



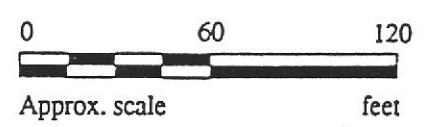


LEGEND


-  Monitoring well
-  () Ground water elevation in feet above Mean Sea Level
-  Direction of ground water flow
-  Contours of ground water elevation

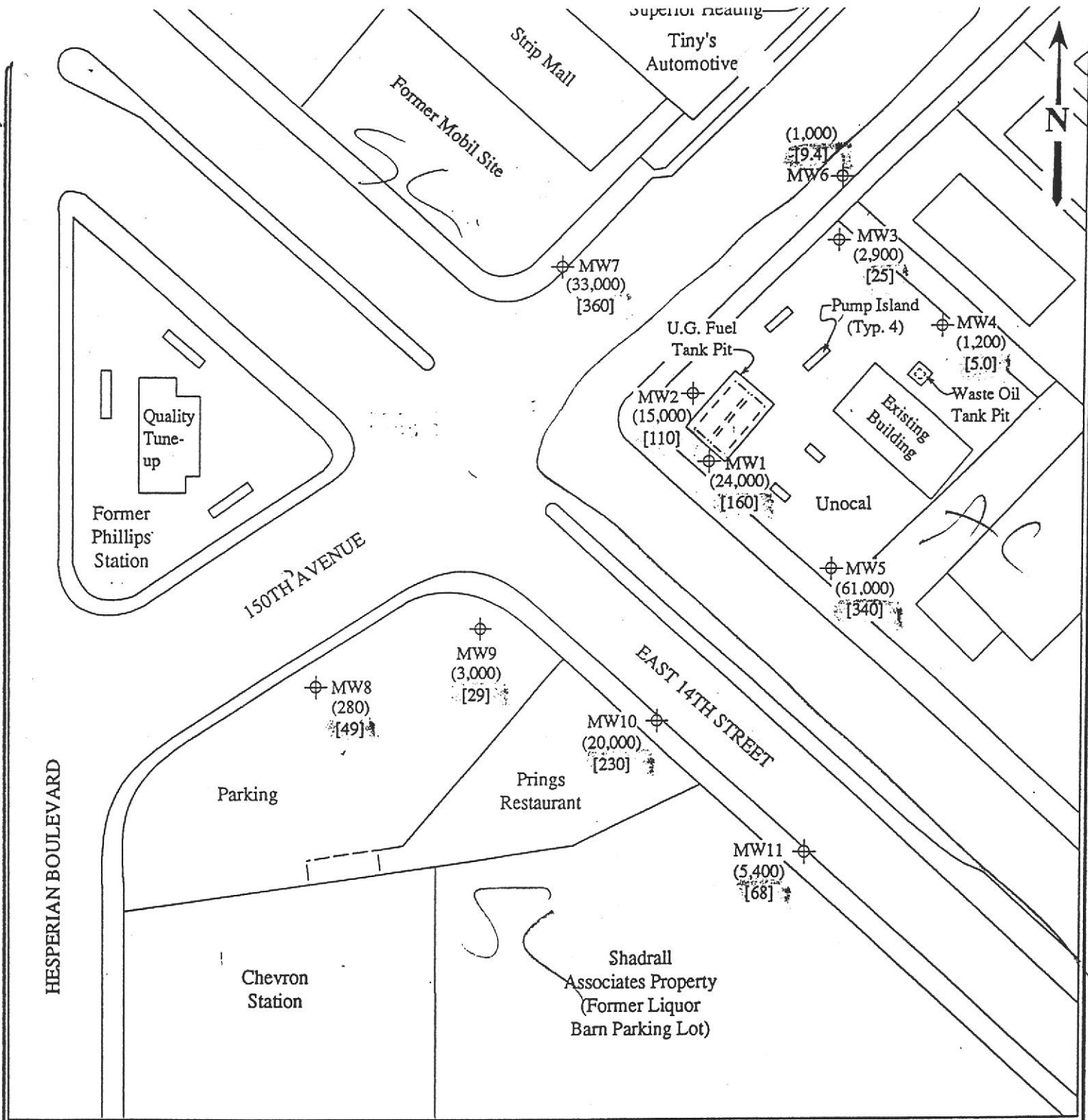


POTENTIOMETRIC SURFACE MAP FOR FEBRUARY 20, 1993 MONITORING EVENT


**KAPREALIAN ENGINEERING
 INCORPORATED**

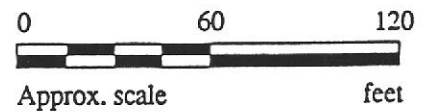
**UNOCAL SERVICE STATION #3292
 15008 E. 14TH STREET
 SAN LEANDRO, CA**

FIGURE




LEGEND

- ⊕ Monitoring well
- () Concentration of TPH as gasoline in ppb
- [] Concentration of benzene in ppb

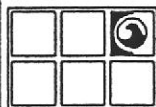
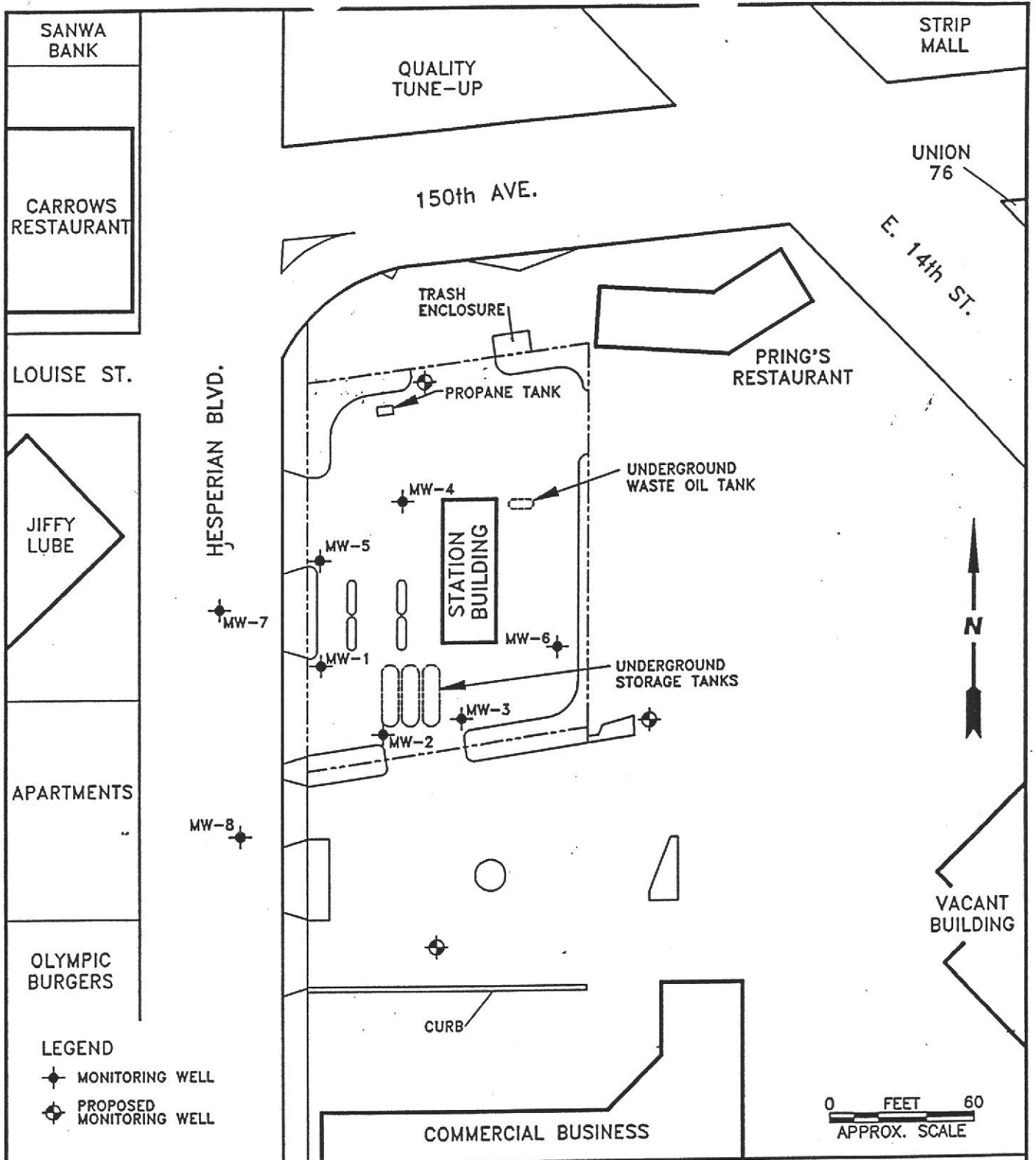


PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON AUGUST 23, 1993



**UNOCAL SERVICE STATION #3292
15008 E. 14TH STREET
SAN LEANDRO, CA**

**FIGURE
4**



GROUNDWATER TECHNOLOGY

4057 PORT CHICAGO HWY.
CONCORD, CA 94520
(510) 671-2387

PROPOSED MONITORING WELL LOCATION MAP

CLIENT: CHEVRON U.S.A. PRODUCTS CO.
SERVICE STATION No. 9-2013

LOCATION: 15002 HESPERIAN BLVD.
SAN LEANDRO, CALIFORNIA

REV. NO.: 0

DATE: 9/24/93

PM ▾

PE/RG

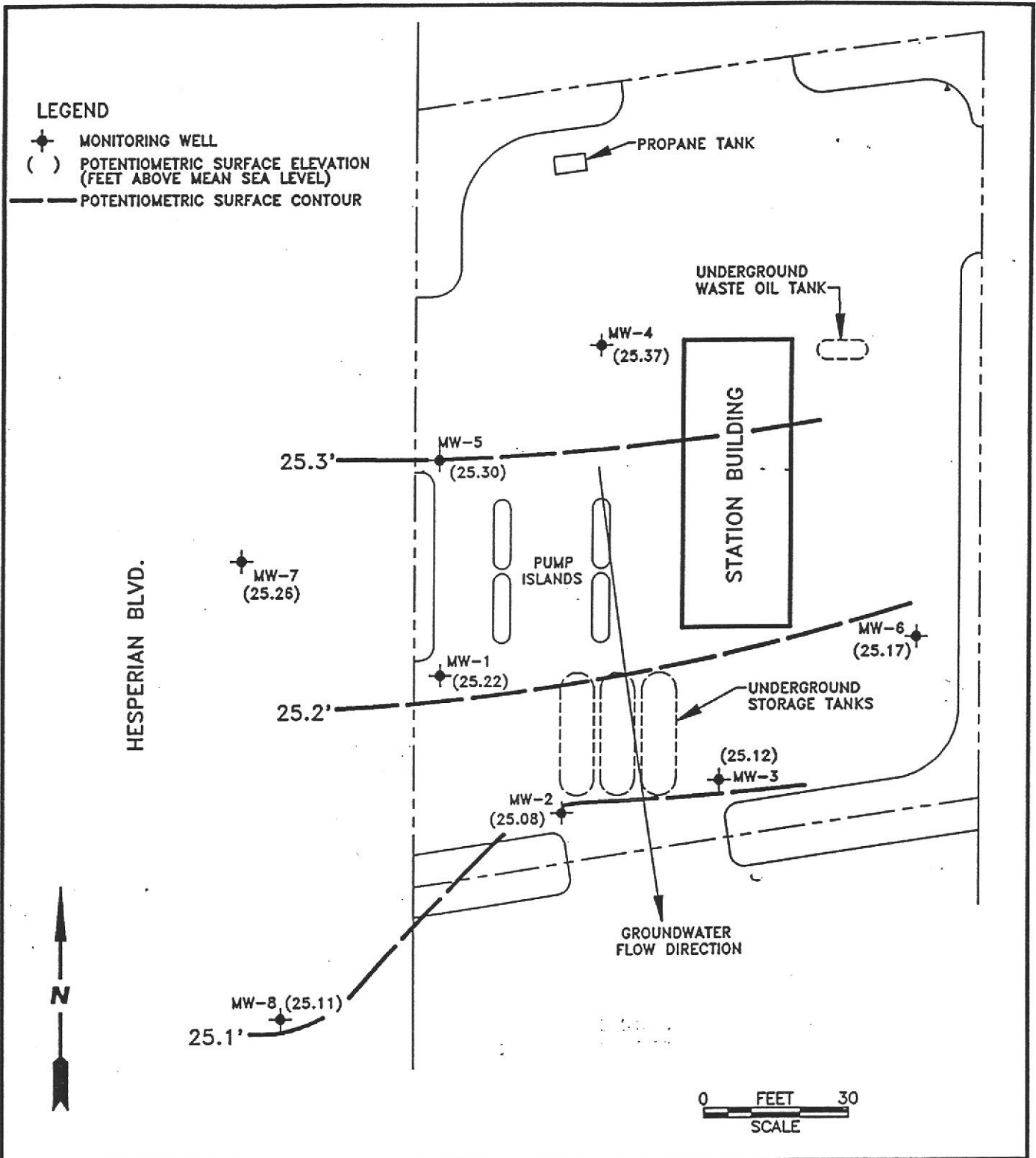
DESIGNED
CH

DETAILED
ML

ACAD FILE:
PWELLLOC/SP993

PROJECT NO.:
020204468

FIGURE:
2



| | | | | | | | |
|---|---------------------|--|--|--|----------------------------------|-------------------------|--|
| | | GROUNDWATER TECHNOLOGY 4057 PORT CHICAGO HWY. CONCORD, CA 94520 (510) 671-2387 | | POTENTIOMETRIC SURFACE MAP (7/1/93) | | | |
| CLIENT: CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION No. 9-2013 | | | LOCATION: 15002 HESPERIAN BLVD. SAN LEANDRO, CALIFORNIA | | REV. NO.: 0 | DATE: 8/30/93 | |
| PM <i>JAW</i> | PE/RG ORK | DESIGNED SCH | DETAILED ML | ACAD FILE: PSM7193/SP693 | PROJECT NO.: 020204115 | FIGURE: 1 | |

KEI-P91-0102.QR7
September 22, 1993

TABLE 2
SUMMARY OF LABORATORY ANALYSES
WATER

| <u>Date</u> | <u>Sample Well #</u> | <u>TPH as Gasoline</u> | <u>Benzene</u> | <u>Toluene</u> | <u>Ethylbenzene</u> | <u>Xylenes</u> |
|-------------|----------------------|------------------------|----------------|----------------|---------------------|----------------|
| 8/23/93 | MW1 | 24,000 | 160 | 110 | 840 | 810 |
| | MW2 | 15,000 | 110 | ND | 590 | 64 |
| | MW3 | 2,900 | 25 | ND | 50 | 18 |
| | MW4 | 1,200 | 5.0 | ND | 16 | ND |
| | MW5 | 61,000 | 340 | 380 | 3,600 | 14,000 |
| | MW6 | 1,000 | 9.4 | 2.3 | 5.0 | 2.3 |
| | MW7 | 33,000 | 360 | ND | 2,500 | 4,300 |
| | MW8 | 280* | 49 | 4.5 | ND | ND |
| | MW9 | 3,000 | 29 | ND | ND | ND |
| | MW10 | 20,000 | 230 | 13 | 3,200 | 140 |
| | MW11 | 5,400 | 68 | ND | 230 | 43 |
| 5/21/93 | MW1 | 27,000 | 150 | 200 | 1,200 | 950 |
| | MW2 | 9,500 | 37 | ND | 470 | 62 |
| | MW3 | 2,600 | 42 | ND | 43 | 15 |
| | MW4 | 1,900 | 31 | ND | 20 | 4.5 |
| | MW5 | 55,000 | ND | 160 | 3,500 | 12,000 |
| | MW6 | 940 | 18 | 1.0 | 7.1 | 2.7 |
| | MW7 | 22,000 | 330 | 37 | 2,100 | 2,900 |
| | MW8 | 2,500 | 44 | ND | ND | ND |
| | MW9 | 3,200 | 32 | ND | 8.1 | ND |
| | MW10 | 23,000 | 250 | ND | 3,000 | 240 |
| | MW11 | 7,100 | 64 | ND | 340 | 120 |
| 2/20/93 | MW1 | 19,000 | 190 | ND | 880 | 620 |
| | MW2 | 1,500 | 2.9 | 3.8 | 9.1 | ND |
| | MW3 | 1,600 | 12 | 18 | 8.9 | 12 |
| | MW4 | 2,400 | 40 | 2.1 | 33 | ND |
| | MW5 | 17,000 | 75 | ND | 1,000 | 620 |
| | MW6 | 2,400 | 43 | ND | 33 | 2.0 |
| | MW7 | 1,800 | 37 | 4.6 | 11 | 7.7 |
| | MW8 | 2,200 | 32 | ND | 42 | 5.0 |
| | MW9 | 2,300 | 47 | ND | 32 | ND |
| | MW10 | 17,000 | 74 | ND | 1,000 | 620 |
| | MW11 | 18,000 | 76 | ND | 1,000 | 630 |

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-2013
15002 Hesperian Boulevard, San Leandro, California

| Well/ID Elev | Date | TPH-G | Benzene | Toluene | Ethyl- benzene | Xylenes | EDC | EDB | DTW (ft) | SPT (ft) | WTE (ft) |
|-----------------|----------|--------|---------|---------|-------------------|---------|------|------|-------------|-------------|-------------|
| MW-4 | 12/08/87 | — | — | — | — | — | — | — | 11.72 | — | 24.33 |
| | 05/23/88 | — | — | — | — | — | — | — | 11.61 | — | 24.44 |
| 36.05 | 06/08/88 | <1,000 | <0.5 | 31 | 1.0 | 1.1 | — | — | 11.94 | — | 24.11 |
| | 08/05/88 | — | — | — | — | — | — | — | 12.80 | — | 23.25 |
| | 09/08/88 | 1,300 | <0.1 | <1 | <1 | <1 | <0.1 | <0.1 | 13.19 | — | 22.86 |
| | 12/06/88 | 100 | <1 | <1 | <1 | <1 | <1 | <1 | 13.31 | — | 22.74 |
| | 03/14/89 | <500 | <0.5 | <0.5 | <0.5 | <0.5 | — | — | 11.88 | — | 24.17 |
| | 06/13/89 | <500 | <0.5 | <0.5 | <0.5 | <0.5 | — | — | 12.19 | — | 23.86 |
| | 09/13/89 | <500 | <0.5 | <0.5 | <0.5 | <0.5 | — | — | 13.49 | — | 22.56 |
| | 12/13/89 | 140 | <0.3 | <0.3 | <0.3 | <0.6 | — | — | 13.33 | — | 22.72 |
| | 03/13/90 | 210 | <0.3 | <0.3 | <0.3 | <0.6 | — | — | 11.49 | — | 24.56 |
| | 10/11/90 | 370 | <0.5 | 2.8 | 1.9 | 3.9 | — | — | 13.93 | — | 22.12 |
| | 04/05/91 | 790 | <0.5 | 1.6 | 1.6 | 2.3 | — | — | 11.42 | — | 24.63 |
| | 10/30/91 | **510 | <0.5 | 0.5 | <0.5 | <0.5 | — | — | 14.43 | — | 21.62 |
| | 04/23/92 | 880 | 6.6 | 7.0 | 5.9 | 11 | — | — | 10.93 | — | 25.12 |
| | 07/20/92 | 500 | <0.5 | 1.2 | 0.6 | 2.2 | — | — | 12.14 | — | 23.91 |
| | 10/30/92 | 750 | <0.5 | 1.4 | 6.0 | 21 | — | — | 13.45 | — | 22.60 |
| | 01/20/93 | 280 | <0.5 | <0.5 | <0.5 | <0.5 | — | — | 9.76 | — | 26.29 |
| | 04/30/93 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | — | — | 9.19 | 0.00 | 26.86 |
| | 08/06/93 | 580 | <1.0 | 12 | <1.0 | <3.0 | — | — | 10.68 | 0.00 | 25.37 |

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-2013
15002 Hesperian Boulevard, San Leandro, California

| Well/ID Elev | Date | TPH-G | Benzene | Toluene | Ethyl- benzene | Xylenes | EDC | EDB | DTW (ft) | SPT (ft) | WTE (ft) |
|-----------------|----------|--------|---------|---------|-------------------|---------|-----|------|-------------|-------------|-------------|
| MW-5 | 12/08/87 | — | — | — | — | — | — | — | 12.04 | — | 23.61 |
| | 05/23/88 | — | — | — | — | — | — | — | 11.39 | — | 24.26 |
| 35.65 | 06/08/88 | <1,000 | <0.5 | 5.0 | 2.0 | 5.5 | — | — | 11.48 | — | 24.17 |
| | 08/05/88 | — | — | — | — | — | — | — | 12.42 | — | 23.23 |
| | 09/08/88 | 340 | <0.1 | <1 | <1 | <1 | 0.2 | <0.1 | 12.79 | — | 22.86 |
| | 12/06/88 | <100 | <1 | <1 | <1 | <1 | <1 | <1 | 12.96 | — | 22.69 |
| | 03/14/89 | <500 | <0.5 | <0.5 | <0.5 | <0.5 | — | — | 11.58 | — | 24.07 |
| | 06/13/89 | <500 | <0.5 | <0.5 | <0.5 | <0.5 | — | — | 11.80 | — | 23.85 |
| | 09/13/89 | <500 | <0.5 | <0.5 | <0.5 | <0.5 | — | — | 13.11 | — | 22.54 |
| | 12/13/89 | <50 | <0.3 | <0.3 | <0.3 | <0.6 | — | — | 13.30 | — | 22.35 |
| | 03/13/90 | <50 | <0.3 | <0.3 | <0.3 | <0.6 | — | — | 12.12 | — | 23.53 |
| | 10/11/90 | <50 | <0.5 | <0.5 | <0.5 | 1.0 | — | — | 13.56 | — | 22.09 |
| | 04/05/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | — | — | 11.09 | — | 24.56 |
| | 10/30/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | — | — | 14.12 | — | 21.53 |
| | 04/23/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | — | — | 10.58 | — | 25.07 |
| | 07/20/92 | <50 | <0.5 | <0.5 | <0.5 | 0.7 | — | — | 11.78 | — | 23.87 |
| | 10/30/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | — | — | 13.08 | — | 22.57 |
| | 01/20/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | — | — | 8.44 | — | 27.21 |
| | 04/30/93 | <50 | <0.5 | 0.5 | <0.5 | <1.5 | — | — | 8.85 | 0.00 | 26.80 |
| | 08/06/93 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | — | — | 10.35 | 0.00 | 25.30 |