | NA          | NA          | NA          |
|                         | 08/07/91  | <50     | <0.5    | <0.5    | <0.5              | <0.5    | NA          | NA          | NA          |
|                         | 11/05/91  | <50     | <0.5    | <0.5    | <0.5              | <0.5    | NA          | NA          | NA          |
|                         | 02/04/92  | <50     | <0.5    | <0.5    | <0.5              | <0.5    | NA          | NA          | NA          |
|                         | 05/06/92  | <50     | <0.5    | <0.5    | <0.5              | <0.5    | NA          | NA          | NA          |
|                         | 08/31/92  | <50     | <0.5    | <0.5    | <0.5              | <0.5    | NA          | NA          | NA          |
|                         | 12/01/92  | <50     | <0.5    | <0.5    | <0.5              | <0.5    | NA          | NA          | NA          |
|                         | 03/15/93  | <50     | <0.5    | <0.5    | <0.5              | <1.5    | NA          | NA          | NA          |
|                         | 06/08/93  | <50     | <0.5    | <0.5    | <0.5              | <0.5    | ---         | ---         | ---         |
|                         | 09/07/93  | <50     | <0.5    | <0.5    | <0.5              | <0.5    | ---         | ---         | ---         |
|                         | 03/09/94  | <50     | <0.5    | <0.5    | <0.5              | <0.5    | ---         | ---         | ---         |
|                         | 06/17/94  | <50     | <0.5    | <0.5    | <0.5              | <0.5    | ---         | ---         | ---         |

**TABLE 1**  
**HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**  
**Chevron Service Station No. 9-4816**  
**301 14th Street, Oakland, California**

| Well ID/<br>Elevation | Date     | TPH-G | Benzene | Toluene | Ethyl-<br>benzene | Xylenes | DTW<br>(ft) | SPT<br>(ft) | WTE<br>(ft) |
|-----------------------|----------|-------|---------|---------|-------------------|---------|-------------|-------------|-------------|
| RINSATE               | 08/07/91 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | NA          | NA          | NA          |
|                       | 11/05/91 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | NA          | NA          | NA          |
|                       | 02/04/92 | <50   | <0.5    | 1.1     | <0.5              | <0.5    | NA          | NA          | NA          |
|                       | 05/06/92 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | NA          | NA          | NA          |
|                       | 08/31/92 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | NA          | NA          | NA          |
|                       | 12/01/92 | <50   | <0.5    | <0.5    | <0.5              | <0.5    | NA          | NA          | NA          |

TPH-G = Total petroleum hydrocarbons-as-gasoline  
DTW = Depth to groundwater  
SPT = Separate-phase hydrocarbon thickness  
WTE = Water-table elevation  
TB-LB = Trip blank,lab blank  
\* = Monitoring well MW-10 was inadvertently marked and reported as C-10  
\*\* = Vapor extraction affecting water level.

Groundwater elevation not computed for wells containing greater than 0.20 feet of separate-phase hydrocarbons  
Groundwater elevations not compiled for wells containing greater than 0.20 feet of separate-phase hydrocarbons  
Concentrations in parts per billion  
Data from June 13, 1990 to March 15,1993 are from Alton GeoSciences report dated April 27, 1993.

Data from May 6 and May 16, 1994 for MW-11 and MW-12 are from Sierra Environmental Services.

**ATTACHMENT 3**

**Groundwater Monitoring and Sample Collection Protocol  
and  
Field Data Sheets**

# GROUNDWATER TECHNOLOGY GROUNDWATER MONITORING AND SAMPLE COLLECTION PROTOCOL

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## Groundwater Monitoring

Groundwater monitoring is accomplished using a INTERFACE PROBE™ Well Monitoring System. The INTERFACE PROBE™ Well Monitoring System is a hand held, battery operated device for measuring the depth to separate-phase hydrocarbons and depth to water. The INTERFACE PROBE™ Well Monitoring System consists of a dual-sensing probe which utilizes an optical liquid sensor and electrical conductivity to distinguish between water and petroleum products.

Monitoring is accomplished by measuring from the surveyed top of well casing or grade to groundwater and separate-phase hydrocarbons if present. The static water elevation is then calculated for each well and a potentiometric surface map is constructed. If separate-phase hydrocarbons are detected the water elevation is adjusted by the following calculation:

$$(\text{Product thickness}) \times (0.8) + (\text{Water elevation}) = \text{Corrected water elevation}$$

Groundwater monitoring wells are monitored in order of wells with lowest concentrations of volatile organic compounds to wells with the highest concentrations, based upon historical concentrations. If separate-phase hydrocarbons are encountered in a well, the product is visually inspected to confirm and note color, amount, and viscosity. Monitoring equipment is washed with laboratory grade detergent and rinsed with distilled or deionized water before monitoring each well.

## Groundwater Sampling

Before groundwater samples are collected, sufficient water is purged from each well to ensure representative formation water is entering the well. Wells are purged and sampled in the same order as monitoring, from wells with the lowest concentrations of volatile organic compounds to wells with the highest concentrations. Wells are purged using either a polyvinyl chloride (PVC) bailer fitted with a check valve or with a stainless steel submersible Grundfos pump. The purge equipment is decontaminated before use in each well by washing with laboratory grade detergent and tripled rinsing with deionized or distilled water. A minimum of 3 well-casing volumes of water are removed from each well while pH, electrical conductivity, and temperature are recorded to verify that "fresh" formation water is being sampled and the parameters have stabilized. If the well is low yielding, it may be purged dry and sampled before 3 casing volumes are purged. The wells are then allowed to recharge to approximately 80 percent of the initial water level before a sample is collected.

Groundwater samples are collected from each well using a new, prepackaged disposable bailer and string. The water sample is decanted from the bailer into laboratory-provided containers (appropriate for the analyses required) so that there is no headspace in the containers. Samples collected for benzene, toluene, ethylbenzene, xylene, and total petroleum hydrocarbons (TPH)-as-gasoline analyses are collected in 40-milliliter vials fitted with Teflon® septum lids. Samples are preserved with hydrochloric acid (HCL) to a pH of less than 2. Dissolved metals samples are filtered through a 0.45-micron paper filter in the field and preserved as required before submitting to the laboratory for analyses. All samples are labeled immediately upon collection and logged on the chain-of-custody record. Sample label and chain-of-custody recorded information includes the project name and number, sample identification, date and time of collection, analyses requested, and the sampler's name. Sample bottles are placed in plastic bags (to protect the bottles and labels) and on ice (frozen water) in an insulated cooler and are shipped under chain-of-custody protocol to the laboratory.

The chain-of-custody record documents who has possession of the samples until the analyses is performed. Other pertinent information is also noted for the laboratory use on the chain-of-custody record.

Trip blanks (TBLBs) are used for each project as a quality assurance/quality control measure. The TBLBs are prepared by the laboratory and are placed in the insulated cooler and accompany the field samples throughout the sampling event.

Project Name: Chevron - 14th St.  
 Site Address: 301 14th St., Oakland  
 Project Number: 020204084.0610

Date: 6.12.94  
 Page 1 of         
 Project Manager: Tim Watchers

Well ID: MW-10  
 Well Diameter: 2"

DTW Measurements:  
 Initial:             Calc Well Volume: 2.21 gal  
 Recharge:             Well Volume: 4.6 gal

Purge Method      Pump Depth        ft.  
 Peristaltic             Hand Bailed         
 Gear Drive             Air Lift         
 Submersible X      Other       

Instruments Used  
 YSI:             Other:         
 Hydac:         
 Omega: X

| Time | Temp       |   | Conductivity | pH   | Purge Volume Gallons | Turbidity | Comments |
|------|------------|---|--------------|------|----------------------|-----------|----------|
|      | <u>X</u> C | F |              |      |                      |           |          |
| 2:50 | 20.1       |   | 392          | 6.19 | 0                    |           | clear    |
| 2:53 | 20.2       |   | 331          | 6.23 | 3                    |           | brownish |
| 2:56 | 20.2       |   | 330          | 6.23 | 5                    |           | "        |
| 3:00 | 20.2       |   | 330          | 6.23 | 7                    |           | "        |
|      |            |   |              |      |                      |           |          |
|      |            |   |              |      |                      |           |          |
|      |            |   |              |      |                      |           |          |
|      |            |   |              |      |                      |           |          |
|      |            |   |              |      |                      |           |          |

Can was over well most of the Day.

Project Name: Chevron - 14th St.

Date: 0.17.99

Site Address: 301 14th St., Oakland

Page 2 of \_\_\_\_\_

Project Number: 020204084.0610

Project Manager: Tim Watchers

Well ID: C-6

DTW Measurements:

Well Diameter: 24

Initial: /  
Recharge: /

Calc Well Volume: 1.47 gal  
Well Volume: 3.44 gal

Purge Method \_\_\_\_\_ Pump Depth \_\_\_\_\_ ft.  
 Peristaltic \_\_\_\_\_ Hand Bailed \_\_\_\_\_  
 Gear Drive \_\_\_\_\_ Air Lift \_\_\_\_\_  
 Submersible  Other \_\_\_\_\_

Instruments Used  
 YSI: \_\_\_\_\_ Other: \_\_\_\_\_  
 Hydac: \_\_\_\_\_  
 Omega:

| Time  | Temp   | Conductivity            | pH   | Purge Volume Gallons | Turbidity | Comments |
|-------|--|-------------------------|------|----------------------|-----------|----------|
|       | <input checked="" type="checkbox"/> C<br>_____ F |                         |      |                      |           |          |
| 12:1  | 19.2   | .520<br><del>.562</del> | 6.23 | 0                    |           | clear    |
| 12:15 | 19.2   | .516                    | 6.23 | 2                    |           | "        |
| 12:17 | 19.3   | .514                    | 6.23 | 3                    |           | "        |
| 12:18 | 19.2   | .515                    | 6.24 | 4                    |           | "        |
|       |  |                         |      |                      |           |          |
|       |  |                         |      |                      |           |          |
|       |  |                         |      |                      |           |          |
|       |  |                         |      |                      |           |          |
|       |  |                         |      |                      |           |          |







Project Name: Chevron - 14th St.

Date: 6-17-84

Site Address: 301 14th St., Oakland

Page 5 of \_\_\_\_\_

Project Number: 020204084.0610

Project Manager: Tim Watchers

Well ID: CR-1

DTW Measurements:

Well Diameter: 6"

Initial: \_\_\_\_\_ Calc Well Volume: 13.7 gal  
Recharge: / Well Volume: 4.3 gal

Purge Method \_\_\_\_\_ Pump Depth \_\_\_\_\_ ft.  
Peristaltic \_\_\_\_\_ Hand Bailed \_\_\_\_\_  
Gear Drive \_\_\_\_\_ Air Lift \_\_\_\_\_  
Submersible  Other \_\_\_\_\_

Instruments Used  
YSI: \_\_\_\_\_ Other: \_\_\_\_\_  
Hydac: \_\_\_\_\_  
Omega:

| Time | Temp |   | Conductivity | pH   | Purge Volume Gallons | Turbidity | Comments    |
|------|------|---|--------------|------|----------------------|-----------|-------------|
|      | C    | F |              |      |                      |           |             |
| 1:15 | 19.6 |   | 930          | 6.40 | 0                    |           | Clear, Grey |
| 1:18 | 17.3 |   | 960          | 6.47 | 13                   |           | "           |
| 1:21 | 19.1 |   | 1.07         | 6.40 | 27                   |           | "           |
| 1:27 | 19.1 |   | 1.09         | 6.33 | 41                   |           | "           |
|      |      |   |              |      |                      |           |             |
|      |      |   |              |      |                      |           |             |
|      |      |   |              |      |                      |           |             |
|      |      |   |              |      |                      |           |             |
|      |      |   |              |      |                      |           |             |
|      |      |   |              |      |                      |           |             |

5GPM









Project Name: Chevron - 14th St.

Date: 6-17-24

Site Address: 301 14th St., Oakland

Page 10 of 10

Project Number: 020204084.0610

Project Manager: Tim Watchers

Well ID: C-1

DTW Measurements:

Well Diameter: 2"

Initial: 1

Calc Well Volume: 1.85 gal

Recharge: 1

Well Volume: 3 ~~5.50~~ gal

Purge Method \_\_\_\_\_ Pump Depth \_\_\_\_\_ ft.  
 Peristaltic \_\_\_\_\_ Hand Bailed \_\_\_\_\_  
 Gear Drive \_\_\_\_\_ Air Lift \_\_\_\_\_  
 Submersible \_\_\_\_\_ Other \_\_\_\_\_

Instruments Used  
 YSI: \_\_\_\_\_ Other: \_\_\_\_\_  
 Hydac: \_\_\_\_\_  
 Omega: \_\_\_\_\_

| Time | Temp<br>C<br>F | Conductivity | pH   | Purge Volume<br>Gallons | Turbidity | Comments    |
|------|----------------|--------------|------|-------------------------|-----------|-------------|
| 2:17 | 20.1           | .593         | 6.32 | 0                       |           | clear       |
| 2:18 | 20.2           | .584         | 6.31 | 2                       |           | cloudy grey |
| 2:29 | 20.2           | .559         | 6.32 | 4                       |           | "           |
| 2:20 | 20.3           | .588         | 6.32 | 5                       |           | "           |
|      |                |              |      |                         |           |             |
|      |                |              |      |                         |           |             |
|      |                |              |      |                         |           |             |
|      |                |              |      |                         |           |             |
|      |                |              |      |                         |           |             |

Project Name: Chevron - 14th St.

Date: 6.11.94

Site Address: 301 14th St., Oakland

Page 11 of 11

Project Number: 020204084.0610

Project Manager: Tim Watchers

Well ID: C-5

DTW Measurements:

Well Diameter: 4 1/2

Initial: /

Calc Well Volume: 3.9 gal

Recharge: /

Well Volume: 3 117 gal

Purge Method \_\_\_\_\_ Pump Depth \_\_\_\_\_ ft.  
 Peristaltic \_\_\_\_\_ Hand Bailed \_\_\_\_\_  
 Gear Drive \_\_\_\_\_ Air Lift \_\_\_\_\_  
 Submersible X Other \_\_\_\_\_

Instruments Used  
 YSI: \_\_\_\_\_ Other: \_\_\_\_\_  
 Hydac: \_\_\_\_\_  
 Omega: X

| Time | Temp            | Conductivity | pH   | Purge Volume Gallons | Turbidity | Comments   |
|------|-----------------|--------------|------|----------------------|-----------|------------|
|      | <u>X</u> C<br>F |              |      |                      |           |            |
| 2:35 | 20.0            | 1.03         | 6.36 | 0                    |           | Clear, 0BR |
| 2:37 | 20.0            | 1.06         | 6.33 | 4                    |           | "          |
| 2:39 | 20.0            | 1.05         | 6.30 | 8                    |           | "          |
| 2:41 | 19.8            | 1.01         | 6.19 | 12                   |           | "          |
|      |                 |              |      |                      |           |            |
|      |                 |              |      |                      |           |            |
|      |                 |              |      |                      |           |            |
|      |                 |              |      |                      |           |            |
|      |                 |              |      |                      |           |            |

**ATTACHMENT 4**  
**Laboratory Report**





# GTEL

ENVIRONMENTAL  
LABORATORIES, INC.

**Northwest Region**

4080 Pike Lane  
Suite C  
Concord, CA 94520  
(510) 685-7852  
(800) 544-3422 Inside CA  
FAX (510) 825-0720

June 28, 1994

Tim Watchers  
Groundwater Technology, Inc.  
4057 Port Chicago Hwy  
Concord, CA 94520

---

RE: GTEL Client ID: 020104084  
Login Number: C4060381  
Project ID (number): 020104084  
Project ID (name): CHEVRON/#9-4816/301 14th St., Oakland, CA

---

Dear Tim Watchers:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 06/22/94.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes.

GTEL is certified by the Department of Health Service under Certification Number E1075.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,  
GTEL Environmental Laboratories, Inc.

Rashmi Shah  
Laboratory Director

GTEL Client ID: 020104084  
 Login Number: C4060381  
 Project ID (number): 020104084  
 Project ID (name): CHEVRON/#9-4816/301 14th St., Oakland, CA

ANALYTICAL RESULTS

Volatile Organics  
 Method: EPA 8020  
 Matrix: Aqueous

| GTEL Sample Number | C4060381-01 | C4060381-02 | C4060381-03 | C4060381-04 |
|--------------------|-------------|-------------|-------------|-------------|
| Client ID          | C-6         | C-9         | C-7         | CR-1        |
| Date Sampled       | 06/17/94    | 06/17/94    | 06/17/94    | 06/17/94    |
| Date Analyzed      | 06/25/94    | 06/25/94    | 06/25/94    | 06/26/94    |
| Dilution Factor    | 1.00        | 1.00        | 1.00        | 50.0        |

| Analyte         | Reporting |       | Concentration: |       |       |       |
|-----------------|-----------|-------|----------------|-------|-------|-------|
|                 | Limit     | Units |                |       |       |       |
| Benzene         | 0.5       | ug/L  | 1.1            | < 0.5 | < 0.5 | 2400  |
| Toluene         | 0.5       | ug/L  | < 0.5          | < 0.5 | < 0.5 | 3600  |
| Ethylbenzene    | 0.5       | ug/L  | < 0.5          | < 0.5 | < 0.5 | 480   |
| Xylenes (total) | 0.5       | ug/L  | 0.6            | < 0.5 | < 0.5 | 6100  |
| TPH as GAS      | 50.       | ug/L  | < 50.          | < 50. | < 50. | 26000 |
| BFB (Surrogate) | --        | %     | 101.           | 102.  | 105.  | 99.0  |

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical and Chemical Methods, SW-846", Third Edition, Revision 1, US EPA November 1986. Bromofluorobenzene surrogate recovery acceptability limits are 62-129%. Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap.

GTEL Concord, CA  
 C4060381:1



GTEL Client ID: 020104084 ANALYTICAL RESULTS  
 Login Number: C4060381  
 Project ID (number): 020104084  
 Project ID (name): CHEVRON/#9-4816/301 14th St., Oakland, CA

Volatile Organics  
 Method: EPA 8020  
 Matrix: Aqueous

| GTEL Sample Number | C4060381-05 | C4060381-06 | C4060381-07 | C4060381-08 |
|--------------------|-------------|-------------|-------------|-------------|
| Client ID          | C-8         | C-4         | C-3         | C-2         |
| Date Sampled       | 06/17/94    | 06/17/94    | 06/17/94    | 06/17/94    |
| Date Analyzed      | 06/25/94    | 06/25/94    | 06/25/94    | 06/25/94    |
| Dilution Factor    | 1.00        | 1.00        | 500.        | 50.0        |

| Analyte         | Reporting |       | Concentration: |      |        |       |
|-----------------|-----------|-------|----------------|------|--------|-------|
|                 | Limit     | Units |                |      |        |       |
| Benzene         | 0.5       | ug/L  | 1.0            | 4.3  | 50000  | 13000 |
| Toluene         | 0.5       | ug/L  | 39.            | 18.  | 36000  | 2600  |
| Ethylbenzene    | 0.5       | ug/L  | 75.            | 2.8  | 2900   | 1300  |
| Xylenes (total) | 0.5       | ug/L  | 86.            | 43.  | 23000  | 5200  |
| TPH as GAS      | 50.       | ug/L  | 4200           | 120  | 150000 | 43000 |
| BFB (Surrogate) | --        | %     | 118.           | 108. | 105.   | 106.  |

Notes:

**Dilution Factor:**

Dilution factor indicates the adjustments made for sample dilution.

**EPA 8020:**

"Test Methods for Evaluating Solid Waste, Physical and Chemical Methods, SW-846", Third Edition, Revision 1, US EPA November 1986. Bromofluorobenzene surrogate recovery acceptability limits are 62-129%. Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap.

GTEL Concord, CA  
 C4060381:2



GTEL Client ID: 020104084  
 Login Number: C4060381  
 Project ID (number): 020104084  
 Project ID (name): CHEVRON/#9-4816/301 14th St., Oakland, CA

ANALYTICAL RESULTS

Volatile Organics  
 Method: EPA 8020  
 Matrix: Aqueous

| GTEL Sample Number | C4060381-09 | C4060381-10 | C4060381-11 | C4060381-12 |
|--------------------|-------------|-------------|-------------|-------------|
| Client ID          | C-1         | C-5         | C-10        | TBLB        |
| Date Sampled       | 06/17/94    | 06/17/94    | 06/17/94    | 06/17/94    |
| Date Analyzed      | 06/25/94    | 06/25/94    | 06/25/94    | 06/25/94    |
| Dilution Factor    | 50.0        | 200.        | 1.00        | 1.00        |

| Analyte         | Reporting |       | Concentration: |        |       |       |
|-----------------|-----------|-------|----------------|--------|-------|-------|
|                 | Limit     | Units |                |        |       |       |
| Benzene         | 0.5       | ug/L  | 2200           | 57000  | < 0.5 | < 0.5 |
| Toluene         | 0.5       | ug/L  | 2300           | 13000  | < 0.5 | < 0.5 |
| Ethylbenzene    | 0.5       | ug/L  | 520            | 1800   | < 0.5 | < 0.5 |
| Xylenes (total) | 0.5       | ug/L  | 3800           | 5100   | < 0.5 | < 0.5 |
| TPH as GAS      | 50.       | ug/L  | 24000          | 100000 | < 50. | < 50. |
| BFB (Surrogate) | --        | %     | 105.           | 102.   | 104.  | 99.0  |

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste. Physical and Chemical Methods. SW-846", Third Edition, Revision 1, US EPA November 1986. Bromofluorobenzene surrogate recovery acceptability limits are 62-129%. Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap.

GTEL Concord, CA  
 C4060381:3



GTEL Client ID: 020104084                      QUALITY CONTROL RESULTS  
Login Number: C4060381  
Project ID (number): 020104084  
Project ID (name): CHEVRON/#9-4816/301 14th St., Oakland, CA

Volatile Organics  
Method: EPA 8020  
Matrix: Aqueous

Method Blank Results

QC Batch No: M062594-1  
Date Analyzed: 25-JUN-94

---

| Analyte         | Method: EPA 8020 | Concentration: ug/L |
|-----------------|------------------|---------------------|
| Benzene         | < 0.30           |                     |
| Toluene         | < 0.30           |                     |
| Ethylbenzene    | < 0.30           |                     |
| Xylenes (Total) | < 0.50           |                     |
| TPH as Gasoline | < 10.            |                     |

---

Notes:

GTEL Client ID: 020104084  
 Login Number: C4060381  
 Project ID (number): 020104084  
 Project ID (name): CHEVRON/#9-4816/301 14th St., Oakland, CA

QUALITY CONTROL RESULTS

Volatile Organics  
 Method: EPA 8020  
 Matrix: Aqueous

Matrix Spike and Matrix Spike Duplicate Results

| Analyte         | Original Concentration     | Spike Amount | Matrix Spike       | Matrix Spike | Matrix Spike Duplicate | Matrix Spike Duplicate | RPD. % | Acceptability Limits |             |
|-----------------|----------------------------|--------------|--------------------|--------------|------------------------|------------------------|--------|----------------------|-------------|
|                 |                            |              | Concentration      | Recovery. %  | Concentration          | Recovery. %            |        | Concentration        | Recovery. % |
| EPA 8020        | GTEL Sample ID:C4060374-03 |              | Spike ID:M062594-3 |              | Dup. ID:M062594-4      |                        |        |                      |             |
| Units: ug/L     | Analysis Date:25-JUN-94    |              | 25-JUN-94          |              | 25-JUN-94              |                        |        | Client ID:Batch QC   |             |
| Benzene         | < 0.50                     | 20.0         | 13.7               | 68.5         | 13.4                   | 67.0                   | 2.2    | 34                   | 57.3-138%   |
| Toluene         | < 0.50                     | 20.0         | 17.2               | 86.0         | 17.1                   | 85.5                   | 0.5    | 31                   | 63-134%     |
| Ethylbenzene    | < 0.50                     | 20.0         | 16.5               | 82.5         | 16.4                   | 82.0                   | 0.6    | 38                   | 59.3-137%   |
| Xylenes (Total) | < 0.50                     | 60.0         | 56.7               | 94.5         | 58.4                   | 97.3                   | 2.9    | 31                   | 59.3-144%   |

Notes:

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 9-4816  
Facility Address 301 14th St. Oakland, CA.  
Consultant Project Number 20124084.00  
Consultant Name Groundwater Technology, Inc.  
Address 4057 Port Chicago Hwy, Concord, CA. 94520  
Project Contact (Name) Tim Watchers  
(Phone) 510-671-2387 (Fax Number) \_\_\_\_\_

Chevron Contact (Name) Mark Miller  
(Phone) 842-8134  
Laboratory Name GTEL  
Laboratory Release Number 913-6950  
Samples Collected by (Name) Rick Wickman  
Collection Date 6-17-94  
Signature Rick Wickman

| Sample Number | Lab Sample Number | Number of Containers | Matrix<br>S = Soil<br>W = Water<br>A = Air<br>C = Charcoal | Type<br>G = Grab<br>C = Composite<br>D = Discrete | Time  | Sample Preservation | Iced (Yes or No) | Analysis To Be Performed        |                      |                          |                                 |                               |                              |                                |  |   |   | NOTE:<br>Do NOT BILL<br>TB-LB SAMPLES<br>5°C<br><br>Remarks |   |   |   |   |   |  |
|---------------|-------------------|----------------------|--|---|-------|---------------------|------------------|---------------------------------|----------------------|--------------------------|---------------------------------|-------------------------------|------------------------------|--------------------------------|--|---|---|---|---|---|---|---|---|--|
|               |                   |                      |  |   |       |                     |                  | BTEX + TPH GAS<br>(8020 + 8015) | TPH Diesel<br>(8015) | Oil and Grease<br>(5520) | Purgeable Halocarbons<br>(8010) | Purgeable Aromatics<br>(8020) | Purgeable Organics<br>(8240) | Extractable Organics<br>(8270) | Metals<br>Cd, Cr, Pb, Zn, Ni<br>(ICAP or AA) |   |   |   |   |   |   |   |   |  |
| C-6           | 01                | 3                    | W  | C   | 12:55 | HCL                 | Y                | X                               | N                    | N                        | N                               | N                             | N                            | N                              | N  | N | N | N   | N | N | N | N | N |  |
| C-9           | 02                |                      |  |   | 13:05 |                     |                  |                                 | N                    | N                        | N                               | N                             | N                            | N                              | N  | N | N | N   | N | N | N | N | N |  |
| C-7           | 03                |                      |  |   | 13:15 |                     |                  |                                 | N                    | N                        | N                               | N                             | N                            | N                              | N  | N | N | N   | N | N | N | N | N |  |
| CR-1          | 04                |                      |  |   | 13:25 |                     |                  |                                 | N                    | N                        | N                               | N                             | N                            | N                              | N  | N | N | N   | N | N | N | N | N |  |
| C-8           | 05                |                      |  |   | 13:35 |                     |                  |                                 | N                    | N                        | N                               | N                             | N                            | N                              | N  | N | N | N   | N | N | N | N | N |  |
| C-4           | 06                |                      |  |   | 13:50 |                     |                  |                                 | N                    | N                        | N                               | N                             | N                            | N                              | N  | N | N | N   | N | N | N | N | N |  |
| C-3           | 07                |                      |  |   | 14:00 |                     |                  |                                 | N                    | N                        | N                               | N                             | N                            | N                              | N  | N | N | N   | N | N | N | N | N |  |
| C-2           | 08                |                      |  |   | 14:10 |                     |                  |                                 | N                    | N                        | N                               | N                             | N                            | N                              | N  | N | N | N   | N | N | N | N | N |  |
| C-1           | 09                |                      |  |   | 14:30 |                     |                  |                                 | N                    | N                        | N                               | N                             | N                            | N                              | N  | N | N | N   | N | N | N | N | N |  |
| C-5           | 10                |                      |  |   | 14:45 |                     |                  |                                 | N                    | N                        | N                               | N                             | N                            | N                              | N  | N | N | N   | N | N | N | N | N |  |
| C-10          | 11                |                      |  |   | 15:00 |                     |                  |                                 | N                    | N                        | N                               | N                             | N                            | N                              | N  | N | N | N   | N | N | N | N | N |  |
| TBLB          | 12                |                      |  |   |       |                     |                  |                                 | N                    | N                        | N                               | N                             | N                            | N                              | N  | N | N | N   | N | N | N | N | N |  |

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|  |                             |                                  |   |                             |                                   |   |
|--|-----------------------------|----------------------------------|---|-----------------------------|-----------------------------------|---|
| Relinquished By (Signature)<br><u>Rick Wickman</u>   | Organization<br><u>GTEL</u> | Date/Time<br><u>6/17 17:00</u>   | Received By (Signature)<br><u>Clayton Arzola</u>                  | Organization<br><u>GTEL</u> | Date/Time<br><u>6-22-94</u>       | Turn Around Time (Circle Choice)<br><br>24 Hrs.<br>48 Hrs.<br>5 Days<br>10 Days<br><u>As Contracted</u> |
| Relinquished By (Signature)<br><u>Clayton Arzola</u> | Organization<br><u>GTEL</u> | Date/Time<br><u>1400 6-22-94</u> | Received By (Signature)<br><u>John Weber</u>                      | Organization<br><u>GTEL</u> | Date/Time<br><u>1400 6-22-94</u>  |   |
| Relinquished By (Signature)<br><u>John Weber</u>     | Organization<br><u>GTEL</u> | Date/Time<br><u>1600 6-22-94</u> | Received For Laboratory By (Signature)<br><u>Ronald C. Jensen</u> | Organization<br><u>GTEL</u> | Date/Time<br><u>16:00 6/22/94</u> |   |