

March 7, 1996

LF-3018.95-20

Ms. Madhulla Logan
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94501

Subject: Quarterly Ground-Water Monitoring Report for the Period from October 1 -December 31, 1995, 5050 Coliseum Way and 750-50th Avenue, Oakland, California

Dear Ms. Logan:

This quarterly report is submitted by Levine•Fricke on behalf of Volvo GM Heavy Truck Corporation for the subject site. During this quarterly round, depth-to-water measurements were collected in all 22 monitoring wells and ground-water samples were collected from 10 wells.

If you have any questions regarding this report, please call me (510-652-4500) or Mr. Robert Whelen of Volvo GM (910-279-2544).

Sincerely,



Kathleen A. Isaacson, R.G.
Principal Hydrogeologist

Enclosure

cc: Sum Arigala, Regional Water Quality Control Board
Bob Whelen, Volvo GM Heavy Truck Corp.
Martha Boyd, Volvo GM Heavy Truck Corp.

**Quarterly Ground-Water Monitoring Report for the
Period from October 1 to December 31, 1995**

5050 Coliseum Way and 750-50th Avenue

Oakland, California

March 7, 1996

3018.95-20

Prepared for

Volvo GM Heavy Truck Corporation

7900 National Service Road

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CERTIFICATION

All hydrogeologic and geologic information, conclusions, and recommendations in this document have been prepared under the supervision of and reviewed by a Levine-Fricke California Registered Geologist.



Kathleen A. Isaacson
Principal Hydrogeologist
California Registered Geologist (5106)

3/7/96
Date

1.0 INTRODUCTION

This report presents results of quarterly ground-water monitoring activities conducted during the period from October 1 through December 31, 1995, for the properties located at 5050 Coliseum Way and 750-50th Avenue, Oakland, California (collectively referenced as "the Site"; Figure 1). This report was prepared on behalf of Volvo GM Heavy Truck Corporation ("Volvo GM") in accordance with our work plan dated January 6, 1993, and submitted to the Alameda County Health Care Services Agency (ACHCSA). This report includes graphic illustrations of potentiometric head (water-level) data and presents historical summaries of ground-water elevation and ground-water quality data collected at the Site.

2.0 WATER-LEVEL MEASUREMENTS AND GROUND-WATER FLOW DIRECTION

The top of each well casing at the Site has been surveyed relative to mean sea level by a state-licensed land surveyor. Water-level measurements were collected from all wells at the Site on December 18, 1995. A historical summary of depth-to-water measurements and ground-water elevations for the Site is presented in Table 1. Ground-water elevation contours for December 18, 1995 are presented in Figure 2.

Ground-water elevations calculated from depth-to-water measurements collected in December 1995 indicate a continued decrease in ground-water elevations at the Site since March 1995. At that time, ground-water elevations at the Site were the highest recorded since the first wells were installed in November 1991. Decreases in ground-water elevation measured in December 1995 relative to September 1995 generally ranged from 0.18 foot in well LF-7 to 0.90 foot in well LF-9. Significant decreases in ground-water elevation were noted for well LF-15 (4.93 feet) and well LF-16 (1.84 feet), located beneath the facility building. The measurement for well LF-15 appears anomalous and future measurements collected from this well will be monitored closely. Increases in ground-water elevations relative to September 1995 were noted for wells LF-5, LF-6, and LF-12, ranging from approximately 0.5 foot to 0.75 foot. Data collected from the four wells in the northwest corner of the Site (MW-1, MW-3, MW-4, and LF-17) indicate an increase of over 1 foot, ranging from 1.20 feet to 1.91 feet.

Ground-water elevation data for December 18, 1995 indicate that the ground-water flow direction was generally toward the west, which is consistent with historical ground-water flow data. Ground-water elevation data indicate a horizontal hydraulic gradient ranging from approximately 0.004 foot per foot (ft/ft; as calculated between wells LF-1 and LF-7) to 0.011 ft/ft (as calculated between wells LF-1 and LF-5).

3.2.5 Measurements of pH

Measurements of ground-water pH are shown in Figure 3. Recent monitoring results indicate that pH values for shallow ground water beneath the Site were generally consistent with historical values and indicate that pH is variable across the Site. The lowest pH (3.73) was measured in the sample from well LF-11. A pH value above 6.0 was measured for samples in 4 of the 10 wells sampled.

3.2.6 Quality Assurance/Quality Control

Analytical results for the duplicate sample collected from well LF-3 (LF-103) generally showed similar metals concentrations when compared to the primary sample collected from that well (LF-3).

Table 1
Historical Summary of Ground-Water Elevation Data
5050 Coliseum Way and 750 50th Avenue
Oakland, California

| Well Number | Top of PVC Casing Elevation (feet msl) | Date Measured | Depth to Water (feet msl) | Depth to Product (feet msl) | Product Thickness (ft) | Ground-Water Elevation (feet msl) |
|-------------|---|---------------|------------------------------|--------------------------------|---------------------------|--------------------------------------|
| LF-1 | 7.56 | 07-Nov-91 | 6.79 | | | 0.77 |
| | | 26-Oct-92 | 4.69 | | | 2.87 |
| | | 04-Mar-93 | 3.94 | | | 3.62 |
| | | 14-Apr-93 | 3.41 | | | 4.15 |
| | | 24-May-93 | 3.07 | | | 4.49 |
| | | 14-Jun-93 | 3.41 | | | 4.15 |
| | | 30-Jul-93 | 3.46 | | | 4.10 |
| | | 31-Aug-93 | 3.67 | | | 3.89 |
| | | 27-Sep-93 | 3.76 | | | 3.80 |
| | | 25-Oct-93 | 3.74 | | | 3.82 |
| | | 02-Nov-93 | 4.26 | | | 3.30 |
| | | 08-Dec-93 | 4.42 | | | 3.14 |
| | | 28-Jan-94 | 4.06 | | | 3.50 |
| | | 15-Feb-94 | 3.94 | | | 3.62 |
| | | 24-May-94 | 3.81 | | | 3.75 |
| | | 21-Sep-94 | 3.75 | | | 3.81 |
| | | 19-Dec-94 | 3.51 | | | 4.05 |
| | | 13-Mar-95 | 2.33 | | | 5.23 |
| | | 07-Jun-95 | 2.49 | | | 5.07 |
| | | 05-Sep-95 | 2.78 | | | 4.78 |
| 18-Dec-95 | 3.21 | | | 4.35 | | |
| LF-2 | 9.84 | 07-Nov-91 | 7.26 | | | 2.58 |
| | | 26-Oct-92 | 6.28 | | | 3.56 |
| | | 04-Mar-93 | 5.14 | | | 4.70 |
| | | 14-Apr-93 | 4.95 | | | 4.89 |
| | | 24-May-93 | 5.09 | | | 4.75 |
| | | 14-Jun-93 | 5.21 | | | 4.63 |
| | | 30-Jul-93 | 5.38 | | | 4.46 |
| | | 31-Aug-93 | 5.57 | | | 4.27 |
| | | 27-Sep-93 | 5.70 | | | 4.14 |
| | | 25-Oct-93 | 5.80 | | | 4.04 |
| | | 02-Nov-93 | 5.86 | | | 3.98 |
| | | 08-Dec-93 | 6.21 | | | 3.63 |
| | | 28-Jan-94 | 6.12 | | | 3.72 |
| | | 15-Feb-94 | 6.07 | | | 3.77 |
| | | 24-May-94 | 5.65 | | | 4.19 |
| | | 21-Sep-94 | 6.00 | | | 3.84 |
| | | 19-Dec-94 | 5.91 | | | 3.93 |
| | | 13-Mar-95 | 4.30 | | | 5.54 |
| | | 07-Jun-95 | 4.36 | | | 5.48 |
| | | 05-Sep-95 | 5.12 | | | 4.72 |
| 18-Dec-95 | 5.56 | | | 4.28 | | |
| LF-3 | 10.98 | 07-Nov-91 | 7.55 | | | 3.43 |
| | | 26-Oct-92 | 7.05 | | | 3.93 |
| | | 04-Mar-93 | 5.83 | | | 5.15 |
| | | 14-Apr-93 | 5.48 | | | 5.50 |
| | | 24-May-93 | 5.61 | | | 5.37 |
| | | 14-Jun-93 | 5.75 | | | 5.23 |

Table 1
Historical Summary of Ground-Water Elevation Data
5050 Coliseum Way and 750 50th Avenue
Oakland, California

| Well Number | Top of PVC Casing Elevation (feet msl) | Date Measured | Depth to Water (feet msl) | Depth to Product (feet msl) | Product Thickness (ft) | Ground-Water Elevation (feet msl) |
|-------------|---|---------------|------------------------------|--------------------------------|---------------------------|--------------------------------------|
| | | 30-Jul-93 | 5.96 | | | 5.02 |
| | | 31-Aug-93 | 6.18 | | | 4.80 |
| | | 27-Sep-93 | 6.33 | | | 4.65 |
| | | 25-Oct-93 | 6.46 | | | 4.52 |
| | | 02-Nov-93 | 6.62 | | | 4.36 |
| | | 08-Dec-93 | 6.71 | | | 4.27 |
| | | 28-Jan-94 | 6.72 | | | 4.26 |
| | | 15-Feb-94 | 6.50 | | | 4.48 |
| | | 24-May-94 | 6.15 | | | 4.83 |
| | | 21-Sep-94 | 6.56 | | | 4.42 |
| | | 19-Dec-94 | 6.06 | | | 4.92 |
| | | 13-Mar-95 | 4.85 | | | 6.13 |
| | | 07-Jun-95 | 4.58 | | | 6.40 |
| | | 05-Sep-95 | 5.38 | | | 5.60 |
| | | 18-Dec-95 | 5.75 | | | 5.23 |
| LF-4 | 10.36 | 07-Nov-91 | 11.63 | | | -1.27 |
| | | 26-Oct-92 | 7.31 | | | 3.05 |
| | | 04-Mar-93 | 5.58 | | | 4.78 |
| | | 14-Apr-93 | 5.21 | | | 5.15 |
| | | 24-May-93 | 5.48 | | | 4.88 |
| | | 14-Jun-93 | 5.63 | | | 4.73 |
| | | 30-Jul-93 | 5.92 | | | 4.44 |
| | | 31-Aug-93 | 6.16 | | | 4.20 |
| | | 27-Sep-93 | 6.36 | | | 4.00 |
| | | 25-Oct-93 | 6.54 | | | 3.82 |
| | | 02-Nov-93 | 7.00 | | | 3.36 |
| | | 08-Dec-93 | 6.96 | | | 3.40 |
| | | 28-Jan-94 | 7.04 | | | 3.32 |
| | | 15-Feb-94 | 6.84 | | | 3.52 |
| | | 24-May-94 | 5.99 | | | 4.37 |
| | | 21-Sep-94 | 6.62 | | | 3.74 |
| | | 19-Dec-94 | 6.75 | | | 3.61 |
| | | 13-Mar-95 | 5.67 | | | 4.69 |
| | | 07-Jun-95 | 4.48 | | | 5.88 |
| | | 05-Sep-95 | 5.38 | | | 4.98 |
| | | 18-Dec-95 | 5.96 | | | 4.40 |
| LF-5 | 8.03 | 07-Nov-91 | 7.34 | | | 0.69 |
| | | 26-Oct-92 | 7.05 | | | 0.98 |
| | | 04-Mar-93 | 6.05 | | | 1.98 |
| | | 14-Apr-93 | 6.25 | | | 1.78 |
| | | 24-May-93 | 6.61 | | | 1.42 |
| | | 14-Jun-93 | 6.97 | | | 1.06 |
| | | 30-Jul-93 | 6.72 | | | 1.31 |
| | | 31-Aug-93 | 6.84 | | | 1.19 |
| | | 27-Sep-93 | 7.10 | | | 0.93 |
| | | 25-Oct-93 | 7.11 | | | 0.92 |
| | | 02-Nov-93 | 7.04 | | | 0.99 |
| | | 08-Dec-93 | 7.27 | | | 0.76 |

Table 1
Historical Summary of Ground-Water Elevation Data
5050 Coliseum Way and 750 50th Avenue
Oakland, California

| Well Number | Top of PVC Casing Elevation (feet msl) | Date Measured | Depth to Water (feet msl) | Depth to Product (feet msl) | Product Thickness (ft) | Ground-Water Elevation (feet msl) |
|-------------|---|---------------|------------------------------|--------------------------------|---------------------------|--------------------------------------|
| | | 28-Jan-94 | 6.82 | | | 1.21 |
| | | 15-Feb-94 | 6.85 | | | 1.18 |
| | | 24-May-94 | 6.76 | | | 1.27 |
| | | 21-Sep-94 | 7.05 | | | 0.98 |
| | | 19-Dec-94 | 6.48 | | | 1.55 |
| | | 13-Mar-95 | 5.25 | | | 2.78 |
| | | 07-Jun-95 | 5.98 | | | 2.05 |
| | | 05-Sep-95 | 6.42 | | | 1.61 |
| | | 18-Dec-95 | 5.87 | | | 2.16 |
| LF-6 | 11.59 | 07-Nov-91 | 8.59 | | | 3.00 |
| | | 26-Oct-92 | 8.82 | | | 2.77 |
| | | 04-Mar-93 | 5.79 | | | 5.80 |
| | | 14-Apr-93 | 5.41 | | | 6.18 |
| | | 24-May-93 | 6.05 | | | 5.54 |
| | | 14-Jun-93 | 6.29 | | | 5.30 |
| | | 30-Jul-93 | 6.83 | | | 4.76 |
| | | 31-Aug-93 | 7.27 | | | 4.32 |
| | | 27-Sep-93 | 7.61 | | | 3.98 |
| | | 25-Oct-93 | 7.79 | | | 3.80 |
| | | 02-Nov-93 | 8.07 | | | 3.52 |
| | | 08-Dec-93 | 7.34 | | | 4.25 |
| | | 28-Jan-94 | 6.37 | | | 5.22 |
| | | 15-Feb-94 | 5.98 | | | 5.61 |
| | | 24-May-94 | 6.14 | | | 5.45 |
| | | 21-Sep-94 | 7.39 | | | 4.20 |
| | | 19-Dec-94 | 6.12 | | | 5.47 |
| | | 13-Mar-95 | 4.98 | | | 6.61 |
| | | 07-Jun-95 | 5.03 | | | 6.56 |
| | | 05-Sep-95 | 6.23 | | | 5.36 |
| | | 18-Dec-95 | 5.71 | | | 5.88 |
| LF-7 | 10.65 | 07-Nov-91 | 8.54 | | | 2.11 |
| | | 26-Oct-92 | 7.98 | | | 2.67 |
| | | 04-Mar-93 | 4.92 | | | 5.73 |
| | | 14-Apr-93 | 4.80 | | | 5.85 |
| | | 24-May-93 | 5.03 | | | 5.62 |
| | | 14-Jun-93 | 5.18 | | | 5.47 |
| | | 30-Jul-93 | 5.51 | | | 5.14 |
| | | 31-Aug-93 | 5.82 | | | 4.83 |
| | | 27-Sep-93 | 6.14 | | | 4.51 |
| | | 25-Oct-93 | 6.39 | | | 4.26 |
| | | 02-Nov-93 | 6.60 | | | 4.05 |
| | | 08-Dec-93 | 6.74 | | | 3.91 |
| | | 28-Jan-94 | 6.03 | | | 4.62 |
| | | 15-Feb-94 | 5.59 | | | 5.06 |
| | | 24-May-94 | 5.46 | | | 5.19 |
| | | 21-Sep-94 | 6.40 | | | 4.25 |
| | | 19-Dec-94 | 5.59 | | | 5.06 |
| | | 13-Mar-95 | 4.16 | | | 6.49 |

Table 1
Historical Summary of Ground-Water Elevation Data
5050 Coliseum Way and 750 50th Avenue
Oakland, California

| Well Number | Top of PVC Casing Elevation (feet msl) | Date Measured | Depth to Water (feet msl) | Depth to Product (feet msl) | Product Thickness (ft) | Ground-Water Elevation (feet msl) |
|-------------|---|---------------|------------------------------|--------------------------------|---------------------------|--------------------------------------|
| | | 07-Jun-95 | 4.07 | | | 6.58 |
| | | 05-Sep-95 | 4.81 | | | 5.84 |
| | | 18-Dec-95 | 4.99 | | | 5.66 |
| LF-8 | 10.91 | 02-Nov-93 | 6.18 | | | 4.73 |
| | | 08-Dec-93 | 6.29 | | | 4.62 |
| | | 28-Jan-94 | 6.38 | | | 4.53 |
| | | 15-Feb-94 | 6.37 | | | 4.54 |
| | | 24-May-94 | 6.15 | | | 4.76 |
| | | 21-Sep-94 | 6.33 | | | 4.58 |
| | | 19-Dec-94 | 6.31 | | | 4.60 |
| | | 13-Mar-95 | 4.48 | | | 6.43 |
| | | 07-Jun-95 | 4.46 | | | 6.45 |
| | | 05-Sep-95 | 5.08 | | | 5.83 |
| | | 18-Dec-95 | 5.63 | | | 5.28 |
| LF-9 | 11.70 | 02-Nov-93 | 6.76 | | | 4.94 |
| | | 08-Dec-93 | 6.91 | | | 4.79 |
| | | 28-Jan-94 | 6.88 | | | 4.82 |
| | | 15-Feb-94 | 6.80 | | | 4.90 |
| | | 24-May-94 | 6.80 | | | 4.90 |
| | | 21-Sep-94 | 6.98 | | | 4.72 |
| | | 19-Dec-94 | 6.34 | | | 5.36 |
| | | 13-Mar-95 | 5.12 | | | 6.58 |
| | | 07-Jun-95 | 5.31 | | | 6.39 |
| | | 05-Sep-95 | 5.90 | | | 5.80 |
| | | 18-Dec-95 | 6.80 | | | 4.90 |
| LF-10 | 9.43 | 02-Nov-93 | 8.14 | | | 1.29 |
| | | 08-Dec-93 | 7.82 | | | 1.61 |
| | | 28-Jan-94 | NM | | | NM |
| | | 15-Feb-94 | 7.47 | | | 1.96 |
| | | 24-May-94 | 7.11 | | | 2.32 |
| | | 21-Sep-94 | 7.90 | | | 1.53 |
| | | 19-Dec-94 | 7.21 | | | 2.22 |
| | | 13-Mar-95 | 5.68 | | | 3.75 |
| | | 07-Jun-95 | 5.92 | | | 3.51 |
| | | 05-Sep-95 | 6.61 | | | 2.82 |
| | | 18-Dec-95 | 6.92 | | | 2.51 |
| LF-11 | 9.07 | 02-Nov-93 | 11.68 | | | -2.61 |
| | | 08-Dec-93 | 5.35 | | | 3.72 |
| | | 28-Jan-94 | 5.27 | | | 3.80 |
| | | 15-Feb-94 | 5.04 | | | 4.03 |
| | | 24-May-94 | 4.20 | | | 4.87 |
| | | 21-Sep-94 | 4.70 | | | 4.37 |
| | | 19-Dec-94 | 4.72 | | | 4.35 |
| | | 13-Mar-95 | 3.27 | | | 5.80 |
| | | 07-Jun-95 | 3.75 | | | 5.32 |
| | | 05-Sep-95 | 3.70 | | | 5.37 |

Table 1
Historical Summary of Ground-Water Elevation Data
5050 Coliseum Way and 750 50th Avenue
Oakland, California

| Well Number | Top of PVC Casing Elevation (feet msl) | Date Measured | Depth to Water (feet msl) | Depth to Product (feet msl) | Product Thickness (ft) | Ground-Water Elevation (feet msl) | | |
|-------------|---|---------------|------------------------------|--------------------------------|---------------------------|--------------------------------------|--|------|
| | | 18-Dec-95 | 4.20 | | | 4.87 | | |
| LF-12 | 8.70 | 02-Nov-93 | 7.87 | | | 0.83 | | |
| | | 08-Dec-93 | 7.90 | | | 0.80 | | |
| | | 28-Jan-94 | 7.46 | | | 1.24 | | |
| | | 15-Feb-94 | 7.66 | | | 1.04 | | |
| | | 21-Sep-94 | 7.80 | | | 0.90 | | |
| | | 19-Dec-94 | 7.32 | | | 1.38 | | |
| | | 13-Mar-95 | 6.00 | | | 2.70 | | |
| | | 07-Jun-95 | 7.40 | | | 1.30 | | |
| | | 05-Sep-95 | 7.45 | | | 1.25 | | |
| | | 18-Dec-95 | 6.71 | | | 1.99 | | |
| LF-13 | 9.75 | 08-Dec-93 | 5.94 | | | 3.81 (1) | | |
| | | 28-Jan-94 | 4.94 | | | 4.81 (1) | | |
| | | 15-Feb-94 | 4.84 | 4.83 | 0.01 | 4.92 (1) | | |
| | | 24-May-94 | 4.81 | 4.75 | 0.06 | 4.99 (1) | | |
| | | 21-Sep-94 | 6.32 | 5.17 | 1.15 (2) | 4.41 (1) | | |
| | | 19-Dec-94 | 4.67 | 4.57 | 0.10 | 5.17 (1) | | |
| | | 13-Mar-95 | 3.22 | 3.12 | 0.10 | 6.62 (1) | | |
| | | 07-Jun-95 | 3.32 | 3.22 | 0.10 | 6.52 (1) | | |
| | | 05-Sep-95 | 3.90 | 3.80 | 0.10 | 5.94 (1) | | |
| | | 18-Dec-95 | 4.13 | 4.03 | 0.10 | 5.70 (1) | | |
| | | LF-14 | 11.72 | 08-Dec-93 | 7.96 | | | 3.76 |
| | | | | 28-Jan-94 | 8.02 | | | 3.70 |
| 15-Feb-94 | 7.85 | | | | | 3.87 | | |
| 24-May-94 | 7.68 | | | | | 4.04 | | |
| 21-Sep-94 | 7.69 | | | | | 4.03 | | |
| 19-Dec-94 | 7.71 | | | | | 4.01 | | |
| 13-Mar-95 | 6.68 | | | | | 5.04 | | |
| 07-Jun-95 | 6.03 | | | | | 5.69 | | |
| 05-Sep-95 | 6.51 | | | | | 5.21 | | |
| 18-Dec-95 | 7.39 | | | | | 4.33 | | |
| LF-15 | 11.62 | 08-Dec-93 | 7.91 | | | 3.71 | | |
| | | 28-Jan-94 | 7.74 | | | 3.88 | | |
| | | 15-Feb-94 | 7.58 | | | 4.04 | | |
| | | 24-May-94 | 8.07 | | | 3.55 | | |
| | | 21-Sep-94 | 8.58 | | | 3.04 | | |
| | | 19-Dec-94 | NM | | | NM | | |
| | | 13-Mar-95 | 6.32 | | | 5.30 | | |
| | | 07-Jun-95 | 6.44 | | | 5.18 | | |
| | | 05-Sep-95 | 6.08 | | | 5.54 | | |
| | | 18-Dec-95 | 11.01 | | | 0.61 | | |
| LF-16 | 11.56 | 08-Dec-93 | 8.35 | | | 3.21 | | |
| | | 28-Jan-94 | 8.40 | | | 3.16 | | |
| | | 15-Feb-94 | 8.21 | | | 3.35 | | |
| | | 24-May-94 | 8.01 | | | 3.55 | | |

Table 1
Historical Summary of Ground-Water Elevation Data
5050 Coliseum Way and 750 50th Avenue
Oakland, California

| Well Number | Top of PVC Casing Elevation (feet msl) | Date Measured | Depth to Water (feet msl) | Depth to Product (feet msl) | Product Thickness (ft) | Ground-Water Elevation (feet msl) |
|-------------|---|---------------|------------------------------|--------------------------------|---------------------------|--------------------------------------|
| | | 21-Sep-94 | 7.64 | | | 3.92 |
| | | 19-Dec-94 | 8.60 | | | 2.96 |
| | | 13-Mar-95 | 6.22 | | | 5.34 |
| | | 07-Jun-95 | 6.88 | | | 4.68 |
| | | 05-Sep-95 | 7.37 | | | 4.19 |
| | | 18-Dec-95 | 9.21 | | | 2.35 |
| LF-17 | 9.71 | 08-Dec-93 | 6.72 | | | 2.99 |
| | | 28-Jan-94 | 5.86 | | | 3.85 |
| | | 15-Feb-94 | 5.87 | | | 3.84 |
| | | 24-May-94 | 6.00 | | | 3.71 |
| | | 21-Sep-94 | 6.88 | | | 2.83 |
| | | 19-Dec-94 | 5.45 | | | 4.26 |
| | | 13-Mar-95 | 4.68 | | | 5.03 |
| | | 07-Jun-95 | 6.52 | | | 3.19 |
| | | 05-Sep-95 | 7.02 | | | 2.69 |
| | | 18-Dec-95 | 5.11 | | | 4.60 |
| LF-F1 | 8.82 | 08-Dec-93 | 4.08 | | | 4.74 |
| | | 28-Jan-94 | 4.03 | | | 4.79 |
| | | 15-Feb-94 | 3.90 | | | 4.92 |
| | | 24-May-94 | 3.60 | | | 5.22 |
| | | 21-Sep-94 | 4.05 | | | 4.77 |
| | | 19-Dec-94 | 3.45 | | | 5.37 |
| | | 13-Mar-95 | 2.22 | | | 6.60 |
| | | 07-Jun-95 | 2.28 | | | 6.54 |
| | | 05-Sep-95 | 2.92 | | | 5.90 |
| | | 18-Dec-95 | 3.18 | | | 5.64 |
| MW-1 | 10.21 | 07-Nov-91 | 6.29 | | | 4.24 |
| | | 26-Oct-92 | 6.38 | | | 2.63 |
| | | 04-Mar-93 | 3.57 | | | 6.64 |
| | | 14-Apr-93 | 3.57 | | | 6.64 |
| | | 24-May-93 | 4.59 | | | 5.62 |
| | | 14-Jun-93 | 4.86 | | | 5.35 |
| | | 30-Jul-93 | 5.72 | | | 4.49 |
| | | 31-Aug-93 | 6.38 | | | 3.83 |
| | | 27-Sep-93 | 6.85 | | | 3.36 |
| | | 25-Oct-93 | 7.03 | | | 3.18 |
| | | 02-Nov-93 | 7.30 | | | 2.91 |
| | | 08-Dec-93 | 6.51 | | | 3.70 |
| | | 28-Jan-94 | 5.00 | | | 5.21 |
| | | 15-Feb-94 | 4.46 | | | 5.75 |
| | | 24-May-94 | 4.65 | | | 5.56 |
| | | 21-Sep-94 | 6.35 | | | 3.86 |
| | | 19-Dec-94 | 3.70 | | | 6.51 |
| | | 13-Mar-95 | 2.71 | | | 7.50 |
| | | 07-Jun-95 | 4.02 | | | 6.19 |
| | | 05-Sep-95 | 5.67 | | | 4.54 |
| | | 18-Dec-95 | 4.47 | | | 5.74 |

Table 1
Historical Summary of Ground-Water Elevation Data
5050 Coliseum Way and 750 50th Avenue
Oakland, California

| Well Number | Top of PVC Casing Elevation (feet msl) | Date Measured | Depth to Water (feet msl) | Depth to Product (feet msl) | Product Thickness (ft) | Ground-Water Elevation (feet msl) |
|-------------|---|---------------|------------------------------|--------------------------------|---------------------------|--------------------------------------|
| MW-2 | 8.86 | 07-Nov-91 | 5.93 | | | 2.93 |
| | | 26-Oct-92 | 5.41 | | | 3.45 |
| | | 04-Mar-93 | 4.26 | | | 4.60 |
| | | 14-Apr-93 | 3.83 | | | 5.03 |
| | | 24-May-93 | 3.78 | | | 5.08 |
| | | 14-Jun-93 | 3.89 | | | 4.97 |
| | | 30-Jul-93 | 4.10 | | | 4.76 |
| | | 31-Aug-93 | 4.37 | | | 4.49 |
| | | 27-Sep-93 | 4.72 | | | 4.14 |
| | | 25-Oct-93 | 4.81 | | | 4.05 |
| | | 02-Nov-93 | 4.96 | | | 3.90 |
| | | 08-Dec-93 | 5.13 | | | 3.73 |
| | | 28-Jan-94 | 5.18 | | | 3.68 |
| | | 15-Feb-94 | 5.02 | | | 3.84 |
| | | 24-May-94 | 4.43 | | | 4.43 |
| | | 21-Sep-94 | 5.82 | | | 3.04 |
| | | 12-Dec-94 | 4.75 | | | 4.11 |
| | | 13-Mar-95 | 3.28 | | | 5.58 |
| 07-Jun-95 | 3.12 | | | 5.74 | | |
| 05-Sep-95 | 3.90 | | | 4.96 | | |
| 18-Dec-95 | 4.55 | | | 4.31 | | |
| MW-3 | 9.01 | 07-Nov-91 | 6.94 | | | 2.07 |
| | | 26-Oct-92 | 7.29 | | | 1.72 |
| | | 04-Mar-93 | 5.07 | | | 3.94 |
| | | 14-Apr-93 | 5.21 | | | 3.80 |
| | | 24-May-93 | 5.95 | | | 3.06 |
| | | 14-Jun-93 | 6.23 | | | 2.78 |
| | | 27-Sep-93 | 6.46 | | | 2.55 |
| | | 25-Oct-93 | 6.47 | | | 2.54 |
| | | 02-Nov-93 | 6.62 | | | 2.39 |
| | | 08-Dec-93 | 6.23 | | | 2.78 |
| | | 28-Jan-94 | 5.58 | | | 3.43 |
| | | 15-Feb-94 | 5.70 | | | 3.31 |
| | | 24-May-94 | 5.59 | | | 3.42 |
| | | 21-Sep-94 | 6.46 | | | 2.55 |
| | | 19-Dec-94 | 5.46 | | | 3.55 |
| | | 13-Mar-95 | 4.37 | | | 4.64 |
| | | 07-Jun-95 | 5.61 | | | 3.40 |
| | | 05-Sep-95 | 6.38 | | | 2.63 |
| 18-Dec-95 | 4.91 | | | 4.10 | | |
| MW-4 | 10.75 | 07-Nov-91 | 10.26 | | | 0.49 |
| | | 26-Oct-92 | 9.04 | | | 1.71 |
| | | 04-Mar-93 | 5.77 | | | 4.98 |
| | | 14-Apr-93 | 4.71 | | | 6.04 |
| | | 24-May-93 | 5.60 | | | 5.15 |
| | | 14-Jun-93 | 5.94 | | | 4.81 |
| | | 30-Jul-93 | 6.72 | | | 4.03 |

Table 1
Historical Summary of Ground-Water Elevation Data
5050 Coliseum Way and 750 50th Avenue
Oakland, California

| Well Number | Top of PVC Casing Elevation (feet msl) | Date Measured | Depth to Water (feet msl) | Depth to Product (feet msl) | Product Thickness (ft) | Ground-Water Elevation (feet msl) |
|-------------|---|---------------|------------------------------|--------------------------------|---------------------------|--------------------------------------|
| | | 31-Aug-93 | 7.25 | | | 3.50 |
| | | 27-Sep-93 | 7.66 | | | 3.09 |
| | | 25-Oct-93 | 7.79 | | | 2.96 |
| | | 02-Nov-93 | 7.97 | | | 2.78 |
| | | 08-Dec-93 | 7.18 | | | 3.57 |
| | | 28-Jan-94 | 5.50 | | | 5.25 |
| | | 15-Feb-94 | 5.17 | | | 5.58 |
| | | 24-May-94 | 5.46 | | | 5.29 |
| | | 21-Sep-94 | 7.52 | | | 3.23 |
| | | 19-Dec-94 | 4.42 | | | 6.33 |
| | | 13-Mar-95 | 3.48 | | | 7.27 |
| | | 07-Jun-95 | 4.93 | | | 5.82 |
| | | 05-Sep-95 | 6.34 | | | 4.41 |
| | | 18-Dec-95 | 4.61 | | | 6.14 |

Data entered by PCA 25-Jan-95. Data proofed by JCK

NOTES

All elevations are measured relative to the mean-sea-level (msl) datum.

The top of casing elevations were measured from the north side of each PVC casing.

(1) Ground-water elevation for well LF-13 is corrected for the presence of free product as indicated below. Product thickness measurement is approximate due to the viscous nature of the product. Ground-water elevation corrected for the presence of free product using the following equation: $G = W + [(PT \cdot D) - DW]$ where G is the ground-water elevation, W is the well elevation, PT is the product thickness, D is the product density (g/ml), and DW is the depth to water. For purposes of this calculation, D = 0.85 will be used.

(2) In general, product thickness measurements for well LF-13 are approximate due to the viscous nature of the product. Specifically, the measurement reported for September 21, 1994 was measured using an electronic oil/water interface probe only, which likely resulted in an incorrect measurement.

METALS DETECTED IN GROUND-WATER SAMPLES
5050 COLISEUM WAY AND 750-50TH AVENUE
OAKLAND, CALIFORNIA
(Concentrations reported in parts per million [ppm])

| Sample ID | Sample Date | Silver | Arsenic | Barium | Beryllium | Cadmium | Cobalt | Chromium | Copper | Mercury | Molybdenum | Nickel | Lead | Antimony | Selenium | Thallium | Vanadium | Zinc |
|------------|-------------|--------|---------|--------|-----------|---------|--------|----------|--------|---------|------------|--------|--------|----------|----------|----------|----------|-------|
| LF-1 | 4-Nov-91 | 0.054 | 0.004 | 0.046 | 0.11 | 130 | 5.7 | <0.01 | 1.9 | <0.0003 | 0.11 | 20 | 0.5 | <0.2 | <0.004 | <1 | <0.005 | 40000 |
| LF-1 | 27-Oct-92 | <0.5 | 0.007 | <0.5 | <0.2 | 57 | 4.1 | <1 | 1 | <0.0003 | <1 | 19 | <4 | <2 | 0.027 | <10 | <0.5 | 16000 |
| LF-1 | 5-Mar-93 | <0.5 | 0.22 | <0.05 | <0.2 | 43 | 3.6 | <1 | 0.47 | <0.0003 | <1 | 11 | <4 | <2 | <0.01 | <10 | <0.5 | 14000 |
| Duplicate | 5-Mar-93 | <0.5 | 0.26 | <0.05 | <0.2 | 44 | 3.9 | <1 | 0.5 | <0.0003 | <1 | 11 | <4 | <2 | <0.01 | <10 | <0.5 | 14000 |
| LF-1 | 25-May-93 | <0.5 | 0.12 | <0.05 | <0.2 | 40 | 4.7 | <1 | 1 | <0.0003 | <1 | 16 | <0.4 | <2 | <0.004 | <10 | <0.5 | 19000 |
| Duplicate | 25-May-93 | <0.03 | 0.36 | <0.05 | 0.02 | 9.6 | 0.81 | <0.05 | 0.15 | <0.0003 | <0.05 | 3 | 0.3 | <0.1 | <0.004 | <0.5 | <0.03 | 4700 |
| LF-1 | 31-Aug-93 | <0.5 | 0.072 | <0.05 | <0.2 | 32 | 2.3 | <1 | <1 | <0.0003 | <1 | 9 | <4 | <2 | <0.004 | <10 | <0.5 | 13000 |
| Duplicate | 31-Aug-93 | <0.5 | 0.66 | <0.05 | <0.2 | 13 | 1 | <1 | <1 | <0.0003 | <1 | 5 | <4 | <2 | <0.004 | <10 | <0.5 | 7200 |
| LF-1 | 26-Oct-93 | <0.05 | 0.4 | <0.5 | 0.02 | 15 | 1.3 | 0.6 | 0.9 | <0.0003 | <0.1 | 4.9 | 0.4 | <0.2 | <0.04 | <1 | <0.05 | 7100 |
| LF-101 dup | 26-Oct-93 | <0.1 | 1.3 | <1 | <0.04 | 12 | 1 | <0.2 | 0.3 | <0.0003 | <0.2 | 3.7 | <0.8 | <0.4 | <0.08 | <2 | <0.1 | 5900 |
| LF-1 | 18-Feb-94 | <0.05 | 0.57 | <0.5 | <0.02 | 2.6 | 0.33 | <0.1 | <0.1 | <0.0002 | <0.1 | 1.4 | 0.8 | <0.2 | <0.004 | <1 | <0.05 | 2600 |
| LF-1 | 25-May-94 | <0.05 | 0.49 | <0.05 | <0.2 | 7.9 | 0.9 | <1 | <1 | <0.0002 | <1 | 3 | 0.79 | <3 | <0.004 | <10 | <0.5 | 5000 |
| LF-1 | 22-Sep-94 | <0.05 | 0.77 | <0.05 | <0.02 | 6.1 | 0.67 | <0.1 | <0.1 | <0.0002 | <0.1 | 2.5 | 0.91 | <0.2 | <0.02 | <1 | <0.05 | 4100 |
| LF-1 | 20-Dec-94 | <0.05 | 0.65 | <0.5 | <0.02 | 4.2 | 0.45 | <0.1 | <0.1 | <0.0002 | <0.1 | 1.7 | 0.6 | <0.2 | <0.04 | <1 | <0.05 | 3700 |
| LF-1 | 15-Mar-95 | <0.05 | 0.39 | <0.1 | <0.02 | 8.5 | 0.81 | <0.1 | 0.2 | <0.0002 | <0.1 | 3.4 | 0.41 | <0.2 | <0.004 | <0.5 | <0.05 | 4700 |
| LF-1 | 8-Jun-95 | <0.5 | 0.33 | <1 | <0.2 | 11 | 0.9 | <1 | <1 | <0.0002 | <1 | 4 | 1.5 | <2 | <0.02 | <5 | <0.5 | 6500 |
| LF-101 dup | 8-Jun-95 | <0.5 | 0.41 | <1 | <0.2 | 23 | 1.8 | <1 | <1 | <0.0002 | <1 | 7 | 0.76 | <2 | <0.02 | <5 | <0.5 | 10000 |
| LF-1 | 7-Sep-95 | <0.05 | 0.30 | <0.1 | 0.03 | 23 | 2.0 | <0.1 | 0.5 | <0.0002 | <0.1 | 7.3 | 0.67 | <0.2 | <0.1 | 0.6 | <0.05 | 10000 |
| LF-1 | 19-Dec-95 | <0.5 | 0.34 | <1 | <0.3 | 12 | 1.1 | <1 | <1 | <0.0002 | <1 | 4 | 0.26 | <2 | 0.036 | <5 | <0.5 | 6200 |
| LF-2 | 4-Nov-91 | <0.002 | 0.028 | 0.026 | <0.001 | 0.009 | 0.18 | <0.01 | 0.008 | <0.0003 | <0.01 | 0.52 | <0.005 | <0.02 | <0.004 | <0.1 | <0.005 | 4.2 |
| LF-2 | 27-Oct-92 | 0.006 | 0.007 | <0.05 | <0.002 | 0.006 | 0.12 | <0.01 | 0.02 | <0.0003 | <0.01 | 0.22 | <0.04 | <0.02 | 0.005 | <0.1 | <0.005 | 3.3 |
| LF-2 | 4-Mar-93 | <0.005 | 0.003 | <0.05 | <0.002 | <0.005 | 0.1 | <0.01 | <0.01 | <0.0003 | <0.01 | 0.12 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 1.9 |
| LF-2 | 24-May-93 | <0.005 | 0.005 | <0.05 | <0.002 | <0.005 | 0.061 | <0.01 | <0.01 | <0.0003 | <0.01 | 0.08 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 1.4 |
| LF-2 | 31-Aug-93 | <0.005 | 5 | <0.05 | 0.003 | 0.021 | 0.016 | <0.01 | <0.01 | <0.0003 | 0.14 | <0.01 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 8.6 |
| LF-2 | 25-Oct-93 | <0.005 | 0.004 | <0.05 | <0.002 | 0.009 | 0.055 | <0.01 | 0.02 | <0.0003 | <0.01 | 0.11 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 1.9 |
| LF-2 | 16-Feb-94 | <0.005 | <0.002 | <0.05 | <0.002 | <0.005 | <0.005 | <0.1 | <0.01 | <0.0002 | <0.01 | 0.04 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 0.41 |
| LF-2 | 24-May-94 | <0.001 | <0.002 | 0.02 | <0.0005 | <0.001 | 0.037 | <0.002 | 0.003 | <0.0002 | <0.002 | 0.024 | <0.003 | <0.005 | <0.004 | <0.02 | <0.001 | 0.3 |
| LF-2 | 22-Sep-94 | <0.001 | <0.002 | 0.02 | <0.0005 | <0.001 | 0.038 | <0.002 | 0.006 | <0.0002 | <0.002 | 0.038 | <0.005 | 0.007 | <0.004 | <0.02 | 0.001 | 0.59 |
| LF-2 | 20-Dec-94 | 0.001 | <0.002 | 0.02 | <0.0005 | <0.001 | 0.04 | <0.002 | 0.006 | <0.0002 | <0.002 | 0.03 | <0.002 | <0.005 | <0.004 | <0.02 | <0.001 | 0.39 |
| LF-2 | 15-Mar-95 | <0.001 | <0.002 | 0.017 | <0.0005 | <0.001 | 0.033 | <0.002 | 0.004 | <0.0002 | <0.002 | 0.031 | <0.002 | <0.004 | <0.004 | <0.01 | 0.002 | 0.49 |
| LF-102 dup | 16-Mar-95 | <0.001 | <0.002 | 0.017 | <0.0005 | <0.001 | 0.036 | <0.002 | 0.005 | <0.0002 | <0.002 | 0.024 | <0.002 | <0.004 | <0.004 | <0.01 | 0.001 | 0.37 |
| LF-2 | 7-Jun-95 | <0.001 | <0.002 | 0.017 | <0.0005 | <0.001 | 0.037 | <0.002 | 0.006 | <0.0002 | <0.002 | 0.04 | <0.002 | <0.004 | <0.004 | <0.01 | 0.002 | 0.62 |
| LF-2 | 7-Sep-95 | <0.001 | <0.002 | 0.019 | <0.0005 | 0.001 | 0.040 | <0.002 | 0.004 | <0.0002 | <0.002 | 0.032 | <0.002 | <0.004 | <0.004 | <0.01 | <0.001 | 0.50 |
| LF-122 dup | 7-Sep-95 | <0.001 | <0.002 | 0.020 | <0.0005 | <0.001 | 0.042 | <0.002 | 0.005 | <0.0002 | <0.002 | 0.027 | <0.002 | <0.004 | <0.004 | <0.01 | <0.001 | 0.50 |
| LF-2 | 19-Dec-95 | <0.001 | <0.002 | 0.020 | <0.0005 | <0.001 | 0.043 | <0.002 | 0.002 | <0.0002 | <0.002 | 0.045 | <0.002 | <0.004 | <0.004 | <0.01 | 0.001 | 0.74 |
| LF-3 | 4-Nov-91 | <0.002 | 3.1 | 0.077 | 0.001 | <0.005 | 0.016 | <0.01 | <0.004 | <0.0003 | 0.16 | 0.012 | <0.005 | <0.02 | <0.004 | <0.1 | 0.006 | 3.1 |
| LF-3 | 27-Oct-92 | <0.005 | 3.6 | 0.11 | 0.004 | 0.013 | 0.029 | <0.01 | <0.01 | <0.0003 | 0.22 | 0.02 | <0.04 | <0.02 | 0.018 | <0.1 | <0.005 | 12 |
| LF-3 | 4-Mar-93 | <0.005 | 4.9 | 0.07 | 0.003 | 0.012 | 0.023 | <0.01 | <0.01 | <0.0003 | 0.18 | 0.04 | <0.04 | <0.02 | <0.02 | <0.1 | <0.005 | 15 |
| LF-3 | 25-May-93 | <0.005 | 3.4 | 0.11 | <0.002 | 0.04 | 0.01 | <0.01 | <0.01 | <0.0003 | 0.13 | 0.01 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 5.8 |
| LF-3 | 31-Aug-93 | <0.005 | 4.9 | <0.05 | 0.003 | 0.023 | 0.019 | <0.01 | <0.01 | <0.0003 | 0.15 | 0.01 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 8.6 |
| LF-3 | 25-Oct-93 | <0.005 | 7.3 | 0.08 | <0.002 | 0.005 | 0.013 | <0.01 | <0.01 | <0.0003 | 0.13 | 0.02 | <0.04 | <0.02 | <0.02 | <0.1 | <0.005 | 6.2 |
| LF-3 | 16-Feb-94 | <0.005 | 3.4 | 0.1 | <0.002 | <0.005 | 0.012 | <0.01 | <0.01 | <0.0002 | 0.11 | 0.01 | <0.04 | <0.02 | <0.01 | <0.1 | <0.005 | 5 |
| LF-3 | 25-May-94 | <0.001 | 2.4 | 0.08 | 0.0009 | <0.001 | 0.009 | 0.002 | <0.002 | <0.0002 | 0.091 | 0.006 | <0.003 | <0.005 | <0.02 | <0.02 | <0.001 | 4.1 |
| LF-103 dup | 25-May-94 | 0.001 | 2.8 | 0.08 | 0.0013 | <0.001 | 0.011 | <0.002 | <0.002 | <0.0002 | 0.11 | 0.008 | <0.003 | <0.005 | <0.02 | <0.02 | <0.001 | 5.2 |
| LF-3 | 23-Sep-94 | <0.001 | 2.2 | 0.05 | 0.0014 | <0.001 | 0.011 | 0.002 | <0.002 | <0.0002 | 0.11 | 0.008 | <0.005 | <0.005 | <0.2 | <0.02 | 0.004 | 5.5 |
| LF-103 dup | 23-Sep-94 | <0.001 | 2.3 | 0.06 | 0.001 | <0.001 | 0.009 | 0.004 | 0.007 | <0.0002 | 0.095 | 0.007 | <0.005 | <0.005 | <0.2 | <0.02 | 0.003 | 4.1 |
| LF-3 | 20-Dec-94 | <0.001 | 3.6 | 0.09 | 0.0013 | <0.001 | 0.012 | 0.005 | 0.026 | <0.0002 | 0.11 | 0.011 | <0.002 | <0.005 | <0.04 | <0.02 | 0.012 | 6.2 |
| LF-103 dup | 20-Dec-94 | <0.001 | 4.5 | 0.04 | 0.0017 | <0.001 | 0.014 | 0.003 | 0.003 | <0.0002 | 0.13 | 0.011 | <0.002 | <0.005 | <0.04 | 0.02 | 0.01 | 8.5 |
| LF-3 | 15-Mar-95 | <0.001 | 2.8 | 0.15 | 0.001 | <0.001 | 0.008 | 0.004 | 0.003 | <0.0002 | 0.086 | 0.007 | <0.002 | <0.004 | <0.04 | <0.01 | 0.011 | 4.3 |
| LF-3 | 7-Jun-95 | <0.001 | 5.6 | 0.057 | 0.0018 | <0.001 | 0.014 | 0.003 | 0.003 | <0.0002 | 0.13 | 0.012 | <0.002 | <0.004 | <0.04 | <0.01 | 0.013 | 9.9 |
| LF-3 | 7-Sep-95 | <0.001 | 3.0 | 0.13 | 0.0017 | <0.001 | 0.011 | 0.004 | <0.002 | <0.0002 | 0.12 | 0.008 | <0.002 | <0.004 | <0.2 | 0.02 | 0.013 | 5.4 |
| LF-3 | 18-Dec-95 | <0.001 | 4.2 | 0.06 | 0.002 | 0.013 | 0.013 | 0.004 | <0.002 | <0.0002 | 0.13 | 0.012 | <0.005 | <0.004 | 0.019 | <0.01 | 0.01 | 8.4 |
| LF-103 dup | 18-Dec-95 | <0.001 | 4.2 | 0.12 | 0.001 | 0.011 | 0.009 | 0.005 | <0.002 | <0.0002 | 0.098 | 0.01 | <0.005 | <0.004 | <0.02 | <0.01 | 0.011 | 5.1 |

Table 2
 METALS DETECTED IN GROUND-WATER SAMPLES
 5050 COLISEUM WAY AND 750-50TH AVENUE
 OAKLAND, CALIFORNIA
 (Concentrations reported in parts per million (ppm))

| Sample ID | Sample Date | Silver | Arsenic | Barium | Beryllium | Cadmium | Cobalt | Chromium | Copper | Mercury | Molybdenum | Nickel | Lead | Antimony | Selenium | Thallium | Vanadium | Zinc |
|-----------|-------------|--------|---------|--------|-----------|---------|--------|----------|--------|---------|------------|--------|--------|----------|----------|----------|----------|--------|
| LF-4 | 4-Nov-91 | <0.002 | 0.026 | 0.082 | <0.001 | <0.005 | <0.005 | <0.01 | <0.004 | <0.0003 | <0.01 | 0.013 | <0.005 | 0.03 | <0.004 | <0.1 | 0.01 | 0.034 |
| LF-4 | 27-Oct-92 | <0.005 | 0.034 | <0.05 | <0.002 | <0.005 | <0.005 | <0.01 | <0.01 | <0.0003 | <0.01 | 0.03 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 0.012 |
| LF-4 | 4-Mar-93 | <0.005 | 0.017 | 0.11 | <0.002 | <0.005 | <0.005 | <0.01 | <0.01 | <0.0003 | <0.01 | 0.05 | <0.04 | 0.02 | <0.004 | <0.1 | 0.008 | 0.04 |
| LF-4 | 24-May-93 | <0.005 | 0.013 | 0.22 | <0.002 | <0.005 | <0.005 | <0.01 | <0.01 | <0.0003 | <0.01 | 0.03 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 0.035 |
| LF-4 | 31-Aug-93 | <0.005 | 0.052 | 0.08 | <0.002 | <0.005 | 0.006 | <0.01 | <0.01 | <0.0003 | <0.01 | 0.04 | <0.04 | <0.02 | <0.004 | <0.1 | 0.009 | 0.038 |
| LF-4 | 25-Oct-93 | <0.005 | 0.014 | 0.12 | <0.002 | <0.005 | <0.005 | <0.01 | <0.01 | <0.0003 | <0.01 | 0.04 | <0.04 | <0.02 | <0.004 | <0.1 | 0.015 | 0.068 |
| LF-4 | 16-Feb-94 | <0.005 | 0.008 | 0.29 | <0.002 | <0.005 | 0.006 | <0.01 | <0.01 | <0.0002 | <0.01 | 0.04 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 0.05 |
| LF-4 | 22-Sep-94 | <0.001 | 0.005 | 0.19 | <0.0005 | 0.001 | 0.003 | <0.002 | 0.003 | <0.0002 | <0.002 | 0.037 | <0.005 | 0.007 | <0.004 | <0.02 | 0.007 | 0.067 |
| LF-4 | 15-Mar-95 | <0.001 | 0.008 | 0.34 | <0.0005 | 0.001 | 0.005 | <0.002 | <0.002 | <0.0002 | <0.002 | 0.037 | <0.002 | <0.004 | <0.004 | <0.01 | 0.002 | 0.064 |
| LF-4 | 7-Sep-95 | <0.001 | 0.012 | 0.15 | <0.0005 | 0.001 | 0.004 | <0.002 | <0.002 | <0.0002 | <0.002 | 0.048 | <0.002 | <0.004 | <0.004 | <0.01 | 0.002 | 0.24 |
| LF-5 | 4-Nov-91 | 0.004 | <0.002 | 0.018 | <0.001 | 0.049 | 0.03 | <0.01 | <0.005 | 0.0004 | <0.01 | 0.23 | <0.005 | <0.02 | <0.004 | <0.1 | <0.005 | 11 |
| LF-5 | 27-Oct-92 | 0.022 | 0.005 | <0.05 | <0.002 | 0.24 | 1.4 | <0.01 | <0.01 | <0.0003 | <0.01 | 5.4 | <0.04 | <0.02 | 0.017 | <0.1 | <0.005 | 35 |
| LF-5 | 4-Mar-93 | 0.021 | <0.005 | <0.05 | <0.002 | 0.21 | 1.1 | <0.01 | <0.01 | <0.0003 | <0.01 | 5 | <0.04 | <0.02 | <0.01 | <0.1 | <0.005 | 36 |
| LF-5 | 25-May-93 | 0.01 | <0.002 | <0.05 | <0.002 | 0.17 | 0.84 | <0.01 | <0.01 | <0.0003 | <0.01 | 3.2 | <0.04 | <0.02 | <0.004 | 0.2 | <0.005 | 23 |
| LF-5 | 31-Aug-93 | 0.013 | 0.02 | <0.05 | <0.002 | 0.25 | 1.3 | <0.01 | <0.01 | <0.0003 | <0.01 | 4.6 | <0.04 | <0.02 | <0.02 | 0.2 | <0.005 | 38 |
| LF-5 | 26-Oct-93 | 0.011 | 0.052 | <0.05 | <0.002 | 0.28 | 1.4 | <0.01 | 0.01 | <0.0003 | <0.01 | 5.3 | 0.07 | <0.02 | <0.04 | 0.3 | 0.01 | 51 |
| LF-5 | 16-Feb-94 | 0.009 | <0.02 | <0.05 | <0.002 | 0.16 | 0.95 | <0.01 | <0.01 | <0.0002 | <0.01 | 3.3 | <0.04 | <0.02 | <0.04 | 0.1 | <0.005 | 28 |
| LF-5 | 24-May-94 | 0.008 | <0.005 | 0.01 | <0.0005 | 0.14 | 0.71 | <0.002 | <0.002 | <0.0002 | <0.002 | 2.4 | <0.01 | <0.005 | <0.01 | 0.09 | 0.002 | 23 |
| LF-5 | 21-Sep-94 | 0.006 | <0.01 | 0.01 | <0.0005 | 0.17 | 0.81 | <0.003 | 0.003 | <0.0002 | <0.002 | 2.5 | <0.01 | <0.005 | <0.02 | 0.03 | <0.001 | 25 |
| LF-5 | 19-Dec-94 | 0.007 | <0.01 | 0.01 | <0.0005 | 0.25 | 1.2 | 0.003 | 0.004 | <0.0002 | <0.002 | 3.8 | <0.008 | <0.005 | 0.02 | 0.08 | <0.001 | 58 |
| LF-5 | 14-Mar-95 | 0.004 | <0.02 | 0.013 | <0.0005 | 0.11 | 0.61 | 0.004 | 0.003 | <0.0002 | <0.002 | 2.6 | <0.01 | <0.004 | <0.04 | 0.06 | 0.003 | 25 |
| LF-5 | 7-Jun-95 | 0.006 | <0.01 | 0.015 | <0.0005 | 0.31 | 1.5 | 0.006 | 0.005 | <0.0002 | <0.002 | 5 | <0.02 | <0.004 | <0.02 | 0.05 | 0.001 | 76 |
| LF-5 | 7-Sep-95 | 0.004 | <0.005 | 0.014 | <0.0005 | 0.31 | 1.5 | 0.006 | 0.005 | <0.0002 | <0.002 | 4.8 | <0.01 | <0.004 | <0.004 | 0.04 | <0.001 | 38 |
| LF-5 | 18-Dec-95 | 0.003 | <0.005 | 0.017 | <0.0005 | 0.2 | 0.99 | 0.004 | 0.002 | <0.0002 | <0.002 | 3.1 | <0.005 | <0.004 | <0.01 | 0.12 | 0.003 | 47 |
| LF-6 | 5-Nov-91 | 0.011 | 0.008 | 0.019 | <0.001 | 0.079 | 0.58 | <0.01 | <0.005 | 0.0009 | <0.01 | 2.1 | 0.009 | <0.02 | <0.004 | <0.1 | <0.005 | 8.1 |
| LF-6 | 27-Oct-92 | 0.02 | 0.022 | <0.05 | <0.002 | 0.17 | 1.6 | <0.01 | <0.01 | <0.0003 | <0.01 | 5.5 | <0.04 | <0.02 | 0.012 | <0.1 | <0.005 | 23 |
| LF-6 | 4-Mar-93 | 0.013 | 0.007 | <0.05 | <0.003 | 0.13 | 1.2 | <0.01 | <0.01 | <0.0003 | <0.01 | 4.2 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 17 |
| LF-6 | 24-May-93 | 0.008 | <0.002 | <0.05 | <0.002 | 0.13 | 0.97 | <0.01 | 0.01 | <0.0003 | <0.01 | 3.4 | <0.04 | <0.02 | <0.004 | 0.1 | <0.005 | 13 |
| LF-6 | 31-Aug-93 | 0.009 | 0.014 | <0.05 | 0.003 | 0.13 | 1 | <0.01 | 0.01 | <0.0003 | <0.01 | 3.7 | <0.04 | <0.02 | <0.004 | 0.1 | <0.005 | 14 |
| LF-6 | 26-Oct-93 | 0.005 | <0.002 | <0.05 | 0.003 | 0.15 | 1 | <0.01 | 0.02 | <0.0003 | <0.01 | 3.7 | <0.04 | <0.02 | <0.004 | 0.1 | <0.005 | 17 |
| LF-6 | 16-Feb-94 | 0.007 | 0.016 | <0.05 | 0.003 | 0.11 | 0.97 | <0.01 | <0.01 | <0.0002 | <0.01 | 3.4 | <0.04 | <0.02 | <0.004 | 0.1 | <0.005 | 13 |
| LF-6 | 21-Sep-94 | 0.004 | <0.002 | 0.01 | 0.0023 | 0.099 | 0.84 | <0.002 | 0.011 | <0.0002 | <0.002 | 2.8 | <0.005 | <0.005 | <0.004 | 0.02 | <0.001 | 11 |
| LF-6 | 16-Mar-95 | 0.003 | <0.002 | 0.01 | 0.0023 | 0.091 | 0.74 | 0.002 | 0.01 | <0.0002 | <0.002 | 2.6 | <0.005 | <0.004 | <0.004 | 0.06 | 0.001 | 10 |
| LF-6 | 6-Sep-95 | 0.002 | <0.002 | 0.011 | 0.0022 | 0.094 | 0.79 | 0.004 | 0.009 | <0.0002 | <0.002 | 2.8 | <0.005 | <0.004 | <0.004 | 0.07 | <0.001 | 10 |
| LF-7 | 5-Nov-91 | <0.002 | 0.004 | 0.13 | <0.001 | <0.005 | <0.005 | <0.01 | 0.006 | 0.0011 | <0.01 | 0.01 | <0.005 | <0.02 | <0.004 | <0.1 | 0.006 | <0.005 |
| LF-7 | 27-Oct-92 | <0.005 | 0.03 | 0.11 | <0.002 | <0.005 | <0.005 | <0.01 | <0.01 | <0.0003 | 0.01 | 0.01 | <0.04 | <0.02 | <0.004 | <0.1 | 0.008 | 0.021 |
| LF-7 | 4-Mar-93 | <0.005 | 0.025 | 0.08 | <0.002 | <0.005 | <0.005 | <0.01 | <0.01 | <0.0003 | 0.01 | 0.01 | <0.04 | <0.02 | <0.01 | <0.1 | 0.009 | 0.01 |
| LF-7 | 24-May-93 | <0.005 | 0.003 | 0.08 | <0.002 | <0.005 | <0.005 | <0.01 | <0.01 | <0.0003 | <0.01 | <0.01 | <0.04 | <0.02 | <0.004 | <0.1 | 0.006 | 0.007 |
| LF-7 | 31-Aug-93 | <0.005 | 0.013 | 0.08 | <0.002 | <0.005 | <0.005 | <0.01 | <0.01 | <0.0003 | <0.01 | <0.01 | <0.04 | <0.02 | <0.004 | <0.1 | 0.006 | 0.021 |
| LF-7 | 25-Oct-93 | <0.005 | <0.002 | 0.09 | <0.002 | <0.005 | <0.005 | <0.01 | <0.01 | <0.0003 | <0.01 | <0.01 | <0.04 | <0.02 | <0.004 | <0.1 | 0.006 | 0.011 |
| LF-7 | 16-Feb-94 | <0.005 | 0.014 | 0.12 | <0.002 | <0.005 | <0.005 | <0.01 | <0.01 | <0.0002 | <0.01 | 0.02 | <0.04 | <0.02 | <0.004 | <0.1 | 0.005 | 0.01 |
| LF-7 | 21-Sep-94 | <0.001 | <0.002 | 0.1 | <0.0005 | <0.001 | <0.001 | <0.002 | <0.002 | <0.0002 | 0.006 | 0.01 | <0.005 | 0.005 | <0.004 | <0.02 | 0.006 | 0.012 |
| LF-7 | 15-Mar-95 | <0.001 | 0.004 | 0.24 | <0.0005 | <0.001 | <0.001 | <0.002 | <0.002 | <0.0002 | 0.005 | 0.011 | <0.005 | <0.004 | <0.004 | <0.01 | 0.006 | 0.053 |
| LF-7 | 6-Sep-95 | <0.001 | 0.017 | 0.18 | <0.0005 | <0.001 | <0.001 | <0.002 | <0.002 | <0.0002 | 0.006 | 0.012 | <0.005 | <0.004 | <0.004 | <0.01 | 0.007 | 0.001 |
| LF-8 | 27-Oct-93 | <0.005 | 2.6 | 0.16 | <0.002 | <0.005 | 0.005 | <0.01 | <0.01 | <0.0003 | <0.01 | 0.01 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 0.022 |
| LF-8 | 16-Feb-94 | <0.005 | 2.3 | 0.33 | <0.002 | <0.005 | <0.005 | <0.01 | <0.01 | <0.0002 | <0.01 | <0.01 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | <0.01 |
| LF-8 | 24-May-94 | <0.001 | 2.5 | 0.2 | <0.0005 | <0.001 | <0.001 | <0.002 | <0.002 | <0.0002 | 0.004 | <0.003 | <0.003 | <0.005 | <0.02 | <0.02 | 0.004 | 0.015 |
| LF-8 | 23-Sep-94 | <0.001 | 3.4 | 0.32 | <0.0005 | 0.001 | <0.001 | <0.002 | <0.002 | <0.0002 | <0.002 | 0.003 | <0.005 | 0.005 | <0.004 | <0.02 | 0.005 | 0.024 |
| LF-8 | 20-Dec-94 | <0.001 | 2 | 0.39 | <0.0005 | <0.001 | <0.001 | <0.002 | <0.002 | <0.0002 | <0.002 | 0.004 | <0.002 | <0.005 | <0.04 | <0.02 | 0.004 | 0.015 |
| LF-8 | 15-Mar-95 | <0.001 | 2 | 0.72 | <0.0005 | <0.001 | <0.001 | <0.002 | <0.002 | <0.0002 | 0.002 | 0.003 | <0.002 | <0.004 | <0.04 | <0.01 | 0.002 | 0.017 |

METALS DETECTED IN GROUND-WATER SAMPLES
 5050 COLISEUM WAY AND 750-50TH AVENUE
 OAKLAND, CALIFORNIA
 (Concentrations reported in parts per million [ppm])

| Sample ID | Sample Date | Silver | Arsenic | Barium | Beryllium | Cadmium | Cobalt | Chromium | Copper | Mercury | Molybdenum | Nickel | Lead | Antimony | Selenium | Thallium | Vanadium | Zinc |
|------------|-------------|--------|---------|--------|-----------|---------|--------|----------|--------|---------|------------|--------|--------|----------|----------|----------|----------|-------|
| LF-8 | 9-Jun-95 | <0.001 | 3.2 | 0.093 | <0.0005 | <0.001 | <0.001 | <0.002 | <0.002 | <0.0002 | <0.002 | 0.003 | <0.002 | <0.004 | <0.04 | <0.01 | 0.003 | 0.052 |
| LF-8 | 7-Sep-95 | <0.001 | 2.4 | 0.092 | <0.0005 | <0.001 | 0.001 | <0.002 | <0.002 | <0.0002 | <0.002 | <0.002 | <0.002 | <0.004 | <0.2 | <0.01 | 0.003 | 0.02 |
| LF-8 | 18-Dec-95 | <0.001 | 3.4 | 0.17 | <0.0005 | 0.007 | <0.001 | <0.002 | <0.002 | <0.0002 | <0.002 | <0.002 | <0.005 | <0.004 | <0.02 | <0.01 | 0.002 | 0.013 |
| LF-9 | 1-Nov-93 | <0.005 | 0.009 | <0.05 | <0.002 | 0.041 | 0.56 | <0.01 | 0.02 | <0.0003 | <0.01 | 0.86 | <0.04 | <0.02 | <0.02 | <0.1 | <0.005 | 14 |
| LF-109 dup | 1-Nov-93 | <0.005 | 0.015 | <0.05 | <0.002 | 0.034 | 0.46 | <0.01 | <0.01 | <0.0003 | <0.01 | 0.71 | <0.04 | <0.02 | <0.02 | <0.1 | <0.005 | 14 |
| LF-9 | 17-Feb-94 | <0.005 | 0.064 | <0.05 | <0.002 | 0.12 | 0.016 | <0.01 | <0.01 | <0.0002 | <0.01 | 0.1 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 31 |
| LF-9 | 21-Sep-94 | <0.001 | 0.18 | 0.02 | <0.0005 | 0.008 | 0.023 | <0.002 | <0.002 | <0.0002 | 0.004 | 0.072 | <0.005 | 0.006 | <0.01 | <0.02 | 0.002 | 20 |
| LF-9 | 13-Mar-95 | <0.001 | 0.15 | 0.021 | <0.0005 | 0.01 | 0.028 | <0.002 | 0.004 | <0.0002 | 0.003 | 0.085 | <0.005 | <0.004 | <0.004 | <0.01 | 0.003 | 26 |
| LF-9 | 8-Sep-95 | <0.001 | 0.19 | 0.014 | <0.0005 | 0.020 | 0.026 | <0.002 | <0.002 | <0.0002 | 0.003 | 0.087 | <0.005 | <0.004 | <0.02 | <0.01 | 0.003 | 25 |
| LF-10 | 28-Oct-93 | <0.005 | 0.04 | 0.77 | <0.002 | 0.02 | 0.019 | 0.07 | 0.04 | <0.0003 | <0.01 | 0.17 | <0.04 | <0.02 | <0.04 | <0.1 | 0.048 | 2 |
| LF-10 | 16-Feb-94 | <0.005 | <0.005 | <0.05 | <0.002 | 0.005 | 0.018 | <0.01 | <0.01 | <0.0002 | <0.01 | 0.12 | <0.04 | <0.02 | <0.01 | <0.1 | 0.008 | 0.21 |
| LF-10 | 22-Sep-94 | 0.001 | <0.005 | 0.02 | <0.0005 | 0.002 | 0.008 | <0.002 | 0.005 | <0.0002 | <0.002 | 0.083 | <0.01 | <0.005 | <0.01 | <0.02 | 0.006 | 0.075 |
| LF-10 | 15-Mar-95 | <0.001 | <0.02 | 0.018 | <0.0005 | 0.001 | 0.018 | <0.002 | 0.006 | <0.0002 | <0.002 | 0.13 | <0.01 | <0.004 | <0.04 | 0.02 | 0.004 | 0.13 |
| LF-10 | 7-Sep-95 | <0.001 | <0.005 | 0.016 | <0.0005 | 0.002 | 0.007 | <0.002 | 0.007 | <0.0002 | <0.002 | 0.083 | <0.01 | <0.004 | <0.01 | <0.01 | 0.005 | 0.29 |
| LF-11 | 28-Oct-93 | <0.005 | 0.07 | 0.1 | <0.002 | 120 | 5.9 | <0.01 | 3 | <0.0003 | <0.01 | 28 | 6 | <0.02 | <0.04 | <0.1 | 2 | 47000 |
| LF-11 | 18-Feb-94 | <0.5 | <0.02 | <5 | <0.2 | 140 | 8.4 | <1 | 4 | <0.0002 | <1 | 37 | <4 | <2 | <0.02 | <10 | <0.5 | 44000 |
| LF-111 dup | 18-Feb-94 | <0.5 | <0.02 | <5 | <0.2 | 140 | 9.4 | <1 | 4 | <0.0002 | <1 | 40 | <4 | <2 | <0.02 | <10 | <0.5 | 46000 |
| LF-11 | 23-Sep-94 | 0.5 | <0.02 | <0.01 | 0.2 | 130 | 7.1 | <1 | 5 | <0.0002 | <1 | 32 | 0.41 | <2 | <0.04 | <10 | <0.5 | 33000 |
| LF-11 | 15-Mar-95 | <0.5 | <0.01 | <1 | <0.2 | 91 | 4.9 | <1 | 3 | <0.0002 | <1 | 22 | 0.08 | <2 | <0.02 | <5 | <0.5 | 37000 |
| LF-11 | 8-Jun-95 | <5 | <0.02 | <1 | <3 | 99 | <5 | <10 | <10 | <0.0002 | <10 | 21 | 0.09 | <20 | <0.04 | <50 | <5 | 37000 |
| LF-11 | 7-Sep-95 | <0.5 | <0.01 | <1 | <0.2 | 120 | 6.5 | <1 | 5 | <0.0002 | <1 | 26 | 0.04 | <2 | <0.02 | <5 | <0.5 | 37000 |
| LF-11 | 18-Dec-95 | <5 | 0.31 | <1 | <3 | 110 | 6 | <10 | <10 | <0.0002 | <10 | 25 | 0.021 | <20 | <0.08 | <50 | <5 | 37000 |
| LF-12 | 1-Nov-93 | <0.05 | 0.022 | <0.5 | <0.02 | 3.7 | 2.7 | <0.1 | 0.9 | <0.0003 | <0.1 | 8.1 | <0.4 | <0.2 | 0.014 | <1 | <0.05 | 3400 |
| LF-12 | 17-Feb-94 | <0.05 | 0.004 | <0.5 | <0.02 | 2.9 | 1.9 | <0.1 | 0.7 | <0.0002 | <0.1 | 5.9 | <0.4 | <0.2 | 0.014 | <1 | <0.05 | 2700 |
| LF-12 | 24-May-94 | <0.05 | 0.008 | <0.05 | <0.02 | 3.6 | 2.4 | <0.1 | 1 | <0.0002 | <0.1 | 7.1 | 0.049 | <0.3 | 0.017 | <1 | <0.05 | 3100 |
| LF-12 | 22-Sep-94 | <0.05 | <0.005 | <0.05 | 0.02 | 3.4 | 2.2 | <0.1 | 1.1 | <0.0002 | <0.1 | 6.7 | 0.02 | <0.2 | 0.02 | <1 | <0.05 | 3100 |
| LF-12 | 19-Dec-94 | <0.05 | <0.005 | <0.5 | 0.02 | 3.5 | 2.3 | <0.1 | 1.1 | <0.0002 | <0.1 | 6.9 | 0.01 | <0.2 | 0.03 | <1 | <0.05 | 3200 |
| LF-12 | 15-Mar-95 | <0.05 | <0.002 | <0.1 | 0.02 | 3 | 2 | <0.1 | 1 | <0.0002 | <0.1 | 6.7 | <0.005 | <0.2 | 0.019 | <0.5 | <0.05 | 2600 |
| LF-12 | 7-Jun-95 | <0.05 | <0.005 | <0.1 | 0.03 | 3.3 | 2.1 | <0.1 | 1.2 | <0.0002 | <0.1 | 6.6 | <0.005 | <0.2 | 0.04 | <0.5 | <0.05 | 2900 |
| LF-12 | 6-Sep-95 | <0.05 | <0.005 | <0.1 | 0.02 | 3.2 | 2.2 | <0.1 | 1.3 | <0.0002 | <0.1 | 6.4 | 0.01 | <0.2 | <0.01 | <0.5 | <0.05 | 2900 |
| LF-12 | 18-Dec-95 | <0.05 | <0.002 | <0.1 | <0.03 | 3.8 | 2.1 | <0.1 | 1.1 | <0.0002 | <0.1 | 6.6 | <0.005 | <0.2 | 0.053 | <0.5 | <0.05 | 3000 |
| LF-13 | 6-Dec-93 | <0.005 | 3.3 | 0.24 | <0.002 | <0.005 | 0.007 | <0.01 | <0.01 | <0.0003 | 0.04 | 0.03 | <0.04 | <0.02 | <0.2 | <0.1 | 0.061 | 0.03 |
| LF-14 | 8-Dec-93 | <0.005 | 0.005 | <0.05 | <0.002 | 0.12 | 0.67 | <0.01 | 0.68 | 0.0016 | <0.01 | 1.6 | <0.04 | <0.02 | <0.02 | <0.1 | <0.005 | 230 |
| LF-14 | 17-Feb-94 | <0.005 | <0.002 | <0.05 | 0.002 | 0.16 | 0.96 | <0.01 | 2.1 | <0.0002 | <0.01 | 2.4 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 300 |
| LF-14 | 25-May-94 | <0.005 | 0.004 | <0.05 | 0.002 | 0.14 | 1 | <0.01 | 3.5 | <0.0002 | <0.01 | 2.4 | 0.027 | <0.03 | <0.004 | 0.1 | <0.005 | 340 |
| LF-14 | 21-Sep-94 | <0.005 | <0.002 | <0.05 | <0.002 | 0.065 | 0.59 | <0.01 | 1.1 | <0.0002 | <0.01 | 1.4 | 0.022 | <0.02 | <0.004 | <0.1 | <0.005 | 240 |
| LF-14 | 19-Dec-94 | <0.005 | 0.004 | <0.05 | 0.004 | 0.12 | 0.96 | <0.01 | 2.9 | <0.0002 | <0.01 | 2.3 | 0.03 | <0.02 | <0.004 | <0.1 | 0.042 | 370 |
| LF-14 | 15-Mar-95 | <0.005 | <0.002 | 0.01 | 0.004 | 0.12 | 0.86 | <0.01 | 3.4 | <0.0002 | <0.01 | 2.3 | 0.017 | <0.02 | <0.004 | <0.05 | <0.005 | 340 |
| LF-14 | 8-Jun-95 | <0.005 | 0.005 | 0.01 | 0.002 | 0.14 | 0.95 | <0.01 | 1.7 | <0.0002 | <0.01 | 2.4 | 0.037 | <0.02 | <0.004 | 0.07 | 0.008 | 290 |
| LF-14 | 8-Sep-95 | <0.005 | <0.002 | 0.01 | 0.002 | 0.086 | 0.78 | <0.01 | 2.8 | <0.0002 | <0.01 | 1.9 | 0.017 | <0.02 | <0.004 | 0.10 | 0.015 | 310 |
| LF-14 | 18-Dec-95 | <0.005 | 0.018 | 0.01 | <0.003 | 0.13 | 1.1 | <0.01 | 1.4 | <0.0002 | <0.01 | 2.6 | 0.003 | <0.02 | <0.004 | <0.05 | 0.011 | 290 |
| LF-15 | 6-Dec-93 | 0.032 | <0.05 | 0.28 | 0.017 | 1.7 | 8.1 | <0.01 | 0.14 | <0.0003 | <0.01 | 23 | 1.1 | <0.02 | <0.1 | 0.9 | <0.005 | 640 |
| LF-15 | 18-Feb-94 | <0.05 | 0.006 | <0.5 | <0.02 | 1.7 | 7.4 | <0.1 | <0.1 | <0.0002 | <0.1 | 20 | 0.6 | <0.2 | <0.04 | <1 | <0.05 | 660 |
| LF-15 | 21-Sep-94 | 0.02 | <0.01 | <0.05 | 0.027 | 2 | 11 | <0.01 | <0.01 | <0.0002 | <0.01 | 29 | 0.21 | <0.02 | <0.02 | 1.1 | <0.005 | 620 |
| LF-15 | 13-Mar-95 | <0.005 | <0.002 | 0.01 | 0.019 | 1.5 | 8.8 | <0.01 | <0.01 | <0.0002 | <0.01 | 24 | 0.33 | <0.02 | <0.02 | 0.66 | <0.005 | 550 |
| LF-15 | 8-Sep-95 | <0.05 | <0.01 | <0.1 | <0.02 | 2.1 | 14 | <0.1 | <0.1 | <0.0002 | <0.1 | 37 | 0.07 | <0.2 | <0.02 | 0.9 | <0.05 | 570 |

Table 2
METALS DETECTED IN GROUND-WATER SAMPLES
5050 COLISEUM WAY AND 750-50TH AVENUE
OAKLAND, CALIFORNIA
(Concentrations reported in parts per million [ppm])

| Sample ID | Sample Date | Silver | Arsenic | Barium | Beryllium | Cadmium | Cobalt | Chromium | Copper | Mercury | Molybdenum | Nickel | Lead | Antimony | Selenium | Thallium | Vanadium | Zinc |
|-----------|-------------|--------|---------|--------|-----------|---------|--------|----------|--------|---------|------------|--------|--------|----------|----------|----------|----------|-------|
| LF-16 | 7-Dec-93 | <0.05 | <0.05 | <0.5 | <0.02 | 10 | 5.9 | <0.1 | 0.4 | <0.003 | <0.1 | 16 | <0.4 | <0.2 | <0.1 | <1 | <0.05 | 3400 |
| LF-16 | 17-Feb-94 | <0.05 | <0.002 | <0.5 | 0.04 | 15 | 8.3 | <0.1 | 21 | <0.0002 | <0.1 | 24 | <0.4 | <0.2 | <0.04 | <1 | <0.05 | 5200 |
| LF-16 | 25-May-94 | <0.05 | <0.002 | <0.5 | 0.02 | 12 | 7 | <0.1 | 25 | <0.0002 | <0.1 | 20 | <0.01 | <0.3 | <0.004 | <1 | <0.05 | 4100 |
| LF-16 | 21-Sep-94 | <0.05 | <0.005 | <0.05 | 0.03 | 11 | 6.2 | <0.1 | 22 | <0.0002 | <0.1 | 17 | <0.05 | <0.2 | <0.01 | <1 | <0.05 | 3700 |
| LF-16 | 19-Dec-94 | <0.05 | <0.005 | <0.5 | 0.03 | 10 | 6 | <0.1 | 22 | <0.0002 | <0.1 | 17 | <0.2 | <0.2 | <0.01 | <1 | 0.08 | 3300 |
| LF-16 | 13-Mar-95 | <0.05 | <0.02 | <0.1 | 0.03 | 8.2 | 4.9 | <0.1 | 21 | <0.0002 | <0.1 | 16 | <0.05 | <0.2 | <0.04 | <0.5 | <0.05 | 3300 |
| LF-16 | 8-Jun-95 | <0.05 | 0.015 | <0.1 | 0.03 | 8.2 | 5.1 | <0.1 | 19 | <0.0002 | <0.1 | 15 | <0.05 | <0.2 | <0.01 | <0.5 | 0.06 | 2900 |
| LF-16 | 8-Sep-95 | <0.05 | 0.006 | 0.3 | 0.02 | 8.4 | 5.6 | <0.1 | 18 | <0.0002 | <0.1 | 15 | <0.02 | <0.2 | <0.01 | 0.7 | <0.05 | 2800 |
| LF-16 | 19-Dec-95 | <0.05 | <0.005 | <0.1 | 0.02 | 7.5 | 4.6 | <0.1 | 18 | <0.0002 | <0.1 | 13 | <0.005 | <0.2 | <0.01 | <0.5 | 0.07 | 2700 |
| LF-17 | 8-Dec-93 | <0.005 | 0.004 | 0.11 | <0.002 | <0.005 | 0.011 | <0.01 | <0.01 | <0.0003 | <0.01 | 0.04 | <0.04 | <0.02 | <0.004 | <0.1 | 0.008 | 0.1 |
| LF-17 | 15-Feb-94 | <0.005 | <0.002 | 0.05 | <0.002 | <0.005 | 0.009 | <0.01 | <0.01 | <0.0002 | <0.01 | 0.03 | <0.04 | <0.02 | <0.004 | <0.1 | 0.007 | 0.05 |
| LF-17 | 22-Sep-94 | <0.001 | <0.002 | 0.06 | <0.0005 | <0.001 | 0.005 | <0.002 | <0.002 | <0.0002 | 0.003 | 0.015 | <0.005 | 0.005 | <0.004 | <0.02 | 0.006 | 0.035 |
| LF-17 | 14-Mar-95 | <0.001 | <0.002 | 0.065 | <0.0005 | <0.001 | 0.006 | <0.002 | <0.002 | <0.002 | <0.002 | 0.022 | <0.002 | <0.004 | <0.004 | 0.01 | 0.003 | 0.056 |
| LF-17 | 6-Sep-95 | <0.001 | <0.002 | 0.057 | <0.0005 | <0.001 | 0.004 | <0.002 | <0.002 | <0.0002 | 0.002 | 0.017 | <0.002 | <0.004 | <0.004 | 0.01 | 0.004 | <0.01 |
| LF-F1 | 8-Dec-93 | <0.005 | 0.012 | 0.07 | <0.002 | 0.049 | 0.055 | <0.01 | <0.01 | <0.0003 | <0.01 | 0.07 | <0.04 | <0.02 | <0.04 | <0.1 | 0.008 | 13 |
| LF-F1 | 18-Feb-94 | <0.005 | 0.004 | <0.05 | <0.002 | 0.065 | 0.062 | <0.01 | <0.01 | <0.0002 | 0.02 | 0.07 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 20 |
| LF-F1 | 23-Sep-94 | 0.002 | 0.21 | 0.02 | <0.0005 | <0.005 | 0.2 | <0.002 | <0.002 | <0.0002 | 0.006 | 0.13 | <0.005 | <0.02 | <0.004 | <0.1 | <0.005 | 39 |
| LF-F1 | 15-Mar-95 | 0.001 | 0.092 | 0.021 | <0.0005 | 0.02 | 0.1 | <0.002 | <0.002 | <0.0002 | 0.009 | 0.05 | <0.002 | <0.02 | <0.004 | <0.05 | 0.001 | 14 |
| LF-F1 | 7-Sep-95 | <0.001 | 0.09 | 0.020 | <0.0005 | 0.038 | 0.11 | <0.002 | <0.002 | <0.0002 | 0.011 | 0.076 | <0.002 | <0.004 | <0.02 | <0.01 | <0.001 | 17 |
| MW-1 | 5-Nov-91 | <0.002 | 0.073 | 0.085 | <0.001 | <0.005 | 0.008 | <0.01 | <0.005 | <0.0003 | 0.02 | 0.032 | <0.005 | <0.02 | <0.004 | <0.1 | <0.005 | 2.7 |
| MW-1 | 27-Oct-92 | <0.005 | 0.084 | 0.09 | <0.002 | 0.031 | 0.052 | <0.01 | <0.01 | <0.0003 | <0.01 | 0.3 | <0.04 | <0.02 | <0.004 | <0.1 | 0.007 | 42 |
| MW-1 | 3-Mar-93 | <0.005 | 0.024 | 0.05 | <0.002 | 0.008 | 0.015 | <0.01 | <0.01 | <0.0003 | <0.01 | 0.11 | <0.04 | <0.02 | <0.004 | <0.1 | 0.006 | 16 |
| MW-1 | 25-May-93 | <0.005 | 0.064 | 0.06 | <0.002 | <0.005 | 0.008 | <0.01 | <0.01 | <0.0003 | 0.02 | 0.02 | <0.04 | <0.03 | <0.004 | <0.1 | 0.007 | 1.6 |
| MW-1 | 1-Sep-93 | <0.005 | 0.097 | 0.07 | <0.002 | <0.005 | 0.009 | <0.01 | <0.01 | <0.0003 | 0.02 | 0.02 | <0.04 | <0.02 | <0.004 | <0.1 | 0.005 | 2.3 |
| MW-1 | 26-Oct-93 | <0.005 | 0.03 | 0.08 | <0.002 | 0.009 | 0.012 | <0.01 | <0.01 | <0.0003 | <0.01 | 0.1 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 13 |
| MW-1 | 18-Feb-94 | <0.005 | 0.052 | 0.1 | <0.002 | <0.005 | 0.011 | <0.01 | <0.01 | <0.0002 | 0.01 | 0.02 | <0.04 | <0.02 | <0.004 | <0.1 | 0.007 | 2.8 |
| MW-1 | 22-Sep-94 | <0.001 | 0.029 | 0.08 | <0.0005 | 0.005 | 0.009 | <0.002 | <0.002 | <0.0002 | 0.007 | 0.051 | <0.005 | 0.017 | <0.01 | <0.02 | 0.01 | 5 |
| MW-1 | 14-Mar-95 | <0.001 | 0.033 | 0.092 | <0.0005 | <0.001 | 0.02 | <0.002 | 0.004 | <0.0002 | 0.013 | 0.019 | <0.002 | 0.079 | <0.004 | <0.01 | 0.009 | 1.8 |
| MW-1 | 5-Sep-95 | <0.001 | 0.12 | 0.12 | <0.0005 | 0.002 | 0.018 | 0.002 | <0.002 | <0.0002 | 0.018 | 0.014 | <0.005 | 0.029 | <0.01 | <0.01 | 0.019 | 1.4 |
| MW-2 | 5-Nov-92 | 0.008 | 2.1 | 0.013 | 0.002 | 7 | 0.42 | <0.01 | 0.093 | 0.0055 | 0.01 | 1.2 | <0.2 | <0.2 | <0.004 | <0.1 | <0.005 | 4200 |
| MW-2 | 27-Oct-92 | <0.05 | 1.5 | <0.5 | <0.02 | 10 | 1.5 | <0.1 | 0.2 | <0.0003 | <0.1 | 4.9 | <0.4 | <0.2 | 0.014 | <1 | <0.05 | 6000 |
| MW-2 (1) | 5-Mar-93 | <0.005 | 0.011 | <0.05 | <0.002 | 0.28 | 0.24 | <0.01 | 0.14 | <0.0003 | <0.1 | 1 | <0.04 | <0.02 | <0.01 | <0.1 | <0.005 | 290 |
| MW-2 | 25-May-93 | <0.05 | 1.8 | <0.05 | <0.02 | 5.2 | 0.85 | <0.1 | <0.1 | <0.0003 | <0.1 | 2.4 | <0.4 | <0.2 | <0.004 | <1 | <0.05 | 3000 |
| MW-2 | 1-Sep-93 | <0.05 | 2.1 | <0.05 | <0.02 | 5.2 | 0.77 | <0.1 | <0.1 | <0.0003 | <0.1 | 2.3 | <0.4 | <0.2 | <0.004 | <1 | <0.05 | 2700 |
| MW-2 | 26-Oct-93 | <0.05 | 4 | <0.5 | <0.02 | 5.1 | 0.73 | 0.3 | 0.3 | <0.0003 | <0.1 | 2.2 | <0.4 | <0.2 | <0.04 | <1 | <0.05 | 2600 |
| MW-2 | 18-Feb-94 | <0.05 | 1.5 | <0.5 | <0.02 | 4.6 | 0.62 | <0.1 | <0.1 | <0.0002 | <0.1 | 2 | <0.4 | <0.2 | <0.004 | <1 | <0.05 | 2600 |
| MW-2 | 22-Sep-94 | <0.05 | 2.1 | <0.05 | <0.02 | 5 | 0.65 | <0.1 | 0.1 | <0.0002 | <0.1 | 2 | <0.01 | <0.2 | <0.2 | <1 | <0.05 | 2300 |
| MW-2 | 14-Mar-95 | <0.05 | 1.4 | <0.1 | <0.02 | 4.1 | 0.52 | <0.1 | <0.1 | <0.0002 | <0.1 | 1.8 | <0.02 | <0.2 | <0.04 | <0.5 | <0.05 | 2200 |
| MW-2 | 5-Sep-95 | <0.05 | 1.3 | <0.1 | <0.02 | 5.2 | 0.55 | <0.1 | 0.2 | <0.0002 | <0.1 | 1.9 | 0.02 | <0.2 | <0.2 | <0.5 | <0.05 | 2300 |
| MW-3 | 5-Nov-92 | 0.005 | <0.002 | 0.017 | 0.001 | 0.57 | 0.42 | <0.01 | 0.28 | 0.0028 | <0.01 | 1.2 | 0.005 | <0.02 | <0.004 | <0.1 | <0.005 | 600 |
| MW-3 | 27-Oct-92 | 0.009 | 0.004 | <0.05 | 0.003 | 0.73 | 0.74 | <0.01 | 0.3 | <0.0003 | <0.01 | 2.6 | <0.04 | <0.02 | 0.011 | <0.1 | <0.005 | 730 |
| MW-3 (1) | 5-Mar-93 | <0.05 | 1.6 | <0.05 | <0.02 | 5.8 | 1 | <0.1 | 0.07 | <0.0003 | <0.1 | 3.1 | <0.4 | <0.2 | <0.02 | <1 | <0.05 | 3000 |
| MW-3 | 25-May-93 | <0.005 | <0.002 | <0.05 | <0.002 | 0.28 | 0.24 | <0.01 | 0.07 | <0.0003 | <0.01 | 0.83 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 260 |
| MW-3 | 1-Sep-93 | <0.005 | 0.011 | <0.05 | <0.002 | 0.32 | 0.3 | <0.01 | 0.2 | <0.0003 | <0.01 | 1.1 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 360 |
| MW-3 | 26-Oct-93 | <0.005 | <0.002 | <0.05 | 0.002 | 0.44 | 0.49 | <0.01 | 0.32 | <0.0003 | <0.01 | 1.7 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 560 |
| MW-3 | 18-Feb-94 | <0.005 | <0.002 | <0.05 | <0.002 | 0.22 | 0.25 | <0.01 | 0.19 | <0.0002 | <0.01 | 0.77 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 230 |
| MW-3 | 24-May-94 | <0.005 | <0.002 | <0.05 | <0.002 | 0.1 | 0.14 | <0.01 | 0.12 | <0.0002 | <0.01 | 0.42 | <0.003 | <0.03 | <0.004 | <0.1 | <0.005 | 120 |
| MW-3 | 22-Sep-94 | <0.005 | <0.002 | <0.05 | <0.002 | 0.21 | 0.25 | <0.01 | 0.2 | <0.0002 | <0.01 | 0.75 | <0.005 | <0.02 | <0.004 | <0.1 | <0.005 | 230 |
| MW-3 | 19-Dec-94 | <0.005 | <0.002 | <0.05 | <0.002 | 0.094 | 0.089 | <0.01 | 0.06 | <0.0002 | <0.01 | 0.36 | <0.002 | <0.02 | <0.004 | <0.1 | <0.005 | 100 |
| MW-3 | 14-Mar-95 | <0.005 | <0.002 | 0.02 | <0.002 | 0.13 | 0.14 | <0.01 | 0.1 | <0.0002 | <0.01 | 0.59 | <0.002 | <0.02 | <0.004 | <0.05 | <0.005 | 220 |

METALS DETECTED IN GROUND-WATER SAMPLES
 5050 COLISEUM WAY AND 750-50TH AVENUE
 OAKLAND, CALIFORNIA
 (Concentrations reported in parts per million [ppm])

| Sample ID | Sample Date | Silver | Arsenic | Barium | Beryllium | Cadmium | Cobalt | Chromium | Copper | Mercury | Molybdenum | Nickel | Lead | Antimony | Selenium | Thallium | Vanadium | Zinc |
|-----------|-------------|--------|---------|--------|-----------|---------|--------|----------|--------|---------|------------|--------|--------|----------|----------|----------|----------|--------|
| MW-3 | 7-Jun-95 | <0.005 | <0.002 | 0.02 | 0.002 | 0.33 | 0.47 | <0.01 | 0.32 | <0.0002 | <0.01 | 1.5 | <0.005 | <0.02 | <0.004 | <0.05 | <0.005 | 500 |
| MW-3 | 5-Sep-95 | <0.005 | <0.002 | 0.03 | 0.004 | 0.84 | 1.3 | <0.01 | 0.90 | <0.0002 | 0.01 | 3.8 | <0.002 | <0.02 | 0.004 | <0.05 | <0.005 | 1100 |
| MW-3 | 18-Dec-95 | <0.05 | <0.002 | 0.01 | <0.03 | 1.7 | 1.2 | <0.1 | 0.70 | <0.0002 | <0.1 | 3.9 | <0.002 | <0.2 | <0.004 | <0.5 | <0.05 | 1200 |
| MW-4 | 5-Nov-92 | <0.002 | 0.007 | 0.017 | <0.001 | <0.005 | <0.005 | <0.01 | <0.005 | 0.0027 | <0.01 | 0.012 | <0.005 | <0.02 | <0.004 | <0.1 | <0.005 | <0.005 |
| MW-4 | 27-Oct-92 | <0.005 | <0.002 | <0.05 | <0.002 | 0.006 | <0.005 | <0.01 | 0.02 | <0.0003 | <0.01 | 0.02 | <0.04 | <0.02 | 0.004 | <0.1 | 0.011 | 0.047 |
| MW-4 | 4-Mar-93 | <0.005 | <0.002 | <0.05 | <0.002 | <0.005 | <0.005 | <0.01 | <0.01 | <0.0003 | <0.01 | 0.02 | <0.04 | <0.02 | <0.004 | <0.1 | 0.01 | 0.03 |
| MW-4 | 25-May-93 | <0.005 | <0.002 | <0.05 | <0.002 | <0.005 | <0.005 | <0.01 | <0.01 | <0.0003 | <0.01 | <0.01 | <0.04 | <0.02 | <0.004 | <0.1 | 0.006 | 0.008 |
| MW-4 | 1-Sep-93 | <0.005 | 0.009 | <0.05 | <0.002 | <0.005 | <0.005 | <0.01 | <0.01 | <0.0003 | <0.01 | <0.01 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 0.016 |
| MW-4 | 26-Oct-93 | <0.005 | 0.003 | <0.05 | <0.002 | <0.005 | <0.005 | <0.01 | <0.01 | <0.0003 | <0.01 | <0.01 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 0.15 |
| MW-4 | 18-Feb-94 | <0.005 | <0.002 | <0.05 | <0.002 | <0.005 | <0.005 | <0.01 | <0.01 | <0.0002 | <0.01 | 0.02 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 0.17 |
| MW-4 | 22-Sep-94 | <0.001 | <0.002 | 0.02 | <0.0005 | <0.001 | <0.001 | <0.002 | <0.002 | <0.0002 | <0.002 | 0.025 | <0.005 | <0.005 | <0.004 | <0.02 | 0.004 | 0.039 |
| MW-4 | 14-Mar-95 | <0.001 | <0.002 | 0.02 | <0.0005 | <0.001 | <0.001 | <0.002 | <0.002 | <0.0002 | <0.002 | 0.02 | <0.002 | <0.004 | <0.004 | <0.01 | 0.004 | 0.05 |
| MW-4 | 6-Sep-95 | <0.001 | <0.002 | 0.019 | <0.0005 | <0.001 | <0.001 | <0.002 | <0.002 | <0.0002 | <0.002 | 0.016 | <0.002 | <0.004 | <0.004 | 0.01 | 0.004 | 0.02 |
| LF-1-FB | 26-Oct-93 | <0.005 | <0.002 | <0.05 | <0.002 | <0.005 | <0.005 | <0.01 | <0.01 | <0.0003 | <0.01 | <0.01 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 0.035 |
| LF-9-FB | 1-Nov-93 | <0.005 | <0.002 | <0.05 | <0.002 | <0.005 | <0.005 | <0.01 | <0.01 | <0.0003 | <0.01 | <0.01 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 0.038 |
| LF-17-FB | 8-Dec-93 | <0.005 | <0.002 | <0.05 | <0.002 | <0.005 | <0.005 | <0.01 | <0.01 | <0.0003 | <0.01 | <0.01 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 0.1 |
| LF-17-FB | 18-Feb-94 | <0.005 | <0.002 | <0.05 | <0.002 | <0.005 | <0.005 | <0.01 | <0.01 | <0.0002 | <0.01 | <0.01 | <0.04 | <0.02 | <0.004 | <0.1 | <0.005 | 0.05 |
| LF-3-BB | 25-May-94 | <0.001 | <0.002 | <0.01 | <0.0005 | <0.001 | <0.001 | <0.002 | <0.002 | <0.0002 | <0.002 | <0.002 | <0.003 | <0.005 | <0.004 | <0.02 | <0.001 | 0.015 |
| LF-15-BB | 8-Sep-95 | <0.001 | <0.002 | <0.002 | <0.0005 | <0.001 | <0.001 | <0.002 | <0.002 | <0.0002 | <0.002 | <0.002 | <0.002 | 0.005 | <0.004 | <0.01 | <0.001 | 0.02 |

Data entered by PCA 26-Jan-96. Data provided by FEK QA/QC by SXS

NOTES
 (1) Labeling errors in the field or laboratory may account for the anomalous data reported for wells MW-2 and MW-3.
 Analyses performed by American Environmental Network, Pleasant Hill, California
 FB/BB - Field Blank

Table 3
Gasoline Hydrocarbons and BTEX Detected in Ground-Water Samples
5050 Coliseum Way and 750 50th Avenue
Oakland, California
(concentrations reported in parts per million [ppm])

| Sample ID | Sample Date | TPHg | Benzene | Ethylbenzene | Toluene | Xylenes |
|--------------|-------------|-------|---------|--------------|---------|---------|
| LF-1 | 04-Nov-91 | <0.05 | <0.005 | <0.005 | <0.005 | <0.01 |
| LF-2 | 04-Nov-91 | <0.05 | <0.005 | <0.005 | <0.005 | <0.01 |
| LF-3 | 04-Nov-91 | <0.05 | <0.005 | <0.005 | <0.005 | <0.01 |
| LF-3 | 25-May-94 | <0.05 | NA | NA | NA | NA |
| LF-103 (dup) | 25-May-94 | <0.05 | NA | NA | NA | NA |
| LF-3 | 23-Sep-94 | <0.05 | NA | NA | NA | NA |
| LF-103 (dup) | 23-Sep-94 | <0.05 | NA | NA | NA | NA |
| LF-3 | 20-Dec-94 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.002 |
| LF-103 (dup) | 20-Dec-94 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.002 |
| LF-3 | 15-Mar-95 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.002 |
| LF-3 | 07-Sep-95 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.002 |
| LF-4 | 04-Nov-91 | 0.59 | <0.005 | <0.005 | <0.005 | <0.01 |
| LF-5 | 04-Nov-91 | NA | <0.005 | <0.005 | <0.005 | <0.01 |
| LF-6 | 04-Nov-91 | NA | <0.005 | <0.005 | <0.005 | <0.01 |
| LF-7 | 04-Nov-91 | NA | <0.005 | <0.005 | <0.005 | <0.01 |
| LF-8 | 28-Oct-93 | -1 | NA | NA | NA | NA |
| LF-8 | 24-May-94 | 0.7 | NA | NA | NA | NA |
| LF-8 | 23-Sep-94 | 0.4 | NA | NA | NA | NA |
| LF-8 | 20-Dec-94 | 0.4 | 0.003 | 0.0065 | 0.0009 | 0.004 |
| LF-8 | 15-Mar-95 | 0.3 | 0.002 | 0.003 | 0.0006 | 0.003 |
| LF-8 | 09-Jun-95 | 0.3 | 0.001 | 0.003 | 0.0006 | 0.003 |
| LF-8 | 07-Sep-95 | 0.4 | 0.001 | 0.003 | 0.0006 | 0.003 |
| LF-8 | 18-Dec-95 | 0.3 | 0.001 | 0.003 | 0.0006 | 0.003 |
| LF-9 | 01-Nov-93 | <0.1 | NA | NA | NA | NA |
| LF-109 (dup) | 01-Nov-93 | <0.1 | NA | NA | NA | NA |
| LF-9 | 23-Sep-94 | NA | <0.005 | <0.005 | <0.005 | <0.01 |
| LF-11 | 28-Oct-93 | <0.1 | NA | NA | NA | NA |
| LF-13 | 06-Dec-93 | 0.05 | <0.0005 | <0.0005 | <0.0005 | <0.002 |
| LF-113 (dup) | 06-Dec-93 | 0.06 | <0.0005 | <0.0005 | <0.0005 | <0.002 |
| LF-14 | 21-Sep-94 | 1.4 | NA | NA | NA | NA |
| LF-14 | 19-Dec-94 | 1 | 0.001 | <0.0005 | 0.002 | 0.012 |
| LF-14 | 15-Mar-95 | 1.2 | 0.001 | <0.0005 | 0.0006 | 0.015 |
| LF-14 | 08-Sep-95 | 1.4 | 0.0009 | <0.0005 | 0.0007 | 0.002 |
| MW-2 | 05-Nov-91 | NA | <0.0003 | <0.0003 | <0.0003 | <0.001 |
| LF-9-FB | 01-Nov-93 | <0.1 | NA | NA | NA | NA |
| LF-4-BB | 04-Nov-91 | <0.05 | <0.005 | <0.005 | <0.005 | <0.01 |
| LF-3-BB | 25-May-94 | <0.05 | NA | NA | NA | NA |
| Trip Blank | 26-Sep-94 | <0.05 | NA | NA | NA | NA |
| Trip Blank | 16-Mar-95 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.002 |

Data entered by PCA 26-Jan-96. Data proofed by jev QA/QC by SKS

NOTES

Samples analyzed by American Environmental Network, Pleasant Hill, California.

FB/BB - Field Blank

NA - not analyzed

TPHg - Total petroleum hydrocarbons as gasoline (EPA Method 5030)

Benzene, ethylbenzene, toluene, and xylenes (BTEX) analyzed using modified EPA Method 8015 or by EPA Method 8240

Table 4
Petroleum Hydrocarbons Detected in Ground-Water Samples
5050 Coliseum Way and 750 50th Avenue
Oakland, California
(concentrations reported in parts per million [ppm])

| Sample ID | Sample Date | TPHd | TPHo | TOG | Hydrocarbons |
|--------------|-------------|-------|------|------|--------------|
| LF-1 | 4-Nov-91 | 0.09 | NA | <0.5 | <0.5 |
| LF-2 | 4-Nov-91 | 0.3 | NA | NA | NA |
| LF-3 | 4-Nov-91 | 0.2 | NA | NA | NA |
| LF-3 | 25-May-94 | 0.3 | 0.4 | NA | NA |
| LF-103 (dup) | 25-May-94 | 0.3 | 0.4 | NA | NA |
| LF-3 | 23-Sep-94 | 1.2 | <0.2 | NA | NA |
| LF-103 (dup) | 23-Sep-94 | 1 | <0.2 | NA | NA |
| LF-3 | 20-Dec-94 | 0.89 | 0.2 | NA | NA |
| LF-103 (dup) | 20-Dec-94 | 0.88 | 0.2 | NA | NA |
| LF-3 | 15-Mar-95 | 0.8 | <0.2 | NA | NA |
| LF-3 | 7-Sep-95 | 0.62 | 0.4 | NA | NA |
| LF-4 | 4-Nov-91 | 0.1 | NA | NA | NA |
| LF-8 | 28-Oct-93 | 9.8 | NA | 2 | 1 |
| LF-8 | 24-May-94 | 4.5 | 0.6 | NA | NA |
| LF-8 | 23-Sep-94 | 6.7 | <0.2 | NA | NA |
| LF-8 | 20-Dec-94 | 5.6 | 0.4 | NA | NA |
| LF-8 | 15-Mar-95 | 4.1 | 0.2 | NA | NA |
| LF-8 | 9-Jun-95 | 3.8 | <0.2 | NA | NA |
| LF-8 | 7-Sep-95 | 4.7 | 0.3 | NA | NA |
| LF-8 | 18-Dec-95 | 3.9 | 0.4 | NA | NA |
| LF-9 | 1-Nov-93 | 0.2 | NA | <0.5 | <0.5 |
| LF-109 (dup) | 1-Nov-93 | 0.2 | NA | <0.5 | <0.5 |
| LF-11 | 28-Oct-93 | <0.05 | NA | <0.5 | <0.5 |
| LF-13 (*) | 6-Dec-93 | 0.5 | 0.4 | 1 | <0.5 |
| LF-113 (dup) | 6-Dec-93 | 0.6 | 0.4 | NA | NA |
| LF-14 | 21-Sep-94 | <0.3 | <0.2 | NA | NA |
| LF-14 | 19-Dec-94 | 0.65 | <0.2 | NA | NA |
| LF-14 | 15-Mar-95 | 0.3 | <0.2 | NA | NA |
| LF-14 | 8-Sep-95 | <0.05 | <0.2 | NA | NA |
| MW-2 | 4-Nov-91 | <0.05 | NA | NA | NA |
| LF-3-BB | 25-May-94 | <0.05 | <0.2 | NA | NA |

Data entered by PCA 26-Jan-96. Data proofed by Jac. QA/QC by S&S.

NOTES

Analyses performed by American Environmental Network, Pleasant Hill, CA

BB - Field Blank

NA - not analyzed

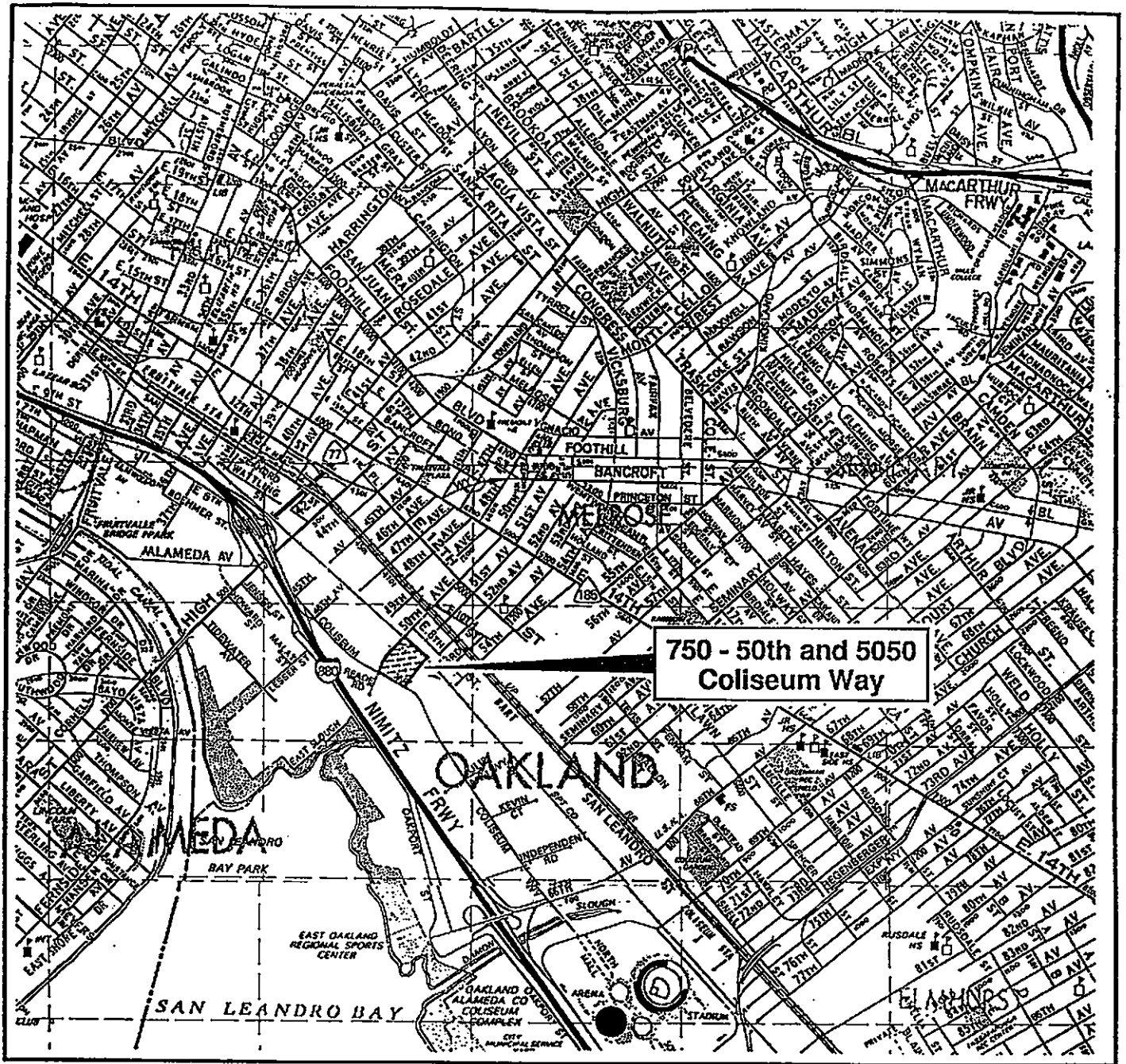
TPHd - Total petroleum hydrocarbons as diesel (EPA Method 3510)

TPHo - Total petroleum hydrocarbons as oil (EPA Method 3510)

TOG - Total oil and grease (Standard Method 5520bf)

Hydrocarbons - Total hydrocarbons (Standard Method 5520f)

(*) - Free product measured in February 1994.



SOURCE: Thomas Bros. map
Alameda and Contra Costa
1990

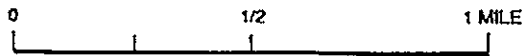


Figure 1 : SITE LOCATION MAP

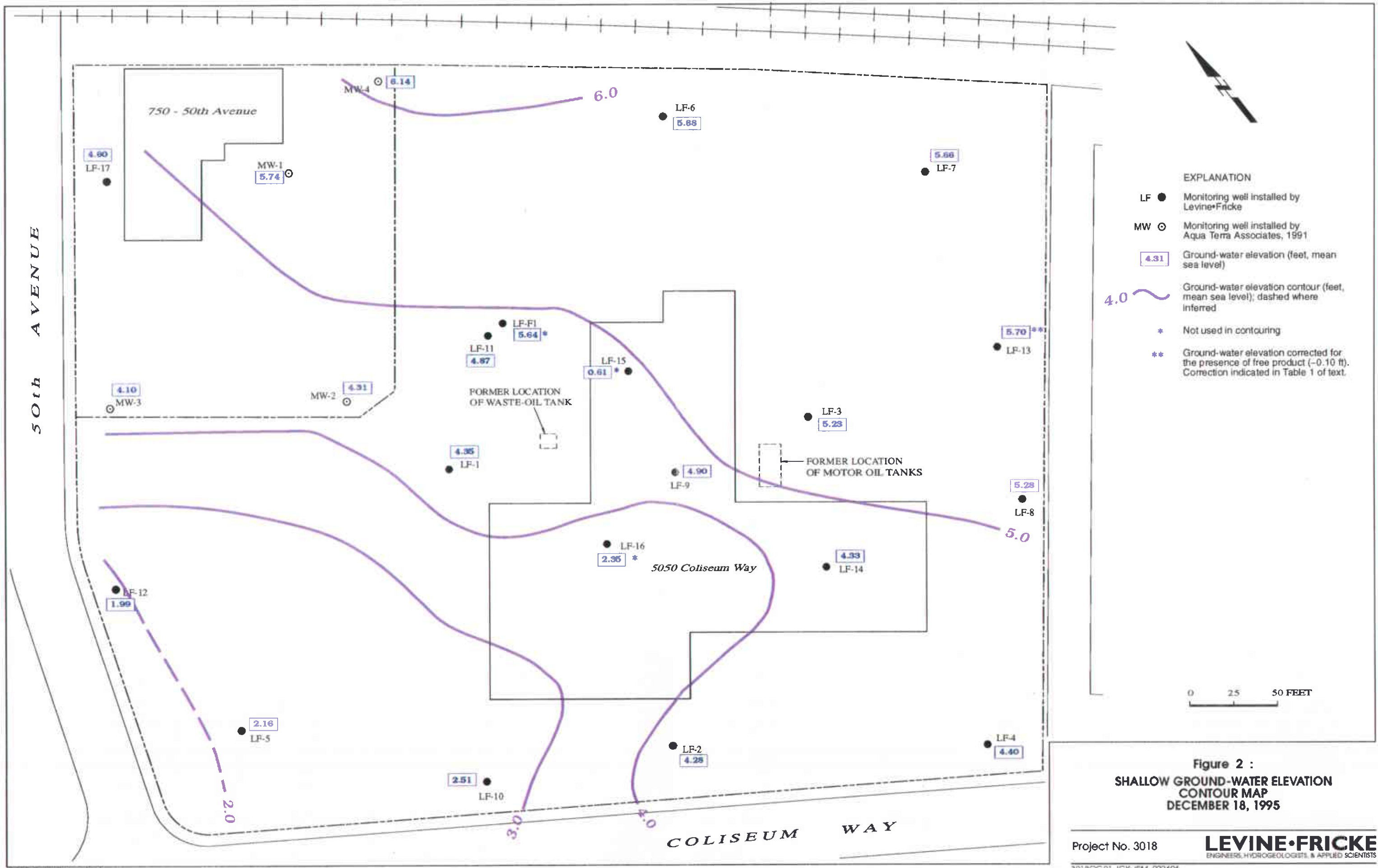


Figure 2 :
SHALLOW GROUND-WATER ELEVATION
CONTOUR MAP
DECEMBER 18, 1995

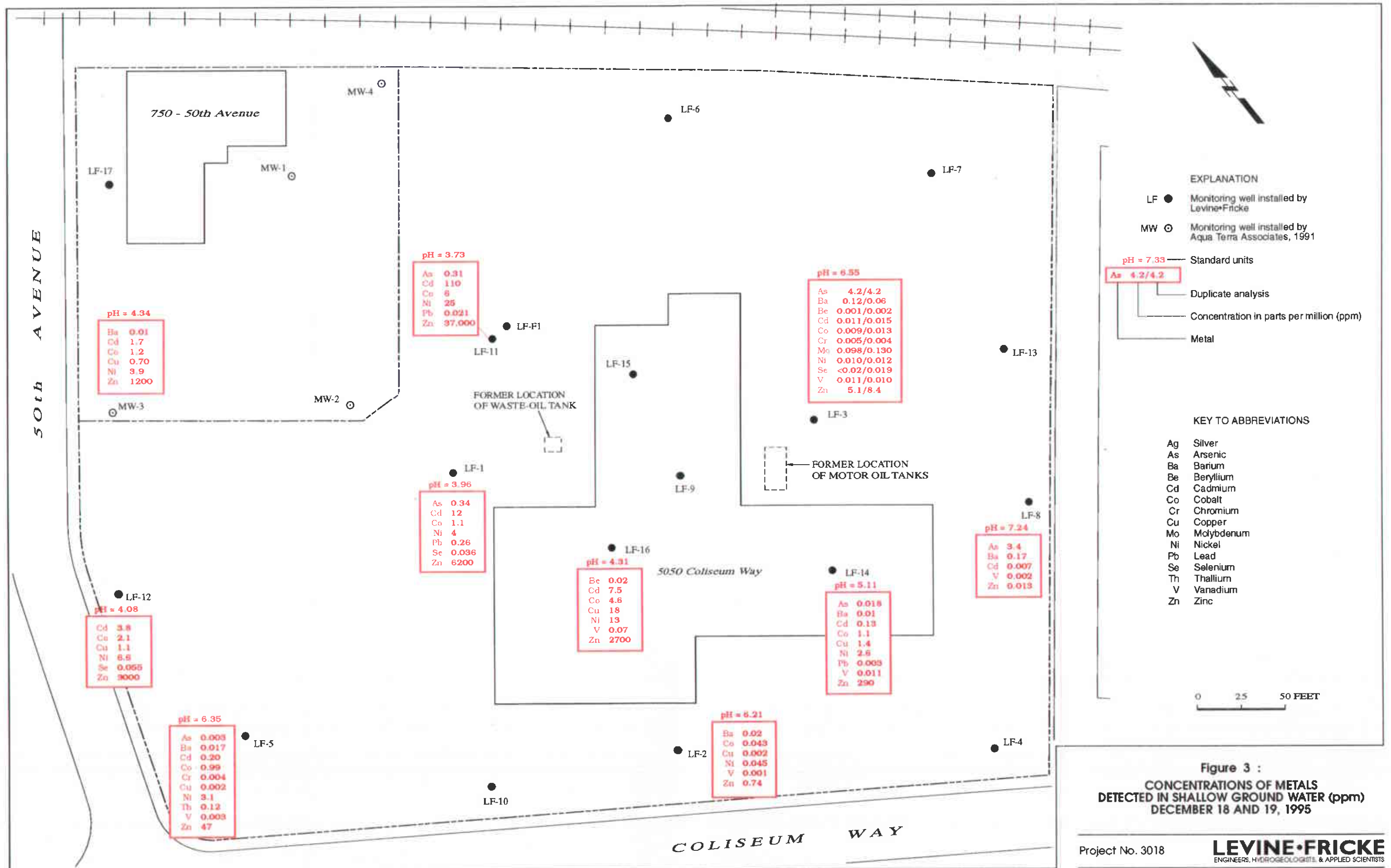


Figure 3 :
CONCENTRATIONS OF METALS
DETECTED IN SHALLOW GROUND WATER (ppm)
DECEMBER 18 AND 19, 1995

**APPENDIX A
LABORATORY CERTIFICATES**

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

LEVINE-FRICKE
1900 POWELL ST. 12TH FL.
EMERYVILLE, CA 94608

REPORT DATE: 01/12/96

DATE(S) SAMPLED: 12/18/95-12/19/95

DATE RECEIVED: 12/20/95

ATTN: JOHN KEELER
CLIENT PROJ. ID: 3018.95.20
CLIENT PROJ. NAME: VOLVO/GM
C.O.C. NUMBER: 19224

AEN WORK ORDER: 9512273

PROJECT SUMMARY:

On December 20, 1995, this laboratory received 11 water sample(s).

Client requested sample(s) be analyzed for inorganic and organic parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.


Larry Klein
Laboratory Director

LEVINE-FRICKE

SAMPLE ID: MW-3
 AEN LAB NO: 9512273-01
 AEN WORK ORDER: 9512273
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 12/18/95
 DATE RECEIVED: 12/20/95
 REPORT DATE: 01/12/96

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|----------------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 12/28/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 12/27/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag Silver | EPA 200.7 | ND | 0.05 | mg/L | 01/02/96 |
| As Arsenic | EPA 206.2 | ND | 0.002 | mg/L | 12/28/95 |
| Ba Barium | EPA 200.7 | 0.01 * | 0.01 | mg/L | 01/02/96 |
| Be Beryllium | EPA 200.7 | ND | 0.03 | mg/L | 01/02/96 |
| Cd Cadmium | EPA 200.7 | 1.7 * | 0.05 | mg/L | 01/02/96 |
| Co Cobalt | EPA 200.7 | 1.2 * | 0.05 | mg/L | 01/02/96 |
| Cr Chromium | EPA 200.7 | ND | 0.1 | mg/L | 01/02/96 |
| Cu Copper | EPA 200.7 | 0.7 * | 0.1 | mg/L | 01/02/96 |
| Hg Mercury | EPA 245.1 | ND | 0.0002 | mg/L | 12/27/95 |
| Mo Molybdenum | EPA 200.7 | ND | 0.1 | mg/L | 01/02/96 |
| Ni Nickel | EPA 200.7 | 3.9 * | 0.1 | mg/L | 01/02/96 |
| Pb Lead | EPA 239.2 | ND | 0.002 | mg/L | 12/28/95 |
| Sb Antimony | EPA 200.7 | ND | 0.2 | mg/L | 01/02/96 |
| Se Selenium | EPA 270.2 | ND | 0.004 | mg/L | 12/28/95 |
| Tl Thallium | EPA 200.7 | ND | 0.5 | mg/L | 01/02/96 |
| V Vanadium | EPA 200.7 | ND | 0.05 | mg/L | 01/02/96 |
| Zn Zinc | EPA 200.7 | 1,200 * | 0.1 | mg/L | 01/02/96 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-12
 AEN LAB NO: 9512273-02
 AEN WORK ORDER: 9512273
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 12/18/95
 DATE RECEIVED: 12/20/95
 REPORT DATE: 01/12/96

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-------------------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 12/28/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 12/27/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag | Silver EPA 200.7 | ND | 0.05 | mg/L | 01/02/96 |
| As | Arsenic EPA 206.2 | ND | 0.002 | mg/L | 12/28/95 |
| Ba | Barium EPA 200.7 | ND | 0.1 | mg/L | 01/02/96 |
| Be | Beryllium EPA 200.7 | ND | 0.03 | mg/L | 01/02/96 |
| Cd | Cadmium EPA 200.7 | 3.8 * | 0.05 | mg/L | 01/02/96 |
| Co | Cobalt EPA 200.7 | 2.1 * | 0.05 | mg/L | 01/02/96 |
| Cr | Chromium EPA 200.7 | ND | 0.1 | mg/L | 01/02/96 |
| Cu | Copper EPA 200.7 | 1.1 * | 0.1 | mg/L | 01/02/96 |
| Hg | Mercury EPA 245.1 | ND | 0.0002 | mg/L | 12/27/95 |
| Mo | Molybdenum EPA 200.7 | ND | 0.1 | mg/L | 01/02/96 |
| Ni | Nickel EPA 200.7 | 6.6 * | 0.1 | mg/L | 01/02/96 |
| Pb | Lead EPA 239.2 | ND | 0.005 | mg/L | 12/28/95 |
| Sb | Antimony EPA 200.7 | ND | 0.2 | mg/L | 01/02/96 |
| Se | Selenium EPA 270.2 | 0.055 * | 0.004 | mg/L | 12/28/95 |
| Tl | Thallium EPA 200.7 | ND | 0.5 | mg/L | 01/02/96 |
| V | Vanadium EPA 200.7 | ND | 0.05 | mg/L | 01/02/96 |
| Zn | Zinc EPA 200.7 | 3,000 * | 0.1 | mg/L | 01/02/96 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-5
 AEN LAB NO: 9512273-03
 AEN WORK ORDER: 9512273
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 12/18/95
 DATE RECEIVED: 12/20/95
 REPORT DATE: 01/12/96

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 12/28/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 12/27/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag Silver | EPA 200.7 | 0.003 * | 0.001 | mg/L | 01/03/96 |
| As Arsenic | EPA 206.2 | ND | 0.005 | mg/L | 12/28/95 |
| Ba Barium | EPA 200.7 | 0.017 * | 0.002 | mg/L | 01/03/96 |
| Be Beryllium | EPA 200.7 | ND | 0.0005 | mg/L | 01/03/96 |
| Cd Cadmium | EPA 200.7 | 0.20 * | 0.001 | mg/L | 01/03/96 |
| Co Cobalt | EPA 200.7 | 0.99 * | 0.001 | mg/L | 01/03/96 |
| Cr Chromium | EPA 200.7 | 0.004 * | 0.002 | mg/L | 01/03/96 |
| Cu Copper | EPA 200.7 | 0.002 * | 0.002 | mg/L | 01/03/96 |
| Hg Mercury | EPA 245.1 | ND | 0.0002 | mg/L | 12/27/95 |
| Mo Molybdenum | EPA 200.7 | ND | 0.002 | mg/L | 01/03/96 |
| Ni Nickel | EPA 200.7 | 3.1 * | 0.002 | mg/L | 01/03/96 |
| Pb Lead | EPA 239.2 | ND | 0.005 | mg/L | 12/28/95 |
| Sb Antimony | EPA 200.7 | ND | 0.004 | mg/L | 01/03/96 |
| Se Selenium | EPA 270.2 | ND | 0.01 | mg/L | 12/28/95 |
| Tl Thallium | EPA 200.7 | 0.12 * | 0.01 | mg/L | 01/03/96 |
| V Vanadium | EPA 200.7 | 0.003 * | 0.001 | mg/L | 01/03/96 |
| Zn Zinc | EPA 200.7 | 47 * | 0.01 | mg/L | 01/02/96 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-3
 AEN LAB NO: 9512273-04
 AEN WORK ORDER: 9512273
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 12/18/95
 DATE RECEIVED: 12/20/95
 REPORT DATE: 01/12/96

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|-----------|--------------------|-------------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 12/28/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 12/27/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag | Silver | EPA 200.7 | ND | 0.001 mg/L | 01/02/96 |
| As | Arsenic | EPA 206.2 | 4.2 * | 0.002 mg/L | 12/28/95 |
| Ba | Barium | EPA 200.7 | 0.06 * | 0.002 mg/L | 01/02/96 |
| Be | Beryllium | EPA 200.7 | 0.002 * | 0.0005 mg/L | 01/02/96 |
| Cd | Cadmium | EPA 200.7 | 0.015 * | 0.001 mg/L | 01/02/96 |
| Co | Cobalt | EPA 200.7 | 0.013 * | 0.001 mg/L | 01/02/96 |
| Cr | Chromium | EPA 200.7 | 0.004 * | 0.002 mg/L | 01/02/96 |
| Cu | Copper | EPA 200.7 | ND | 0.002 mg/L | 01/02/96 |
| Hg | Mercury | EPA 245.1 | ND | 0.0002 mg/L | 12/27/95 |
| Mo | Molybdenum | EPA 200.7 | 0.13 * | 0.002 mg/L | 01/02/96 |
| Ni | Nickel | EPA 200.7 | 0.012 * | 0.002 mg/L | 01/02/96 |
| Pb | Lead | EPA 239.2 | ND | 0.005 mg/L | 12/28/95 |
| Sb | Antimony | EPA 200.7 | ND | 0.004 mg/L | 01/02/96 |
| Se | Selenium | EPA 270.2 | 0.019 * | 0.004 mg/L | 12/28/95 |
| Tl | Thallium | EPA 200.7 | ND | 0.01 mg/L | 01/02/96 |
| V | Vanadium | EPA 200.7 | 0.010 * | 0.001 mg/L | 01/02/96 |
| Zn | Zinc | EPA 200.7 | 8.4 * | 0.005 mg/L | 01/02/96 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE - FRICKE

SAMPLE ID: LF-103
 AEN LAB NO: 9512273-05
 AEN WORK ORDER: 9512273
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 12/18/95
 DATE RECEIVED: 12/20/95
 REPORT DATE: 01/12/96

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|-----------|--------------------|-------------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 12/28/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 12/27/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag | Silver | EPA 200.7 | ND | 0.001 mg/L | 01/02/96 |
| As | Arsenic | EPA 206.2 | 4.2 * | 0.002 mg/L | 12/28/95 |
| Ba | Barium | EPA 200.7 | 0.12 * | 0.002 mg/L | 01/02/96 |
| Be | Beryllium | EPA 200.7 | 0.001 * | 0.0005 mg/L | 01/02/96 |
| Cd | Cadmium | EPA 200.7 | 0.011 * | 0.001 mg/L | 01/02/96 |
| Co | Cobalt | EPA 200.7 | 0.009 * | 0.001 mg/L | 01/02/96 |
| Cr | Chromium | EPA 200.7 | 0.005 * | 0.002 mg/L | 01/02/96 |
| Cu | Copper | EPA 200.7 | ND | 0.002 mg/L | 01/02/96 |
| Hg | Mercury | EPA 245.1 | ND | 0.0002 mg/L | 12/27/95 |
| Mo | Molybdenum | EPA 200.7 | 0.098 * | 0.002 mg/L | 01/02/96 |
| Ni | Nickel | EPA 200.7 | 0.010 * | 0.002 mg/L | 01/02/96 |
| Pb | Lead | EPA 239.2 | ND | 0.005 mg/L | 12/28/95 |
| Sb | Antimony | EPA 200.7 | ND | 0.004 mg/L | 01/02/96 |
| Se | Selenium | EPA 270.2 | ND | 0.02 mg/L | 12/28/95 |
| Tl | Thallium | EPA 200.7 | ND | 0.01 mg/L | 01/02/96 |
| V | Vanadium | EPA 200.7 | 0.011 * | 0.001 mg/L | 01/02/96 |
| Zn | Zinc | EPA 200.7 | 5.1 * | 0.005 mg/L | 01/02/96 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-8
 AEN LAB NO: 9512273-06
 AEN WORK ORDER: 9512273
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 12/18/95
 DATE RECEIVED: 12/20/95
 REPORT DATE: 01/12/96

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|---------|--------------------|------------|------------------|
| BTEX & Gasoline HCs | EPA 8020 | | | | |
| Benzene | 71-43-2 | 1 * | 0.5 ug/L | | 12/26/95 |
| Toluene | 108-88-3 | 0.6 * | 0.5 ug/L | | 12/26/95 |
| Ethylbenzene | 100-41-4 | 3 * | 0.5 ug/L | | 12/26/95 |
| Xylenes, Total | 1330-20-7 | 3 * | 2 ug/L | | 12/26/95 |
| Purgeable HCs as Gasoline | 5030/GCFID | 0.3 * | 0.05 mg/L | | 12/26/95 |
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 12/28/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 12/27/95 |
| #Extraction for TPH | EPA 3510 | - | | Extrn Date | 12/29/95 |
| TPH as Diesel | GC-FID | 3.9 * | 0.05 mg/L | | 12/30/95 |
| TPH as Oil | GC-FID | 0.4 * | 0.2 mg/L | | 12/30/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag Silver | EPA 200.7 | ND | 0.001 mg/L | | 01/02/96 |
| As Arsenic | EPA 206.2 | 3.4 * | 0.002 mg/L | | 12/28/95 |
| Ba Barium | EPA 200.7 | 0.17 * | 0.002 mg/L | | 01/02/96 |
| Be Beryllium | EPA 200.7 | ND | 0.0005 mg/L | | 01/02/96 |
| Cd Cadmium | EPA 200.7 | 0.007 * | 0.001 mg/L | | 01/02/96 |
| Co Cobalt | EPA 200.7 | ND | 0.001 mg/L | | 01/02/96 |
| Cr Chromium | EPA 200.7 | ND | 0.002 mg/L | | 01/02/96 |
| Cu Copper | EPA 200.7 | ND | 0.002 mg/L | | 01/02/96 |
| Hg Mercury | EPA 245.1 | ND | 0.0002 mg/L | | 12/27/95 |
| Mo Molybdenum | EPA 200.7 | ND | 0.002 mg/L | | 01/02/96 |
| Ni Nickel | EPA 200.7 | ND | 0.002 mg/L | | 01/02/96 |
| Pb Lead | EPA 239.2 | ND | 0.005 mg/L | | 12/28/95 |
| Sb Antimony | EPA 200.7 | ND | 0.004 mg/L | | 01/02/96 |
| Se Selenium | EPA 270.2 | ND | 0.02 mg/L | | 12/28/95 |
| Tl Thallium | EPA 200.7 | ND | 0.01 mg/L | | 01/02/96 |
| V Vanadium | EPA 200.7 | 0.002 * | 0.001 mg/L | | 01/02/96 |
| Zn Zinc | EPA 200.7 | 0.013 * | 0.005 mg/L | | 01/02/96 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-11
 AEN LAB NO: 9512273-07
 AEN WORK ORDER: 9512273
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 12/18/95
 DATE RECEIVED: 12/20/95
 REPORT DATE: 01/12/96

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|-----------|--------------------|-------------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 12/28/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 12/27/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag | Silver | EPA 200.7 | ND | 5 mg/L | 01/02/96 |
| As | Arsenic | EPA 206.2 | 0.31 * | 0.04 mg/L | 12/28/95 |
| Ba | Barium | EPA 200.7 | ND | 1 mg/L | 01/02/96 |
| Be | Beryllium | EPA 200.7 | ND | 3 mg/L | 01/02/96 |
| Cd | Cadmium | EPA 200.7 | 110 * | 5 mg/L | 01/02/96 |
| Co | Cobalt | EPA 200.7 | 6 * | 5 mg/L | 01/02/96 |
| Cr | Chromium | EPA 200.7 | ND | 10 mg/L | 01/02/96 |
| Cu | Copper | EPA 200.7 | ND | 10 mg/L | 01/02/96 |
| Hg | Mercury | EPA 245.1 | ND | 0.0002 mg/L | 12/27/95 |
| Mo | Molybdenum | EPA 200.7 | ND | 10 mg/L | 01/02/96 |
| Ni | Nickel | EPA 200.7 | 25 * | 10 mg/L | 01/02/96 |
| Pb | Lead | EPA 239.2 | 0.021 * | 0.002 mg/L | 12/28/95 |
| Sb | Antimony | EPA 200.7 | ND | 20 mg/L | 01/02/96 |
| Se | Selenium | EPA 270.2 | ND | 0.08 mg/L | 12/28/95 |
| Tl | Thallium | EPA 200.7 | ND | 50 mg/L | 01/02/96 |
| V | Vanadium | EPA 200.7 | ND | 5 mg/L | 01/02/96 |
| Zn | Zinc | EPA 200.7 | 37.000 * | 1 mg/L | 01/02/96 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE - FRICKE

SAMPLE ID: LF-14
 AEN LAB NO: 9512273-08
 AEN WORK ORDER: 9512273
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 12/18/95
 DATE RECEIVED: 12/20/95
 REPORT DATE: 01/12/96

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 12/28/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 12/27/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag Silver | EPA 200.7 | ND | 0.005 | mg/L | 01/02/96 |
| As Arsenic | EPA 206.2 | 0.018 * | 0.002 | mg/L | 12/28/95 |
| Ba Barium | EPA 200.7 | 0.01 * | 0.01 | mg/L | 01/02/96 |
| Be Beryllium | EPA 200.7 | ND | 0.003 | mg/L | 01/02/96 |
| Cd Cadmium | EPA 200.7 | 0.13 * | 0.005 | mg/L | 01/02/96 |
| Co Cobalt | EPA 200.7 | 1.1 * | 0.005 | mg/L | 01/02/96 |
| Cr Chromium | EPA 200.7 | ND | 0.01 | mg/L | 01/02/96 |
| Cu Copper | EPA 200.7 | 1.4 * | 0.01 | mg/L | 01/02/96 |
| Hg Mercury | EPA 245.1 | ND | 0.0002 | mg/L | 12/28/95 |
| Mo Molybdenum | EPA 200.7 | ND | 0.01 | mg/L | 01/02/96 |
| Ni Nickel | EPA 200.7 | 2.6 * | 0.01 | mg/L | 01/02/96 |
| Pb Lead | EPA 239.2 | 0.003 * | 0.002 | mg/L | 12/28/95 |
| Sb Antimony | EPA 200.7 | ND | 0.02 | mg/L | 01/02/96 |
| Se Selenium | EPA 270.2 | ND | 0.004 | mg/L | 12/28/95 |
| Tl Thallium | EPA 200.7 | ND | 0.05 | mg/L | 01/02/96 |
| V Vanadium | EPA 200.7 | 0.011 * | 0.005 | mg/L | 01/02/96 |
| Zn Zinc | EPA 200.7 | 290 * | 0.01 | mg/L | 01/02/96 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-16
 AEN LAB NO: 9512273.09
 AEN WORK ORDER: 9512273
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 12/19/95
 DATE RECEIVED: 12/20/95
 REPORT DATE: 01/12/96

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|-----------|--------------------|-------------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 12/28/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 12/27/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag | Silver | EPA 200.7 | ND | 0.05 mg/L | 01/02/96 |
| As | Arsenic | EPA 206.2 | ND | 0.005 mg/L | 12/28/95 |
| Ba | Barium | EPA 200.7 | ND | 0.1 mg/L | 01/02/96 |
| Be | Beryllium | EPA 200.7 | 0.02 * | 0.02 mg/L | 01/02/96 |
| Cd | Cadmium | EPA 200.7 | 7.5 * | 0.05 mg/L | 01/02/96 |
| Co | Cobalt | EPA 200.7 | 4.6 * | 0.05 mg/L | 01/02/96 |
| Cr | Chromium | EPA 200.7 | ND | 0.1 mg/L | 01/02/96 |
| Cu | Copper | EPA 200.7 | 18 * | 0.1 mg/L | 01/02/96 |
| Hg | Mercury | EPA 245.1 | ND | 0.0002 mg/L | 12/27/95 |
| Mo | Molybdenum | EPA 200.7 | ND | 0.1 mg/L | 01/02/96 |
| Ni | Nickel | EPA 200.7 | 13 * | 0.1 mg/L | 01/02/96 |
| Pb | Lead | EPA 239.2 | ND | 0.005 mg/L | 12/28/95 |
| Sb | Antimony | EPA 200.7 | ND | 0.2 mg/L | 01/02/96 |
| Se | Selenium | EPA 270.2 | ND | 0.01 mg/L | 12/28/95 |
| Tl | Thallium | EPA 200.7 | ND | 0.5 mg/L | 01/02/96 |
| V | Vanadium | EPA 200.7 | 0.07 * | 0.05 mg/L | 01/02/96 |
| Zn | Zinc | EPA 200.7 | 2,700 * | 0.3 mg/L | 01/02/96 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-2
 AEN LAB NO: 9512273-10
 AEN WORK ORDER: 9512273
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 12/19/95
 DATE RECEIVED: 12/20/95
 REPORT DATE: 01/12/96

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 12/28/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 12/27/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag Silver | EPA 200.7 | ND | 0.001 | mg/L | 01/02/96 |
| As Arsenic | EPA 206.2 | ND | 0.002 | mg/L | 12/28/95 |
| Ba Barium | EPA 200.7 | 0.020 * | 0.002 | mg/L | 01/02/96 |
| Be Beryllium | EPA 200.7 | ND | 0.0005 | mg/L | 01/02/96 |
| Cd Cadmium | EPA 200.7 | ND | 0.001 | mg/L | 01/02/96 |
| Co Cobalt | EPA 200.7 | 0.043 * | 0.001 | mg/L | 01/02/96 |
| Cr Chromium | EPA 200.7 | ND | 0.002 | mg/L | 01/02/96 |
| Cu Copper | EPA 200.7 | 0.002 * | 0.002 | mg/L | 01/02/96 |
| Hg Mercury | EPA 245.1 | ND | 0.0002 | mg/L | 12/27/95 |
| Mo Molybdenum | EPA 200.7 | ND | 0.002 | mg/L | 01/02/96 |
| Ni Nickel | EPA 200.7 | 0.045 * | 0.002 | mg/L | 01/02/96 |
| Pb Lead | EPA 239.2 | ND | 0.002 | mg/L | 12/28/95 |
| Sb Antimony | EPA 200.7 | ND | 0.004 | mg/L | 01/02/96 |
| Se Selenium | EPA 270.2 | ND | 0.004 | mg/L | 12/28/95 |
| Tl Thallium | EPA 200.7 | ND | 0.01 | mg/L | 01/02/96 |
| V Vanadium | EPA 200.7 | 0.001 * | 0.001 | mg/L | 01/02/96 |
| Zn Zinc | EPA 200.7 | 0.74 * | 0.005 | mg/L | 01/02/96 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-1
 AEN LAB NO: 9512273-11
 AEN WORK ORDER: 9512273
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 12/19/95
 DATE RECEIVED: 12/20/95
 REPORT DATE: 01/12/96

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|-----------|--------------------|-------------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 12/28/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 12/27/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag | Silver | EPA 200.7 | ND | 0.5 mg/L | 01/02/96 |
| As | Arsenic | EPA 206.2 | 0.34 * | 0.002 mg/L | 12/28/95 |
| Ba | Barium | EPA 200.7 | ND | 1 mg/L | 01/02/96 |
| Be | Beryllium | EPA 200.7 | ND | 0.3 mg/L | 01/02/96 |
| Cd | Cadmium | EPA 200.7 | 12 * | 0.5 mg/L | 01/02/96 |
| Co | Cobalt | EPA 200.7 | 1.1 * | 0.5 mg/L | 01/02/96 |
| Cr | Chromium | EPA 200.7 | ND | 1 mg/L | 01/02/96 |
| Cu | Copper | EPA 200.7 | ND | 1 mg/L | 01/02/96 |
| Hg | Mercury | EPA 245.1 | ND | 0.0002 mg/L | 12/27/95 |
| Mo | Molybdenum | EPA 200.7 | ND | 1 mg/L | 01/02/96 |
| Ni | Nickel | EPA 200.7 | 4 * | 1 mg/L | 01/02/96 |
| Pb | Lead | EPA 239.2 | 0.26 * | 0.002 mg/L | 12/28/95 |
| Sb | Antimony | EPA 200.7 | ND | 2 mg/L | 01/02/96 |
| Se | Selenium | EPA 270.2 | 0.036 * | 0.004 mg/L | 01/03/96 |
| Tl | Thallium | EPA 200.7 | ND | 5 mg/L | 01/02/96 |
| V | Vanadium | EPA 200.7 | ND | 0.5 mg/L | 01/02/96 |
| Zn | Zinc | EPA 200.7 | 6,200 * | 3 mg/L | 01/02/96 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9512273

CLIENT PROJECT ID: 3018.95.20

Quality Control Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9512273
AEN LAB NO: 1229-BLANK
DATE EXTRACTED: 12/29/95
DATE ANALYZED: 12/30/95
INSTRUMENT: C
MATRIX: WATER

Method Blank

| Analyte | Result (mg/L) | Reporting Limit (mg/L) |
|---------|------------------|------------------------------|
| Diesel | ND | 0.05 |

QUALITY CONTROL DATA
METHOD: EPA 3510 GCFID

AEN JOB NO: 9512273
DATE EXTRACTED: 12/29/95
INSTRUMENT: C
MATRIX: WATER

Surrogate Standard Recovery Summary

| Date Analyzed | Client Id. | Lab Id. | Percent Recovery n-Pentacosane |
|---------------|------------|---------|-----------------------------------|
| 12/30/95 | LF-8 | 06 | 109 |
| QC Limits: | | | 59-118 |

DATE EXTRACTED: 12/31/95
DATE ANALYZED: 01/02/96
SAMPLE SPIKED: DI WATER
INSTRUMENT: C

Method Spike Recovery Summary

| Analyte | Spike Added (mg/L) | Average Percent Recovery | RPD | QC Limits | |
|---------|-----------------------|--------------------------------|-----|---------------------|-----|
| | | | | Percent Recovery | RPD |
| Diesel | 2.03 | 72 | 1 | 58-107 | 15 |

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9512273
 AEN LAB NO: 1226-BLANK
 DATE ANALYZED: 12/26/95
 INSTRUMENT: F
 MATRIX: WATER

Method Blank

| | CAS # | Result (ug/L) | Reporting Limit (ug/L) |
|-----------------|-----------|------------------|------------------------------|
| Benzene | 71-43-2 | ND | 0.5 |
| Toluene | 108-88-3 | ND | 0.5 |
| Ethylbenzene | 100-41-4 | ND | 0.5 |
| Xylenes, Total | 1330-20-7 | ND | 2 |
| HCs as Gasoline | | ND mg/L | 0.05 mg/L |

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9512273
 INSTRUMENT: F
 MATRIX: WATER

Surrogate Standard Recovery Summary

| Date Analyzed | Client Id. | Lab Id. | Percent Recovery Fluorobenzene |
|---------------|------------|---------|--------------------------------|
| 12/26/95 | LF-8 | 06 | 91 |
| QC Limits: | | | 70-130 |

DATE ANALYZED: 12/26/95
 SAMPLE SPIKED: LCS
 INSTRUMENT: F

Laboratory Control Sample Recovery

| Analyte | Spike Added (ug/L) | Average Percent Recovery | RPD | QC Limits | |
|--------------------------|--------------------|--------------------------|-----|------------------|-----|
| | | | | Percent Recovery | RPD |
| Benzene | 17.9 | 80 | 13 | 60-120 | 20 |
| Toluene | 53.9 | 87 | 10 | 60-120 | 20 |
| Hydrocarbons as Gasoline | 500 | 98 | 5 | 60-120 | 20 |

QUALITY CONTROL DATA

AEN JOB NO: 9512273
 SAMPLE SPIKED: DI WATER
 DATE(S) ANALYZED: 12/27-30/95
 MATRIX: WATER

Method Blank and Spike Recovery Summary

| Analyte | Inst./ Method | Blank Result (mg/L) | Spike Added (mg/L) | MS Percent Recovery | RPD | QC Limits | |
|--------------|------------------|---------------------------|--------------------------|---------------------------|-----|---------------------|-----|
| | | | | | | Percent Recovery | RPD |
| Ag, Silver | ICP/200.7 | ND | 0.005 | 92 | 8 | 75-125 | 16 |
| As, Arsenic | 4000/206.2 | ND | 0.04 | 107 | 2 | 69-136 | 13 |
| Ba, Barium | ICP/200.7 | ND | 0.2 | 109 | <1 | 75-125 | 16 |
| Cd, Cadmium | ICP/200.7 | ND | 0.01 | 110 | 3 | 75-125 | 16 |
| Cr, Chromium | ICP/200.7 | ND | 0.02 | 116 | 2 | 75-125 | 16 |
| Cu, Copper | ICP/200.7 | ND | 0.025 | 111 | <1 | 75-125 | 16 |
| Hg, Mercury | Hg/245.1 | ND | 2.0 ug/L | 106 | <1 | 89-121 | 10 |
| Ni, Nickel | ICP/200.7 | ND | 0.05 | 113 | 2 | 75-125 | 16 |
| Pb, Lead | 4000/239.2 | ND | 0.02 | 102 | 2 | 75-125 | 14 |
| Se, Selenium | 4000/270.2 | ND | 0.08 | 107 | 3 | 75-115 | 13 |
| Zn, Zinc | ICP/200.7 | ND | 0.05 | 112 | 1 | 75-125 | 16 |

END OF REPORT

R-7, S-E

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9512273

| | | | |
|-------------------------|--------------------------------|----------------|-------------------------|
| Project No.: 3018.95.20 | Field Logbook No.: | Date: 12/19/95 | Serial No.: No 19224 |
| Project Name: VOLVO/GM | Project Location: OAKLAND, CA. | | |

| SAMPLES | | | | | ANALYSES | | | | | | | | SAMPLERS: JCK JGB | | | | | |
|------------------|----------|-------|----------------|--------------------|-------------|-----------------|---------|------------|--|--|--|--|----------------------|---------|--|--|------|------------------------------------|
| SAMPLE NO. | DATE | TIME | LAB SAMPLE NO. | NO. OF CON-TAINERS | SAMPLE TYPE | | | | | | | | | REMARKS | | | | |
| | | | | | | TITLE 22 METALS | TPH-d+0 | TPH-S BTEX | | | | | | | | | HOLD | RUSH |
| MW-3 | 12/18/95 | 11:00 | 01A | | | X | | | | | | | | | | | | STD TAT |
| LF-12 | | 1340 | 02A | | | X | | | | | | | | | | | | |
| LF-10 | | | | | | | | | | | | | | | | | | |
| LF-5 | | 1405 | 03A | | | X | | | | | | | | | | | | RESULTS TO JOHN KEELER |
| LF-3 | | 1440 | 04A | | | X | | | | | | | | | | | | |
| LF-103 | | 1540 | 05A | | | X | | | | | | | | | | | | BASIN PLAN DETECTION LIMITS |
| LF-8 | | 1520 | 06A-F | | | X | X | X | | | | | | | | | | |
| LF-11 | | 1605 | 07A | | | X | | | | | | | | | | | | |
| LF-14 | | 1630 | 08A | | | X | | | | | | | | | | | | SAMPLES FIELD FILTERED + PRESERVED |
| LF-16 | 12/19/95 | 1145 | 09A | | | X | | | | | | | | | | | | |
| LF-2 | | 1240 | 10A | | | X | | | | | | | | | | | | |
| LF-1 | | 1245 | 11A | | | X | | | | | | | | | | | | |

| | | | | | |
|------------------------------|----------|-------|--------------------------|----------|-------|
| RELINQUISHED BY: (Signature) | DATE | TIME | RECEIVED BY: (Signature) | DATE | TIME |
| <i>[Signature]</i> | 12/20/95 | 11:05 | <i>[Signature]</i> | 12/20/95 | 11:05 |
| RELINQUISHED BY: (Signature) | DATE | TIME | RECEIVED BY: (Signature) | DATE | TIME |
| <i>[Signature]</i> | 12/20/95 | 12:20 | <i>[Signature]</i> | 12-20-95 | 12:20 |
| RELINQUISHED BY: (Signature) | DATE | TIME | RECEIVED BY: (Signature) | DATE | TIME |
| | | | | | |
| METHOD OF SHIPMENT: | DATE | TIME | LAB COMMENTS: | | |
| | | | | | |

| | |
|---|--|
| Sample Collector: LEVINE-FRICKE 1900 Powell Street, 12th Floor Emeryville, California 94608 (510) 652-4500 | Analytical Laboratory: AEN PLEASANT HILL, CA. |
|---|--|

APPENDIX B
WATER-QUALITY SAMPLING FORMS

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: VOLVO GM
 Sample Location: OAKLAND
 Samplers Name: JGB JUC
 Sampling Plan Prepared By: JUC
 Sampling Method: _____

Date: 12-19-95
 Sample No.: LF-1
 FB: LF-1 FB JS
 DUP: _____

- | | |
|---|---|
| <input type="checkbox"/> Centrifugal Pump | <input type="checkbox"/> Disposable Bailer |
| <input type="checkbox"/> Submersible Pump | <input checked="" type="checkbox"/> Teflon Bailer |
| <input checked="" type="checkbox"/> Hand Bail | <input type="checkbox"/> _____ (Other) |

Analyses Requested
TITLE 22 METALS
 Number and Types of Bottle used
1 # AT PLASTIC w/HNO₃
(FIELD FILTERED)

| | |
|---|---|
| $\begin{array}{r} 1649 \\ 325 \\ \hline 1324 \\ 16 \\ \hline 7944 \\ 3240 \\ \hline 1184 \end{array}$ | $\begin{array}{r} 1324 \\ 2 \\ \hline 2648 \\ 325 \\ \hline 5898 \end{array}$ |
| 80% DTW <u>5.90</u> | |

Method of Shipment
AEN
 (Lab Name) Courier _____
 Hand Deliver: _____

Well Number: LF-1 Well Diameter: _____
 Depth of Water: 3.25 2" (0.16 Gallon/Feet)
 Well Depth: 16.49 4" (0.65 Gallon/Feet)
 Height of Water Column: 13.24 5" (1.02 Gallon/Feet)
 Volume in Well: 2.1184 ~ 2.25 6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temparture °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|-------------|----------------|-------------------------|-------------------|---------------|-------------|--------------|-----------------|-------------------------|
| <u>1102</u> | | | | | | | | <u>START</u> |
| <u>1105</u> | | <u>2.25</u> | | <u>20.7</u> | <u>5.12</u> | <u>8200</u> | | <u>SL. TURBID</u> |
| <u>1108</u> | | <u>4.50</u> | | <u>21.1</u> | <u>4.99</u> | <u>8970</u> | | <u>CLEAR</u> |
| <u>1112</u> | | <u>6.75</u> | | <u>21.2</u> | <u>4.66</u> | <u>13360</u> | | <u>CLEAR</u> |
| <u>1116</u> | | <u>9.00</u> | | <u>21.2</u> | <u>4.17</u> | <u>21400</u> | | <u>CLEAR</u> |
| <u>1122</u> | | <u>11.25</u> | | <u>20.9</u> | <u>3.96</u> | <u>14100</u> | | <u>CLEAR, dewatered</u> |
| <u>1241</u> | <u>5.81</u> | | | | | | | |
| <u>1245</u> | | | | | | | | <u>LF-1</u> |
| | | | | | | | | |
| | | | | | | | | |

Net Depth: _____
 Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: VOLVO GM
 Sample Location: OAKLAND
 Samplers Name: JGB JCK
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 12-19-95
 Sample No.: LF-2
 FB: _____
 DUP: _____

- Centrifugal Pump Disposable Bailer
 Submersible Pump Teflon Bailer
 Hand Bail _____
 (Other)

Analyses Requested

TITLE 22 METALS

Number and Types of Bottle used

1 LIT PLASTIC W/HND₃

1475

| | |
|-------|------|
| 552 | 923 |
| 923 | 2 |
| 16 | 1846 |
| 5538 | 552 |
| 9230 | 7366 |
| 14768 | |

80% DTW 7.37

Method of Shipment

AEN
 (Lab Name)

- Courier _____
 Hand Deliver: _____

Well Number: LF-2
 Depth of Water: 5.52
 Well Depth: 14.75
 Height of Water Column: 9.23
 Volume in Well: 1.4768 ~ 1.5

- Well Diameter:
 2" (0.16 Gallon/Feet)
 4" (0.65 Gallon/Feet)
 5" (1.02 Gallon/Feet)
 6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|------|----------------|-------------------------|-------------------|----------------|---------|-------------|-----------------|-------------|
| 1035 | | | | | | | | START |
| 1037 | | 1.5 | | 20.3 | 6.30 | 3420 | | SL TURBID |
| 1039 | | 3.0 | | 20.8 | 6.27 | 3680 | | CLEAR |
| 1041 | | 4.5 | | 21.7 | 6.21 | 3700 | | CLEAR, STOP |
| 1235 | 5.92 | | | | | | | |
| 1240 | | | | | | | | LF-2 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Inlet Depth: _____

Comments: _____
 (Recommended Method For Purging Well)

WTRQTY SAMPLING INFO 22JUL94RYL

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: VULVO GM
 Sample Location: OAKLAND
 Samplers Name: JGB JCK
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 12-18-95
 Sample No.: LF-3
 FB: _____
 DUP: LF-103

- | | |
|---|---|
| <input type="checkbox"/> Centrifugal Pump | <input type="checkbox"/> Disposable Bailer |
| <input type="checkbox"/> Submersible Pump | <input checked="" type="checkbox"/> Teflon Bailer |
| <input checked="" type="checkbox"/> Hand Bail | <input type="checkbox"/> _____ (Other) |

Analyses Requested
TITLE 22 METALS

Number and Types of Bottle used
2 QT PLASTIC WITH NO₃
(FIELD FILTERE)

| | |
|--|--|
| $ \begin{array}{r} 1493 \\ \underline{575} \\ 918 \\ \underline{16} \\ 5508 \\ 9180 \\ \hline 14688 \end{array} $ | $ \begin{array}{r} 918 \\ \underline{2} \\ 1836 \\ \underline{575} \\ 7586 \end{array} $ |
| 80% DTW <u>7.59</u> | |

Method of Shipment
AEN
 (Lab Name) Courier _____
 Hand Deliver: _____

Well Number: LF-3 Well Diameter: _____
 Depth of Water: 5.75 2" (0.16 Gallon/Feet)
 Well Depth: 14.93 4" (0.65 Gallon/Feet)
 Height of Water Column: 9.18 5" (1.02 Gallon/Feet)
 Volume in Well: 1.4688 ~ 1.5 6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temparture °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|------|----------------|-------------------------|-------------------|---------------|---------|-------------|-----------------|---------|
| 1426 | | | | | | | | START |
| 1428 | | 1.5 | | 20.1 | 6.69 | 4150 | | CLEAR |
| 1430 | | 3.0 | | 21.6 | 6.57 | 4190 | | CLEAR |
| 1432 | | 4.5 | | 21.3 | 6.55 | 4200 | | CLEAR |
| 1434 | 6.35 | | | | | | | |
| 1440 | | | | | | | | LF-3 |
| 1440 | | | | | | | | LF-103 |
| | | | | | | | | |
| | | | | | | | | |

Net Depth: _____
 Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: VOLVO GM
 Sample Location: OAKLAND
 Samplers Name: JGB JCK
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 12-18-95
 Sample No.: LF-8
 FB: _____
 DUP: _____

- | | |
|---|--|
| <input type="checkbox"/> Centrifugal Pump | <input type="checkbox"/> Disposable Bailer |
| <input type="checkbox"/> Submersible Pump | <input type="checkbox"/> Teflon Bailer |
| <input type="checkbox"/> Hand Bail | <input type="checkbox"/> _____ (Other) |

Analyses Requested: TITLE 22 METALS
TPH g / BTEX
TPH d / TPH o

Number and Types of Bottle used *
1 QT PLASTIC WITH HNO₃
3 voa with HCl
2 amber with HCl

| | |
|---------------------|------------|
| 14.65 | 1804 |
| 5.63 | 563 |
| <u>9.02</u> | <u>743</u> |
| 65 | |
| 4510 | |
| 54120 | |
| <u>5863</u> | |
| 80% DTW <u>7.43</u> | |

Method of Shipment: AETN
 (Lab Name)

Courier _____
 Hand Deliver: _____

Well Number: LF-8 Well Diameter: _____
 Depth of Water: 5.63 2" (0.16 Gallon/Feet)
 Well Depth: 14.65 4" (0.65 Gallon/Feet)
 Height of Water Column: 9.02 5" (1.02 Gallon/Feet)
 Volume in Well: 5.863 ~ 6 6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Tempature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|--------------|----------------|-------------------------|-------------------|--------------|-------------|-------------|-----------------|-------------------|
| <u>8:27</u> | | | | | | | | <u>START</u> |
| <u>8:59</u> | | <u>0</u> | | <u>17.6</u> | <u>7.05</u> | <u>3240</u> | | <u>SL. TURBID</u> |
| <u>9:11</u> | | <u>12</u> | | <u>19.0</u> | <u>7.30</u> | <u>2820</u> | | <u>SL. TURBID</u> |
| <u>9:53</u> | | <u>18</u> | | <u>18.7</u> | <u>7.24</u> | <u>2700</u> | | <u>CLEAR, OFF</u> |
| <u>10:18</u> | <u>7.40</u> | | | | | | | |
| <u>10:52</u> | | | | | | | | <u>LF-8</u> |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Net Depth: _____
 Comments: * FIELD FILTERED
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: VOLVO GM
 Sample Location: OAKLAND
 Samplers Name: JGB JCK
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 12-18-95
 Sample No.: LF-11
 FB: _____
 DUP: _____

- | | |
|--|---|
| <input checked="" type="checkbox"/> Centrifugal Pump | <input type="checkbox"/> Disposable Bailer |
| <input type="checkbox"/> Submersible Pump | <input checked="" type="checkbox"/> Teflon Bailer |
| <input type="checkbox"/> Hand Bail | <input type="checkbox"/> _____ (Other) |

Analyses Requested

TITLE 22 METALS

Number and Types of Bottle used

1 qt PLASTIC W/HALO3
(FIELD FILTERE)

~~19.81~~
~~20.81~~
 4.20

 215.81 1581
 3 65 2

 12905 3168
 94860 420

 107765 7368

 80% DTW 7.37

Method of Shipment

AEN
 (Lab Name)

- Courier
 Hand Deliver

Well Number: LF-11
 Depth of Water: 4.20
 Well Depth: 20.01
 Height of Water Column: 15.81
 Volume in Well: 10.7765 ~ 11

- Well Diameter: _____
- 2" (0.16 Gallon/Feet)
 4" (0.65 Gallon/Feet)
 5" (1.02 Gallon/Feet)
 6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|------|----------------|-------------------------|-------------------|----------------|---------|-------------|-----------------|------------------------|
| 1328 | | | | | | | | START |
| 1331 | | 11 | | 20.7 | 3.74 | 29800 | | CLEAR |
| 1330 | | 15 | | | | | | dewatered, off |
| 1338 | 15.10 | | | | | | | START |
| 1341 | | 22 | | 21.9 | 3.73 | 45100 | | CLEAR - dewatered, off |
| 1605 | 16.30 | | | | | | | LF-11 sampled @ 2 hrs |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |

Inlet Depth: _____

Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: VOLVO GM
 Sample Location: OAKLAND
 Samplers Name: JGB JCK
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 12-18-95
 Sample No.: LF-12
 FB: _____
 DUP: _____

- Centrifugal Pump
- Submersible Pump
- Hand Bail
- Disposable Bailer
- Teflon Bailer
- _____ (Other)

Analyses Requested: TITLE 22 METALS
 Number and Types of Bottle used: 1 BT PLASTIC w/HNO₃
(FIELD FILTERED)

3.61
14.70

| | |
|--|--|
| $\begin{array}{r} 5 \ 6.71 \\ 4 \ 7.99 \\ \hline 1 \ 65 \\ 1 \ 3995 \\ 47940 \\ \hline 5.1935 \end{array}$ | $\begin{array}{r} 799 \\ 2 \\ \hline 1598 \\ 671 \\ \hline 8308 \end{array}$ |
|--|--|

80% DTW 8.31

Method of Shipment: AEN
 (Lab Name) Courier _____
 Hand Deliver: _____

Well Number: LF-12 Well Diameter: _____
 Depth of Water: 6.71 2" (0.16 Gallon/Feet)
 Well Depth: 14.70 4" (0.65 Gallon/Feet)
 Height of Water Column: 7.99 5" (1.02 Gallon/Feet)
 Volume in Well: 5.1936 ~ 5.25 6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|-------------|----------------|-------------------------|-------------------|----------------|-------------|--------------|-----------------|-------------------------------|
| <u>1134</u> | | | | | | | | <u>START</u> |
| <u>1131</u> | | <u>5.50</u> | | <u>18.9</u> | <u>4.23</u> | <u>7080</u> | | <u>CLEAR - dewatered, off</u> |
| <u>1141</u> | <u>10.10</u> | | | | | | | <u>START</u> |
| <u>1144</u> | | <u>12.0</u> | | <u>19.4</u> | <u>4.08</u> | <u>11060</u> | | <u>CLEAR - dewatered, off</u> |
| <u>1148</u> | <u>7.42</u> | | | | | | | |
| <u>1310</u> | | | | | | | | <u>SAMPLE LF-12</u> |
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Net Depth: _____
 Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: VOLVO GM
 Sample Location: OAKLAND
 Samplers Name: JGB JCK
 Sampling Plan Prepared By: JGB
 Sampling Method: _____

Date: 12-19-95
 Sample No.: LF-16
 FB: _____
 DUP: _____

- | | |
|---|---|
| <input type="checkbox"/> Centrifugal Pump | <input type="checkbox"/> Disposable Bailer |
| <input type="checkbox"/> Submersible Pump | <input checked="" type="checkbox"/> Teflon Bailer |
| <input checked="" type="checkbox"/> Hand Bail | <input type="checkbox"/> _____ (Other) |

Analyses Requested: TITLE 22 METALS
 Number and Types of Bottle used: 1 QT PLASTIC w/HNO₃
(FIELD FILTERED)

```

      4
    248'0
      808
    -----
    31642
      16
    -----
    19852
    16420
    -----
    20272

    1642
      2
    -----
    3284
    808
    -----
    1136

    80% DTW 11.36
    
```

Method of Shipment

AEN Courier
 (Lab Name) Hand Deliver:

Well Number: LF-16 Well Diameter: _____
 Depth of Water: 8.08 2" (0.16 Gallon/Feet)
 Well Depth: 24.50 4" (0.65 Gallon/Feet)
 Height of Water Column: 16.42 5" (1.02 Gallon/Feet)
 Volume in Well: 2.0272 ~ 2.25 6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|------|----------------|-------------------------|-------------------|----------------|---------|-------------|-----------------|--------------|
| 1025 | | | | | | | | START |
| 1028 | | 2.25 | | 19.4 | 4.37 | 14100 | | CLEAR |
| 1031 | | 4.50 | | 19.3 | 9.36 | 14780 | | SL. TURBID |
| 1034 | | 6.75 | | 19.3 | 4.31 | 15410 | | TURBID, STOP |
| 1138 | 11.30 | | | | | | | |
| 1145 | | | | | | | | LF-16 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |

Jet Depth: _____
 Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: VOLVO GM
 Sample Location: OAKLAND
 Samplers Name: JGB JCK
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 12-18-95
 Sample No.: MW-3
 FB: _____
 DUP: _____

- | | |
|---|---|
| <input type="checkbox"/> Centrifugal Pump | <input type="checkbox"/> Disposable Bailer |
| <input type="checkbox"/> Submersible Pump | <input checked="" type="checkbox"/> Teflon Bailer |
| <input checked="" type="checkbox"/> Hand Bail | <input type="checkbox"/> _____ (Other) |

Analyses Requested

Number and Types of Bottle used

TITLE 22 METALS

1 QT PLASTIC W/HND
(FIELD FILTERED)

| | |
|------------|------------|
| 69 | |
| 27010 | |
| 575 | |
| <u> 3</u> | |
| 2125 | |
| 16 | |
| <u> 1</u> | |
| 12750 | |
| 21250 | |
| <u> 0</u> | |
| 3400 | |
| | 2125 |
| | <u> 2</u> |
| | 4250 |
| | 575 |
| | <u> 0</u> |
| | 10.00 |

80% DTW 10.00

Method of Shipment

AEN

(Lab Name)

Courier

Hand Deliver:

Well Number: MW-3
 Depth of Water: 5.75
 Well Depth: 27.00
 Height of Water Column: 21.25
 Volume in Well: 3.400 ~ 3.5

Well Diameter: _____
 2" (0.16 Gallon/Feet)
 4" (0.65 Gallon/Feet)
 5" (1.02 Gallon/Feet)
 6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|------|----------------|-------------------------|-------------------|----------------|---------|-------------|-----------------|---------------|
| 1045 | | | | | | | | start bailing |
| 1048 | | 3.5 | | 18.6 | 4.19 | 5600 | | sl. turbid |
| 1051 | | 7.0 | | 18.7 | 4.31 | 6390 | | sl. turbid |
| 1054 | | 10.5 | | 18.7 | 4.34 | 6630 | | sl. turbid |
| 1056 | 6.10 | | | | | | | |
| 1100 | | | | | | | | MW-3 |
| | | | | | | | | |
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Inlet Depth: _____

Comments:

(Recommended Method For Purging Well)