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April 30, 1996 LF-3018.95-21

Mr. Dale Klettke
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 January 1 to March 31, 1996, 5050 Coliseum Way and 750-50th Avenue, Oakland, California

Dear Mr. Klettke:

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 22 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.

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Quarterly Ground-Water Monitoring Report for the Period from January 1 to March 31,1996
5050 Coliseum Way and 750-50th Avenue
Oakland, California
April 30, 1996
3018.95-21

STID 584

Prepared for
Volvo GM Heavy Truck Corporation
7900 National Service Road
P.O. Box 26115
Greensboro, North Carolina 27402-6115

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APPENDICES

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)

4/29/96
Date

1.0 INTRODUCTION

This report presents results of quarterly ground-water monitoring activities conducted during the period from January 1 through March 31, 1996, 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 February 28, 1996. 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 February 28, 1996 are presented in Figure 2.

Ground-water elevations calculated from depth-to-water measurements collected in February 1996 showed an increase of approximately 0.5 to 2 feet relative to the previous quarter. Ground-water elevations were generally similar to those measured for March and June 1995, which were at the highest levels since the wells were installed in November 1991.

Ground-water elevation data for February 28, 1996 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 an approximate horizontal hydraulic gradient of 0.006 foot per foot (ft/ft; as calculated between wells LF-5 and LF-7).

Approximately 0.10 foot of free product was measured in well LF-13 using a product-thickness bailer. This measurement is consistent with previous measurements for the Site (Table 1).

3.0 GROUND-WATER QUALITY

Ground-water samples were collected from 22 monitoring wells (wells LF-1 through LF-17, well LF-F1, and wells MW-1 through MW-4) on February 28 through March 1, 1996. Well LF-13 contained free product, and therefore was not sampled.

Ground-water samples were submitted to the laboratory for metals analysis using EPA Method 200 series. Samples collected from well LF-3, LF-8, and LF-14 were also submitted for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8020, for analysis of total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 3550 and TPH as diesel (TPHd) and oil (TPHo) by EPA Method 3510. The sample collected from well LF-8 was also analyzed for semivolatile organic compounds (SVOCs) by EPA Method 8270.

Analytical results for ground-water samples collected during the recent round of sampling were generally consistent with results reported previously for the Site. Ground-water quality results are discussed in Section 3.2. Analytical results for metals analysis are presented in Table 2 and Figure 3. Analytical results for TPHg, BTEX, TPHd, and TPHo are presented on Tables 3 and 4. Results for SVOCs are presented in Table 5. Laboratory certificates are presented in Appendix A.

3.1 Sampling Procedures

Before ground-water samples were collected, approximately 3 to 5 well casing volumes of water was removed from each well using a Teflon bailer. Specific conductance, pH, and temperature of the purged water were measured during this purging process to aid in evaluating overall ground-water quality. These parameters were recorded in the field on water-quality sampling forms. Copies of these forms are included in Appendix B. Ground-water samples were collected after these parameters stabilized to within 15 percent of the previous measurement.

Ground-water samples were collected using the same Teflon bailer used to purge the well. Ground-water samples for metals analysis were filtered in the field and preserved with nitric acid. Samples were placed in an ice-chilled cooler immediately after collection for transportation to the analytical laboratory.

Samples were submitted to American Environmental Network, Inc. of Pleasant Hill, California, a state-certified laboratory. The pH values for ground-water samples collected from each monitoring well were measured and recorded in the field during sampling activities.

For quality assurance/quality control measures, a duplicate sample was collected for well LF-4 (LF-4-dup). The sample was submitted for metals analysis.

3.2 Ground-Water Quality Results

3.2.1 Metals

Analytical results for Title 22 metals in ground-water samples collected during the recent round of sampling were generally consistent with results reported previously for those wells.

Chromium was detected in well LF-3 at a concentration of 0.002 parts per million (ppm). Silver, barium, beryllium, molybdenum, antimony, selenium, thallium, and vanadium were generally reported below detection limits, or at concentrations below 1.0 ppm.

Zinc was detected in all 22 wells at concentrations ranging from 0.006 ppm in well LF-7 to 42,000 ppm in well LF-11. The highest concentration of lead (0.97 ppm) was detected in the sample from well LF-1. Lead was detected in downgradient wells LF-10 and LF-12 at concentrations of 0.011 ppm and 0.007 ppm, respectively.

The highest concentration of cadmium (120 ppm) was detected in the sample collected from LF-11, and the highest concentration of copper (16 ppm) was detected in the sample collected from well LF-16. The highest concentrations of cobalt (6.2 ppm) and nickel (32 ppm) were detected in the sample collected from LF-11 and LF-15, respectively. Of the downgradient wells that were sampled, well LF-12 contained the highest concentrations of those metals (cadmium, 3.0 ppm; cobalt, 2.0 ppm; copper, 1.1 ppm; nickel, 6.1 ppm).

Arsenic was detected in samples collected from 17 wells, with the highest concentration, 2.7 ppm, reported for well LF-3. Arsenic was detected in downgradient wells LF-2, LF-10, and MW-3 at concentrations of 0.002 ppm, 0.006 ppm, and 0.002 ppm, respectively.

3.2.2 Petroleum Hydrocarbons

Analytical results for petroleum hydrocarbons in the sample collected from well LF-3, LF-8, and LF-14 were similar to previous sampling events (Tables 3 and 4). TPHg was reported in wells LF-8 and LF-14 at concentrations of 0.3 ppm and 0.8 ppm, respectively. Benzene was reported in wells LF-8 and LF-14 at concentrations of 0.0026 ppm and 0.0007 ppm, respectively. TPHg and benzene were not detected above the detection limits in sample LF-3. TPHd was detected in wells LF-3, LF-8, and LF-14 at concentrations of 0.65 ppm, 3.9 ppm, and 0.14 ppm, respectively. TPHo was detected in wells LF-3 and LF-8 at concentrations of 0.2 ppm and 0.3 ppm, respectively. TPHo was not detected in the sample from well LF-14 above the detection limit.

3.2.3 Volatile Organic Compounds

No samples were analyzed for VOCs this quarter.

3.2.4 Semivolatile Organic Compounds

The sample from well LF-8 was analyzed for SVOCs by EPA Method 8270. Analytical results are summarized in Table 5. Compounds detected in the sample from well LF-8 were acenaphthene (0.190 ppm), anthracene (0.012 ppm), dibenzofuran (0.120 ppm),

and fluorene (0.083 ppm). These results are consistent with previous results reported for this well.

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 (3.60) was measured in the sample from well LF-11. A pH value above 6.0 was measured for samples in 11 of the 22 wells sampled.

3.2.6 Quality Assurance/Quality Control

Analytical results for the duplicate sample collected from well LF-4 (LF-4-dup) generally showed similar metals concentrations when compared to the primary sample collected from that well.

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
		28-Feb-96	2.51			5.05
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
		28-Feb-96	4.51			5.33
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

Table 1
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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)
		24-May-93	5.61			5.37
		14-Jun-93	5.75			5.23
		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
		28-Feb-96	4.80			6.18
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
		28-Feb-96	4.31			6.05
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

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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)
		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
		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
		28-Feb-96	4.58			3.45
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
		28-Feb-96	4.75			6.84
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

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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	6.03			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
		07-Jun-95	4.07			6.58
		05-Sep-95	4.81			5.84
		18-Dec-95	4.99			5.66
		28-Feb-96	4.22			6.43
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
		28-Feb-96	4.57			6.34
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
		28-Feb-96	5.23			6.47
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
		28-Feb-96	5.62			3.81

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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-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	
		18-Dec-95	4.20				4.87	
		28-Feb-96	2.88				6.19	
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	
		28-Feb-96	6.28				2.42	
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)
		28-Feb-96	3.48	3.38			5.70	
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	
		28-Feb-96	5.95				5.77	
LF-15	11.62	08-Dec-93	7.91				3.71	

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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	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	(3)
		28-Feb-96	5.92			5.70	
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	
		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	(3)
		28-Feb-96	6.26			5.30	
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	
		28-Feb-96	4.63			5.08	
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	
		28-Feb-96	2.31			6.51	
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	

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)
		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
		28-Feb-96	2.53			7.68
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
		28-Feb-96	3.12			5.74
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

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)
		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
		28-Feb-96	4.37			4.64
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
		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
		28-Feb-96	3.36			7.39

Data entered by PCA 25-Mar-96. 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*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.

'(3) Ground-water elevations appear to be anomalous.

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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	Molyb-denum	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-1	29-Feb-96	<0.05	0.65	<0.1	<0.02	5.6	0.6	<0.1	<0.1	<0.0002	<0.1	2.4	0.97	<0.2	<0.02	<0.5	<0.05	4600
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-2	1-Mar-96	<0.001	0.002	0.018	<0.0005	<0.001	0.039	<0.002	0.004	<0.0002	<0.002	0.036	<0.005	<0.004	<0.004	0.01	0.001	0.65
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

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	Molyb-denum	Nickel	Lead	Antimony	Selenium	Thallium	Vanadium	Zinc
LF-3	18-Dec-95	<0.001	4.2	0.06	0.002	0.015	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
LF-3	1-Mar-96	<0.001	2.7	0.096	0.001	<0.001	0.008	0.002	<0.002	<0.0002	0.08	0.007	<0.005	<0.004	<0.1	0.01	0.01	3.7
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-4	1-Mar-96	<0.001	0.013	0.13	<0.0005	<0.001	0.004	<0.002	<0.002	<0.0002	<0.002	0.048	<0.005	<0.004	<0.004	<0.01	0.002	0.031
LF-4-dup	1-Mar-96	<0.001	0.007	0.36	<0.0005	<0.001	0.005	<0.002	<0.002	<0.0002	<0.002	0.026	<0.005	<0.004	<0.004	<0.01	0.002	0.047
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-5	29-Feb-96	<0.001	<0.01	0.11	<0.0005	0.01	0.034	<0.002	0.002	<0.0002	<0.002	0.17	<0.01	<0.004	<0.02	<0.01	0.002	2.6
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-6	29-Feb-96	0.003	<0.002	0.009	0.0024	0.098	0.81	<0.002	0.009	<0.0002	<0.002	2.8	<0.005	<0.004	<0.004	0.05	<0.001	11
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	<0.004	<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

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	Molyb-denum	Nickel	Lead	Antimony	Selenium	Thallium	Vanadium	Zinc
LF-7	28-Feb-96	<0.001	0.035	0.3	<0.0005	<0.001	0.001	<0.002	0.003	<0.0002	0.007	0.013	<0.005	<0.004	<0.004	<0.01	0.006	0.006
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	0.002	<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	0.072	<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
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-8	29-Feb-96	<0.001	1.7	0.1	<0.0005	<0.001	<0.001	<0.002	<0.002	<0.0002	<0.002	0.005	<0.005	<0.004	<0.004	<0.01	0.002	0.066
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	0.005	0.087	<0.005	<0.004	<0.02	<0.01	0.003	25
LF-9	29-Feb-96	<0.001	0.16	0.014	<0.0005	0.054	0.025	<0.002	<0.002	<0.0002	0.003	0.099	<0.005	0.006	<0.01	0.02	0.002	34
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-10	29-Feb-96	<0.001	0.006	0.014	<0.0005	0.001	0.007	<0.002	0.007	<0.0002	<0.002	0.092	0.011	<0.004	<0.01	<0.01	0.004	0.2
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-11	29-Feb-96	<0.5	<0.01	<1	<0.2	120	6.2	<1	5	<0.0002	<1	25	0.13	<2	<0.02	<5	<0.5	42000
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	0.055	<0.5	<0.05	3000
LF-12	29-Feb-96	<0.05	<0.002	<0.1	0.02	3	2	<0.1	1.1	0.0002	<0.1	6.1	0.007	<0.2	0.048	<0.5	<0.05	2700
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

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	Molyb-denum	Nickel	Lead	Antimony	Selenium	Thallium	Vanadium	Zinc
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-14	1-Mar-96	<0.005	0.008	0.01	0.004	0.12	0.9	<0.01	3.5	<0.0002	<0.01	2.3	0.025	<0.02	<0.004	0.09	0.007	340
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
LF-15	29-Feb-96	0.014	0.003	0.01	0.031	1.8	12	<0.01	0.03	<0.0002	<0.01	32	0.078	<0.02	<0.02	1.4	<0.005	590
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	15-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-16	29-Feb-96	<0.05	0.01	<0.1	0.03	7.8	5.1	<0.1	16	<0.0002	<0.1	14	<0.005	<0.2	0.004	<0.5	0.05	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-17	28-Feb-96	<0.001	0.002	0.087	<0.0005	0.005	0.007	0.01	<0.002	<0.0002	<0.002	0.023	<0.002	<0.004	<0.004	<0.01	0.003	0.092
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
LF-F1	29-Feb-96	<0.001	0.023	0.026	<0.0005	0.26	0.054	<0.002	<0.002	<0.0002	0.01	0.061	<0.005	<0.004	<0.004	<0.01	<0.001	37
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	5-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-1	29-Feb-96	<0.001	0.041	0.07	<0.0005	<0.001	0.018	<0.002	0.003	<0.0002	0.009	0.019	<0.002	0.077	<0.004	<0.01	0.009	1.7
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

[redacted] Ta[redacted]

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	Molyb-denum	Nickel	Lead	Antimony	Selenium	Thallium	Vanadium	Zinc
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-2	29-Feb-96	<0.05	1.7	<0.1	<0.02	3	0.3	<0.1	<0.1	<0.0002	<0.1	1	<0.02	<0.2	<0.1	<0.5	<0.05	1700
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
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-3	1-Mar-96	<0.005	0.002	0.01	<0.002	0.11	0.21	<0.01	0.09	<0.0002	<0.01	0.6	<0.002	<0.02	<0.004	<0.05	<0.005	170
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
MW-4	29-Feb-96	<0.001	0.003	0.017	<0.0005	0.001	<0.001	<0.002	<0.002	<0.0002	<0.002	0.021	<0.002	<0.004	<0.004	<0.01	0.003	0.24
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-11-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-Mar-96. Data proofed by JCK. 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-3	01-Mar-96	<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	<1.0	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-8	29-Feb-96	0.3	0.0026	0.0031	0.0019	0.0032
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
LF-14	01-Mar-96	0.8	0.0007	<0.0005	<0.0005	0.0084
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 Mar. 96. Data proofed by JCK. QA/QC by SXS

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-3	1-Mar-96	0.65	0.2	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-8	29-Feb-96	3.9	0.3	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
LF-14	1-Mar-96	0.14	<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 Mar. 96. Data proofed by JCK. QA/QC by SXS.

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.

TABLE 5
SEMIVOLATILE ORGANIC COMPOUNDS IN GROUND-WATER SAMPLES
5050 COLISEUM WAY AND 750-50TH AVENUE
OAKLAND, CALIFORNIA
(concentrations reported in parts per million [ppm])

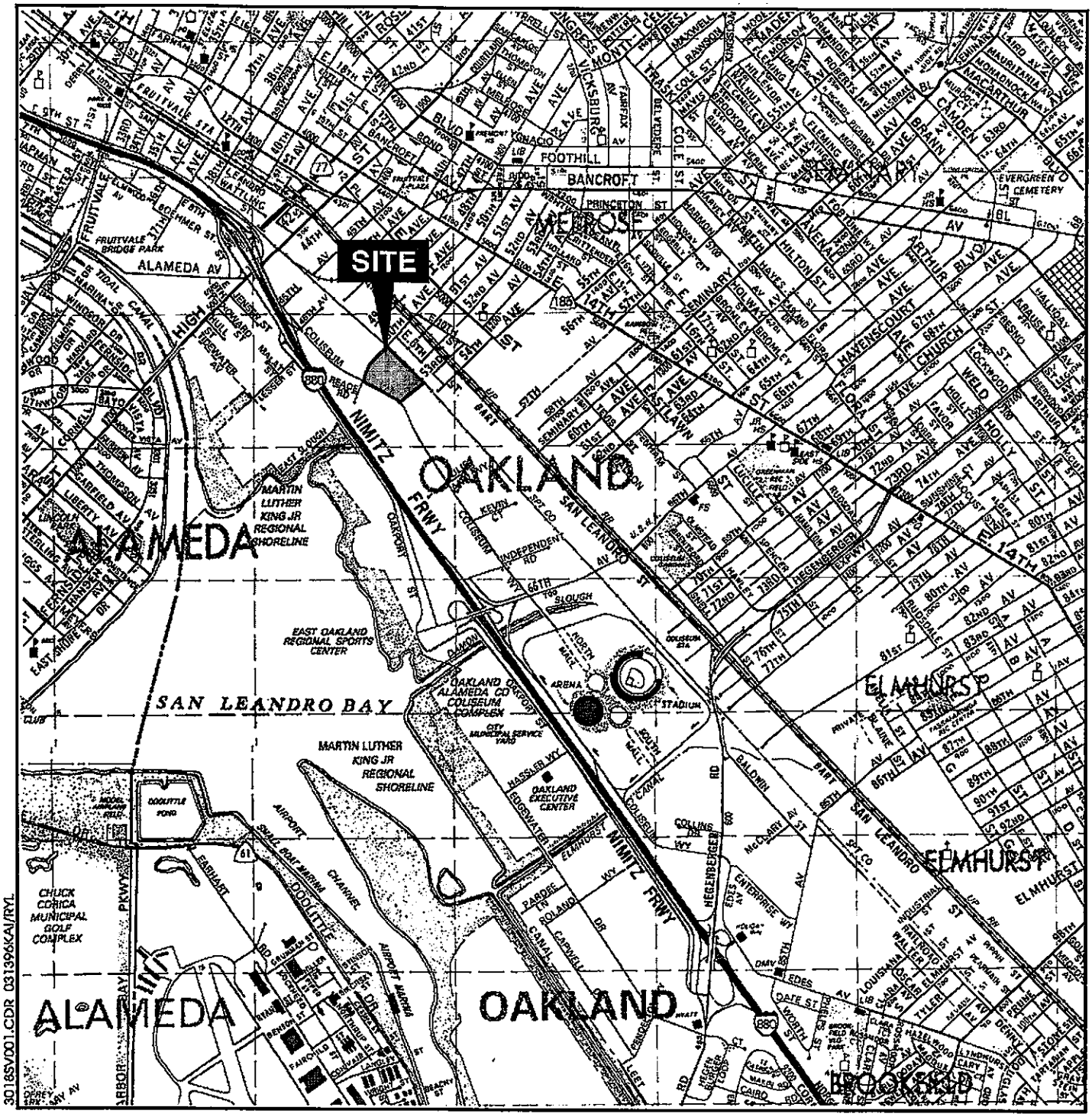
Sample ID	Notes	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Dibenzofuran	Fluoranthene	Fluorene	2-Methyl-naphthalene	Naphthalene	Phenathrene	Pyrene
LF-2		4-Nov-91	NA	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	<0.010	<0.010
LF-5		4-Nov-91	NA	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	<0.010	<0.010
LF-8		28-Oct-93	0.3	0.015	0.055	0.2	0.068	0.21	<0.010	<0.010	0.13	0.032
		16-Feb-94	0.43	0.016	0.051	0.25	0.073	0.24	0.02	0.25	0.089	0.04
		23-Sep-94	0.39	0.011	0.029	0.2	0.016	0.17	<0.010	0.033	0.026	0.022
		15-Mar-95	0.36	0.013	0.031	0.16	0.029	0.17	0.033	0.032	0.015	0.017
	(1)	7-Sep-95	0.69	0.015	0.041	0.2	0.032	0.17	<0.010	0.013	<0.010	0.019
		29-Feb-96	0.19	<0.010	0.012	0.12	<0.010	0.083	<0.010	<0.010	<0.010	<0.010
LF-9		1-Nov-93	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
LF-11		28-Oct-93	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
LF-13		6-Dec-93	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
LF-14		8-Dec-93	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010

Data entered by JCK 4/9/96. Data proofed by JCK . QA/QC JCK .

Notes:

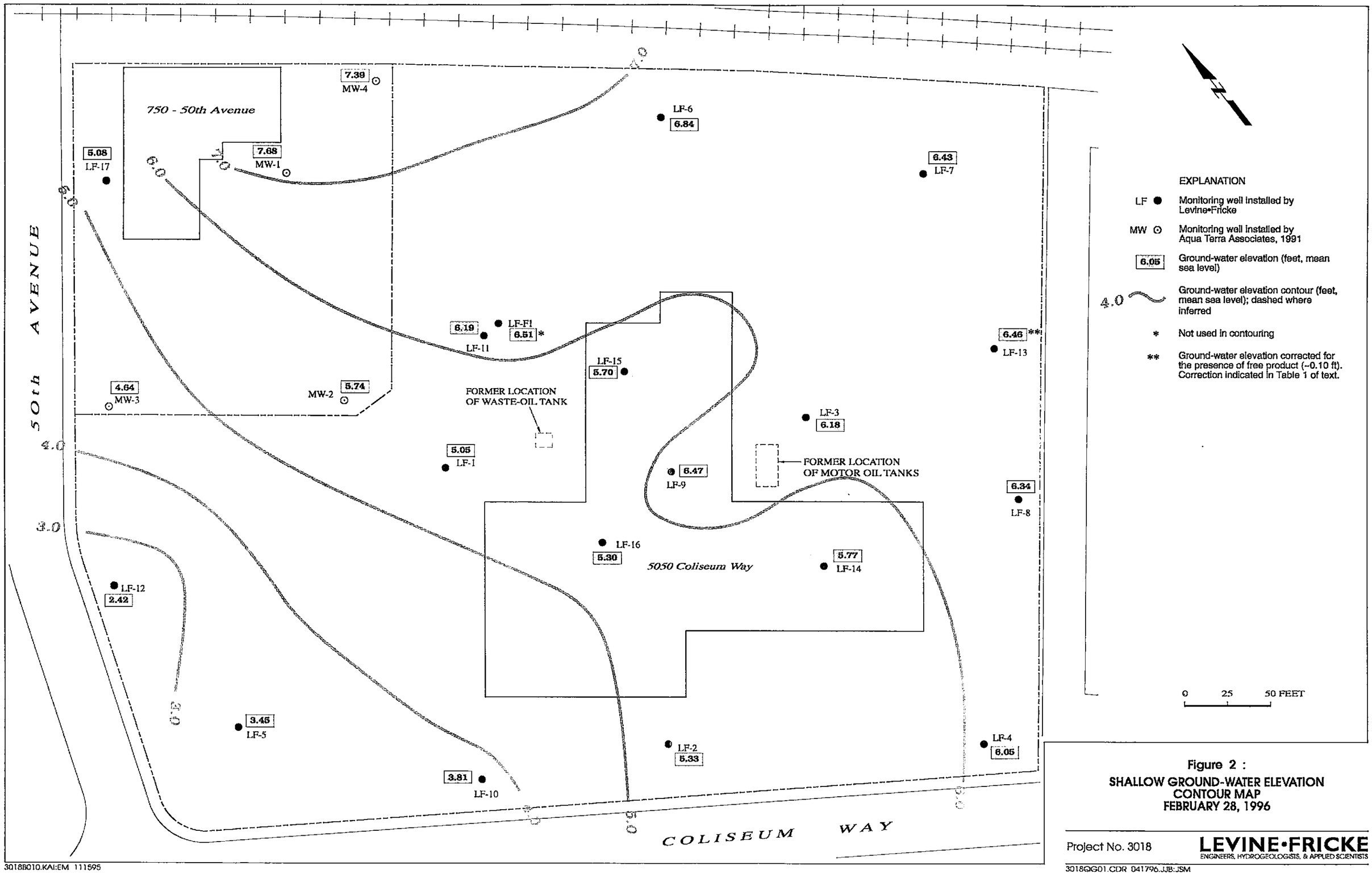
EPA 8270 analyses performed by American Environmental Network, Pleasant Hill, California

(1): A concentration of 0.021 ppm bis (2-ethylhexyl) phthalate was also detected.



0 1/2 1 MILE

Figure 1 : SITE LOCATION, 5050 COLISEUM WAY AND 750 50TH AVENUE, OAKLAND, CA



3018B010.KAI:EM 111595

Figure 2 :
SHALLOW GROUND-WATER ELEVATION CONTOUR MAP
FEBRUARY 28, 1996

Project No. 3018

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS, & APPLIED SCIENTISTS

3018GG01.CDR 041796.JJB:JSM

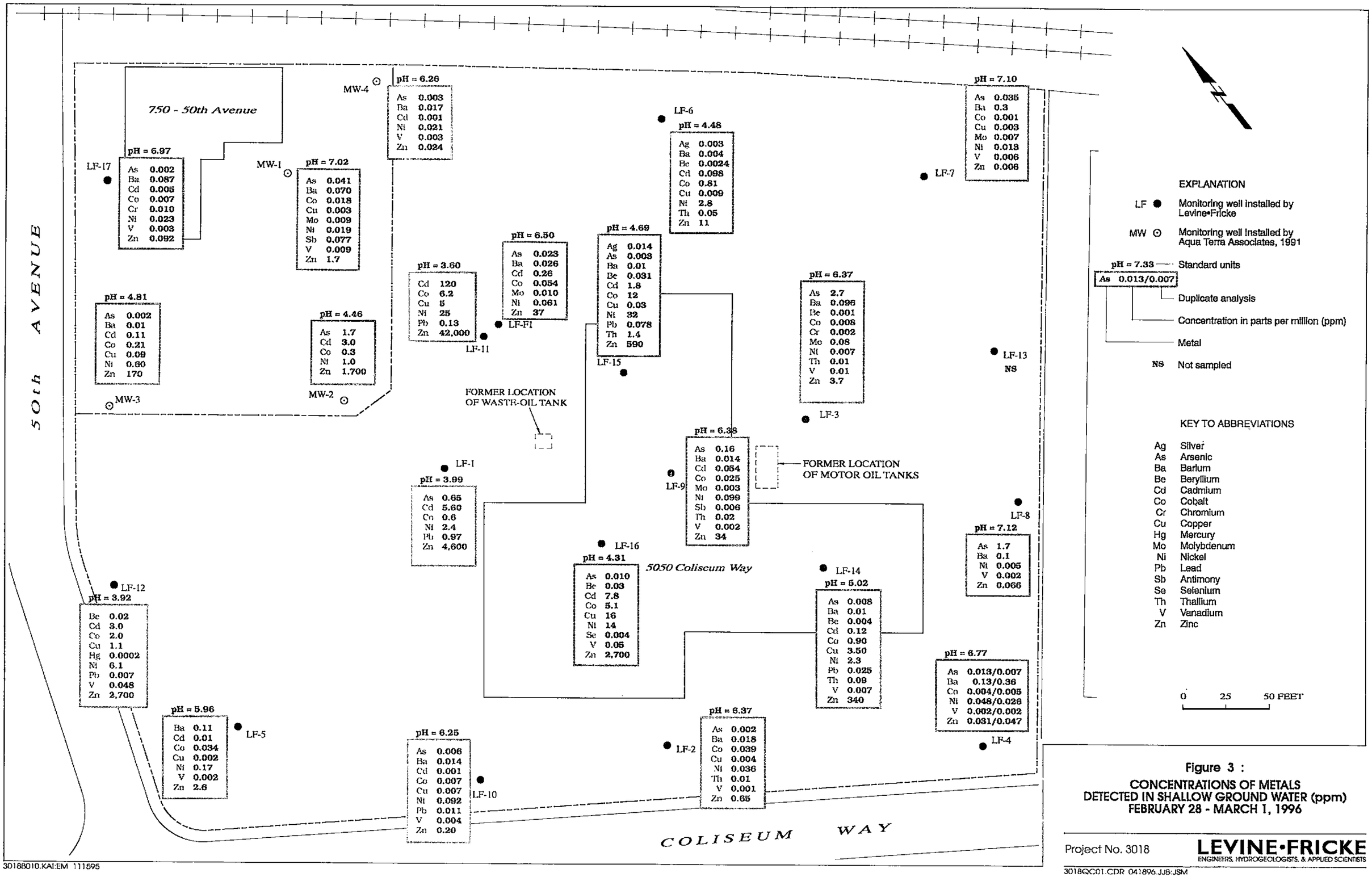


Figure 3 :
CONCENTRATIONS OF METALS DETECTED IN SHALLOW GROUND WATER (ppm) FEBRUARY 28 - MARCH 1, 1996

Project No. 3018

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS, & APPLIED SCIENTISTS

3018QC01.CDR 041896 JJB:JSM

3018B010.KAI:EM 111595

APPENDIX A

LABORATORY CERTIFICATES

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

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

ATTN: **JOHN KEELER**
CLIENT PROJ. ID: 3018.95.21
CLIENT PROJ. NAME: VOLVO/GM
C.O.C. NUMBER: 14887,14889

REPORT DATE: 03/20/96
DATE(S) SAMPLED: 02/28/96-03/01/96
DATE RECEIVED: 03/01/96
AEN WORK ORDER: 9603021

PROJECT SUMMARY:

On March 1, 1996, this laboratory received 22 water sample(s).

Client requested samples be analyzed for chemical 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

MAR 21

LEVINE-FRICKE

SAMPLE ID: LF-17
AEN LAB NO: 9603021-01
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 02/28/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	03/04/96
#Digestion/ICP	EPA 200.0	-		Prep Date	03/04/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.001	mg/L	03/13/96
As Arsenic	EPA 206.2	0.002 *	0.002	mg/L	03/13/96
Ba Barium	EPA 200.7	0.087 *	0.002	mg/L	03/13/96
Be Beryllium	EPA 200.7	ND	0.0005	mg/L	03/13/96
Cd Cadmium	EPA 200.7	0.005 *	0.001	mg/L	03/13/96
Co Cobalt	EPA 200.7	0.007 *	0.001	mg/L	03/13/96
Cr Chromium	EPA 200.7	0.010 *	0.002	mg/L	03/13/96
Cu Copper	EPA 200.7	ND	0.002	mg/L	03/13/96
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	03/06/96
Mo Molybdenum	EPA 200.7	ND	0.002	mg/L	03/13/96
Ni Nickel	EPA 200.7	0.023 *	0.002	mg/L	03/13/96
Pb Lead	EPA 239.2	ND	0.002	mg/L	03/11/96
Sb Antimony	EPA 200.7	ND	0.004	mg/L	03/13/96
Se Selenium	EPA 270.2	ND	0.004	mg/L	03/13/96
Tl Thallium	EPA 200.7	ND	0.01	mg/L	03/13/96
V Vanadium	EPA 200.7	0.003 *	0.001	mg/L	03/13/96
Zn Zinc	EPA 200.7	0.092 *	0.005	mg/L	03/13/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-7
AEN LAB NO: 9603021-02
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 02/28/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE	METHOD/ CAS#	RESULT		REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace	EPA 200.0	-			Prep Date	03/04/96
#Digestion/ICP	EPA 200.0	-			Prep Date	03/04/96
CCR 17 Metals (Low Level)						
Ag Silver	EPA 200.7	ND		0.001	mg/L	03/13/96
As Arsenic	EPA 206.2	0.035	*	0.002	mg/L	03/13/96
Ba Barium	EPA 200.7	0.30	*	0.002	mg/L	03/13/96
Be Beryllium	EPA 200.7	ND		0.0005	mg/L	03/13/96
Cd Cadmium	EPA 200.7	ND		0.001	mg/L	03/13/96
Co Cobalt	EPA 200.7	0.001	*	0.001	mg/L	03/13/96
Cr Chromium	EPA 200.7	ND		0.002	mg/L	03/13/96
Cu Copper	EPA 200.7	0.003	*	0.002	mg/L	03/13/96
Hg Mercury	EPA 245.1	ND		0.0002	mg/L	03/06/96
Mo Molybdenum	EPA 200.7	0.007	*	0.002	mg/L	03/13/96
Ni Nickel	EPA 200.7	0.013	*	0.002	mg/L	03/13/96
Pb Lead	EPA 239.2	ND		0.005	mg/L	03/11/96
Sb Antimony	EPA 200.7	ND		0.004	mg/L	03/13/96
Se Selenium	EPA 270.2	ND		0.004	mg/L	03/13/96
Tl Thallium	EPA 200.7	ND		0.01	mg/L	03/13/96
V Vanadium	EPA 200.7	0.006	*	0.001	mg/L	03/13/96
Zn Zinc	EPA 200.7	0.006	*	0.005	mg/L	03/13/96

Reporting limit elevated for lead due to matrix interference.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-10
AEN LAB NO: 9603021-03
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 02/29/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	03/04/96
#Digestion/ICP	EPA 200.0	-		Prep Date	03/04/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.001	mg/L	03/13/96
As Arsenic	EPA 206.2	0.006 *	0.002	mg/L	03/14/96
Ba Barium	EPA 200.7	0.014 *	0.002	mg/L	03/13/96
Be Beryllium	EPA 200.7	ND	0.0005	mg/L	03/13/96
Cd Cadmium	EPA 200.7	0.001 *	0.001	mg/L	03/13/96
Co Cobalt	EPA 200.7	0.007 *	0.001	mg/L	03/13/96
Cr Chromium	EPA 200.7	ND	0.002	mg/L	03/13/96
Cu Copper	EPA 200.7	0.007 *	0.002	mg/L	03/13/96
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	03/06/96
Mo Molybdenum	EPA 200.7	ND	0.002	mg/L	03/13/96
Ni Nickel	EPA 200.7	0.092 *	0.002	mg/L	03/13/96
Pb Lead	EPA 239.2	0.011 *	0.002	mg/L	03/13/96
Sb Antimony	EPA 200.7	ND	0.004	mg/L	03/13/96
Se Selenium	EPA 270.2	ND	0.01	mg/L	03/14/96
Tl Thallium	EPA 200.7	ND	0.01	mg/L	03/13/96
V Vanadium	EPA 200.7	0.004 *	0.001	mg/L	03/13/96
Zn Zinc	EPA 200.7	0.20 *	0.005	mg/L	03/13/96

Reporting limit elevated for selenium due to matrix interference.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-5
AEN LAB NO: 9603021-04
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 02/29/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE		METHOD/ CAS#	RESULT		REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace		EPA 200.0	-			Prep Date	03/04/96
#Digestion/ICP		EPA 200.0	-			Prep Date	03/04/96
CCR 17 Metals (Low Level)							
Ag	Silver	EPA 200.7	ND		0.001	mg/L	03/13/96
As	Arsenic	EPA 206.2	ND		0.01	mg/L	03/13/96
Ba	Barium	EPA 200.7	0.11	*	0.002	mg/L	03/13/96
Be	Beryllium	EPA 200.7	ND		0.0005	mg/L	03/13/96
Cd	Cadmium	EPA 200.7	0.010	*	0.001	mg/L	03/13/96
Co	Cobalt	EPA 200.7	0.034	*	0.001	mg/L	03/13/96
Cr	Chromium	EPA 200.7	ND		0.002	mg/L	03/13/96
Cu	Copper	EPA 200.7	0.002	*	0.002	mg/L	03/13/96
Hg	Mercury	EPA 245.1	ND		0.0002	mg/L	03/06/96
Mo	Molybdenum	EPA 200.7	ND		0.002	mg/L	03/13/96
Ni	Nickel	EPA 200.7	0.17	*	0.002	mg/L	03/13/96
Pb	Lead	EPA 239.2	ND		0.01	mg/L	03/11/96
Sb	Antimony	EPA 200.7	ND		0.004	mg/L	03/13/96
Se	Selenium	EPA 270.2	ND		0.02	mg/L	03/14/96
Tl	Thallium	EPA 200.7	ND		0.01	mg/L	03/13/96
V	Vanadium	EPA 200.7	0.002	*	0.001	mg/L	03/13/96
Zn	Zinc	EPA 200.7	2.6	*	0.005	mg/L	03/13/96

Reporting limits elevated for arsenic, lead and selenium due to matrix interference.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-12
AEN LAB NO: 9603021-05
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 02/29/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE	METHOD/ CAS#	RESULT		REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace	EPA 200.0	-			Prep Date	03/04/96
#Digestion/ICP	EPA 200.0	-			Prep Date	03/04/96
CCR 17 Metals (Low Level)						
Ag Silver	EPA 200.7	ND		0.05	mg/L	03/13/96
As Arsenic	EPA 206.2	ND		0.002	mg/L	03/13/96
Ba Barium	EPA 200.7	ND		0.1	mg/L	03/13/96
Be Beryllium	EPA 200.7	0.02	*	0.02	mg/L	03/13/96
Cd Cadmium	EPA 200.7	3.0	*	0.05	mg/L	03/13/96
Co Cobalt	EPA 200.7	2.0	*	0.05	mg/L	03/13/96
Cr Chromium	EPA 200.7	ND		0.1	mg/L	03/13/96
Cu Copper	EPA 200.7	1.1	*	0.1	mg/L	03/13/96
Hg Mercury	EPA 245.1	0.0002	*	0.0002	mg/L	03/06/96
Mo Molybdenum	EPA 200.7	ND		0.1	mg/L	03/13/96
Ni Nickel	EPA 200.7	6.1	*	0.1	mg/L	03/13/96
Pb Lead	EPA 239.2	0.007	*	0.002	mg/L	03/13/96
Sb Antimony	EPA 200.7	ND		0.2	mg/L	03/13/96
Se Selenium	EPA 270.2	0.048	*	0.004	mg/L	03/13/96
Tl Thallium	EPA 200.7	ND		0.5	mg/L	03/13/96
V Vanadium	EPA 200.7	ND		0.05	mg/L	03/13/96
Zn Zinc	EPA 200.7	2,700	*	0.1	mg/L	03/13/96

Reporting limits elevated for metals due to matrix interference.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-F1
AEN LAB NO: 9603021-06
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 02/29/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	03/04/96
#Digestion/ICP	EPA 200.0	-		Prep Date	03/04/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.001	mg/L	03/13/96
As Arsenic	EPA 206.2	0.023 *	0.002	mg/L	03/13/96
Ba Barium	EPA 200.7	0.026 *	0.002	mg/L	03/13/96
Be Beryllium	EPA 200.7	ND	0.0005	mg/L	03/13/96
Cd Cadmium	EPA 200.7	0.26 *	0.001	mg/L	03/13/96
Co Cobalt	EPA 200.7	0.054 *	0.001	mg/L	03/13/96
Cr Chromium	EPA 200.7	ND	0.002	mg/L	03/13/96
Cu Copper	EPA 200.7	ND	0.002	mg/L	03/13/96
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	03/06/96
Mo Molybdenum	EPA 200.7	0.010 *	0.002	mg/L	03/13/96
Ni Nickel	EPA 200.7	0.061 *	0.002	mg/L	03/13/96
Pb Lead	EPA 239.2	ND	0.005	mg/L	03/13/96
Sb Antimony	EPA 200.7	ND	0.004	mg/L	03/13/96
Se Selenium	EPA 270.2	ND	0.004	mg/L	03/13/96
Tl Thallium	EPA 200.7	ND	0.01	mg/L	03/13/96
V Vanadium	EPA 200.7	ND	0.001	mg/L	03/13/96
Zn Zinc	EPA 200.7	37 *	0.005	mg/L	03/13/96

Reporting limit elevated for lead due to matrix interference.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-11
AEN LAB NO: 9603021-07
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 02/29/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE		METHOD/ CAS#	RESULT		REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace		EPA 200.0	-			Prep Date	03/04/96
#Digestion/ICP		EPA 200.0	-			Prep Date	03/04/96
CCR 17 Metals (Low Level)							
Ag	Silver	EPA 200.7	ND		0.5	mg/L	03/13/96
As	Arsenic	EPA 206.2	ND		0.01	mg/L	03/14/96
Ba	Barium	EPA 200.7	ND		1	mg/L	03/13/96
Be	Beryllium	EPA 200.7	ND		0.2	mg/L	03/13/96
Cd	Cadmium	EPA 200.7	120	*	0.5	mg/L	03/13/96
Co	Cobalt	EPA 200.7	6.2	*	0.5	mg/L	03/13/96
Cr	Chromium	EPA 200.7	ND		1	mg/L	03/13/96
Cu	Copper	EPA 200.7	5	*	1	mg/L	03/13/96
Hg	Mercury	EPA 245.1	ND		0.0002	mg/L	03/06/96
Mo	Molybdenum	EPA 200.7	ND		1	mg/L	03/13/96
Ni	Nickel	EPA 200.7	25	*	1	mg/L	03/13/96
Pb	Lead	EPA 239.2	0.13	*	0.002	mg/L	03/13/96
Sb	Antimony	EPA 200.7	ND		2	mg/L	03/13/96
Se	Selenium	EPA 270.2	ND		0.02	mg/L	03/14/96
Tl	Thallium	EPA 200.7	ND		5	mg/L	03/13/96
V	Vanadium	EPA 200.7	ND		0.5	mg/L	03/13/96
Zn	Zinc	EPA 200.7	42,000	*	1	mg/L	03/13/96

Reporting limits elevated for metals due to matrix interference.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-1
AEN LAB NO: 9603021-08
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 02/29/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	03/04/96
#Digestion/ICP	EPA 200.0	-		Prep Date	03/04/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.05	mg/L	03/13/96
As Arsenic	EPA 206.2	0.65 *	0.002	mg/L	03/13/96
Ba Barium	EPA 200.7	ND	0.1	mg/L	03/13/96
Be Beryllium	EPA 200.7	ND	0.02	mg/L	03/13/96
Cd Cadmium	EPA 200.7	5.6 *	0.05	mg/L	03/13/96
Co Cobalt	EPA 200.7	0.62 *	0.05	mg/L	03/13/96
Cr Chromium	EPA 200.7	ND	0.1	mg/L	03/13/96
Cu Copper	EPA 200.7	ND	0.1	mg/L	03/13/96
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	03/06/96
Mo Molybdenum	EPA 200.7	ND	0.1	mg/L	03/13/96
Ni Nickel	EPA 200.7	2.4 *	0.1	mg/L	03/13/96
Pb Lead	EPA 239.2	0.97 *	0.002	mg/L	03/11/96
Sb Antimony	EPA 200.7	ND	0.2	mg/L	03/13/96
Se Selenium	EPA 270.2	ND	0.02	mg/L	03/14/96
Tl Thallium	EPA 200.7	ND	0.5	mg/L	03/13/96
V Vanadium	EPA 200.7	ND	0.05	mg/L	03/13/96
Zn Zinc	EPA 200.7	4,600 *	0.1	mg/L	03/13/96

Reporting limits elevated for metals due to matrix interference.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: MW-4
AEN LAB NO: 9603021-09
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 02/29/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE		METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace		EPA 200.0	-		Prep Date	03/04/96
#Digestion/ICP		EPA 200.0	-		Prep Date	03/04/96
CCR 17 Metals (Low Level)						
Ag	Silver	EPA 200.7	ND	0.001	mg/L	03/13/96
As	Arsenic	EPA 206.2	0.003 *	0.002	mg/L	03/13/96
Ba	Barium	EPA 200.7	0.017 *	0.002	mg/L	03/13/96
Be	Beryllium	EPA 200.7	ND	0.0005	mg/L	03/13/96
Cd	Cadmium	EPA 200.7	0.001 *	0.001	mg/L	03/13/96
Co	Cobalt	EPA 200.7	ND	0.001	mg/L	03/13/96
Cr	Chromium	EPA 200.7	ND	0.002	mg/L	03/13/96
Cu	Copper	EPA 200.7	ND	0.002	mg/L	03/13/96
Hg	Mercury	EPA 245.1	ND	0.0002	mg/L	03/06/96
Mo	Molybdenum	EPA 200.7	ND	0.002	mg/L	03/13/96
Ni	Nickel	EPA 200.7	0.021 *	0.002	mg/L	03/13/96
Pb	Lead	EPA 239.2	ND	0.002	mg/L	03/11/96
Sb	Antimony	EPA 200.7	ND	0.004	mg/L	03/13/96
Se	Selenium	EPA 270.2	ND	0.004	mg/L	03/13/96
Tl	Thallium	EPA 200.7	ND	0.01	mg/L	03/13/96
V	Vanadium	EPA 200.7	0.003 *	0.001	mg/L	03/13/96
Zn	Zinc	EPA 200.7	0.24 *	0.005	mg/L	03/13/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-6
AEN LAB NO: 9603021-10
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 02/29/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE		METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace		EPA 200.0	-		Prep Date	03/04/96
#Digestion/ICP		EPA 200.0	-		Prep Date	03/04/96
CCR 17 Metals (Low Level)						
Ag	Silver	EPA 200.7	0.003 *	0.001	mg/L	03/13/96
As	Arsenic	EPA 206.2	ND	0.002	mg/L	03/13/96
Ba	Barium	EPA 200.7	0.009 *	0.002	mg/L	03/13/96
Be	Beryllium	EPA 200.7	0.0024 *	0.0005	mg/L	03/13/96
Cd	Cadmium	EPA 200.7	0.098 *	0.001	mg/L	03/13/96
Co	Cobalt	EPA 200.7	0.81 *	0.001	mg/L	03/13/96
Cr	Chromium	EPA 200.7	ND	0.002	mg/L	03/13/96
Cu	Copper	EPA 200.7	0.009 *	0.002	mg/L	03/13/96
Hg	Mercury	EPA 245.1	ND	0.0002	mg/L	03/06/96
Mo	Molybdenum	EPA 200.7	ND	0.002	mg/L	03/13/96
Ni	Nickel	EPA 200.7	2.8 *	0.002	mg/L	03/13/96
Pb	Lead	EPA 239.2	ND	0.005	mg/L	03/11/96
Sb	Antimony	EPA 200.7	ND	0.004	mg/L	03/13/96
Se	Selenium	EPA 270.2	ND	0.004	mg/L	03/13/96
Tl	Thallium	EPA 200.7	0.05 *	0.01	mg/L	03/13/96
V	Vanadium	EPA 200.7	ND	0.001	mg/L	03/13/96
Zn	Zinc	EPA 200.7	11 *	0.005	mg/L	03/13/96

Reporting limit elevated for lead due to matrix interference.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: MW-2
AEN LAB NO: 9603021-11
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 02/29/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	03/04/96
#Digestion/ICP	EPA 200.0	-		Prep Date	03/04/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.05	mg/L	03/13/96
As Arsenic	EPA 206.2	1.7 *	0.002	mg/L	03/13/96
Ba Barium	EPA 200.7	ND	0.1	mg/L	03/13/96
Be Beryllium	EPA 200.7	ND	0.02	mg/L	03/13/96
Cd Cadmium	EPA 200.7	3.0 *	0.05	mg/L	03/13/96
Co Cobalt	EPA 200.7	0.30 *	0.05	mg/L	03/13/96
Cr Chromium	EPA 200.7	ND	0.1	mg/L	03/13/96
Cu Copper	EPA 200.7	ND	0.1	mg/L	03/13/96
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	03/06/96
Mo Molybdenum	EPA 200.7	ND	0.1	mg/L	03/13/96
Ni Nickel	EPA 200.7	1.0 *	0.1	mg/L	03/13/96
Pb Lead	EPA 239.2	ND	0.02	mg/L	03/11/96
Sb Antimony	EPA 200.7	ND	0.2	mg/L	03/13/96
Se Selenium	EPA 270.2	ND	0.1	mg/L	03/14/96
Tl Thallium	EPA 200.7	ND	0.5	mg/L	03/13/96
V Vanadium	EPA 200.7	ND	0.05	mg/L	03/13/96
Zn Zinc	EPA 200.7	1,700 *	0.1	mg/L	03/13/96

Reporting limits elevated for metals due to matrix interference.

ND = Not detected at or above the reporting limit
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LEVINE-FRICKE

SAMPLE ID: MW-1
AEN LAB NO: 9603021-12
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 02/29/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE		METHOD/ CAS#	RESULT		REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace		EPA 200.0	-			Prep Date	03/04/96
#Digestion/ICP		EPA 200.0	-			Prep Date	03/04/96
CCR 17 Metals (Low Level)							
Ag	Silver	EPA 200.7	ND		0.001	mg/L	03/13/96
As	Arsenic	EPA 206.2	0.041	*	0.002	mg/L	03/13/96
Ba	Barium	EPA 200.7	0.070	*	0.002	mg/L	03/13/96
Be	Beryllium	EPA 200.7	ND		0.0005	mg/L	03/13/96
Cd	Cadmium	EPA 200.7	ND		0.001	mg/L	03/13/96
Co	Cobalt	EPA 200.7	0.018	*	0.001	mg/L	03/13/96
Cr	Chromium	EPA 200.7	ND		0.002	mg/L	03/13/96
Cu	Copper	EPA 200.7	0.003	*	0.002	mg/L	03/13/96
Hg	Mercury	EPA 245.1	ND		0.0002	mg/L	03/06/96
Mo	Molybdenum	EPA 200.7	0.009	*	0.002	mg/L	03/13/96
Ni	Nickel	EPA 200.7	0.019	*	0.002	mg/L	03/13/96
Pb	Lead	EPA 239.2	ND		0.002	mg/L	03/11/96
Sb	Antimony	EPA 200.7	0.077	*	0.004	mg/L	03/13/96
Se	Selenium	EPA 270.2	ND		0.004	mg/L	03/13/96
Tl	Thallium	EPA 200.7	ND		0.01	mg/L	03/13/96
V	Vanadium	EPA 200.7	0.009	*	0.001	mg/L	03/13/96
Zn	Zinc	EPA 200.7	1.7	*	0.005	mg/L	03/13/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-8
AEN LAB NO: 9603021-13
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 02/29/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	2.6 *	0.5	ug/L	03/07/96
Toluene	108-88-3	1.9 *	0.5	ug/L	03/07/96
Ethylbenzene	100-41-4	3.1 *	0.5	ug/L	03/07/96
Xylenes, Total	1330-20-7	3.2 *	2	ug/L	03/07/96
Purgeable HCs as Gasoline	5030/GCFID	0.3 *	0.05	mg/L	03/07/96
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	03/04/96
#Digestion/ICP	EPA 200.0	-		Prep Date	03/04/96
#Extraction for TPH	EPA 3510	-		Extrn Date	03/06/96
TPH as Diesel	GC-FID	3.9 *	0.05	mg/L	03/07/96
TPH as Oil	GC-FID	0.3 *	0.2	mg/L	03/07/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.001	mg/L	03/13/96
As Arsenic	EPA 206.2	1.7 *	0.002	mg/L	03/13/96
Ba Barium	EPA 200.7	0.10 *	0.002	mg/L	03/13/96
Be Beryllium	EPA 200.7	ND	0.0005	mg/L	03/13/96
Cd Cadmium	EPA 200.7	ND	0.001	mg/L	03/13/96
Co Cobalt	EPA 200.7	ND	0.001	mg/L	03/13/96
Cr Chromium	EPA 200.7	ND	0.002	mg/L	03/13/96
Cu Copper	EPA 200.7	ND	0.002	mg/L	03/13/96
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	03/06/96
Mo Molybdenum	EPA 200.7	ND	0.002	mg/L	03/13/96
Ni Nickel	EPA 200.7	0.005 *	0.002	mg/L	03/13/96
Pb Lead	EPA 239.2	ND	0.005	mg/L	03/13/96
Sb Antimony	EPA 200.7	ND	0.004	mg/L	03/13/96
Se Selenium	EPA 270.2	ND	0.004	mg/L	03/13/96
Tl Thallium	EPA 200.7	ND	0.01	mg/L	03/13/96
V Vanadium	EPA 200.7	0.002 *	0.001	mg/L	03/13/96
Zn Zinc	EPA 200.7	0.066 *	0.005	mg/L	03/13/96
#Extraction for BNAs	EPA 3520	-		Extrn Date	03/04/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	190 *	10	ug/L	03/12/96
Acenaphthylene	208-96-8	ND	10	ug/L	03/12/96
Anthracene	120-12-7	12 *	10	ug/L	03/12/96

LEVINE-FRICKE

SAMPLE ID: LF-8
AEN LAB NO: 9603021-13
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 02/29/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Benzidine	92-87-5	ND	50	ug/L	03/12/96
Benzoic Acid	65-85-0	ND	50	ug/L	03/12/96
Benzo(a)anthracene	56-55-3	ND	10	ug/L	03/12/96
Benzo(b)fluoranthene	205-99-2	ND	10	ug/L	03/12/96
Benzo(k)fluoranthene	207-08-9	ND	10	ug/L	03/12/96
Benzo(g,h,i)perylene	191-24-2	ND	10	ug/L	03/12/96
Benzo(a)pyrene	50-32-8	ND	10	ug/L	03/12/96
Benzyl Alcohol	100-51-6	ND	20	ug/L	03/12/96
Bis(2-chloroethoxy)methane	111-91-1	ND	10	ug/L	03/12/96
Bis(2-chloroethyl) Ether	111-44-4	ND	10	ug/L	03/12/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	10	ug/L	03/12/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	10	ug/L	03/12/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	10	ug/L	03/12/96
Butylbenzyl Phthalate	85-68-7	ND	10	ug/L	03/12/96
4-Chloroaniline	106-47-8	ND	20	ug/L	03/12/96
2-Chloronaphthalene	91-58-7	ND	10	ug/L	03/12/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	10	ug/L	03/12/96
Chrysene	218-01-9	ND	10	ug/L	03/12/96
Dibenzo(a,h)anthracene	53-70-3	ND	10	ug/L	03/12/96
Dibenzofuran	132-64-9	120 *	10	ug/L	03/12/96
Di-n-butyl Phthalate	84-74-2	ND	10	ug/L	03/12/96
1,2-Dichlorobenzene	95-50-1	ND	10	ug/L	03/12/96
1,3-Dichlorobenzene	541-73-1	ND	10	ug/L	03/12/96
1,4-Dichlorobenzene	106-46-7	ND	10	ug/L	03/12/96
3,3'-Dichlorobenzidine	91-94-1	ND	20	ug/L	03/12/96
Diethyl Phthalate	84-66-2	ND	10	ug/L	03/12/96
Dimethyl Phthalate	131-11-3	ND	10	ug/L	03/12/96
2,4-Dinitrotoluene	121-14-2	ND	10	ug/L	03/12/96
2,6-Dinitrotoluene	606-20-2	ND	10	ug/L	03/12/96
Di-n-octyl Phthalate	117-84-0	ND	10	ug/L	03/12/96
Fluoranthene	206-44-0	ND	10	ug/L	03/12/96
Fluorene	86-73-7	83 *	10	ug/L	03/12/96
Hexachlorobenzene	118-74-1	ND	10	ug/L	03/12/96
Hexachlorobutadiene	87-68-3	ND	10	ug/L	03/12/96
Hexachlorocyclopentadiene	77-47-4	ND	10	ug/L	03/12/96
Hexachloroethane	67-72-1	ND	10	ug/L	03/12/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10	ug/L	03/12/96
Isophorone	78-59-1	ND	10	ug/L	03/12/96
2-Methylnaphthalene	91-57-6	ND	10	ug/L	03/12/96
Naphthalene	91-20-3	ND	10	ug/L	03/12/96
2-Nitroaniline	88-74-4	ND	50	ug/L	03/12/96
3-Nitroaniline	99-09-2	ND	50	ug/L	03/12/96
4-Nitroaniline	100-01-6	ND	50	ug/L	03/12/96

LEVINE-FRICKE

SAMPLE ID: LF-8
AEN LAB NO: 9603021-13
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 02/29/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Nitrobenzene	98-95-3	ND	10	ug/L	03/12/96
N-Nitrosodiphenylamine	86-30-6	ND	10	ug/L	03/12/96
N-Nitrosodi-n-propylamine	621-64-7	ND	10	ug/L	03/12/96
Phenanthrene	85-01-8	ND	10	ug/L	03/12/96
Pyrene	129-00-0	ND	10	ug/L	03/12/96
1,2,4-Trichlorobenzene	120-82-1	ND	10	ug/L	03/12/96
4-Chloro-3-methylphenol	59-50-7	ND	10	ug/L	03/12/96
2-Chlorophenol	95-57-8	ND	10	ug/L	03/12/96
2,4-Dichlorophenol	120-83-2	ND	10	ug/L	03/12/96
2,4-Dimethylphenol	105-67-9	ND	10	ug/L	03/12/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	50	ug/L	03/12/96
2,4-Dinitrophenol	51-28-5	ND	50	ug/L	03/12/96
2-Methylphenol	95-48-7	ND	10	ug/L	03/12/96
4-Methylphenol	106-44-5	ND	10	ug/L	03/12/96
2-Nitrophenol	88-75-5	ND	10	ug/L	03/12/96
4-Nitrophenol	100-02-7	ND	50	ug/L	03/12/96
Pentachlorophenol	87-86-5	ND	50	ug/L	03/12/96
Phenol	108-95-2	ND	10	ug/L	03/12/96
2,4,5-Trichlorophenol	95-95-4	ND	10	ug/L	03/12/96
2,4,6-Trichlorophenol	88-06-2	ND	10	ug/L	03/12/96

Reporting limit elevated for lead due to matrix interference.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-9
AEN LAB NO: 9603021-14
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 02/29/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE		METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace		EPA 200.0	-		Prep Date	03/04/96
#Digestion/ICP		EPA 200.0	-		Prep Date	03/04/96
CCR 17 Metals (Low Level)						
Ag	Silver	EPA 200.7	ND	0.001	mg/L	03/13/96
As	Arsenic	EPA 206.2	0.16 *	0.002	mg/L	03/13/96
Ba	Barium	EPA 200.7	0.014 *	0.002	mg/L	03/13/96
Be	Beryllium	EPA 200.7	ND	0.0005	mg/L	03/13/96
Cd	Cadmium	EPA 200.7	0.054 *	0.001	mg/L	03/13/96
Co	Cobalt	EPA 200.7	0.025 *	0.001	mg/L	03/13/96
Cr	Chromium	EPA 200.7	ND	0.002	mg/L	03/13/96
Cu	Copper	EPA 200.7	ND	0.002	mg/L	03/13/96
Hg	Mercury	EPA 245.1	ND	0.0002	mg/L	03/17/96
Mo	Molybdenum	EPA 200.7	0.003 *	0.002	mg/L	03/13/96
Ni	Nickel	EPA 200.7	0.099 *	0.002	mg/L	03/13/96
Pb	Lead	EPA 239.2	ND	0.005	mg/L	03/11/96
Sb	Antimony	EPA 200.7	0.006 *	0.004	mg/L	03/13/96
Se	Selenium	EPA 270.2	ND	0.01	mg/L	03/13/96
Tl	Thallium	EPA 200.7	0.02 *	0.01	mg/L	03/13/96
V	Vanadium	EPA 200.7	0.002 *	0.001	mg/L	03/13/96
Zn	Zinc	EPA 200.7	34 *	0.005	mg/L	03/13/96

Reporting limits elevated for lead and selenium due to matrix interference.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-15
AEN LAB NO: 9603021-15
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 02/29/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	03/04/96
#Digestion/ICP	EPA 200.0	-		Prep Date	03/04/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	0.014 *	0.005	mg/L	03/13/96
As Arsenic	EPA 206.2	0.003 *	0.002	mg/L	03/13/96
Ba Barium	EPA 200.7	0.01 *	0.01	mg/L	03/13/96
Be Beryllium	EPA 200.7	0.031 *	0.002	mg/L	03/13/96
Cd Cadmium	EPA 200.7	1.8 *	0.005	mg/L	03/13/96
Co Cobalt	EPA 200.7	12 *	0.005	mg/L	03/13/96
Cr Chromium	EPA 200.7	ND	0.01	mg/L	03/13/96
Cu Copper	EPA 200.7	0.03 *	0.01	mg/L	03/13/96
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	03/17/96
Mo Molybdenum	EPA 200.7	ND	0.01	mg/L	03/13/96
Ni Nickel	EPA 200.7	32 *	0.01	mg/L	03/13/96
Pb Lead	EPA 239.2	0.078 *	0.002	mg/L	03/13/96
Sb Antimony	EPA 200.7	ND	0.02	mg/L	03/13/96
Se Selenium	EPA 270.2	ND	0.02	mg/L	03/14/96
Tl Thallium	EPA 200.7	1.4 *	0.05	mg/L	03/13/96
V Vanadium	EPA 200.7	ND	0.005	mg/L	03/13/96
Zn Zinc	EPA 200.7	590 *	0.01	mg/L	03/13/96

Reporting limits elevated for metals due to matrix interference.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-16
AEN LAB NO: 9603021-16
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 02/29/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE		METHOD/ CAS#	RESULT		REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace		EPA 200.0	-			Prep Date	03/04/96
#Digestion/ICP		EPA 200.0	-			Prep Date	03/04/96
CCR 17 Metals (Low Level)							
Ag	Silver	EPA 200.7	ND		0.05	mg/L	03/13/96
As	Arsenic	EPA 206.2	0.010	*	0.002	mg/L	03/13/96
Ba	Barium	EPA 200.7	ND		0.1	mg/L	03/13/96
Be	Beryllium	EPA 200.7	0.03	*	0.02	mg/L	03/13/96
Cd	Cadmium	EPA 200.7	7.8	*	0.05	mg/L	03/13/96
Co	Cobalt	EPA 200.7	5.1	*	0.05	mg/L	03/13/96
Cr	Chromium	EPA 200.7	ND		0.1	mg/L	03/13/96
Cu	Copper	EPA 200.7	16	*	0.1	mg/L	03/13/96
Hg	Mercury	EPA 245.1	ND		0.0002	mg/L	03/17/96
Mo	Molybdenum	EPA 200.7	ND		0.1	mg/L	03/13/96
Ni	Nickel	EPA 200.7	14	*	0.1	mg/L	03/13/96
Pb	Lead	EPA 239.2	ND		0.005	mg/L	03/13/96
Sb	Antimony	EPA 200.7	ND		0.2	mg/L	03/13/96
Se	Selenium	EPA 270.2	0.004	*	0.004	mg/L	03/13/96
Tl	Thallium	EPA 200.7	ND		0.5	mg/L	03/13/96
V	Vanadium	EPA 200.7	0.05	*	0.05	mg/L	03/13/96
Zn	Zinc	EPA 200.7	2,700	*	0.1	mg/L	03/13/96

Reporting limits elevated for metals due to matrix interference.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-2
AEN LAB NO: 9603021-17
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 03/01/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE		METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace		EPA 200.0	-		Prep Date	03/04/96
#Digestion/ICP		EPA 200.0	-		Prep Date	03/04/96
CCR 17 Metals (Low Level)						
Ag	Silver	EPA 200.7	ND	0.001	mg/L	03/13/96
As	Arsenic	EPA 206.2	0.002 *	0.002	mg/L	03/14/96
Ba	Barium	EPA 200.7	0.018 *	0.002	mg/L	03/13/96
Be	Beryllium	EPA 200.7	ND	0.0005	mg/L	03/13/96
Cd	Cadmium	EPA 200.7	ND	0.001	mg/L	03/13/96
Co	Cobalt	EPA 200.7	0.039 *	0.001	mg/L	03/13/96
Cr	Chromium	EPA 200.7	ND	0.002	mg/L	03/13/96
Cu	Copper	EPA 200.7	0.004 *	0.002	mg/L	03/13/96
Hg	Mercury	EPA 245.1	ND	0.0002	mg/L	03/17/96
Mo	Molybdenum	EPA 200.7	ND	0.002	mg/L	03/13/96
Ni	Nickel	EPA 200.7	0.036 *	0.002	mg/L	03/13/96
Pb	Lead	EPA 239.2	ND	0.005	mg/L	03/13/96
Sb	Antimony	EPA 200.7	ND	0.004	mg/L	03/13/96
Se	Selenium	EPA 270.2	ND	0.004	mg/L	03/13/96
Tl	Thallium	EPA 200.7	0.01 *	0.01	mg/L	03/13/96
V	Vanadium	EPA 200.7	0.001 *	0.001	mg/L	03/13/96
Zn	Zinc	EPA 200.7	0.65 *	0.005	mg/L	03/13/96

Reporting limit elevated for lead due to matrix interference.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-4
AEN LAB NO: 9603021-18
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 03/01/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	03/04/96
#Digestion/ICP	EPA 200.0	-		Prep Date	03/04/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.001	mg/L	03/13/96
As Arsenic	EPA 206.2	0.013 *	0.002	mg/L	03/13/96
Ba Barium	EPA 200.7	0.13 *	0.002	mg/L	03/13/96
Be Beryllium	EPA 200.7	ND	0.0005	mg/L	03/13/96
Cd Cadmium	EPA 200.7	ND	0.001	mg/L	03/13/96
Co Cobalt	EPA 200.7	0.004 *	0.001	mg/L	03/13/96
Cr Chromium	EPA 200.7	ND	0.002	mg/L	03/13/96
Cu Copper	EPA 200.7	ND	0.002	mg/L	03/13/96
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	03/17/96
Mo Molybdenum	EPA 200.7	ND	0.002	mg/L	03/13/96
Ni Nickel	EPA 200.7	0.048 *	0.002	mg/L	03/13/96
Pb Lead	EPA 239.2	ND	0.005	mg/L	03/13/96
Sb Antimony	EPA 200.7	ND	0.004	mg/L	03/13/96
Se Selenium	EPA 270.2	ND	0.004	mg/L	03/13/96
Tl Thallium	EPA 200.7	ND	0.01	mg/L	03/13/96
V Vanadium	EPA 200.7	0.002 *	0.001	mg/L	03/13/96
Zn Zinc	EPA 200.7	0.031 *	0.005	mg/L	03/13/96

Reporting limit elevated for lead due to matrix interference.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-104
AEN LAB NO: 9603021-19
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 03/01/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	03/04/96
#Digestion/ICP	EPA 200.0	-		Prep Date	03/04/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.001	mg/L	03/13/96
As Arsenic	EPA 206.2	0.007 *	0.002	mg/L	03/13/96
Ba Barium	EPA 200.7	0.36 *	0.002	mg/L	03/13/96
Be Beryllium	EPA 200.7	ND	0.0005	mg/L	03/13/96
Cd Cadmium	EPA 200.7	ND	0.001	mg/L	03/13/96
Co Cobalt	EPA 200.7	0.005 *	0.001	mg/L	03/13/96
Cr Chromium	EPA 200.7	ND	0.002	mg/L	03/13/96
Cu Copper	EPA 200.7	ND	0.002	mg/L	03/13/96
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	03/17/96
Mo Molybdenum	EPA 200.7	ND	0.002	mg/L	03/13/96
Ni Nickel	EPA 200.7	0.026 *	0.002	mg/L	03/13/96
Pb Lead	EPA 239.2	ND	0.005	mg/L	03/13/96
Sb Antimony	EPA 200.7	ND	0.004	mg/L	03/13/96
Se Selenium	EPA 270.2	ND	0.004	mg/L	03/13/96
Tl Thallium	EPA 200.7	ND	0.01	mg/L	03/13/96
V Vanadium	EPA 200.7	0.002 *	0.001	mg/L	03/13/96
Zn Zinc	EPA 200.7	0.047 *	0.005	mg/L	03/13/96

Reporting limit elevated for lead due to matrix interference.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-3
AEN LAB NO: 9603021-20
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 03/01/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	03/07/96
Toluene	108-88-3	ND	0.5	ug/L	03/07/96
Ethylbenzene	100-41-4	ND	0.5	ug/L	03/07/96
Xylenes, Total	1330-20-7	ND	2	ug/L	03/07/96
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	03/07/96
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	03/04/96
#Digestion/ICP	EPA 200.0	-		Prep Date	03/04/96
#Extraction for TPH	EPA 3510	-		Extrn Date	03/07/96
TPH as Diesel	GC-FID	0.65 *	0.05	mg/L	03/07/96
TPH as Oil	GC-FID	0.2 *	0.2	mg/L	03/07/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.001	mg/L	03/13/96
As Arsenic	EPA 206.2	2.7 *	0.002	mg/L	03/13/96
Ba Barium	EPA 200.7	0.096 *	0.002	mg/L	03/13/96
Be Beryllium	EPA 200.7	0.0010 *	0.0005	mg/L	03/13/96
Cd Cadmium	EPA 200.7	ND	0.001	mg/L	03/13/96
Co Cobalt	EPA 200.7	0.008 *	0.001	mg/L	03/13/96
Cr Chromium	EPA 200.7	0.002 *	0.002	mg/L	03/13/96
Cu Copper	EPA 200.7	ND	0.002	mg/L	03/13/96
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	03/17/96
Mo Molybdenum	EPA 200.7	0.080 *	0.002	mg/L	03/13/96
Ni Nickel	EPA 200.7	0.007 *	0.002	mg/L	03/13/96
Pb Lead	EPA 239.2	ND	0.005	mg/L	03/13/96
Sb Antimony	EPA 200.7	ND	0.004	mg/L	03/13/96
Se Selenium	EPA 270.2	ND	0.1	mg/L	03/14/96
Tl Thallium	EPA 200.7	0.01 *	0.01	mg/L	03/13/96
V Vanadium	EPA 200.7	0.010 *	0.001	mg/L	03/13/96
Zn Zinc	EPA 200.7	3.7 *	0.005	mg/L	03/13/96

Reporting limits elevated for lead and selenium due to matrix interference.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: MW-3
AEN LAB NO: 9603021-21
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 03/01/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	03/04/96
#Digestion/ICP	EPA 200.0	-		Prep Date	03/04/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.005	mg/L	03/13/96
As Arsenic	EPA 206.2	0.002 *	0.002	mg/L	03/13/96
Ba Barium	EPA 200.7	0.01 *	0.01	mg/L	03/13/96
Be Beryllium	EPA 200.7	ND	0.002	mg/L	03/13/96
Cd Cadmium	EPA 200.7	0.11 *	0.005	mg/L	03/13/96
Co Cobalt	EPA 200.7	0.21 *	0.005	mg/L	03/13/96
Cr Chromium	EPA 200.7	ND	0.01	mg/L	03/13/96
Cu Copper	EPA 200.7	0.09 *	0.01	mg/L	03/13/96
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	03/17/96
Mo Molybdenum	EPA 200.7	ND	0.01	mg/L	03/13/96
Ni Nickel	EPA 200.7	0.60 *	0.01	mg/L	03/13/96
Pb Lead	EPA 239.2	ND	0.002	mg/L	03/11/96
Sb Antimony	EPA 200.7	ND	0.02	mg/L	03/13/96
Se Selenium	EPA 270.2	ND	0.004	mg/L	03/13/96
Tl Thallium	EPA 200.7	ND	0.05	mg/L	03/13/96
V Vanadium	EPA 200.7	ND	0.005	mg/L	03/13/96
Zn Zinc	EPA 200.7	170 *	0.01	mg/L	03/13/96

Reporting limits elevated for metals due to matrix interference.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-14
AEN LAB NO: 9603021-22
AEN WORK ORDER: 9603021
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 03/01/96
DATE RECEIVED: 03/01/96
REPORT DATE: 03/20/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	0.7 *	0.5	ug/L	03/07/96
Toluene	108-88-3	ND	0.5	ug/L	03/07/96
Ethylbenzene	100-41-4	ND	0.5	ug/L	03/07/96
Xylenes, Total	1330-20-7	8.4 *	2	ug/L	03/07/96
Purgeable HCs as Gasoline	5030/GCFID	0.8 *	0.05	mg/L	03/07/96
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	03/04/96
#Digestion/ICP	EPA 200.0	-		Prep Date	03/04/96
#Extraction for TPH	EPA 3510	-		Extrn Date	03/07/96
TPH as Diesel	GC-FID	0.14 *	0.05	mg/L	03/07/96
TPH as Oil	GC-FID	ND	0.2	mg/L	03/07/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.005	mg/L	03/13/96
As Arsenic	EPA 206.2	0.008 *	0.002	mg/L	03/13/96
Ba Barium	EPA 200.7	0.01 *	0.01	mg/L	03/13/96
Be Beryllium	EPA 200.7	0.004 *	0.002	mg/L	03/13/96
Cd Cadmium	EPA 200.7	0.12 *	0.005	mg/L	03/13/96
Co Cobalt	EPA 200.7	0.90 *	0.005	mg/L	03/13/96
Cr Chromium	EPA 200.7	ND	0.01	mg/L	03/13/96
Cu Copper	EPA 200.7	3.5 *	0.01	mg/L	03/13/96
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	03/17/96
Mo Molybdenum	EPA 200.7	ND	0.01	mg/L	03/13/96
Ni Nickel	EPA 200.7	2.3 *	0.01	mg/L	03/13/96
Pb Lead	EPA 239.2	0.025 *	0.002	mg/L	03/11/96
Sb Antimony	EPA 200.7	ND	0.02	mg/L	03/13/96
Se Selenium	EPA 270.2	ND	0.004	mg/L	03/13/96
Tl Thallium	EPA 200.7	0.09 *	0.05	mg/L	03/13/96
V Vanadium	EPA 200.7	0.007 *	0.005	mg/L	03/13/96
Zn Zinc	EPA 200.7	340 *	0.01	mg/L	03/13/96

Reporting limits elevated for metals due to matrix interference.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9603021

CLIENT PROJECT ID: 3018.95.21

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: 9603021
AEN LAB NO: 0306-BLANK
DATE EXTRACTED: 03/06/96
DATE ANALYZED: 03/07/96
INSTRUMENT: C
MATRIX: WATER

Method Blank

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

AEN LAB NO: 0307-BLANK
DATE EXTRACTED: 03/07/96
DATE ANALYZED: 03/07/96
INSTRUMENT: C

Method Blank

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

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9603021
DATE EXTRACTED: 03/06/96; 03/07/96
INSTRUMENT: C
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
03/07/96	LF-8	13	109
03/07/96	LF-3	20	87
03/07/96	LF-14	22	83
QC Limits:			59-118

DATE EXTRACTED: 03/04/96
DATE ANALYZED: 03/05/96
SAMPLE SPIKED: 9601416-04
INSTRUMENT: C

Matrix Spike Recovery Summary

Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Diesel	4.18	95	6	58-107	15

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9603021
AEN LAB NO: 0307-BLANK
DATE ANALYZED: 03/07/96
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: 9603021
INSTRUMENT: F
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
03/07/96	LF-8	13	94
03/07/96	LF-3	20	92
03/07/96	LF-14	22	94
QC Limits:			70-130

DATE ANALYZED: 03/07/96
SAMPLE SPIKED: LCS
INSTRUMENT: F

Laboratory Control Sample Recovery

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Benzene	19.1	89	4	60-120	20
Toluene	63.4	91	6	60-120	20
Hydrocarbons as Gasoline	500	109	6	60-120	20

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9603021
AEN LAB NO: 0304-BLANK
DATE EXTRACTED: 03/04/96
DATE ANALYZED: 03/12/96
INSTRUMENT: 11
MATRIX: WATER

Semi-Volatile Organic Compounds
GC/MS Extractables

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Acenaphthene	83-32-9	ND	10
Acenaphthylene	208-96-8	ND	10
Anthracene	120-12-7	ND	10
Benzidine	92-87-5	ND	50
Benzoic Acid	65-85-0	ND	50
Benzo(a)anthracene	56-55-3	ND	10
Benzo(b)fluoranthene	205-99-2	ND	10
Benzo(k)fluoranthene	207-08-9	ND	10
Benzo(g,h,i)perylene	191-24-2	ND	10
Benzo(a)pyrene	50-32-8	ND	10
Benzyl Alcohol	100-51-6	ND	20
Bis(2-chloroethoxy)methane	111-91-1	ND	10
Bis(2-chloroethyl)ether	111-44-4	ND	10
Bis(2-chloroisopropyl)ether	108-60-1	ND	10
Bis(2-ethylhexyl)phthalate	117-81-7	ND	10
4-Bromophenyl phenyl ether	101-55-3	ND	10
Butylbenzyl phthalate	85-68-7	ND	10
4-Chloroaniline	106-47-8	ND	20
2-Chloronaphthalene	91-58-7	ND	10
4-Chlorophenyl phenylether	7005-72-3	ND	10
Chrysene	218-01-9	ND	10
Dibenzo(a,h)anthracene	53-70-3	ND	10
Dibenzofuran	132-64-9	ND	10
Di-n-butylphthalate	84-74-2	ND	10
1,2-Dichlorobenzene	95-50-1	ND	10
1,3-Dichlorobenzene	541-73-1	ND	10
1,4-Dichlorobenzene	106-46-7	ND	10
3,3'-Dichlorobenzidine	91-94-1	ND	20
Diethylphthalate	84-66-2	ND	10
Dimethylphthalate	131-11-3	ND	10
2,4-Dinitrotoluene	121-14-2	ND	10
2,6-Dinitrotoluene	606-20-2	ND	10
Di-n-octylphthalate	117-84-0	ND	10
1,2-Diphenylhydrazine	122-66-7	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9603021
AEN LAB NO: 0304-BLANK
DATE EXTRACTED: 03/04/96
DATE ANALYZED: 03/12/96
INSTRUMENT: 11
MATRIX: WATER

GC/MS Extractables (Cont.)

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Fluoranthene	206-44-0	ND	10
Fluorene	86-73-7	ND	10
Hexachlorobenzene	118-74-1	ND	10
Hexachlorobutadiene	87-68-3	ND	10
Hexachlorocyclopentadiene	77-47-4	ND	10
Hexachloroethane	67-72-1	ND	10
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10
Isophorone	78-59-1	ND	10
2-Methylnaphthalene	91-57-6	ND	10
Naphthalene	91-20-3	ND	10
2-Nitroaniline	88-74-4	ND	50
3-Nitroaniline	99-09-2	ND	50
4-Nitroaniline	100-01-6	ND	50
Nitrobenzene	98-95-3	ND	10
N-nitrosodimethylamine	62-75-9	ND	10
N-nitrosodiphenylamine	86-30-6	ND	10
N-nitroso-di-n-propylamine	621-64-7	ND	10
Phenanthrene	85-01-8	ND	10
Pyrene	129-00-0	ND	10
1,2,4-Trichlorobenzene	120-82-1	ND	10
4-Chloro-3-methylphenol	59-50-7	ND	10
2-Chlorophenol	95-57-8	ND	10
2,4-Dichlorophenol	120-83-2	ND	10
2,4-Dimethylphenol	105-67-9	ND	10
4,6-Dinitro-2-methylphenol	534-52-1	ND	50
2,4-Dinitrophenol	51-28-5	ND	50
2-Methylphenol	95-48-7	ND	10
4-Methylphenol	106-44-5	ND	10
2-Nitrophenol	88-75-5	ND	10
4-Nitrophenol	100-02-7	ND	50
Pentachlorophenol	87-86-5	ND	50
Phenol	108-95-2	ND	10
2,4,5-Trichlorophenol	95-95-4	ND	10
2,4,6-Trichlorophenol	88-06-2	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9603021
DATES EXTRACTED: 03/04/96
INSTRUMENT: 11
MATRIX: WATER

Surrogate Standard Recovery Summary

			Percent Recovery					
Date Analyzed	Client Id.	Lab Id.	2-Fluoro-phenol	Phenol-d_5	Nitro-benzene-d_5	2-Fluoro-biphenyl	2,4,6-Tri-bromophenol	Terphenyl-d_{14}
03/12/96	LF-8	13	59	47	69	69	65	61
QC Limits:			21-100	10-94	35-114	43-116	10-123	33-141

DATE EXTRACTED: 03/04/96
DATE ANALYZED: 03/11/96
SAMPLE SPIKED: LCS
INSTRUMENT: 11

Laboratory Control Sample Recovery

Analyte	Spike Added (ug/L)	Percent Recovery	QC Limits Percent Recovery
Phenol	220	91	5-112
2-Chlorophenol	209	90	23-134
1,4-Dichlorobenzene	208	84	20-124
N-Nitrosodi-n-propylamine	212	72	0-230
1,2,4-Trichlorobenzene	209	79	44-142
4-Chloro-3-methylphenol	205	93	22-147
Acenaphthene	202	93	47-145
4-Nitrophenol	216	90	0-132
2,4-Dinitrotoluene	211	89	0-112
Pentachlorophenol	210	81	14-176
Pyrene	217	82	52-115

QUALITY CONTROL DATA

AEN JOB NO: 9603021
SAMPLE SPIKED: DI WATER
DATE(S) ANALYZED: 03/06-13/96
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	QC Limits RPD
Ag, Silver	ICP/200.7	ND	0.005	102	2	75-125	16
As, Arsenic	4000/206.2	ND	0.04	103	2	69-136	13
Ba, Barium	ICP/200.7	ND	0.2	108	2	75-125	16
Cd, Cadmium	ICP/200.7	ND	0.01	111	1	75-125	16
Cr, Chromium	ICP/200.7	ND	0.02	112	6	75-125	16
Cu, Copper	ICP/200.7	ND	0.025	110	4	75-125	16
Hg, Mercury	Hg/245.1	ND	2.0 ug/L	103	<1	89-121	10
Ni, Nickel	ICP/200.7	ND	0.05	112	3	75-125	16
Pb, Lead	4000/239.2	ND	0.02	111	3	75-125	14
Se, Selenium	4000/270.2	ND	0.08	98	4	75-115	13
Zn, Zinc	ICP/200.7	ND	0.05	113	2	75-125	16

END OF REPORT

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 3018.95.21	Field Logbook No.:	Date: 3/1/96	Serial No.:
Project Name: Volvo/GM	Project Location: OAKLAND, CA		No. 14887
Sampler (Signature):			Samplers: JCK

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	Title 22 Metals	TPH g	BTEX	TPH-d	TPH-o		HOLD	RUSH	REMARKS
LF-2	3/1/96	1330	17A	1		X								1 STD TAT
LF-4		1340	18A	1		X								
LF-104		1440	19A	↓		X								SEE PG 1
LF-3		1420	20A-F	6		X	X	X	X	X				
MW-3		1430	21A	1		X								
LF-14		1545	22A-F	6		X	X	X	X	X				

RELINQUISHED BY: (Signature)	DATE 3/1/96	TIME 16:40	RECEIVED BY: (Signature)	DATE 3/1/96	TIME 1646
RELINQUISHED BY: (Signature)	DATE 3/1/96	TIME 17:30	RECEIVED BY: (Signature)	DATE 3/1/96	TIME 1730
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.

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

FORM NO. 86/COC/ARF

C-1,S-1 R-2,S-2 9603021
R-3,S-1

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 3018.95.21	Field Logbook No.:	Date: 3/1/96	Serial No.: Nº 14889
Project Name: VOLVO / GM,	Project Location: OAKLAND, CA.		
Sampler (Signature): JC Keeler			

SAMPLES						ANALYSES								Samplers: JCK JMR
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	TITLE 22 METALS	TPHg BTEX	TPHd	TPHmo	8270 SIM	HOLD	RUSH	REMARKS
LF-17	2/28/96	1310	01A	1	H2O	X							STD TAT
LF-7	↓	1335	02A			X							
LF-10	2/29/96	1335	03A			X							RESULTS TO JOHN KEELER
LF-5		1105	04A			X							
LF-12		11:30	05A			X							
LF-F1		1255	06A			X							TITLE 22 METALS
LF-11		1305	07A			X							BASIN PLAN DETECTION LIMITS
LF-1		1320	08A			X							FIELD FILTERED & PRESERVED
MW-4		1500	09A			X							
LF-6		1455	10A			X							
MW-2		1425	11A			X							
MW-1		9:45	12A	↓		X							
LF-8		1045	13A-H	8		X	X	X	X	X	X		
LF-9		1220	14A	1		X							
LF-15		1300	15A	↓		X							
LF-16	↓	1310	16A	↓	↓	X							

RELINQUISHED BY: (Signature) J. C. Keeler	DATE 3/1/96	TIME 16:40	RECEIVED BY: (Signature) Michael E. Fredericks	DATE 3/1/96	TIME 16:40
RELINQUISHED BY: (Signature) Michael E. Fredericks	DATE 3/1/96	TIME 1730	RECEIVED BY: (Signature) Dina M. Bellomi	DATE 3/1/96	TIME 1730
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

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink) FORM NO. 86/COC/ARF

APPENDIX B

WATER-QUALITY SAMPLING FORMS

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Project Name: Volvo / GM

Sample Location: LF-1

Samplers Name: JCK JMR

Sampling Plan Prepared By: JCK

Sampling Method:

Date: 2/29/96

Sample No.: LF-1

☐ FB:

☐ DUP:

☐ Centrifugal Pump ☐ Disposable Bailer

☐ Submersible Pump ☒ Teflon Bailer

☒ Hand Bail ☐ _____ (Other)

Analyses Requested: TIZ22 METALS

Number and Types of Bottle used: 1 L. PLASTIC

20.00
2.45
17.55
.16
10530
1755
2.8080

Method of Shipment: AEN (Lab Name)

☒ Courier

☐ Hand Deliver:

Well Number: LF-1

Depth of Water: 2.45

Well Depth: 20.00

Height of Water Column: 17.55

Volume in Well: 2.81

Well Diameter:

☒ 2" (0.16 Gallon/Feet)

☐ 4" (0.65 Gallon/Feet

☐ 5" (1.02 Gallon/Feet)

☐ 6" (1.47 Gallon/Feet)

80% DTW _____

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
9:14								START
9:17		5		18.8	4.76	8440		CLEAR
9:20		6		19.6	4.09	24500		CLEAR
9:28		9		20.1	3.84	15.57		clear
9:35	4water	12		19.9	3.99	11.18		clear
13:20	3.62							SAMPLE

Inlet Depth:

Comments:
(Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.96.21

Project Name: VOLVO / GM

Sample Location: LF-2

Samplers Name: JCK JMR

Sampling Plan Prepared By: JCK

Sampling Method:

Date: 3/11/96

Sample No.: LF-2

☐ FB:

☐ DUP:

☐ Centrifugal Pump ☐ Disposable Bailer

☐ Submersible Pump ☒ Teflon Bailer

☒ Hand Bail ☐ _____ (Other)

14.75
4.51
10.24
.16
6144
1024
16384

Analyses Requested

TITLE 22 METALS

Number and Types of Bottle used

1 L. PLASTIC

Method of Shipment

AEN (Lab Name)

☒ Courier

☐ Hand Deliver:

Well Number: LF-2

Depth of Water: 4.51

Well Depth: 14.75

Height of Water Column: 10.24

Volume in Well: 1.64

Well Diameter:

☒ 2" (0.16 Gallon/Feet)

☐ 4" (0.65 Gallon/Feet

☐ 5" (1.02 Gallon/Feet)

☐ 6" (1.47 Gallon/Feet)

80% DTW _____

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
10:00								START
10:02		2		19.3	6.46	3840		MOD TURBID
10:04		4		19.5	6.40	3880		TURBID
10:06		5.5		19.8	6.37	3750		TURBID
13:30	4.65							SAMPLE
								DUPLICATE

Inlet Depth: _____

Comments: _____

(Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21
Date: 3/1/96
Project Name: Volvo/GM
Sample No.: LF-3
Sample Location: LF-3
☐ FB:
Samplers Name: JCK JMR
☐ DUP:
Sampling Plan Prepared By: JCK
Sampling Method:

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

Analyses Requested	Number and Types of Bottle used
TPH-D + O +	2 L. GL. BROWN
TPHG + BTEX	3 VOA
TITLE 22 METALS	1 L. PLASTIC

14.93
4.80
10.13
.16
6078
1013
16208

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

Well Number: LF-3
Depth of Water: 4.80
Depth: 14.93
Height of Water Column: 10.13
Volume in Well: 1.62

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

80% DTW _____

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
14:09								START
1411		2		20.2	6.41	3460		CLEAR
1413		4		20.1	6.40	3700		@ MOD TURBID
1415		6		20.0	6.37	3810		MOD TURBID
1420	5.10							SAMPLE

t Depth: _____

Comments: _____
(Recommended Method For Purging Well)

WTR.QLTY.SMPLNG.INFO.ZZJUL94/YL

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Project Name: Volvo/GM

Sample Location: LF-4

Samplers Name: JCK JMR

Sampling Plan Prepared By: JCK

Sampling Method:

Date: 3/1/96

Sample No.: LF-4

☐ FB:

☒ DUP: LF-104

☐ Centrifugal Pump ☐ Disposable Bailer

☐ Submersible Pump ☒ Teflon Bailer

☒ Hand Bail ☐ _____ (Other)

Analyses Requested

TITLE 22 METALS

Number and Types of Bottle used

1 L. PLASTIC

18.25
4.31
13.94
.16
8364
1394
2.2304

13.94 18.25
.3 11.15
1192 7.10

Method of Shipment

AEN (Lab Name)

☒ Courier

☐ Hand Deliver:

Well Number: LF-4

Depth of Water: 4.31

Well Depth: 18.25

Height of Water Column: 13.94

Volume in Well: 2.23

Well Diameter:

☒ 2" (0.16 Gallon/Feet)

☐ 4" (0.65 Gallon/Feet

☐ 5" (1.02 Gallon/Feet)

☐ 6" (1.47 Gallon/Feet)

80% DTW 7.10

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
10:13								START
10:15		2.5		19.4	6.66	2590		CLEAR
10:17		5		19.0	6.70	2730		CLEAR
10:19		7.5		19.5	6.77	2890		CLEAR
1340	11.10							SAMPLE
1440								DUPLICATE

Inlet Depth:

Comments:
(Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Project Name: VOLVO/GM

Sample Location: LF-5

Samplers Name: JCK JMR

Sampling Plan Prepared By: JCK

Sampling Method:

Date: 2/29/96

Sample No.: LF-5

☐ 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 L. PLASTIC

Method of Shipment: AEN (Lab Name)

☒ Courier

☐ Hand Deliver:

Well Number: LF-5

Depth of Water: 2.51

Well Depth: 21.10

Height of Water Column: 18.59

Volume in Well: 2.97

Well Diameter:

- ☐ 2" (0.16 Gallon/Feet)
- ☐ 4" (0.65 Gallon/Feet
- ☐ 5" (1.02 Gallon/Feet)
- ☐ 6" (1.47 Gallon/Feet)

21.10
2.51
1859
.16
11154
1859.
2.9744

18.59 × .8 = 14872

21.10 − 14.87 = 6.23

80% DTW 6.23

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
10:13								START
10:16		3		18.3	7.15	6570		TURBID
10:18		6		19.0	6.63	9380		TURBID
10:21		9		19.6	6.20	15630		TURBID
10:24		12		19.9	591	17690		TURBID
10:28		15		20.1	596	16200		TURBID
11:05	6.10							SAMPLE

Inlet Depth:

Comments:
(Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Project Name: Volvo/GM

Sample Location: LF-6

Samplers Name: JMR JCK

Sampling Plan Prepared By: JCK

Sampling Method: ____

Date: 2-29-96

Sample No.: LF-6

☐ 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 L. Plastic

Method of Shipment: AEN (Lab Name)

☒ Courier ____

☐ Hand Deliver:

Well Number: LF-6

Depth of Water: 4.75

Well Depth: 20.00

Height of Water Column: 15.25

Volume in Well: 2.5

Well Diameter:

☒ 2" (0.16 Gallon/Feet)

☐ 4" (0.65 Gallon/Feet

☐ 5" (1.02 Gallon/Feet)

☐ 6" (1.47 Gallon/Feet)

20.00
4.75
15.25
16
9150
15250
2.4400

15.25
.2
3.050
4.75
7800

80% DTW 7.80

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
14:37								Start Bailing
14:40		2.5		19.1	4.57	5.38		mod. turbid
14:42		5		19.4	4.49	5.38		mod. turbid
1444		7.5		19.4	4.48	5.29		Sl. turbid
	7.80							
14:55								Samp 6

Inlet Depth: ____

Comments: ____

(Recommended Method For Purging Well)

LEVINE•FRICKE

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Project Name: Volvo / GM

Sample Location: LF-7

Samplers Name: JMR JCK

Sampling Plan Prepared By: JCK

Sampling Method:

Date: 2/28/96

Sample No.: LF-7

☐ 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 L. PLASTIC

Method of Shipment: AEN (Lab Name)

☒ Courier

☐ Hand Deliver:

Well Number: LF-7

Depth of Water: 4.22

Well Depth: 21.50

Height of Water Column: 17.28

Volume in Well: 2.77

Well Diameter:

☒ 2" (0.16 Gallon/Feet)

☐ 4" (0.65 Gallon/Feet

☐ 5" (1.02 Gallon/Feet)

☐ 6" (1.47 Gallon/Feet)

21.50
4.22
17.28
.16
10368
1728
2.7648

17.28 21.50
.8 13.82
13824 768

80% DTW 7.68

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
1320								START
1324		3		19.5	7.27	1642		TURBID
1327		6		19.9	7.09	1761		TURBID
1329		9		20.0	7.10	1784		TURBID
1335	7.68							SAMPLED

Inlet Depth:

Comments:
(Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Project Name: VOLVO / GM

Sample Location: LF-8

Samplers Name: JCK JMR

Sampling Plan Prepared By: JCK

Sampling Method:

Date: 3/1/96

Sample No.: LF-8

☐ FB:

☐ DUP:

☒ Centrifugal Pump ☐ Disposable Bailer

☐ Submersible Pump ☒ Teflon Bailer

☐ Hand Bail ☐ _____ (Other)

Analyses Requested

TITLE 22 METALS

TPH-d+o

TPH-g BTEX

EBA 8270

Number and Types of Bottle used

1 L. PLASTIC

2 L. GLASS

3 VOA

2 L. GLASS

14.65
4.57
10.08
.65
5040
6048
65520

Method of Shipment

AEN (Lab Name)

☒ Courier

☐ Hand Deliver:

Well Number: LF-8

Depth of Water: 4.57

Well Depth: 14.65

Height of Water Column: 10.08

Volume in Well: 6.55

Well Diameter:

☐ 2" (0.16 Gallon/Feet)

☒ 4" (0.65 Gallon/Feet

☐ 5" (1.02 Gallon/Feet)

☐ 6" (1.47 Gallon/Feet)

80% DTW _____

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
10:28								START
10:29		7		15.3	6.82	2960		MOD TURBID
10:31		14		18.0	7.08	2690		TURBID / OFF
10:35								ON
10:36		21		17.6	7.12	2560		CLEAR / OFF
10:45								SAMPLE

Inlet Depth: _____

Comments: _____

(Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Project Name: VOLVO / GM

Sample Location: LF-9

Samplers Name: JCK JMR

Sampling Plan Prepared By: JCK

Sampling Method:

Date: 3/1/96

Sample No.: LF-9

☐ 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 L. PLASTIC

Method of Shipment: AEN (Lab Name)

☒ Courier

☐ Hand Deliver:

Well Number: LF-9

Depth of Water: 5.23

Well Depth: 13.88

Height of Water Column: 8.65

Volume in Well: 1.38

Well Diameter:

☐ 2" (0.16 Gallon/Feet)

☐ 4" (0.65 Gallon/Feet

☐ 5" (1.02 Gallon/Feet)

☐ 6" (1.47 Gallon/Feet)

13.88
5.23
8.65
.16
5190
865
1.3840

8.65 × .8 = 6.920

13.88 − 6.92 = 6.96

8.65 × .8 = 6.920

80% DTW 6.96

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
11:10								START
11:12		2		19.8	6.68	2500		TURBID
11:15		4		19.6	6.40	2630		TURBID
11:20	DEWATER	6		19.6	6.38	2670		TURBID
12:20	5.90							SAMPLE

Inlet Depth:

Comments:
(Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Project Name: Volvo / GM

Sample Location: LF-10

Samplers Name: JCK JMR

Sampling Plan Prepared By: JCK

Sampling Method:

Date: 2-29-96

Sample No.: LF-10

☐ 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 [redacted] L. Plastic JMR

Method of Shipment: AEN (Lab Name)

☒ Courier

☐ Hand Deliver:

Well Number: LF-10

Depth of Water: 5.62

Well Depth: 14.74

Height of Water Column: 9.12

Volume in Well: 6

Well Diameter:

☐ 2" (0.16 Gallon/Feet)

☒ 4" (0.65 Gallon/Feet)

☐ 5" (1.02 Gallon/Feet)

☐ 6" (1.47 Gallon/Feet)

14.74
5.62
9.12
.65
4560
5472
5.9280

9.12
.2
1.824
5.62
7.444

80% DTW 7.44

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
9:47								Start
9:48	Dewater	6		18.5	5.91	5.72		Sl. turbid / off
		8						
10:04								start
10:05		12		19.1	6.25	11.45		Clear
10:06	Dewater							off

Inlet Depth:

Comments:

(Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Project Name: VOLVO / GM

Sample Location: LF-11

Samplers Name: JCK JMR

Sampling Plan Prepared By: JCK

Sampling Method:

Date: 2/29/96

Sample No.: LF-11

☐ 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 L. PLASTIC

Method of Shipment: AEN (Lab Name)

☒ Courier

☐ Hand Deliver:

Well Number: LF-11

Depth of Water: 2.88

Well Depth: 20.01

Height of Water Column: 17.13

Volume in Well: 11.14

Well Diameter:

☐ 2" (0.16 Gallon/Feet)

☒ 4" (0.65 Gallon/Feet

☐ 5" (1.02 Gallon/Feet)

☐ 6" (1.47 Gallon/Feet)

20.01
2.88
17.13
.65
8565
10278
11.1345

80% DTW _____

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
8:55					3.77			START
8:57		12		19.1	4.44	34400		CLEAR
9:01		22						OFF
9:03		24		20.6	3.60	48800		ON/OFF / CLEAR
13:05	16.17							SAMPLE

Inlet Depth: _____

Comments: (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Project Name: Volvo / GM

Sample Location: LF-12

Samplers Name: JCK JMR

Sampling Plan Prepared By: JCK

Sampling Method:

Date: 2/29/96

Sample No.: LF-12

☐ 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 L. PLASTIC

Method of Shipment: AEN (Lab Name)

☒ Courier

☐ Hand Deliver:

14.70
6.28
8.42
.65
4210
5052
54730

8.42 × .8 = 6896

14.70 − 6.90 = 7.80

Well Number: LF-12

Depth of Water: 6.28

Well Depth: 14.70

Height of Water Column: 8.42

Volume in Well: 5.47

Well Diameter:

☐ 2" (0.16 Gallon/Feet)

☒ 4" (0.65 Gallon/Feet)

☐ 5" (1.02 Gallon/Feet)

☐ 6" (1.47 Gallon/Feet)

80% DTW 7.80

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
10:41								START
10:42		6		17.6	4.38	7930		SL. TURBID
10:43	DEWATER	8						OFF
10:53								ON
10:54		12		18.2	3.92	10250		SL. TURBID
10:55	DEWATER	13						OFF
11:30	7.80							SAMPLE

Inlet Depth:

Comments:

(Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Project Name: VOLVO/GM

Sample Location: LF-14

Samplers Name: JCK JMR

Sampling Plan Prepared By: JCK

Sampling Method:

Date: 3/1/96

Sample No.: LF-14

☐ 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 L. PLASTIC

Method of Shipment: AEN (Lab Name) ☒ Courier

☐ Hand Deliver:

Well Number: LF-14

Depth of Water: 5.95

Well Depth: 25.00

Height of Water Column: 19.05

Volume in Well: 3.05

Well Diameter:

☒ 2" (0.16 Gallon/Feet)

☐ 4" (0.65 Gallon/Feet

☐ 5" (1.02 Gallon/Feet)

☐ 6" (1.47 Gallon/Feet)

25.00
5.95
19.05
.16
11430
1905
30480

19.05
.8
15240

25.00
15.24
9.76

80% DTW 9.76

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
14:52								START
14:55		3.25		19.4	4.95	4880		TURBID
15:02		6.50		19.3	5.02	6120		TURBID
15:07	DEWATER	8.00						
1545	8.65							SAMPLE

Inlet Depth: _____

Comments: _____

(Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Project Name: Volvo / GM

Sample Location: LF-15

Samplers Name: JCK JMR

Sampling Plan Prepared By: JCK

Sampling Method:

Date: 3/1/96

Sample No.: LF-15

☐ 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 L. PLASTIC

Method of Shipment: AEN (Lab Name)

☒ Courier

☐ Hand Deliver:

Well Number: LF-15

Depth of Water: 5.92

Well Depth: 20.03

Height of Water Column: 14.11

Volume in Well: 2.26

Well Diameter:

☒ 2" (0.16 Gallon/Feet)

☐ 4" (0.65 Gallon/Feet

☐ 5" (1.02 Gallon/Feet)

☐ 6" (1.47 Gallon/Feet)

20.03
5.92
14.11
.16
8466
1411
2257 6

14.11
.8
11288

20.03
11.29
8 74

80% DTW 8.74

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
11:39								START
11:40		2.50		18.9	5.03	17300		TURBID
11:42		5		18.9	4.99	19440		TURBID
11:45		7.5		18.8	4.69	19540		TURBID / DEWATERED
	8.74							
13:00								Stop G

Inlet Depth:

Comments:
(Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.021
Project Name: VOLVO / GM
Sample Location: LF-16
Samplers Name: JCK JWR
Sampling Plan Prepared By:
Sampling Method:

Date: 3/1/96
Sample No.: LF-16
☐ 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 L. PLASTIC

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

Well Number: LF-16
Depth of Water: 6.26
Depth: 24.50
Height of Water Column: 18.24
Volume in Well: 2.92

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

24.50
6.26
18.24
.16
10.944
18.24
2.9184

18.24 × 3 = 14.592

24.50 − 14.59 = 9.91

80% DTW 9.91

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
2:01								START
2:04		3		19.4	4.32	12860		TURBID
2:08		6		19.4	4.28	13490		TURBID SPLOTCHES OF PROD
12:12		9		19.3	4.31	14110		TURBID " " "
3:10	6.98							SAMPLE

Depth: _____

Comments: _____
(Recommended Method For Purging Well)

WTRQLTY.SMPLNG.INFO 22JUL94TYL

WATER-QUALITY SAMPLING INFORMATION

Project No.: 1649.95.21

Project Name: VOLVO / GM

Sample Location: LF-17

Samplers Name: JCK JMR

Sampling Plan Prepared By: JCK

Sampling Method:

Date: 2/28/96

Sample No.: LF-17

☐ FB:

☐ DUP:

☒ Centrifugal Pump ☐ Disposable Bailer

☐ Submersible Pump ☒ Teflon Bailer

☐ Hand Bail ☐ _____ (Other)

Analyses Requested

TITLE 22 METALS

Number and Types of Bottle used

6 / 1 L. PLASTIC

20.20
4.63
15.57
.65
7785
9342
10 12 05

15.57
.8
12456

20.20
12.46
7.74

Method of Shipment

_____ (Lab Name)

☐ Courier _____

☐ Hand Deliver:

Well Number: LF-17

Depth of Water: 4.63

Well Depth: 20.20

Height of Water Column: 15.57

Volume in Well: 10.12

Well Diameter:

☐ 2" (0.16 Gallon/Feet)

☐ 4" (0.65 Gallon/Feet

☐ 5" (1.02 Gallon/Feet)

☐ 6" (1.47 Gallon/Feet)

80% DTW 7.74

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
12:30								START
12:31		11		16.1	7.38	622		CLEAR
12:32	DEWATER	15						OFF
1238	~11.5							ON
1239		22		16.8	7.10	1290		SL. TURBD
1240	DEWATER	25						OFF
1248								ON
1249		33		16.5	6.97	1326		CLEAR
1250	DEWATER	36						OFF
13:10	7.70							SAMPLE

Inlet Depth: _____

Comments: _____

(Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Project Name: Volvo/GM

Sample Location: LF-F1

Samplers Name: JCK JMR

Sampling Plan Prepared By: JCK

Sampling Method: ____

Date: 2/29/96

Sample No.: LF-F1

☐ 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 L PLASTIC

Method of Shipment: AEN (Lab Name)

☒ Courier ____

☐ Hand Deliver:

Well Number: LF-F1

Depth of Water: 2.31

Well Depth: 7.16

Height of Water Column: 4.85

Volume in Well: 3.15

Well Diameter: ____

☐ 2" (0.16 Gallon/Feet)

☒ 4" (0.65 Gallon/Feet

☐ 5" (1.02 Gallon/Feet)

☐ 6" (1.47 Gallon/Feet)

7.16
2.31
4.85
.65
2425
2910
31525

80% DTW ____

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
8:45								START
8:47		3.5		17.6	6.78	3570		CLEAR
8:50		7.0		18.2	6.50	3830		CLEAR
12:55	2.40							SAMPLE

Inlet Depth: ____

Comments: ____

(Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.96.21

Project Name: Volvo/GM

Sample Location: MW-1

Samplers Name: JCK JME

Sampling Plan Prepared By: JCK

Sampling Method:

Date: 3/1/96

Sample No.: MW-1

☐ 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 L. PLASTIC

28.50
2.53
25.97
.16
15582
2597
4.1552

Method of Shipment

AEN (Lab Name)

☒ Courier

☐ Hand Deliver:

Well Number:

Depth of Water: 2.53

Well Depth: 28.50

Height of Water Column: 25.97

Volume in Well: 4.16

Well Diameter:

☒ 2" (0.16 Gallon/Feet)

☐ 4" (0.65 Gallon/Feet

☐ 5" (1.02 Gallon/Feet)

☐ 6" (1.47 Gallon/Feet)

80% DTW _____

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
19:09								START
19:10		4.5		19.0	6.86	1499		TURBID
19:12		4.5 (9)		19.6	6.98	1182		TURBID
19:14	NO WATER	13.5		20.2	7.02	1213		TURBID
19:[illegible]								
9:45	5.00							SAMPLE

Inlet Depth:

Comments:

(Recommended Method For Purging Well)

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WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21
Project Name: Volvo/GM
Sample Location: MW-2
Samplers Name: JMP JCK
Sampling Plan Prepared By: JCK
Sampling Method:

Date: 2-29-96
Sample No.: MW-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 L. Plastic

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

27.00
3.12
23.88
.16
14328
23880
3.8208

23.88
.2
6.776
3.12
9.896

Well Number: MW-2
Depth of Water: 3.12
Well Depth: 27.00
Height of Water Column: 23.88
Volume in Well: 4

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

80% DTW 9.89

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
14:11								start
14:12		4		19.5	4.76	8.31		turbid
14:14		8		19.9	4.77	5.67		mod. turbid
14:15		12		20.7	4.64	5.68		mod. turbid
14:18		16		20.9	4.48	5.80		sl. turbid
14:20	DRAINED	20		21.2	4.46	6.80		turbid / off
14:25	18.80							SAMPLE

Inlet Depth:

Comments:
(Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21
Project Name: Volvo / GM
Sample Location: MW-3
Samplers Name: JCK JMR
Sampling Plan Prepared By: JCK
Sampling Method:

Date: 3/1/96
Sample No.: MW-3
☐ 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 PLASTIC

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

27.00
4.37
22.63
.16
13578
2263
3.6108

22.63
.8
18124

27.00
18.12
8.88

Well Number: MW-3
Depth of Water: 4.37
Well Depth: 27.00
Height of Water Column: 22.63
Volume in Well: 3.61

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

80% DTW 8.88

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
13:18								START
13:19		4		20.6	5.16	5500		TURBID
13:20		8		19.3	4.89	4450		TURBID
13:22		12		20.0	4.81	6240		TURBID
13:30	4.75							SAMPLE

Inlet Depth:

Comments:
(Recommended Method For Purging Well)

WQSAMPLING INFO.22JUL94.RTL

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Project Name: Volvo / GM

Sample Location: MW-4

Samplers Name: JCK JMR

Sampling Plan Prepared By: JCK

Sampling Method:

Date: 2/29/96

Sample No.: MW-4

☐ 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 L. PLASTIC

23.94
3.36
20.58
.16
12318
2058
32898

20.58
8
1646

23.94
16.46
7.48

Method of Shipment: AEN (Lab Name)

☒ Courier

☐ Hand Deliver:

Well Number: MW-4

Depth of Water: 3.36

Well Depth: 23.94

Height of Water Column: 20.58

Volume in Well: 3.29

Well Diameter:

☒ 2" (0.16 Gallon/Feet)

☐ 4" (0.65 Gallon/Feet

☐ 5" (1.02 Gallon/Feet)

☐ 6" (1.47 Gallon/Feet)

80% DTW 7.48

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temparture °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
13:49								START
13:51			3.50	19.2	6.12	2060		MOD TURBID
13:54			7.0	19.9	6.20	2140		TURBID
13:57			10.5	20.1	6.26	2390		TURBID
15:00	6.70							SAMPLE

Inlet Depth:

Comments:

(Recommended Method For Purging Well)