

Received 1/15/92  
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**Chevron U.S.A. Inc.**  
2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500  
Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

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Marketing Department

January 8, 1992

Mr. Scott Seery  
Alameda County Environmental Health  
80 Swan Way, Room 200  
Oakland, CA 94621

Re: **Chevron Service Station #9-8139**  
**16304 Foothill Rd.**  
**San Leandro, California**

Mr. Seery :

Enclosed is the quarterly ground water monitoring and sampling report dated December 30, 1991. Ground water samples from monitoring wells, MW-1, MW-7, and MW-8, were nondetect (ND) for total petroleum hydrocarbon as gasoline (TPH-G), benzene, toluene, ethylbenzene, and xylene (BTEX). Samples from wells, MW-2, MW-3, MW-6, and MW-9, contained dissolved hydrocarbons in the following ranges: TPH-G from ND to 18000 ppb, benzene from ND to 2400 ppb, toluene from 0.5 ppb to 1200 ppb, ethylbenzene from ND to 86 ppb, and xylenes from ND to 2200 ppb. Samples were not taken from wells, MW-4 and MW-5 because they were used as extraction wells. During this sampling period, depth to water ranged from 15.42 feet to 21.84 feet.

The ground water extraction and treatment system is operating as of August 11, 1991.

If you have any questions or comments, call me at (510) 842-8752.

Sincerely,

Kenneth Kan  
Engineer

LKAN/MacFile 9-8139R

Enclosure

cc: Mr. Lester Feldman, RWQCB-S.F.Bay Region  
2101 Webster Str., Suite 500, Oakland, CA 94612

Mr. Bill Scudder, Chevron U.S.A., Inc.

Reviewed 1/15/92  
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**QUARTERLY MONITORING REPORT  
FOURTH QUARTER 1991**

**CHEVRON SERVICE STATION NO. 9-8139  
16304 Foothill Boulevard  
San Leandro, California**

December 1991

Prepared for  
**CHEVRON USA, INC.**

Prepared by  
**BURLINGTON ENVIRONMENTAL**

950 B Gilman Street  
Berkeley, California 94710

CHV149/297



**BURLINGTON  
ENVIRONMENTAL INC.**

*CHEMPRO Division*

December 30, 1991  
CHV149/297

Mr. Walt Posluszny  
Environmental Engineer  
Chevron USA, Inc.  
2410 Camino Ramon  
San Ramon, California 94583-0804

Re: **QUARTERLY MONITORING REPORT**  
Fourth Quarter 1991  
Chevron Service Station No. 9-8139  
16304 Foothill Boulevard  
San Leandro, California

Dear Mr. Posluszny:

Burlington Environmental is pleased to submit the following quarterly monitoring report for Chevron USA, Inc. (Chevron) Service Station No. 9-8139, located at 16304 Foothill Boulevard in San Leandro, California. The groundwater monitoring and sampling was conducted by Burlington on November 13 and 14, 1991.

#### **MONITORING ACTIVITIES**

The groundwater extraction and treatment system began operation for sampling purposes only on July 19, 1991. After regulatory approval, the system initiated normal operations on August 11, 1991. The system consists of three groundwater extraction wells, an oil/water separator, aqueous-phase carbon adsorption units, and a post treatment water storage tank.

The site is occupied by an operating service station located on Foothill Boulevard in southern San Leandro, California (see Figure 1). The service station is located approximately 250 feet east of Highway 580, and 6,000 feet south of Lake Chabot. There are currently five groundwater monitoring wells and three groundwater extraction wells located onsite and two groundwater monitoring wells located offsite (see Figure 2). In each monitoring well, the depth to groundwater and the presence or absence of phase-separated hydrocarbons (PSH) were determined. Groundwater samples were collected and analyzed according to Chevron and EPA guidelines to determine the concentrations of total petroleum hydrocarbons as gasoline (TPH), and benzene, toluene, ethylbenzene and total xylenes (BTEX). The monitoring and sampling procedures are presented in Appendix A. Field data sheets are presented in Appendix B.

Superior Precision Analytical, Inc., located in San Francisco, California, performed the analyses. The analytical results, techniques, and detection limits are presented in Table 1.

## RESULTS

The groundwater elevation in the monitoring wells beneath and in the vicinity of the site on November 13 and 14, 1991, ranged from 105.05 to 111.29 feet above mean sea level (see Table 2). A contour map of these data is presented in Figure 3. Also included and contoured in Figure 3 are the average water level elevations collected in the three extraction wells on October 29, 1991. As shown on the contour map, the general groundwater flow direction beneath the site is to the south with an approximate gradient of 0.03 ft/ft. Also shown is a pronounced groundwater depression in the vicinity of the extraction wells.

The results of the chemical analyses are presented in Table 1. No PSH were detected in any of the monitoring wells during the November quarterly sampling event. Figures 4 and 5 present isoconcentration contours for TPH and benzene, respectively. Chain-of-custody documentation and certified analytical results are presented in Appendix C.

Burlington appreciates the opportunity to provide Chevron with quality consulting and remediation services. Please feel free to contact us if we can provide further assistance.

Very truly yours,  
BURLINGTON ENVIRONMENTAL



Felicia A Rein  
Environmental Scientist II



David C. Tight, R.G. No. 4603  
Investigation/Remediation Manager

- Attachments:
- Table 1 - Groundwater Analyses and Analytical Techniques
  - Table 2 - Groundwater Elevation Data
  - Figure 1 - Site Location Map
  - Figure 2 - Site Vicinity Map
  - Figure 3 - Groundwater Elevation Contours
  - Figure 4 - TPH Isoconcentration Contours
  - Figure 5 - Benzene Isoconcentration Contours
  - Appendix A - Groundwater Sampling and Analysis Procedures
  - Appendix B - Water Sample Field Data Sheets
  - Appendix C - Chain-of-Custody Records and Certified Analytical Reports

Table 1  
GROUNDWATER ANALYSES AND ANALYTICAL TECHNIQUES

Chevron Service Station No. 9-8139  
16304 Foothill Blvd, San Leandro, California

| WELL NUMBER               | SAMPLE NO. | DATE SAMPLED | TPH      |           |           | BENZENE | TOLUENE | ETHYL-BENZENE | XYLENES | TOTAL    |          | METALS  |      | ETHYLENE DIBROMIDE |
|---------------------------|------------|--------------|----------|-----------|-----------|---------|---------|---------------|---------|----------|----------|---------|------|--------------------|
|                           |            |              | Gasoline | Diesel    | & GREASE  |         |         |               |         | Pb       | Cr       | Cd      | Zn   |                    |
| EPA Detection Method:     |            |              | 8015     | 8015      | 413       | 602*    | 602*    | 602*          | 602*    | 7420     | 7190     | 7130    | 7950 | 504                |
| MW-1                      | WS-1SL     | 12/5/89      | ND(<500) | ND(<1000) | ND(<5000) | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | ND(<500) | ND(<100) | 20      | 20   | ND(<.05)           |
|                           | WS-1SL     | 5/24/90      | ND(<50)  | NA        | NA        | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA   | NA                 |
|                           | 1WSSL      | 9/6/90       | ND(<50)  | NA        | NA        | ND(<.5) | 0.8     | ND(<.5)       | 0.5     | NA       | NA       | NA      | NA   | ND(<.05)           |
|                           | WS13SL     | 11/29/90     | ND(<50)  | NA        | NA        | 1       | 0.9     | ND(<.5)       | 1       | NA       | NA       | NA      | NA   | NA                 |
|                           | WS18SL     | 2/20/91      | ND(<50)  | NA        | NA        | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA   | NA                 |
|                           | WS27SL     | 5/22/91      | ND(<50)  | NA        | NA        | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA   | NA                 |
|                           | WS39SL     | 8/22/91      | ND(<50)  | NA        | NA        | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA   | NA                 |
|                           | WS47SL     | 11/13/91     | ND(<50)  | NA        | NA        | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA   | NA                 |
| MW-2<br><i>Under tank</i> | WS-2SL     | 12/5/89      | ND(<500) | ND(<1000) | ND(<5000) | ND(<.5) | ND(<.5) | ND(<.5)       | 0.9     | ND(<500) | ND(<100) | ND(<10) | 10   | ND(<.05)           |
|                           | WS-2SL     | 5/24/90      | ND(<50)  | NA        | NA        | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA   | NA                 |
|                           | 2WSSL      | 9/6/90       | ND(<50)  | NA        | NA        | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA   | ND(<.05)           |
|                           | WS10SL     | 11/29/90     | ND(<50)  | NA        | NA        | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA   | NA                 |
|                           | WS19SL     | 2/20/91      | ND(<50)  | NA        | NA        | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA   | NA                 |
|                           | WS26SL     | 5/22/91      | ND(<50)  | NA        | NA        | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA   | NA                 |
|                           | WS38SL     | 8/22/91      | ND(<50)  | NA        | NA        | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA   | NA                 |
|                           | WS45SL     | 11/13/91     | ND(<50)  | NA        | NA        | ND(<.5) | 0.5     | 0.7           | 2.3     | NA       | NA       | NA      | NA   | NA                 |
| MW-3                      | WS-3SL     | 12/5/89      | 24,000   | NA        | NA        | 2,400   | 1,300   | 360           | 2,600   | NA       | NA       | NA      | NA   | ND(<.05)           |
|                           | DUP WS-5SL | 12/5/89      | 24,000   | NA        | ND(<5000) | 2,400   | 1,300   | 390           | 2,800   | ND(<500) | ND(<100) | ND(<10) | 40   | ND(<.05)           |
|                           | WS-3SL     | 5/24/90      | 9,000    | NA        | NA        | 2,400   | 1,700   | 250           | 1,300   | NA       | NA       | NA      | NA   | NA                 |
|                           | DUP WS-4SL | 5/24/90      | 10,000   | NA        | NA        | 2,400   | 1,000   | 260           | 1,600   | NA       | NA       | NA      | NA   | NA                 |
|                           | 3WSSL      | 9/6/90       | 3,500    | NA        | NA        | 900     | 550     | 110           | 460     | NA       | NA       | NA      | NA   | ND(<.05)           |
|                           | WS15SL     | 11/29/90     | 9,200    | NA        | NA        | 1,100   | 1,100   | 210           | 1,100   | NA       | NA       | NA      | NA   | NA                 |
|                           | WS21SL     | 2/20/91      | 8,800    | NA        | NA        | 960     | 780     | 200           | 920     | NA       | NA       | NA      | NA   | NA                 |
|                           | WS29SL     | 5/22/91      | 28,000   | NA        | NA        | 5,800   | 1,200   | 460           | 2,300   | NA       | NA       | NA      | NA   | NA                 |
|                           | WS41SL     | 8/22/91      | 21,000   | NA        | NA        | 3,100   | 2,000   | 480           | 2,000   | NA       | NA       | NA      | NA   | NA                 |
|                           | DUP WS42SL | 8/22/91      | 19,000   | NA        | NA        | 2,700   | 1,800   | 420           | 1,700   | NA       | NA       | NA      | NA   | NA                 |
| WS49SL                    | 11/13/91   | 10,000       | NA       | NA        | 1,100     | 1,300   | 450     | 1,300         | NA      | NA       | NA       | NA      | NA   |                    |
| MW-4**<br>(EW-3)          | WS-4SL     | 12/5/89      | 19,000   | NA        | NA        | 390     | 1,300   | 460           | 1,800   | NA       | NA       | NA      | NA   | ND(<.05)           |
|                           | WS-5SL     | 5/24/90      | 4,500    | NA        | NA        | 210     | 440     | 140           | 480     | NA       | NA       | NA      | NA   | NA                 |
|                           | 4WSSL      | 9/6/90       | 6,000    | NA        | NA        | 680     | 520     | 170           | 580     | NA       | NA       | NA      | NA   | ND(<.05)           |
|                           | WS16SL     | 11/29/90     | 15,000   | NA        | NA        | 800     | 1,000   | 430           | 1,700   | NA       | NA       | NA      | NA   | NA                 |
|                           | WS22SL     | 2/20/91      | 15,000   | NA        | NA        | 640     | 390     | 420           | 1,600   | NA       | NA       | NA      | NA   | NA                 |
|                           | DUP WS23SL | 2/20/91      | 15,000   | NA        | NA        | 680     | 410     | 430           | 1,600   | NA       | NA       | NA      | NA   | NA                 |
|                           | WS30SL     | 5/22/91      | 9,800    | NA        | NA        | 580     | 140     | 310           | 740     | NA       | NA       | NA      | NA   | NA                 |
|                           | DUP WS31SL | 5/22/91      | 7,200    | NA        | NA        | 520     | 130     | 270           | 670     | NA       | NA       | NA      | NA   | NA                 |

(continued)

Table 1  
GROUNDWATER ANALYSES AND ANALYTICAL TECHNIQUES

Chevron Service Station No. 9-8139  
16304 Foothill Blvd, San Leandro, California  
(continued)

| WELL NUMBER           | SAMPLE NO. | DATE SAMPLED | TPH Gasoline | TPH Diesel | TOTAL OIL & GREASE | BENZENE | TOLUENE | ETHYL-BENZENE | XYLENES | TOTAL METALS |      |      |      | ETHYLENE DIBROMIDE |
|-----------------------|------------|--------------|--------------|------------|--------------------|---------|---------|---------------|---------|--------------|------|------|------|--------------------|
|                       |            |              |              |            |                    |         |         |               |         | Pb           | Cr   | Cd   | Zn   |                    |
| EPA Detection Method: |            |              | 8015         | 8015       | 413                | 602*    | 602*    | 602*          | 602*    | 7420         | 7190 | 7130 | 7950 | 504                |
| MW-5**<br>(DU-2)      | WS-6SL *   | 5/25/90      | 28,000       | NA         | NA                 | 920     | 1,100   | 460           | 1,300   | NA           | NA   | NA   | NA   | 2.40               |
|                       | NS *       | 9/7/90       | NA           | NA         | NA                 | NA      | NA      | NA            | NA      | NA           | NA   | NA   | NA   | NA                 |
|                       | NS         | 11/29/90     | NA           | NA         | NA                 | NA      | NA      | NA            | NA      | NA           | NA   | NA   | NA   | NA                 |
|                       | NS         | 2/20/91      | NA           | NA         | NA                 | NA      | NA      | NA            | NA      | NA           | NA   | NA   | NA   | NA                 |
|                       | NS         | 5/22/91      | NA           | NA         | NA                 | NA      | NA      | NA            | NA      | NA           | NA   | NA   | NA   | NA                 |
| MW-6                  | WS-7SL *   | 5/25/90      | ND(<50)      | NA         | NA                 | ND(<2)  | ND(<3)  | ND(<3)        | ND(<3)  | NA           | NA   | NA   | NA   | ND(<.02)           |
|                       | 6WSSL *    | 9/7/90       | ND(<50)      | NA         | NA                 | ND(<2)  | ND(<3)  | ND(<3)        | ND(<3)  | NA           | NA   | NA   | NA   | ND(<.05)           |
|                       | WS17SL     | 11/29/90     | ND(<50)      | NA         | NA                 | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA           | NA   | NA   | NA   | NA                 |
|                       | WS24SL     | 2/20/91      | ND(<50)      | NA         | NA                 | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA           | NA   | NA   | NA   | NA                 |
|                       | WS32SL     | 5/22/91      | ND(<50)      | NA         | NA                 | 0.5     | 0.7     | ND(<.5)       | 1.1     | NA           | NA   | NA   | NA   | NA                 |
|                       | WS45SL     | 8/23/91      | ND(<50)      | NA         | NA                 | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA           | NA   | NA   | NA   | NA                 |
|                       | WS50SL     | 11/14/91     | ND(<50)      | NA         | NA                 | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA           | NA   | NA   | NA   | NA                 |
| WS51SL                | 11/14/91   | ND(<50)      | NA           | NA         | ND(<.5)            | 0.6     | ND(<.5) | 1.1           | NA      | NA           | NA   | NA   | NA   |                    |
| MW-7<br>DUP           | WS-8SL *   | 5/25/90      | ND(<50)      | NA         | NA                 | ND(<2)  | ND(<3)  | ND(<3)        | ND(<3)  | NA           | NA   | NA   | NA   | ND(<.02)           |
|                       | 7WSSL *    | 9/7/90       | ND(<50)      | NA         | NA                 | ND(<2)  | ND(<3)  | ND(<3)        | ND(<3)  | NA           | NA   | NA   | NA   | ND(<.05)           |
|                       | 8WSSL *    | 9/7/90       | ND(<50)      | NA         | NA                 | ND(<2)  | ND(<3)  | ND(<3)        | ND(<3)  | NA           | NA   | NA   | NA   | ND(<.05)           |
|                       | WS14SL     | 11/29/90     | ND(<50)      | NA         | NA                 | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA           | NA   | NA   | NA   | NA                 |
|                       | WS20SL     | 2/20/91      | ND(<50)      | NA         | NA                 | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA           | NA   | NA   | NA   | NA                 |
|                       | WS28SL     | 5/22/91      | ND(<50)      | NA         | NA                 | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA           | NA   | NA   | NA   | NA                 |
|                       | WS40SL     | 8/22/91      | ND(<50)      | NA         | NA                 | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA           | NA   | NA   | NA   | NA                 |
|                       | WS48SL     | 11/13/91     | ND(<50)      | NA         | NA                 | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA           | NA   | NA   | NA   | NA                 |
| MW-8<br>DUP           | 9WSSL      | 9/7/90       | ND(<50)      | NA         | NA                 | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA           | NA   | NA   | NA   | ND(<.05)           |
|                       | WS11SL     | 11/29/90     | ND(<50)      | NA         | NA                 | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA           | NA   | NA   | NA   | NA                 |
|                       | WS12SL     | 11/29/90     | ND(<50)      | NA         | NA                 | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA           | NA   | NA   | NA   | NA                 |
|                       | WS25SL     | 2/20/91      | ND(<50)      | NA         | NA                 | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA           | NA   | NA   | NA   | NA                 |
|                       | WS33SL     | 5/22/91      | ND(<50)      | NA         | NA                 | 0.6     | ND(<.5) | ND(<.5)       | 1.0     | NA           | NA   | NA   | NA   | NA                 |
|                       | WS44SL     | 8/23/91      | ND(<50)      | NA         | NA                 | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA           | NA   | NA   | NA   | NA                 |
|                       | WS52SL     | 11/14/91     | ND(<50)      | NA         | NA                 | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA           | NA   | NA   | NA   | NA                 |
| MW-9                  | WS43SL     | 8/22/91      | 9500         | NA         | NA                 | 46      | 170     | 98            | 1,200   | NA           | NA   | NA   | NA   | ND(<.05)           |
|                       | WS53SL     | 11/14/91     | 13,500       | NA         | NA                 | 30      | 58      | 86            | 1,540   | NA           | NA   | NA   | NA   | ND(<.05)           |
| MW-1**                | WS-9SL *   | 5/25/90      | 3,900        | NA         | NA                 | 260     | 430     | 64            | 340     | NA           | NA   | NA   | NA   | 0.03               |

(continued)

Table 1  
GROUNDWATER ANALYSES AND ANALYTICAL TECHNIQUES

Chevron Service Station No. 9-8139  
16304 Foothill Blvd, San Leandro, California

(continued)

| WELL NUMBER           | SAMPLE NO. | DATE SAMPLED | TPH      |        | TPH TOTAL OIL & GREASE | BENZENE | TOLUENE | ETHYL-BENZENE | XYLENES | TOTAL    |          | METALS  |        | ETHYLENE DIBROMIDE |
|-----------------------|------------|--------------|----------|--------|------------------------|---------|---------|---------------|---------|----------|----------|---------|--------|--------------------|
|                       |            |              | Gasoline | Diesel |                        |         |         |               |         | Pb       | Cr       | Cd      | Zn     |                    |
| EPA Detection Method: |            |              | 8015     | 8015   | 413                    | 602*    | 602*    | 602*          | 602*    | 7420     | 7190     | 7130    | 7950   | 504                |
| RINSATE               | RS-4SL     | 12/5/89      | ND(<500) | NA     | ND(<5000)              | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | ND(<500) | ND(<100) | ND(<10) | D(<10) | ND(<.05)           |
|                       | RS-1SL     | 5/24/90      | ND(<50)  | NA     | NA                     | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA     | NA                 |
|                       | 1RSSL      | 9/7/90       | ND(<50)  | NA     | NA                     | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA     | ND(<.05)           |
|                       | RS3SL      | 2/20/91      | ND(<50)  | NA     | NA                     | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA     | NA                 |
|                       | RS4SL      | 5/22/91      | ND(<50)  | NA     | NA                     | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA     | NA                 |
|                       | RS7SL      | 8/22/91      | ND(<50)  | NA     | NA                     | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA     | NA                 |
|                       | RS7SL      | 11/13/91     | ND(<50)  | NA     | NA                     | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA     | NA                 |
| TRIP BLANK            | TB3SL      | 2/20/91      | ND(<50)  | NA     | NA                     | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA     | NA                 |
|                       | TB4SL      | 5/22/91      | ND(<50)  | NA     | NA                     | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA     | NA                 |
|                       | TB6SL      | 5/22/91      | ND(<50)  | NA     | NA                     | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA     | NA                 |
|                       | TB7SL      | 11/13/91     | ND(<50)  | NA     | NA                     | ND(<.5) | ND(<.5) | ND(<.5)       | ND(<.5) | NA       | NA       | NA      | NA     | NA                 |

Notes:

Groundwater chemistry values presented in parts per billion (ppb).

ND = Less than method detection limit

NS = Not Sampled due to the presence of floating product

NA = No Analysis

DUP = Duplicate Sample

\*In 5/90 and in 9/90 MW-5, MW-6, MW-7 and EW-1 were analyzed for Volatile Organics using EPA Method 8240 (624).

Other samples were analyzed using EPA Method 8020 (602).

\*\*MW-4 and MW-5 were converted to extraction wells EW-3 and EW-2, respectively, on June 10, 1991.

Extraction wells are not monitored in quarterly events.

Table 2  
GROUNDWATER ELEVATION DATA

Chevron Service Station No. 9-8139  
16304 Foothill Blvd., San Leandro, California

| Well Number | Date Sampled | Casing Diameter (inches) | TOC Elevation (ft-MSL) | Depth to Water (ft-BTOC) | PSH (ft)   | Water Elevation (ft-MSL) |
|-------------|--------------|--------------------------|------------------------|--------------------------|------------|--------------------------|
| MW-1        | 3/23/90      | 2.0                      | 127.09                 | 12.92                    | ND         | 114.17                   |
|             | 9/6/90       | 2.0                      | 127.09                 | 14.68                    | ND         | 112.41                   |
|             | 9/25/90      | 2.0                      | 127.09                 | 15.01                    | ND         | 112.08                   |
|             | 11/29/90     | 2.0                      | 127.09                 | 14.82                    | ND         | 112.27                   |
|             | 2/20/91      | 2.0                      | 127.09                 | 14.29                    | ND         | 112.80                   |
|             | 4/19/91      | 2.0                      | 127.09                 | 12.16                    | ND         | 114.93                   |
|             | 5/22/91      | 2.0                      | 127.09                 | 13.69                    | ND         | 113.40                   |
|             | 8/22/91      | 2.0                      | 127.09                 | 15.38                    | ND         | 111.71                   |
|             | 11/13/91     | 2.0                      | 127.09                 | 15.80                    | ND         | 111.29                   |
| MW-2        | 3/23/90      | 2.0                      | 125.98                 | 12.40                    | ND         | 113.58                   |
|             | 9/6/90       | 2.0                      | 125.98                 | 14.85                    | ND         | 111.13                   |
|             | 9/25/90      | 2.0                      | 125.98                 | 14.80                    | ND         | 111.18                   |
|             | 11/29/90     | 2.0                      | 125.98                 | 14.40                    | ND         | 111.58                   |
|             | 2/20/91      | 2.0                      | 125.98                 | 14.09                    | ND         | 111.89                   |
|             | 4/19/91      | 2.0                      | 125.98                 | 12.62                    | ND         | 113.36                   |
|             | 5/22/91      | 2.0                      | 125.98                 | 12.98                    | ND         | 113.00                   |
|             | 8/22/91      | 2.0                      | 125.98                 | 14.93                    | ND         | 111.05                   |
|             | 11/13/91     | 2.0                      | 125.98                 | 15.42                    | ND         | 110.56                   |
| MW-3 (a)    | 3/23/90      | 2.0                      | 127.84                 | 17.50                    | ND         | 110.34                   |
|             | 9/6/90       | 2.0                      | 126.77                 | 18.72                    | ND         | 108.05                   |
|             | 9/25/90      | 2.0                      | 126.77                 | 18.40                    | ND         | 108.37                   |
|             | 11/29/90     | 2.0                      | 126.77                 | 18.97                    | ND         | 107.80                   |
|             | 2/20/91      | 2.0                      | 126.77                 | 19.20                    | ND         | 107.57                   |
|             | 4/19/91      | 2.0                      | 126.77                 | 17.81                    | ND         | 108.96                   |
|             | 5/22/91      | 2.0                      | 126.77                 | 17.88                    | ND         | 108.89                   |
|             | 8/1/91       | 2.0                      | 126.77                 | 19.23                    | ND         | 107.54                   |
|             | 8/22/91      | 2.0                      | 126.77                 | 20.17                    | ND         | 106.60                   |
| 11/13/91    | 2.0          | 126.77                   | 19.95                  | ND                       | 106.82     |                          |
| MW-4 (c)    | 3/23/90      | 2.0                      | 125.22                 | 16.02                    | ND         | 109.20                   |
|             | 9/6/90       | 2.0                      | 125.22                 | 17.35                    | ND         | 107.87                   |
|             | 9/25/90      | 2.0                      | 125.22                 | 17.48                    | ND         | 107.74                   |
|             | 11/29/90     | 2.0                      | 125.22                 | 17.61                    | ND         | 107.61                   |
|             | 2/20/91      | 2.0                      | 125.22                 | 17.81                    | ND         | 107.41                   |
|             | 4/19/91      | 2.0                      | 125.22                 | 15.80                    | ND         | 109.42                   |
|             | 5/22/91      | 2.0                      | 125.22                 | 16.68                    | ND         | 108.54                   |
| MW-5 (c)    | 3/23/90      | 2.0                      | 125.85                 | 16.89                    | ND         | 108.96                   |
|             | 9/7/90       | 2.0                      | 125.85                 | 18.46                    | 0.04       | 107.42 (b)               |
|             | 9/25/90      | 2.0                      | 125.85                 | 19.30                    | 1.3        | 107.58 (b)               |
|             | 11/29/90     | 2.0                      | 125.85                 | 18.87                    | 0.71       | 107.54 (b)               |
|             | 2/20/91      | 2.0                      | 125.85                 | 18.91                    | 0.47       | 107.31 (b)               |
|             | 4/19/91      | 2.0                      | 125.85                 | 16.99                    | 0.48       | 109.24 (b)               |
| 5/22/91     | 2.0          | 125.85                   | 17.69                  | 0.33                     | 108.42 (b) |                          |

(continued)



Table 2  
GROUNDWATER ELEVATION DATA

Chevron Service Station No. 9-8139  
16304 Foothill Blvd., San Leandro, California  
(continued)

| Well Number | Date Sampled | Casing Diameter (inches) | TOC Elevation (ft-MSL) | Depth to Water (ft-BTOC) | PSH (ft) | Water Elevation (ft-MSL) |
|-------------|--------------|--------------------------|------------------------|--------------------------|----------|--------------------------|
| MW-6        | 3/23/90      | 2.0                      | 124.18                 | 18.51                    | ND       | 105.67                   |
|             | 9/7/90       | 2.0                      | 124.18                 | 16.18                    | ND       | 108.00                   |
|             | 9/25/90      | 2.0                      | 124.18                 | 16.42                    | ND       | 107.76                   |
|             | 11/29/90     | 2.0                      | 124.18                 | 16.11                    | ND       | 108.07                   |
|             | 2/20/91      | 2.0                      | 124.18                 | 16.09                    | ND       | 108.09                   |
|             | 4/19/91      | 2.0                      | 124.18                 | 15.15                    | ND       | 109.03                   |
|             | 5/22/91      | 2.0                      | 124.18                 | 15.41                    | ND       | 108.77                   |
|             | 8/23/91      | 2.0                      | 124.18                 | 17.80                    | ND       | 106.38                   |
|             | 11/16/91     | 2.0                      | 124.18                 | 16.52                    | ND       | 107.66                   |
| MW-7        | 3/23/90      | 2.0                      | 126.86                 | 21.40                    | ND       | 105.46                   |
|             | 9/7/90       | 2.0                      | 126.86                 | 18.38                    | ND       | 108.48                   |
|             | 9/25/90      | 2.0                      | 126.86                 | 19.25                    | ND       | 107.61                   |
|             | 11/29/90     | 2.0                      | 126.86                 | 18.55                    | ND       | 108.31                   |
|             | 2/20/91      | 2.0                      | 126.86                 | 18.55                    | ND       | 108.31                   |
|             | 4/19/91      | 2.0                      | 126.86                 | 17.33                    | ND       | 109.53                   |
|             | 5/22/91      | 2.0                      | 126.86                 | 17.42                    | ND       | 109.44                   |
|             | 8/22/91      | 2.0                      | 126.86                 | 19.05                    | ND       | 107.81                   |
| 11/13/91    | 2.0          | 126.86                   | 21.84                  | ND                       | 105.02   |                          |
| MW-8        | 9/7/90       | 2.0                      | 123.61                 | 16.07                    | ND       | 107.54                   |
|             | 9/25/90      | 2.0                      | 123.61                 | 16.20                    | ND       | 107.41                   |
|             | 11/29/90     | 2.0                      | 123.61                 | 16.30                    | ND       | 107.31                   |
|             | 2/20/91      | 2.0                      | 123.61                 | 16.32                    | ND       | 107.29                   |
|             | 4/19/91      | 2.0                      | 123.61                 | 14.71                    | ND       | 108.90                   |
|             | 5/22/91      | 2.0                      | 123.61                 | 15.42                    | ND       | 108.19                   |
|             | 8/22/91      | 2.0                      | 123.61                 | 17.15                    | ND       | 106.46                   |
|             | 11/16/91     | 2.0                      | 123.61                 | 16.99                    | ND       | 106.62                   |
| MW-9        | 8/22/91      | 2.0                      | 124.20                 | 17.60                    | ND       | 106.60                   |
|             | 11/14/91     | 2.0                      | 124.20                 | 17.48                    | ND       | 106.72                   |
| EW-1        | 8/1/91       | 6.0                      | 124.95                 | 17.54                    | ND       | 107.41                   |
| EW-2        | 8/1/91       | 4.0                      | 125.79                 | 18.07                    | ND       | 107.72                   |
| EW-3        | 8/1/91       | 4.0                      | 125.22                 | 17.49                    | ND       | 107.73                   |

Notes:

TOC = Top of casing

ft-MSL = Feet above mean sea level

ft-BTOC = Feet below top of casing

ND = Not detected

(a) MW-3 wellhead modified and resurveyed on 9/6/90.

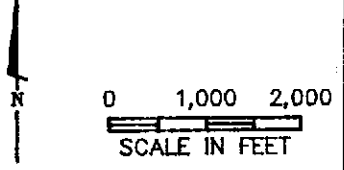
(b) Corrected water elevation in MW-5 due to presence of phase separate hydrocarbon.

(c) Well decommissioned on June 10, 1991, and replaced with groundwater extraction well.

Assumed density of gasoline = 0.79



Hayward, California [NE/4 Hayward 15' Quadrangle]  
 N3737.5-W12200/7.5

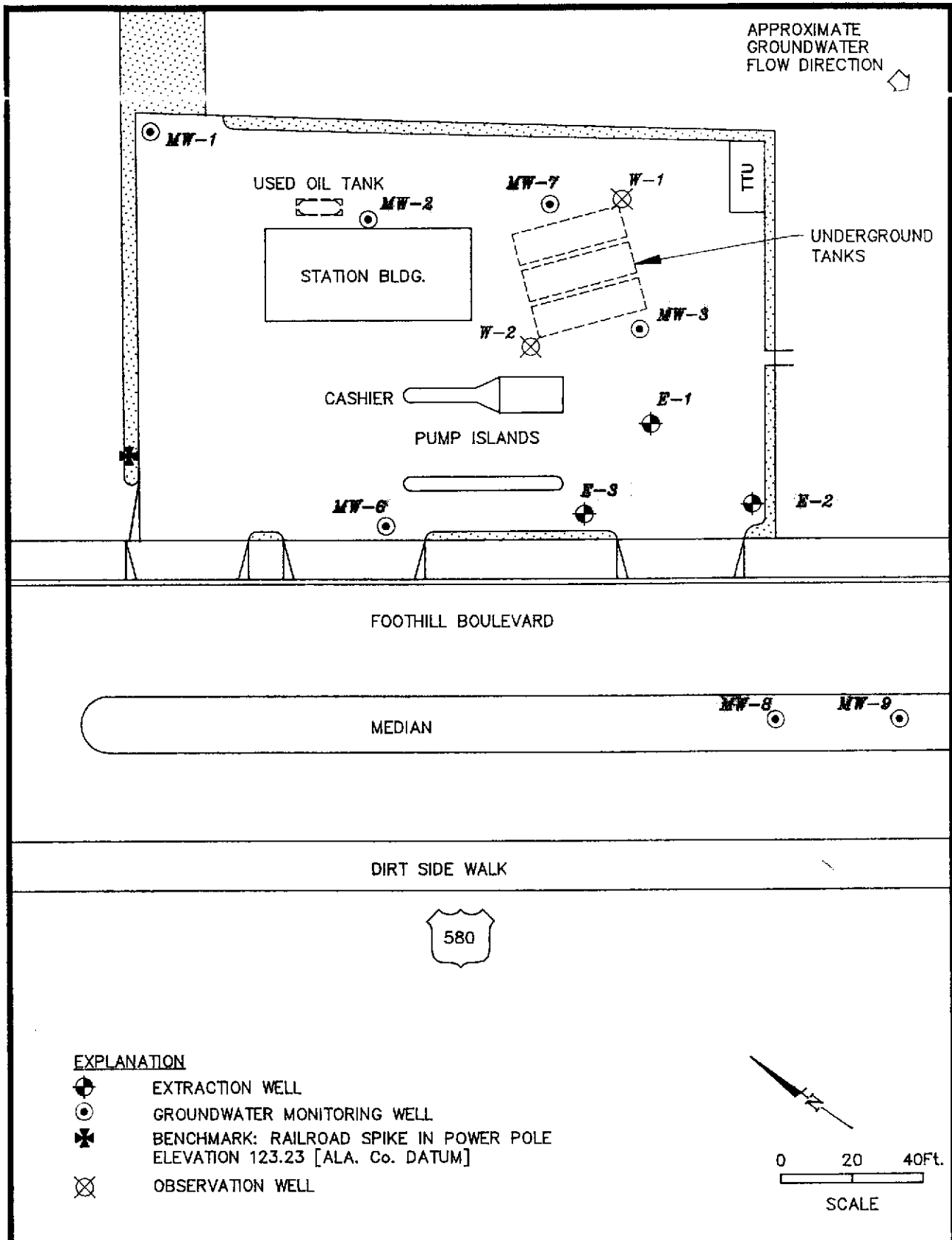


**SITE LOCATION MAP**  
 Chevron Service Station No. 9-8139  
 16304 Foothill Boulevard  
 San Leandro, California

Reviewed By : *T. Lou Kou* Date : *12/20/91*

**Figure 1**

|             |          |
|-------------|----------|
| Project No. | CHV149   |
| Drawn By    | Date     |
| PPK         | 6/28/91  |
| Drawing No. | A0629701 |



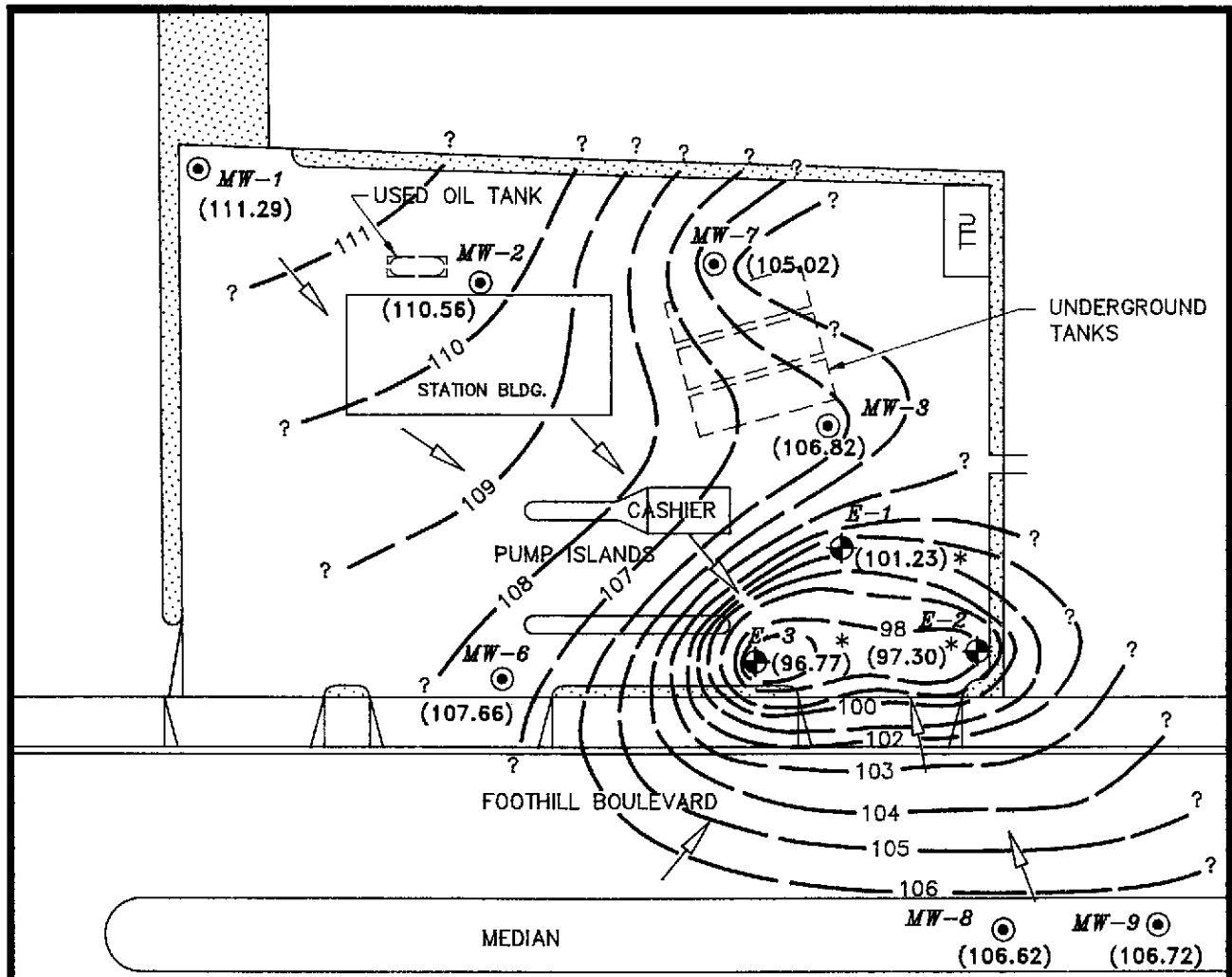
**SITE VICINITY MAP**  
Chevron Service Station No. 9-8139  
16304 Foothill Boulevard  
San Leandro, California

Reviewed By : *Lolita P. ...* Date : *12/20/91*


**Figure 2**

Project No. CHV149/158

|                      |                 |
|----------------------|-----------------|
| Drawn By<br>PPK      | Date<br>6/28/91 |
| Drawing No. A0615802 |                 |




DIRT SIDE WALK



**EXPLANATION**

- ⊙ GROUNDWATER MONITORING WELL
- ⊕ GROUNDWATER EXTRACTION WELL
- (106.62) GROUNDWATER ELEVATION (FT-MSL)  
MEASURED ON: 11/13/91
- 100- GROUNDWATER ELEVATION CONTOUR LINE (FT-MSL)  
DASHED WHERE QUERIED  
CONTOUR INTERVAL = 1 ft
- ← APPROXIMATE GROUNDWATER FLOW DIRECTION
- \* AVERAGE DEPRESSED ELEVATIONS, AS MEASURED ON 10/29/91



0 20 40 FT.  
SCALE

Fourth Quarter 1991



**GROUNDWATER ELEVATION CONTOURS**  
Chevron Service Station No. 9-8139  
16304 Foothill Boulevard  
San Leandro, California

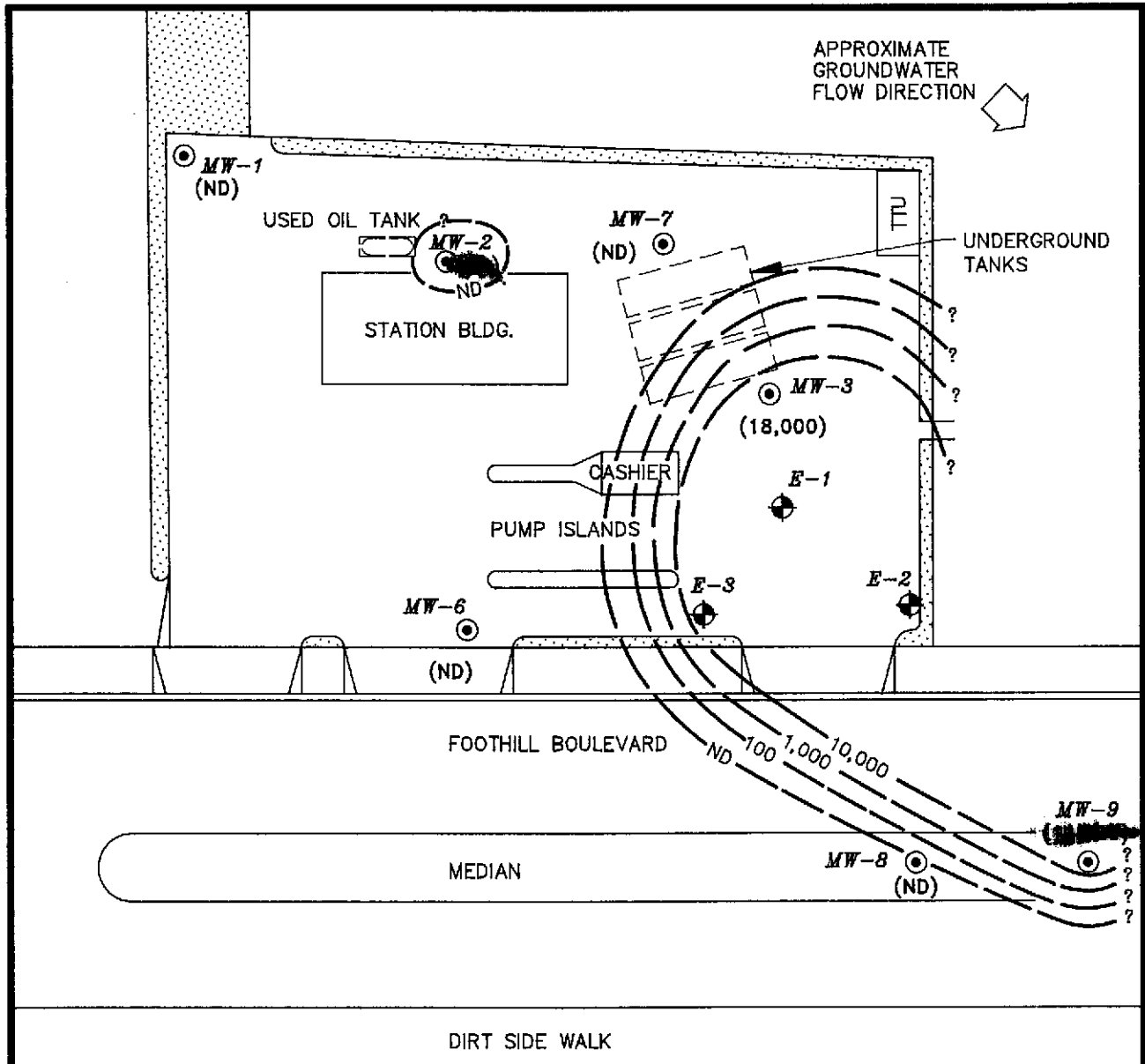
Reviewed By : *William PPK*      Date : *12/28/91*

**Figure 3**

Project No. CHV-149

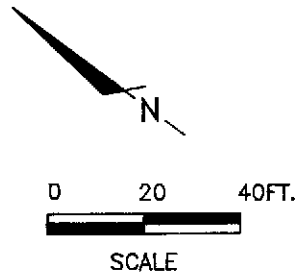
Drawn By PPK      Date 12/16/91

Drawing No. A0629731



**EXPLANATION**

- ⊙ GROUNDWATER MONITORING WELL
- ⊕ GROUNDWATER EXTRACTION WELL
- (18,000) CONCENTRATION OF TPH AS GASOLINE IN GROUNDWATER (ppb)
- (ND) NOT DETECTED (METHOD DETECTION LIMIT = 50 ppb)  
SAMPLES COLLECTED ON: 11/13 & 11/14/91
- 100— ISOCONCENTRATION CONTOUR LINE OF TPH AS GASOLINE IN GROUNDWATER (ppb)



Fourth Quarter 1991



**TPH ISOCONCENTRATION CONTOURS**  
Chevron Service Station No. 9-8139  
16304 Foothill Boulevard  
San Leandro, California

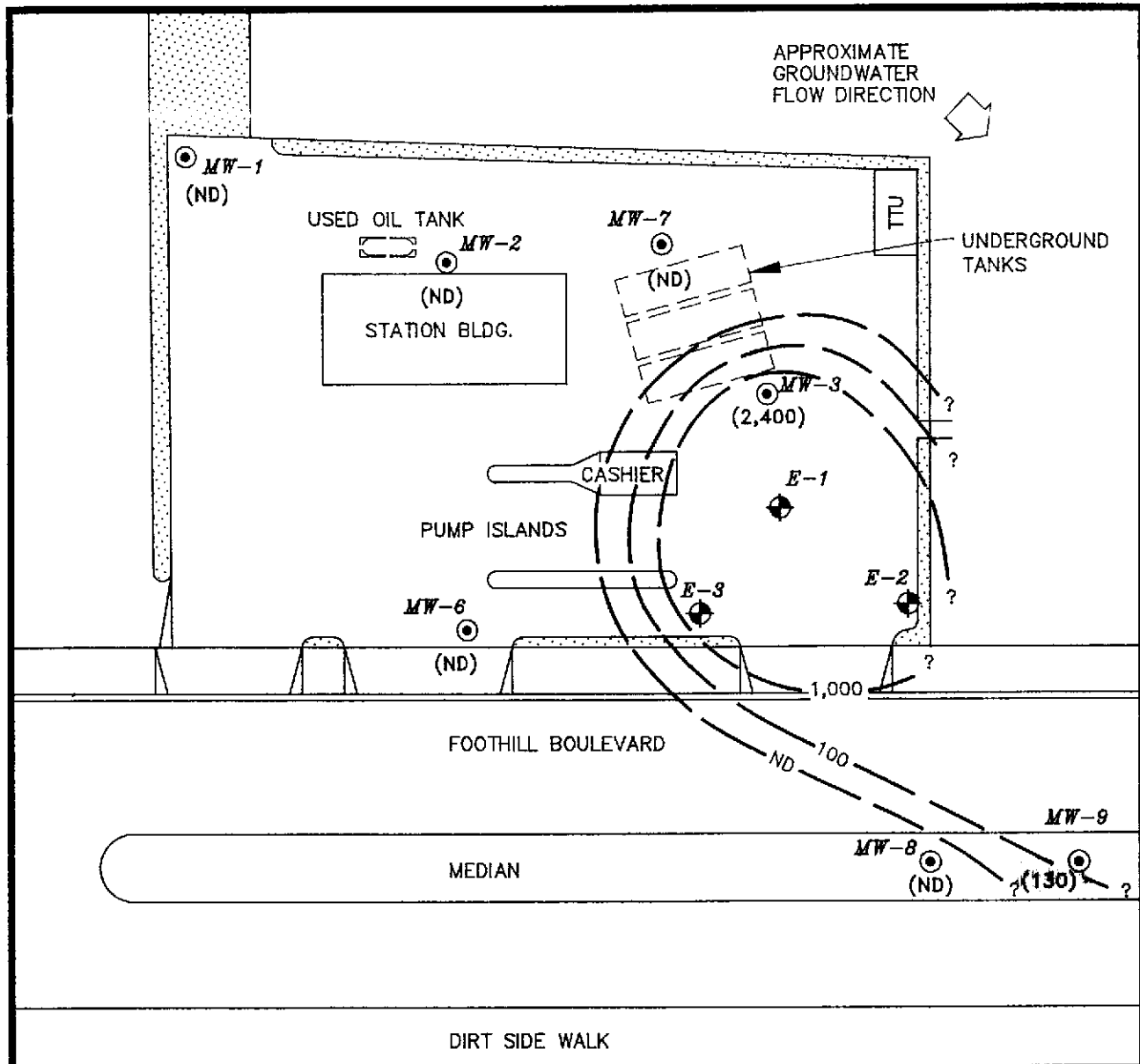
Figure 4

Project No. CHV-149

Drawn By PPK Date 12/16/91

Reviewed By: *J. Miller* Date: 12/20/91

Drawing No. A0629732

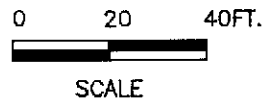


**EXPLANATION**

- ⊙ GROUNDWATER MONITORING WELL
- ⊕ GROUNDWATER EXTRACTION WELL
- (130) CONCENTRATION OF BENZENE IN GROUNDWATER (ppb)
- (ND) NOT DETECTED (METHOD DETECTION LIMIT = 0.5 ppb)
- 100 ISOCONCENTRATION CONTOUR LINE OF BENZENE IN GROUNDWATER (ppb). DASHED WHERE QUERIED

SAMPLES COLLECTED ON: 11/13 & 11/14/91

Fourth Quarter 1991



**BENZENE ISOCONCENTRATION CONTOURS**  
Chevron Service Station No. 9-8139  
16304 Foothill Boulevard  
San Leandro, California

Reviewed By: *[Signature]*

Date: 12/28/91

|                      |                  |
|----------------------|------------------|
| Figure 5             |                  |
| Project No. CHV-149  |                  |
| Drawn By<br>PPK      | Date<br>12/16/91 |
| Drawing No. A0629733 |                  |

**Appendix A**

**GROUNDWATER SAMPLING and ANALYSIS PROCEDURES**

**Appendix A**  
**GROUNDWATER SAMPLING AND ANALYSIS**  
**PROCEDURES**

**INTRODUCTION**

The sampling and analysis procedures for water-quality monitoring programs are contained in this Appendix. These procedures ensure that consistent and reproducible sampling methods are used, proper analytical methods are applied, analytical results are accurate, precise, and complete, and the overall objectives of the monitoring program are achieved.

**SAMPLE COLLECTION**

Sample collection procedures include equipment cleaning, water-level and total well-depth measurements, and well purging and sampling.

Equipment Cleaning

Sample bottles, caps, and septa were precleaned and provided by a Chevron-approved laboratory. All sampling containers were used only once and discarded after analysis was complete.

Before starting the sampling event, all equipment to be placed in the well or come in contact with groundwater was disassembled and cleaned thoroughly with detergent water, then steam cleaned with service station tap water, and rinsed with distilled water. Any parts that may absorb contaminants, such as plastic pump valves or bladders, were cleaned as described above or replaced.

During the sampling event all equipment used in the well was washed with detergent, steam-cleaned, and rinsed with distilled water before purging or sampling the next well. The rinse water was treated onsite by pumping the water into a camlock fitting on the influent to the treatment system.



### Quality Assurance Samples

A rinsate sample was collected to insure that contamination did not result from the sampling equipment. All sample bailers were steam cleaned initially, washed with TSP, and rinsed with distilled water before being dedicated in the monitoring well. A trip blank was taken to insure contamination did not result from travel exposure.

### Water-Level, Floating-Hydrocarbon, and Total Well-Depth Measurements

Before purging and sampling, the depth to water, floating hydrocarbon thickness, and the well total depth were measured using an oil water interface probe and an electric sounder. The electric sounder, manufactured by Slope-Indicator, Inc., is a transistorized instrument that uses a reel-mounted, two conductor, coaxial cable that connects the control panel to the sensor. Cable markings are stamped at 1-foot intervals. An engineers rule was used to measure the depths to the closest 0.01 foot. The water level was measured by lowering the sensor into the monitor well. A low current circuit is completed when the sensor contacts the water, which serves as an electrolyte. The current is amplified and fed across an indicator light and audible buzzer, signaling when water has been contacted. A sensitivity control compensates for very saline or conductive water. The oil water interface probe signals with a solid sound when it contacts phase-separated hydrocarbons. When the probe detects water, the sound changes to a beeping sound.

No phase-separated hydrocarbons were detected in any of the monitoring wells. When PSH is detected at greater than 1/32-inch in thickness, a sample is not collected.

All liquid measurements were recorded to the nearest 0.01 foot in the field logbook. The groundwater elevation at each monitor well was calculated by subtracting the measured depth to water from the surveyed well-casing elevation. Well total depth was then measured by lowering the sensor to the bottom of the well. Well total depth, used to calculate purge volumes and to determine whether the well screen is partially obstructed by silt, was recorded to the nearest 0.01 foot in the field log book.

### Well Purging

Before sampling, standing water in the casing was purged from the monitor wells using a PVC hand bailer. Samples were collected from the monitor wells after a minimum of four casing volumes had been evacuated or the pH, electrical conductivity, and temperature had stabilized. In the case that the monitor well was purged until dry, the well was allowed to recover to within 80% of its static water level and sampled.

The pH, electrical conductivity, and temperature meter were calibrated each day before beginning field activities. After every well volume of groundwater removed from the monitoring well, field measurements were taken. The data is presented on the water sample field data sheets. The calibration was checked once each day to verify meter performance. All field meter calibrations were recorded in the field log book.

Groundwater generated from well-purging operations were contained for temporary storage in 55-gallon drums. All drums were labeled then emptied onsite by pumping the water through the system. The sampler recorded the following information on the drum label for each drum generated:

- \* Drum content (i.e., groundwater)
- \* Source (i.e., well identification code)
- \* Date generated
- \* Client contact
- \* Project number
- \* Name of sampler

### Well Sampling

A Teflon bailer was used for well sampling. Glass bottles of at least 40 milliliters volume and fitted with Teflon-lined septa were used in sampling for volatile organics. These bottles were filled completely to prevent air from remaining in the bottle. A positive meniscus forms when the bottle is completely full. A convex Teflon septum is placed over the meniscus to eliminate air. After capping, the bottle was inverted and tapped to verify that it did not contain air bubbles. The sample containers for other parameters were filled,

and capped. Duplicate sample analysis was performed on groundwater samples collected from monitoring well MW-6 and were analyzed for the same chemical analyses.

## SAMPLE HANDLING AND DOCUMENTATION

The following section specifies the procedures and documentation used during sample handling.

### Sample Handling

All sample containers were labeled immediately following sample collection. Samples were kept cool with ice cubes until received by the laboratory. Ice cubes were replaced each day to maintain refrigeration. At the time of sampling, each sample was logged on a chain-of-custody record which accompanied the sample to the Superior Precision Analytical.

### Sample Documentation

The following procedures were used during sampling and analysis to provide chain-of-custody control during sample handling from collection through storage. Sample documentation included the use of the following:

- \* Field log books to document sampling activities in the field
- \* Labels to identify individual samples
- \* Chain-of-custody record sheets for documenting possession and transfer of samples

### Field Log Book

In the field, the sampler recorded the following information on the Water Sample Field Data Sheet for each sample collected:

- \* Project number
- \* Client name
- \* Location
- \* Name of sampler

- \* Date and time
- \* Pertinent well data (e.g., casing diameter, depth to water, well depth)
- \* Calculated and actual purge volumes
- \* Purging equipment used
- \* Sampling equipment used
- \* Appearance of each sample (e.g., color, turbidity, sediment)
- \* Results of field analyses (i.e., temperature, pH, electrical conductivity)
- \* General comments

The field logbooks were signed by the sampler.

### Labels

Sample labels contained the following information:

- \* Project number
- \* Sample number (i.e., well designation)
- \* Sampler's initials
- \* Date and time of collection
- \* Type of preservative used (if any)

### Sampling and Analysis Chain-of-Custody Record

The Sampling and Analysis Chain-of-Custody record, initiated at the time of sampling, contains, but is not limited to, the well number, sample type, analytical request, date of sampling, and the name of the sampler. The record sheet was signed, timed, and dated by the sampler when transferring the samples. The number of custodians in the chain of possessions were kept to a minimum. A copy of the Sampling and Analysis Chain-of-Custody record is included in Appendix C.

**Appendix B**

**WATER SAMPLE FIELD DATA SHEETS**



# WATER DATA SHEET

PROJECT NO.: 297

SAMPLE ID.: WS-46-SL

LOCATION: 16304 Foothill Blvd, San LEONARD DATE: 11-13-91

STATION NO.: 9-8139

WELL/SAMPLE

SAMPLER: DAL/CS

POINT DESIGNATION: mw-2

SAMPLING

DEVELOPING

BAILING FLOATING PRODUCT

Casing Diameter:

Screened Int. (ft.): 25-30

Calc. Casing Vol. (gal.): 2.53

2 inch

3 inch

4 inch

6 inch

other

Initial DTW (ft.): 15.42 @ 1025

Calc. Purge Vol. (gal.): 10.12

Initial TD (ft.): 30.31

Final DTW (ft.): 30.45 @ 1119

Casing Elev. (ft.): 125.98 Water Column Height (ft.): 14.89

Final TD (ft.): 17.41

TD (Actual) (ft.): 30

80 % Recovery (ft.): 18.39

Product Bailed (gal.): 0

## FIELD MEASUREMENTS

| TIME         | VOLUME<br>(gal.) | pH<br>(units) | TEMP.<br>(degrees F) | E.C.<br>(umhos/cm)           | COLOR        | DTW<br>(ft dry) |
|--------------|------------------|---------------|----------------------|------------------------------|--------------|-----------------|
| <u>10:14</u> | <u>2.5</u>       | <u>9.14</u>   | <u>66.7</u>          | <u>4.21 x 10<sup>2</sup></u> | <u>CAMEL</u> |                 |
| <u>11:00</u> | <u>5.0</u>       | <u>8.74</u>   | <u>66.8</u>          | <u>3.92 x 10<sup>2</sup></u> | <u>CAMEL</u> |                 |
| <u>11:03</u> | <u>7.5</u>       | <u>8.65</u>   | <u>66.5</u>          | <u>3.83 x 10<sup>2</sup></u> | <u>CAMEL</u> |                 |
| <u>11:14</u> | <u>10.25</u>     | <u>8.62</u>   | <u>66.4</u>          | <u>3.73 x 10<sup>2</sup></u> | <u>CAMEL</u> |                 |
|              |                  |               |                      |                              |              |                 |
|              |                  |               |                      |                              |              |                 |

Odor? NONE

Actual Purge Vol. (gal.): 10.25

PURGE METHOD:

- Bailer (Teflon)
- Bailer (PVC)
- Well Wizard
- Dedicated Bailer
- Other

SAMPLE METHOD:

- Bailer (Teflon)
- Bailer (PVC)
- Dedicated Bailer
- Other

REMARKS: WS-46-SL sampled @ 1130 on 11-13-91.

# WATER DATA SHEET

PROJECT NO.: 297

SAMPLE ID.: WS - 47 - SL

LOCATION: 16304 Foothill Blvd, San Leandro DATE: 11.13.91

STATION NO.: 9.8139

WELL/SAMPLE

SAMPLER: DAL/CS

POINT DESIGNATION: mw-1

SAMPLING       DEVELOPING       BAILING FLOATING PRODUCT

Casing Diameter:      Screened Int. (ft.): 25-30      Calc. Casing Vol. (gal.): 2.0

(2" = .17) (3" = .38) (4" = .66) (6" = 1.5)

2 inch       Initial DTW (ft.): 15.80 @ 0950      Calc. Purge Vol. (gal.): 8.02

3 inch \_\_\_\_\_      Initial TD (ft.): 27.59      Final DTW (ft.): 17.15 @ 12:14

4 inch \_\_\_\_\_      Water Column Height (ft.): 11.79      Final TD (ft.): 27.53

6 inch \_\_\_\_\_      Casing Elev. (ft.): 127.09      Product Bailed (gal.): ∅

other \_\_\_\_\_      TD (Actual) (ft.): 30      80 % Recovery (ft.): 18.16

## FIELD MEASUREMENTS

| TIME | VOLUME (gal.) | pH (units) | TEMP. (degrees F) | E.C. (umhos/cm)        | COLOR         | DTW (if dry) |
|------|---------------|------------|-------------------|------------------------|---------------|--------------|
| 1000 | 2             | 11.03      | 68.4              | 7.10 x 10 <sup>2</sup> | 17. PEWTER    |              |
| 1007 | 3             | 12.12      | 67.3              | 8.13 x 10 <sup>2</sup> | PEWTER/CRANKY | 26.69        |
| 1104 | -             | -          | -                 | -                      | -             | 20.60        |
| 1138 | -             | -          | -                 | -                      | -             | 18.56        |
| 1216 | -             | -          | -                 | -                      | -             | 17.15        |

Odor? NONE

Actual Purge Vol. (gal.): 3

PURGE METHOD:  
 Bailor (Teflon)  
 Bailor (PVC)  
 Well Wizard  
 Dedicated Bailor  
 Other

SAMPLE METHOD:  
 Bailor (Teflon)  
 Bailor (PVC)  
 Dedicated Bailor  
 Other

REMARKS: WS. 47. SL Sampled @ 1225 on 11.13.91.



# WATER DATA SHEET

PROJECT NO.: 297 SAMPLE ID.: WS - 48 - SL  
 LOCATION: 16304 Foothill Blvd., SAN LEANDRO DATE: 11.13.91  
 STATION NO.: 9.8139 WELL/SAMPLE  
 SAMPLER: DALICS POINT DESIGNATION: mw-7

SAMPLING       DEVELOPING       BAILING FLOATING PRODUCT

Casing Diameter:      Screened Int. (ft.): 21.5-26.5      Calc. Casing Vol. (gal.): 0.69  
(2" = .17) (3" = .38) (4" = .66) (6" = 1.5)  
 2 inch X      Initial DTW (ft.): 21.84 @ 1235      Calc. Purge Vol. (gal.): 2.77  
 3 inch \_\_\_\_\_  
 4 inch \_\_\_\_\_  
 6 inch \_\_\_\_\_  
 other \_\_\_\_\_  
 Casing Elev. (ft.): 126.86      Water Column Height (ft.): 4.08      Final DTW (ft.): 24.72 @ 1318  
 Final TD (ft.): 25.90  
 TD (Actual) (ft.): \_\_\_\_\_      80 % Recovery (ft.): 22.35      Product Bailed (gal.): Ø

## FIELD MEASUREMENTS

| TIME        | VOLUME<br>(gal.) | pH<br>(units) | TEMP.<br>(degrees F) | E.C.<br>(umhos/cm)           | COLOR           | DTW<br>(if dry) |
|-------------|------------------|---------------|----------------------|------------------------------|-----------------|-----------------|
| <u>1252</u> | <u>.75</u>       | <u>8.05</u>   | <u>70.7</u>          | <u>3.44 x 10<sup>2</sup></u> | <u>H. CAMEL</u> | _____           |
| <u>1301</u> | <u>1.50</u>      | <u>8.05</u>   | <u>70.1</u>          | <u>3.32 x 10<sup>2</sup></u> | <u>CAMEL</u>    | _____           |
| <u>1308</u> | <u>2.25</u>      | <u>8.02</u>   | <u>69.1</u>          | <u>3.26 x 10<sup>2</sup></u> | <u>CAMEL</u>    | _____           |
| <u>1314</u> | <u>3.00</u>      | <u>8.02</u>   | <u>69.0</u>          | <u>3.27 x 10<sup>2</sup></u> | <u>CAMEL</u>    | _____           |
| _____       | _____            | _____         | _____                | _____                        | _____           | _____           |
| _____       | _____            | _____         | _____                | _____                        | _____           | _____           |

Odor? NONE

Actual Purge Vol. (gal.): 3

**PURGE METHOD:**

- Bailor (Teflon)
- Bailor (PVC)
- Well Wizard
- Dedicated Bailor
- Other \_\_\_\_\_

**SAMPLE METHOD:**

- Bailor (Teflon)
- Bailor (PVC)
- Dedicated Bailor
- Other \_\_\_\_\_

REMARKS: WS-48-SL SAMPLED @ 1330 ON 11.13.91

# WATER DATA SHEET

PROJECT NO.: 297

SAMPLE ID.: WS - 49 - SL

LOCATION: 16304 Foothill Blvd, San Leandro

DATE: 11.13.91

STATION NO.: 9.8139

WELL/SAMPLE

SAMPLER: DAL/CS

POINT DESIGNATION: MW-3

SAMPLING       DEVELOPING       BAILING FLOATING PRODUCT

Casing Diameter:

Screened Int. (ft.): 15.5-25.5

Calc. Casing Vol. (gal.): 0.969

2 inch

(2' = .17) (3' = .38) (4' = .66) (6' = 1.5)

3 inch \_\_\_\_\_

Initial DTW (ft.): 19.95 @ 1332

Calc. Purge Vol. (gal.): 3.876

4 inch \_\_\_\_\_

Initial TD (ft.): 25.65

Final DTW (ft.): 23.88 @ 1410

6 inch \_\_\_\_\_

other \_\_\_\_\_

Casing Elev. (ft.): 126.77

Water Column Height (ft.): 5.70

Final TD (ft.): 25.68

TD (Actual) (ft.): 25.5

80 % Recovery (ft.): 21.09

Product Bailed (gal.): Ø

## FIELD MEASUREMENTS

| TIME        | VOLUME<br>(gal.) | pH<br>(units) | TEMP.<br>(degrees F) | E.C.<br>(umhos/cm)           | COLOR                 | DTW<br>(if dry) |
|-------------|------------------|---------------|----------------------|------------------------------|-----------------------|-----------------|
| <u>1342</u> | <u>1</u>         | <u>7.78</u>   | <u>70.9</u>          | <u>3.78 x 10<sup>2</sup></u> | <u>GR. / CHARCOAL</u> | _____           |
| <u>1353</u> | <u>2</u>         | <u>7.68</u>   | <u>68.4</u>          | <u>3.60 x 10<sup>2</sup></u> | <u>" "</u>            | _____           |
| <u>1401</u> | <u>3</u>         | <u>7.80</u>   | <u>68.3</u>          | <u>3.56 x 10<sup>2</sup></u> | <u>" "</u>            | _____           |
| <u>1409</u> | <u>4</u>         | <u>7.84</u>   | <u>67.5</u>          | <u>3.45 x 10<sup>2</sup></u> | <u>GR. / CHARCOAL</u> | _____           |
| _____       | _____            | _____         | _____                | _____                        | _____                 | _____           |
| _____       | _____            | _____         | _____                | _____                        | _____                 | _____           |

Odor? MODERATE TO STRONG

Actual Purge Vol. (gal.): 4

PURGE METHOD:

SAMPLE METHOD:

- Bailor (Teflon)
- Bailor (PVC)
- Well Wizard
- Dedicated Bailor
- Other \_\_\_\_\_

- Bailor (Teflon)
- Bailor (PVC)
- Dedicated Bailor
- Other \_\_\_\_\_

REMARKS: WS. 49. SL SAMPLED @ 1425 ON 11.13.91

WATER DATA SHEET

WS-51-SL (duplicate)

PROJECT NO.: 297

SAMPLE ID.: WS-50-SL

LOCATION: 16304 Foothill Blvd, San Leandro DATE: 11-14-91

STATION NO.: 9-8139

WELL/SAMPLE

SAMPLER: DAL/CS

POINT DESIGNATION: MW-6

SAMPLING     DEVELOPING     BAILING FLOATING PRODUCT

Casing Diameter:    Screened Int. (ft.): 24.6-29.6    Calc. Casing Vol. (gal.): 2.11  
 2 inch X    (2' = .17) (3' = .38) (4' = .66) (6' = 1.5)  
 3 inch \_\_\_\_\_    Initial DTW (ft.): 16.52 @ 0817    Calc. Purge Vol. (gal.): 8.47  
 4 inch \_\_\_\_\_    Initial TD (ft.): 28.99    Final DTW (ft.): 21.00 @ 0917  
 6 inch \_\_\_\_\_    other \_\_\_\_\_    Final TD (ft.): 28.90  
 Casing Elev. (ft.): 124.18    Water Column Height (ft.): 12.47  
 TD (Actual) (ft.): 29.2    80 % Recovery (ft.): 26.09    Product Bailed (gal.): 8.5

FIELD MEASUREMENTS

| TIME        | VOLUME (gal.) | pH (units)  | TEMP. (degrees F) | E.C. (umhos/cm)              | COLOR        | DTW (if dry) |
|-------------|---------------|-------------|-------------------|------------------------------|--------------|--------------|
| <u>0859</u> | <u>2</u>      | <u>6.65</u> | <u>61.6</u>       | <u>3.02 x 10<sup>2</sup></u> | <u>CAMEL</u> | _____        |
| <u>0908</u> | <u>4</u>      | <u>6.76</u> | <u>60.1</u>       | <u>2.85 x 10<sup>2</sup></u> | <u>CAMEL</u> | _____        |
| <u>0913</u> | <u>6</u>      | <u>6.90</u> | <u>59.6</u>       | <u>2.84 x 10<sup>2</sup></u> | <u>CAMEL</u> | _____        |
| <u>0915</u> | <u>8.5</u>    | <u>7.01</u> | <u>60.8</u>       | <u>2.84 x 10<sup>2</sup></u> | <u>CAMEL</u> | _____        |
| _____       | _____         | _____       | _____             | _____                        | _____        | _____        |
| _____       | _____         | _____       | _____             | _____                        | _____        | _____        |

Odor? NONE

Actual Purge Vol. (gal.): 8.5

PURGE METHOD:    SAMPLE METHOD:

Baller (Teflon)     Baller (Teflon)  
 Baller (PVC)    \_\_\_\_\_ Baller (PVC)  
 \_\_\_\_\_ Well Wizard    \_\_\_\_\_ Dedicated Baller  
 \_\_\_\_\_ Dedicated Baller    \_\_\_\_\_ Other  
 \_\_\_\_\_ Other

REMARKS: WS-50-SL sampled @ 0925 on 11-14-91  
WS-51-SL sampled @ 0940 on 11-14-91

# WATER DATA SHEET

PROJECT NO.: 297 SAMPLE ID.: WS 52 SL  
 LOCATION: 16304 Foothill Blvd, San Leandro DATE: 11.14.91  
 STATION NO.: 9-8139 WELL/SAMPLE  
 SAMPLER: DAL/CS POINT DESIGNATION: mw-8

SAMPLING       DEVELOPING       BAILING FLOATING PRODUCT

Casing Diameter:      Screened Int. (ft.): 21.5-30.5      Calc. Casing Vol. (gal.): 2.34  
(2' = .17) (3' = .38) (4' = .66) (6' = 1.5)  
 2 inch X      Initial DTW (ft.): 16.99 @ 0956      Calc. Purge Vol. (gal.): 9.39  
 3 inch \_\_\_\_\_  
 4 inch \_\_\_\_\_  
 6 inch \_\_\_\_\_  
 other \_\_\_\_\_  
 Casing Elev. (ft.): 123.61      Water Column Height (ft.): 13.81      Final DTW (ft.): 17.01 @ 1035  
 Initial TD (ft.): 30.80      Final TD (ft.): 30.80  
 D (Actual) (ft.): 31      80 % Recovery (ft.): 19.75      Product Bailed (gal.): 0

## FIELD MEASUREMENTS

| TIME         | VOLUME (gal.) | pH (units)  | TEMP. (degrees F) | E.C. (umhos/cm)              | COLOR        | DTW (if dry) |
|--------------|---------------|-------------|-------------------|------------------------------|--------------|--------------|
| <u>10:03</u> | <u>2</u>      | <u>7.90</u> | <u>61.0</u>       | <u>3.16 x 10<sup>2</sup></u> | <u>CAMEL</u> |              |
| <u>10:07</u> | <u>4.5</u>    | <u>7.45</u> | <u>61.8</u>       | <u>3.08 x 10<sup>2</sup></u> | <u>CAMEL</u> |              |
| <u>10:22</u> | <u>7.0</u>    | <u>7.46</u> | <u>61.6</u>       | <u>3.03 x 10<sup>2</sup></u> | <u>CAMEL</u> |              |
| <u>10:31</u> | <u>9.5</u>    | <u>7.40</u> | <u>61.2</u>       | <u>3.04 x 10<sup>2</sup></u> | <u>CAMEL</u> |              |
|              |               |             |                   |                              |              |              |
|              |               |             |                   |                              |              |              |

Odor? NONE

Actual Purge Vol. (gal.): 9.5

PURGE METHOD:      SAMPLE METHOD:

Bailor (Teflon)       Bailor (Teflon)  
 Bailor (PVC)       Bailor (PVC)  
 Well Wizard       Dedicated Bailor  
 Dedicated Bailor       Other \_\_\_\_\_  
 Other \_\_\_\_\_

REMARKS: WS 52 SL SAMPLED @ 1045 ON 11.14.91.

# WATER DATA SHEET

PROJECT NO.: 297

SAMPLE ID.: WS - 53 - SL

LOCATION: 16304 Foothill Blvd, San Leandro

DATE: 11.14.91

STATION NO.: 9-8139

WELL/SAMPLE

SAMPLER: DL/CS

POINT DESIGNATION: mw-9

SAMPLING       DEVELOPING       BAILING FLOATING PRODUCT

Casing Diameter:      Screened Int. (ft.): 17-27      Calc. Casing Vol. (gal.): 15725  
= .17 (3" = .38) (4" = .66) (6" = 1.5)  
 2 inch X      Initial DTW (ft.): 17.48 @ 1059      Calc. Purge Vol. (gal.): 6.29  
 3 inch \_\_\_\_\_      Initial TD (ft.): 26.73      Final DTW (ft.): 17.48 @ 1115  
 4 inch \_\_\_\_\_      Final TD (ft.): 26.73  
 6 inch \_\_\_\_\_  
 other \_\_\_\_\_  
 Casing Elev. (ft.): 124.20      Water Column Height (ft.): 9.25      Product Bailed (gal.): 0  
 \*TD (Actual) (ft.): 27      80 % Recovery (ft.): 19.33

### FIELD MEASUREMENTS

| TIME        | VOLUME<br>(gal.) | pH<br>(units) | TEMP.<br>(degrees F) | E.C.<br>(umhos/cm)           | COLOR        | DTW<br>(if dry) |
|-------------|------------------|---------------|----------------------|------------------------------|--------------|-----------------|
| <u>1100</u> | <u>1.5</u>       | <u>7.52</u>   | <u>64.3</u>          | <u>3.15 x 10<sup>2</sup></u> | <u>CAMEL</u> | _____           |
| <u>1103</u> | <u>3.0</u>       | <u>7.31</u>   | <u>65.9</u>          | <u>3.22 x 10<sup>2</sup></u> | <u>CAMEL</u> | _____           |
| <u>1108</u> | <u>4.5</u>       | <u>7.31</u>   | <u>66.3</u>          | <u>3.26 x 10<sup>2</sup></u> | <u>CAMEL</u> | _____           |
| <u>1110</u> | <u>TD</u>        | <u>7.30</u>   | <u>66.3</u>          | <u>3.25 x 10<sup>2</sup></u> | <u>CAMEL</u> | _____           |
|             |                  |               |                      |                              |              |                 |
|             |                  |               |                      |                              |              |                 |

Odor? NONE

Actual Purge Vol. (gal.): 7.0

PURGE METHOD:  
 Bailor (Teflon)  
 Bailor (PVC)  
 Well Wizard  
 Dedicated Bailor  
 Other \_\_\_\_\_

SAMPLE METHOD:  
 Bailor (Teflon)  
 Bailor (PVC)  
 Dedicated Bailor  
 Other \_\_\_\_\_

REMARKS: WS-53 SL sampled @ 11:30 on 11.14.91

**Appendix C**

**CHAIN-OF-CUSTODY RECORDS and CERTIFIED ANALYTICAL REPORTS**



# Superior Precision Analytical, Inc.

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

## C E R T I F I C A T E   O F   A N A L Y S I S

LABORATORY NO.: 12546  
CLIENT: Burlington/Chempro  
CLIENT JOB NO.: 297

DATE RECEIVED: 11/14/91  
DATE REPORTED: 11/18/91

Page 1 of 2

| Lab Number | Customer Sample Identification | Date Sampled | Date Analyzed |
|------------|--------------------------------|--------------|---------------|
| 12546- 1   | TB-7-SL                        | 11/13/91     | 11/15/91      |
| 12546- 2   | RS-7-SL                        | 11/13/91     | 11/15/91      |
| 12546- 3   | WS-46-SL                       | 11/13/91     | 11/15/91      |
| 12546- 4   | WS-47-SL                       | 11/13/91     | 11/15/91      |
| 12546- 5   | WS-48-SL                       | 11/13/91     | 11/15/91      |
| 12546- 6   | WS-49-SL                       | 11/13/91     | 11/15/91      |
| 12546- 7   | WS-50-SL                       | 11/14/91     | 11/15/91      |
| 12546- 8   | WS-51-SL                       | 11/14/91     | 11/15/91      |
| 12546- 9   | WS-52-SL                       | 11/14/91     | 11/15/91      |
| 12546-10   | WS-53-SL                       | 11/14/91     | 11/15/91      |

|                    |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|
| Laboratory Number: | 12546<br>1 | 12546<br>2 | 12546<br>3 | 12546<br>4 | 12546<br>5 |
|--------------------|------------|------------|------------|------------|------------|

| ANALYTE LIST        | Amounts/Quantitation Limits (ug/L) |        |        |        |        |
|---------------------|------------------------------------|--------|--------|--------|--------|
| OIL AND GREASE:     | NA                                 | NA     | NA     | NA     | NA     |
| TPH/GASOLINE RANGE: | ND<50                              | ND<50  | 58     | ND<50  | ND<50  |
| TPH/DIESEL RANGE:   | NA                                 | NA     | NA     | NA     | NA     |
| BENZENE:            | ND<0.5                             | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| TOLUENE:            | ND<0.5                             | ND<0.5 | 0.5    | ND<0.5 | ND<0.5 |
| ETHYL BENZENE:      | ND<0.5                             | ND<0.5 | 0.7    | ND<0.5 | ND<0.5 |
| XYLENES:            | ND<0.5                             | ND<0.5 | 2.3    | ND<0.5 | ND<0.5 |

|                    |            |            |            |            |             |
|--------------------|------------|------------|------------|------------|-------------|
| Laboratory Number: | 12546<br>6 | 12546<br>7 | 12546<br>8 | 12546<br>9 | 12546<br>10 |
|--------------------|------------|------------|------------|------------|-------------|

| ANALYTE LIST        | Amounts/Quantitation Limits (ug/L) |        |        |        |       |
|---------------------|------------------------------------|--------|--------|--------|-------|
| OIL AND GREASE:     | NA                                 | NA     | NA     | NA     | NA    |
| TPH/GASOLINE RANGE: | 18000                              | ND<50  | ND<50  | ND<50  | 11000 |
| TPH/DIESEL RANGE:   | NA                                 | NA     | NA     | NA     | NA    |
| BENZENE:            | 2400                               | ND<0.5 | ND<0.5 | ND<0.5 | 130   |
| TOLUENE:            | 1200                               | ND<0.5 | 0.6    | ND<0.5 | 58    |
| ETHYL BENZENE:      | 450                                | ND<0.5 | ND<0.5 | ND<0.5 | 86    |
| XYLENES:            | 2200                               | ND<0.5 | 1.1    | ND<0.5 | 1500  |



# Superior Precision Analytical, Inc.

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

## C E R T I F I C A T E   O F   A N A L Y S I S

### ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2  
QA/QC INFORMATION  
SET: 12546

NA = ANALYSIS NOT REQUESTED  
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT  
ug/l = part per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 503E:  
Minimum Detection Limit in Water: 5000ug/L

Modified EPA-SW846 Method 8015 for Extractable Hydrocarbons:  
Minimum Quantitation Limit for Diesel in Water: 50ug/l  
Standard Reference: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:  
Minimum Quantitation Limit for Gasoline in Water: 50ug/l  
Standard Reference: 07/23/91

SW-846 Method 8020/BTXE  
Minimum Quantitation Limit in Water: 0.5ug/l  
Standard Reference: 06/13/91

| ANALYTE       | REFERENCE | SPIKE LEVEL | MS/MSD RECOVERY | RPD  | CONTROL LIMIT |
|---------------|-----------|-------------|-----------------|------|---------------|
| Oil & Grease  | NA        | NA          | NA              | NA   | NA            |
| Diesel        | NA        | NA          | NA              | NA   | NA            |
| Gasoline      | 07/23/91  | 200ng       | 68/76           | 11.4 | 59-121        |
| Benzene       | 06/13/91  | 200ng       | 82/82           | 0.4  | 70-125        |
| Toluene       | 06/13/91  | 200ng       | 84/85           | 1.2  | 74-116        |
| Ethyl Benzene | 06/13/91  | 200ng       | 78/78           | 0.2  | 75-120        |
| Total Xylene  | 06/13/91  | 600ng       | 89/88           | 1.2  | 75-119        |

Richard Srna, Ph.D.

*Cecilia G. Joaquin (for)*  
Laboratory Director



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

Chevron Facility Number 9-8139  
Facility Address 16304 Foothill Blvd., San Leandro  
Consultant Project Number 297  
Consultant Name Chempro  
Address 950-B Gilman St., Berkeley, Ca.  
Project Contact (Name) F. Rein  
(Phone) 524-9872 (Fax Number) 524-7439

Chevron Contact (Name) W. Posluseny  
(Phone) 842-9527  
Laboratory Name Speed  
Laboratory Release Number 4758680  
Samples Collected by (Name) D.A. Lamb / C. Sayre  
Collection Date 11-13 - 11-14-91  
Signature [Signature]

| Sample Number | Lab Sample Number | Number of Containers | Matrix<br>S = Soil<br>W = Water<br>C = Charcoal | Type<br>G = Grab<br>C = Composite<br>D = Discrete | Time | Sample Preservation | Iced (Yes or No) | Analyses To Be Performed        |                      |                          |                                 |                               |                              |                                |                                              |  |  | 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) |  |  |          |
| TB-7-SL       | 1                 | 1                    | W                                               | G                                                 | 0700 | HCL                 | Y                | X                               |                      |                          |                                 |                               |                              |                                |                                              |  |  | 11-13-91 |
| RS-7-SL       | 2                 | 3                    | W                                               | G                                                 | 0910 | HCL                 | Y                | X                               |                      |                          |                                 |                               |                              |                                |                                              |  |  | 11-13-91 |
| WS-46-SL      | 3                 | 3                    | W                                               | G                                                 | 1130 | HCL                 | Y                | X                               |                      |                          |                                 |                               |                              |                                |                                              |  |  | 11-13-91 |
| WS-47-SL      | 4                 | 3                    | W                                               | G                                                 | 1225 | HCL                 | Y                | X                               |                      |                          |                                 |                               |                              |                                |                                              |  |  | 11-13-91 |
| WS-48-SL      | 5                 | 3                    | W                                               | G                                                 | 1330 | HCL                 | Y                | X                               |                      |                          |                                 |                               |                              |                                |                                              |  |  | 11-13-91 |
| WS-49-SL      | 6                 | 3                    | W                                               | G                                                 | 1425 | HCL                 | Y                | X                               |                      |                          |                                 |                               |                              |                                |                                              |  |  | 11-13-91 |
| WS-50-SL      | 7                 | 3                    | W                                               | G                                                 | 0925 | HCL                 | Y                | X                               |                      |                          |                                 |                               |                              |                                |                                              |  |  | 11-14-91 |
| WS-51-SL      | 8                 | 3                    | W                                               | G                                                 | 0940 | HCL                 | Y                | X                               |                      |                          |                                 |                               |                              |                                |                                              |  |  | 11-14-91 |
| WS-52-SL      | 9                 | 3                    | W                                               | G                                                 | 1045 | HCL                 | Y                | X                               |                      |                          |                                 |                               |                              |                                |                                              |  |  | 11-14-91 |
| WS-53-SL      | 10                | 3                    | W                                               | G                                                 | 1130 | HCL                 | Y                | X                               |                      |                          |                                 |                               |                              |                                |                                              |  |  | 11-14-91 |

Please initial: DMW  
 Samples Stored in ice. yes  
 Appropriate containers. yes  
 Samples preserved. yes  
 VOA's without headspace. yes  
 Comments: ok

|                                                   |                                   |                                    |                                                              |                                   |                                    |                                                                                                     |
|---------------------------------------------------|-----------------------------------|------------------------------------|--------------------------------------------------------------|-----------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------|
| Relinquished By (Signature)<br><u>[Signature]</u> | Organization<br><u>Chempro</u>    | Date/Time<br><u>11/13/91 1330</u>  | Received By (Signature)<br><u>[Signature]</u>                | Organization<br><u>Express-IT</u> | Date/Time<br><u>11/14/91/1330</u>  | Turn Around Time (Circle Choice)<br>24 Hrs.<br>48 Hrs.<br>5 Days<br><u>10 Days</u><br>As Contracted |
| Relinquished By (Signature)<br><u>[Signature]</u> | Organization<br><u>Express-IT</u> | Date/Time<br><u>11/14/91/1403</u>  | Received By (Signature)                                      | Organization                      | Date/Time                          |                                                                                                     |
| Relinquished By (Signature)<br><u>[Signature]</u> | Organization<br><u>Express-IT</u> | Date/Time<br><u>11-14-91 14:10</u> | Received For Laboratory By (Signature)<br><u>[Signature]</u> |                                   | Date/Time<br><u>11/14/91 14:10</u> |                                                                                                     |