

LEVINE • FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

Quarterly Monitoring Report for
April 1 through June 30, 1995
East Baybridge Center
Emeryville and Oakland, California

July 31, 1995
1649.95-02

Prepared for
Catellus Development Corporation
201 Mission Street
San Francisco, California 94105

 **LEVINE • FRICKE**
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

July 31, 1995

LF 1649.95-02

Ms. Susan Hugo
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Second Floor
Alameda, California 94502

Subject: Quarterly Monitoring Report for April 1 through June 30, 1995, East Baybridge Center, Emeryville and Oakland, California

Dear Ms. Hugo:

The enclosed report presents the results of quarterly ground-water monitoring for April 1 through June 30, 1995, at the Yerba Buena/East Baybridge Center in Emeryville and Oakland, California.

Monitoring was conducted in accordance with Levine-Fricke's "Ground-Water Monitoring Plan for the East Baybridge Center, Emeryville and Oakland, California," dated December 19, 1994 and submitted to the Alameda County Health Care Services Agency.

If you have any questions or comments concerning this report, please call me.

Sincerely,



Ron Goloubow
Senior Project Geologist

Enclosure

cc: James Adams, Catellus Development
Sumadhu Arigala, Regional Water Quality Control Board

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CERTIFICATION

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



Donald T. Bradshaw
Senior Associate Hydrogeologist
California Registered Geologist (5300)

7/31/95
Date

July 31, 1995

LF 1649.95-02

**QUARTERLY GROUND-WATER MONITORING REPORT
FOR APRIL 1 THROUGH JUNE 30, 1995
EAST BAYBRIDGE CENTER
EMERYVILLE AND OAKLAND, CALIFORNIA**

1.0 INTRODUCTION

This report presents the results of ground-water monitoring conducted by Levine-Fricke, Inc. ("Levine-Fricke") during the quarterly period from April 1 through June 30, 1995, at the East Baybridge Center in Emeryville and Oakland, California ("the Site"; Figure 1). The Site covers approximately 51 acres and is partially developed and undergoing further development. To aid in organizing environmental investigation, remediation, and monitoring activities, the Site has been divided into Areas A, B, and C (Figure 2).

Levine-Fricke has completed monitoring activities and is submitting this report on behalf of the Catellus Development Corporation ("Catellus") in accordance with the December 19, 1994 ground-water monitoring plan (Levine-Fricke 1994a) that was submitted to the Alameda County Health Care Services Agency (ACHA). Quarterly monitoring activities included measuring water levels in accessible wells and collecting ground-water samples from selected wells. Ground-water monitoring is being conducted to monitor volatile organic compound (VOC) concentrations in ground water and assess the effectiveness of a ground-water extraction system installed at the Site during the summer of 1994. In addition, soils affected with total petroleum hydrocarbons (TPH) have been contained on site beneath building pads. Monitoring data are being collected to assess possible effects on ground-water quality beneath the Site from the contained soils.

2.0 BACKGROUND

From the early 1900s to approximately 1990, the Site was used by a variety of industrial and commercial businesses. These businesses included warehouse storage of predominantly dry goods and limited quantities of hazardous materials (oxides and acids [a complete record of materials stored at the Site is not available]); metal foundries; truck maintenance and repair; an auto storage and wrecking yard; a construction yard; and several passenger and freight rail lines.

In preparation for site development, Levine-Fricke initiated environmental investigations at the Site on behalf of Catellus in September 1989. Site investigation and remediation activities continued for approximately five years. Results of the Phase I and Phase II Investigations indicated that VOCs were present in shallow ground water beneath the Site. During site development activities, underground storage tanks (USTs) were excavated at several locations across the Site. Ground-water monitoring wells were installed in the vicinity of those former UST locations (Figure 2) to monitor ground-water quality in accordance with agency guidelines.

2.1 Areas A and B

As illustrated on Figure 2, Area A and a portion of Area B have been developed for commercial use, including a large retail store, several smaller retail stores, and two large parking areas. Areas north of the parking lots and west of Emery Street have not yet been developed.

A ground-water monitoring program was implemented at the Site in January 1992 to monitor VOC concentrations in ground water in Area A. To reduce the potential for off-site migration of shallow VOC-affected ground water, a ground-water extraction and treatment system was installed in Area A (Figure 2). This extraction system began operation in August 1994. Details regarding the operation of the extraction and treatment system are presented in a Levine-Fricke quarterly self-monitoring report, which is submitted to the East Bay Municipal Utilities District on a quarterly basis.

Approximately 25,000 cubic yards of petroleum hydrocarbon-affected soil were excavated from Area B and contained beneath building pads in Areas A and B in accordance with Levine-Fricke's Containment Plan (Levine-Fricke 1992a). Details regarding the removal of soil from this area of the Site were presented in Levine-Fricke's Soil Remediation Activities Report (Levine-Fricke 1992b). To assess ground-water quality in Areas A and B, five monitoring wells were installed and sampled on a quarterly basis for over a year. In response to a request from the Regional Water Quality Control Board (RWQCB), Levine-Fricke prepared a Soils Management Plan for the contained soils (Levine-Fricke 1994b). The plan outlined periodic ground-water monitoring to evaluate the possible effects on ground water from soils contained at the Site.

2.2 Area C

Area C (the area west of Hollis Street) is currently being developed for commercial use, including construction of two retail stores, one smaller retail store, and large parking areas.

VOCs have been detected in ground-water samples collected in Area C of the Site. Based on the distribution of VOCs detected, it appears that the VOCs have migrated from an off-site source. The RWQCB concurs with this conclusion as demonstrated by the RWQCB's letter to Catellus and others dated May 11, 1994.

Several USTs were identified at various locations within Area C during environmental investigations and site grading activities. Ground-water monitoring wells were installed following the excavation of some of these USTs. These ground-water monitoring wells (LF-31 and LF-32, installed at the former Bashland and Bay Area Warehouse properties, respectively) were monitored on a quarterly basis until they were destroyed during site development activities in June 1994, along with all other wells located west of Hollis Street (except well LF-13).

Replacement wells for those wells (MW-31R and MW-34R) will be installed following completion of site development in Area C; installation is anticipated to occur in mid- to late-1995. In addition, well MW-12R will be installed downgradient from (west) USTs formerly located along Beach Street, to monitor ground-water quality in that area. Wells MW-10R and MW-34R will be installed in locations presented on Figure 2 to monitor possible on-site migration of VOCs from a known source located north of the property.

3.0 GROUND-WATER ELEVATIONS AND FLOW DIRECTION

On May 8, 1995, depth to water was measured in all accessible on- and off-site wells to the nearest 0.01 foot using an electric water-level sounding probe. Table 1 summarizes the depth-to-water and ground-water elevation data collected. As shown, depth to ground water in shallow wells (less than 25 feet deep) ranged from 7.08 feet below ground surface (bgs) in well MW-2 to 19.47 feet bgs in well MW-9.

Figure 3 is a ground-water elevation contour map for water levels measured on May 8, 1995. As illustrated, the direction of shallow ground-water flow beneath the Site is toward the west-southwest, in the direction of the ground-water extraction wells (EX-3 and EX-4) and interceptor trench. The hydraulic gradient across the Site is 0.016 foot per foot (ft/ft), as measured between wells MW-2 and MW-9. The direction and gradient are consistent with the ground-water flow direction previously reported at the Site (Levine-Fricke 1993a, b, c, d).

The influence of pumping from the shallow extraction wells and trench on the ground-water flow pattern is illustrated in Figure 3 by depressions in the ground-water surface and deflection of contour lines in the vicinity of the extraction wells and trench.

4.0 GROUND-WATER SAMPLING AND ANALYSIS

Ground-water samples were collected on May 8 and 9, 1995 for chemical analysis. A total of 13 samples were collected from 12 shallow ground-water monitoring wells (less than 25 feet deep; MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, LF-13, LF-22, and LF-23) and two shallow extraction wells (less than 25 feet deep; EX-3 and EX-4). A total of four samples was collected from three intermediate-depth wells (30 to 45 feet deep; MW-6D, MW-7D, and MW-9D) and one deeper well (50 to 65 feet deep; MW-7Z).

Before ground-water samples were collected, 3 to 4 well volumes of water were purged from each well in accordance with field procedures for quarterly ground-water sampling described in Appendix A. During purging, indicator parameters such as pH, temperature, and specific conductance were recorded on water-quality sampling sheets, copies of which are included in Appendix B.

After collection, samples were submitted to American Environmental Network, Inc., a state-certified laboratory, under strict chain-of-custody procedures.

All samples, with the exception of those collected from wells MW-1 and MW-2, were analyzed for VOCs using EPA Method 8010. In addition, ground-water samples collected from wells MW-1, MW-3, MW-4, MW-5, MW-6, MW-7, EX-3, and EX-4 were analyzed for TPH as diesel (TPHd; carbon chain length C_{12} to C_{22}), and TPH as oil (TPHo; carbon chain length C_{22} to C_{36}) in accordance with the Soils Management Plan (Levine-Fricke 1994b). The sample from MW-2 was analyzed for TPH as diesel. Samples from wells MW-1 and MW-2 also were analyzed for TPH as gasoline (TPHg) and benzene, toluene, ethylbenzene, and total xylenes (BTEX) to monitor whether TPHg-affected ground water is migrating onto the Site. Results of chemical analyses are discussed in Section 5.0.

For QA/QC purposes, a duplicate sample was collected from well LF-22 and analyzed for VOCs. Results of the duplicate sample were similar to results of the primary sample.

5.0 GROUND-WATER QUALITY

Table 2 summarizes the analytical results for ground-water samples collected. Appendix C presents laboratory data sheets and chain-of-custody forms for the samples analyzed.

5.1 Volatile Organic Compounds

In general, the concentration of VOCs detected in samples collected during this monitoring period are within the same order of magnitude as samples previously collected at the Site (Table 2). No VOCs were detected at concentrations above method detection limits in ground-water samples collected from shallow wells MW-3 and MW-8, or from deeper wells MW-6D, MW-9D, and MW-7Z. No VOCs were detected in deeper well MW-7D.

1,1-Dichloroethene (1,1-DCE) was detected in six shallow wells at concentrations ranging from 0.0005 parts per million (ppm) (well LF-22) to 0.260 ppm (well MW-6). 1,1-DCE was detected at concentrations of 0.120 ppm and 0.210 ppm in shallow extraction wells EX-3 and EX-4, respectively.

Trichloroethene (TCE) was detected in shallow monitoring wells LF-13, LF-23, MW-5, and shallow extraction well EX-3 at concentrations of 0.006 ppm, 0.002 ppm, 0.0005 ppm, and 0.003 ppm respectively. TCE was not detected in the other shallow or deeper wells sampled during the current monitoring event.

Tetrachloroethene (PCE) was detected at 0.002 ppm in shallow monitoring wells MW-5 and at 0.005 ppm in off-site well LF-23. Higher concentrations of PCE were detected in shallow extraction wells EX-3 (0.031 ppm) and EX-4 (0.011 ppm). PCE was not detected in the remaining shallow or deeper wells sampled during the current monitoring event.

1,1,1-Trichloroethane (1,1,1-TCA) was detected at concentrations ranging from 0.002 ppm (MW-5) to 0.031 ppm (MW-6) in six shallow wells (MW-5, MW-6, MW-7, MW-9, EX-3, and EX-4). 1,1,1-TCA was not detected in deeper wells.

5.2 Total Petroleum Hydrocarbons

TPHd was detected in seven wells analyzed this period at concentrations ranging from 0.070 ppm (MW-3) to 0.200 ppm (MW-1, MW-2, and MW-6).

TPHo was not present above the detection limit (0.200 ppm) in the samples analyzed during this monitoring period.

TPHg was detected at 2.80 ppm in well MW-2.

BTEX was not present above method detection limits (0.0005 ppm) in well MW-1. The sample collected from well MW-2 contained benzene (0.025 ppm), toluene (0.009 ppm), ethylbenzene (0.085 ppm), and total xylenes (0.250 ppm).

6.0 SUMMARY

Ground-water gradient and flow direction measured in May 1995 are consistent with the ground-water flow direction previously reported for the Site (Levine-Fricke 1993a, b, c, d). Additionally, the direction of shallow ground-water flow beneath the western portion of the Site is being influenced by the ground-water extraction wells and extraction trench at the Site, as shown in Figure 3.

Analytical results for ground-water samples collected in February 1995 are similar to results previously reported for the Site during 1992 and 1993 (Table 2). Results indicate that the plume of VOC-affected ground water likely extends to the north between wells MW-3 and MW-6 and to the south between wells MW-7 and MW-8. The plume extends approximately 800 feet southwest (downgradient) from well MW-6 toward the extraction wells and trench, and is approximately 300 feet wide. Analytical results for samples from well MW-2 indicate that TPHg-affected ground water is migrating onto the property from the east.

Based on ground-water elevations in area wells, the extraction system is effectively capturing VOC-affected ground water and inhibiting off-site migration of affected ground water.

7.0 ACTIVITIES PROPOSED FOR JULY THROUGH SEPTEMBER 1995

Ground-water monitoring activities planned for July through September 1995 include water-level measurements and quarterly ground-water sampling. The sampling schedule is summarized in Table 3. It is anticipated that a report summarizing those activities will be submitted to the Alameda County Health Care Services Agency by October 31, 1995.

REFERENCES

- Levine-Fricke, Inc. 1992a. Containment Plan for Total Petroleum Hydrocarbon-Affected Soils, Yerba Buena Project Site, Emeryville and Oakland, California. March 10.
- . 1992b. Soil Remediation Activities Report, Former Ransome Property, Yerba Buena Project Site, Emeryville, California. December 21.
- . 1993a. Quarterly Monitoring Report for July 1 through September 30, 1993, Area A and the South-Central Portion of Area B, Yerba Buena/East Baybridge Center Project Site, Emeryville and Oakland, California. October 29.
- . 1993b. Quarterly Monitoring Report for July 1 through September 30, 1993, Former Bashland Property, Emeryville, California. October 29.
- . 1993c. Quarterly Monitoring Report for July 1 through September 30, 1993, Former Bay Area Warehouse Property, Emeryville, California. October 29.
- . 1993d. Quarterly Monitoring Report for July 1 through September 30, 1993, Former Ransome Property Yerba Buena/East Baybridge Project Site, Emeryville, California. October 29.
- . 1994a. Ground-Water Monitoring Plan, East Baybridge Center, Emeryville and Oakland, California. December 19.
- . 1994b. Soils Management Plan for Petroleum Hydrocarbon-Affected Soils, Yerba Buena/East Baybridge Center, Emeryville and Oakland, California. November 30.

Table 1
Well Construction and Ground-Water Elevation Data
East Baybridge Center
Emeryville and Oakland, California

Well Number	Well Elevation (1)	Well Depth (2)	Screened Interval (2)	Date Measured	Depth to Water	Ground-Water Elevation (3)
Shallow Wells						
MW-1	27.47	30	15-30	12-Sep-94	14.88	12.59
				30-Nov-94	14.61	12.86
				16-Feb-95	14.73	12.74
				08-May-95	14.55	12.92
MW-2	37.23	18	8-18	12-Sep-94	8.00	29.23
				30-Nov-94	6.84	30.39
				16-Feb-95	6.84	30.39
				08-May-95	7.08	30.15
MW-3	32.05	25	14-25	12-Sep-94	9.88	22.17
				30-Nov-94	9.96	22.09
				16-Feb-95	9.24	22.81
				08-May-95	9.82	22.23
MW-4	24.28	25	12-25	12-Sep-94	17.01	7.27
				30-Nov-94	16.15	8.13
				16-Feb-95	16.38	7.90
				08-May-95	16.27	8.01
MW-5	22.19	21.5	11.5-21.5	12-Sep-94	17.15	5.04
				30-Nov-94	15.94	6.25
				16-Feb-95	16.45	5.74
				08-May-95	16.08	6.11
MW-6	28.54	21.5	11.5-21.5	12-Sep-94	12.58	15.96
				30-Nov-94	12.75	15.79
				16-Feb-95	12.17	16.37
				08-May-95	12.75	15.79
MW-7	26.29	23.5	13.5-23.5	12-Sep-94	11.60	14.69
				30-Nov-94	11.53	14.76
				16-Feb-95	10.82	15.47
				08-May-95	11.84	14.45
MW-8	24.40	20.5	10.5-20.5	12-Sep-94	9.96	14.44
				30-Nov-94	9.96	14.44
				16-Feb-95	9.68	14.72
				08-May-95	10.06	14.34
MW-9	24.17	26	14-26	12-Sep-94	19.70	4.47
				30-Nov-94	17.65	6.52
				16-Feb-95	18.85	5.32
				08-May-95	19.47	4.70

Table 1
Well Construction and Ground-Water Elevation Data
East Baybridge Center
Emeryville and Oakland, California

Well Number	Well Elevation (1)	Well Depth (2)	Screened Interval (2)	Date Measured	Depth to Water	Ground-Water Elevation (3)
LF-22	17.99	20	10-20	12-Sep-94	11.96	6.03
				30-Nov-94	9.69	8.30
				16-Feb-95	10.45	7.54
				08-May-95	11.4	6.59
LF-23	17.99	20	10-20	12-Sep-94	12.24	5.75
				30-Nov-94	10.05	7.94
				16-Feb-95	11.10	6.89
				08-May-95	11.88	6.11
Extraction Wells						
EX-1 (LF-1)	23.51	NA	NA	12-Sep-94	24.83	-1.32
				30-Nov-94	19.16	4.35
				08-May-95	23.45	0.06
EX-2 (LF-2)	20.03	NA	NA	12-Sep-94	20.11	-0.08
				30-Nov-94	15.68	4.35
				08-May-95	20.70	-0.67
EX-3	20.96	24	7.5-24	12-Sep-94	22.33	-1.37
				30-Nov-94	15.50	5.46
				16-Feb-95	17.80	3.16
				08-May-95	19.80	1.16
EX-4	24.40	25	8-25	12-Sep-94	22.61	1.79
				30-Nov-94	20.70	3.70
				16-Feb-95	20.55	3.85
				08-May-95	20.85	3.55
Deeper Wells						
MW-6D	28.48	45	32-40	12-Sep-94	11.09	17.39
				30-Nov-94	11.46	17.02
				16-Feb-95	10.67	17.81
				08-May-95	11.58	16.90
MW-7D	26.27	40	27-40	12-Sep-94	11.32	14.95
				30-Nov-94	11.30	14.97
				16-Feb-95	11.01	15.26
				08-May-95	11.35	14.92
MW-9D	24.17	45	32-45	12-Sep-94	18.38	5.79
				30-Nov-94	16.35	7.82
				16-Feb-95	16.43	7.74
				08-May-95	16.96	7.21

Table 1
Well Construction and Ground-Water Elevation Data
East Baybridge Center
Emeryville and Oakland, California

Well Number	Well Elevation (1)	Well Depth (2)	Screened Interval (2)	Date Measured	Depth to Water	Ground-Water Elevation (3)
Deep Well						
MW-7Z	25.96	65	50-65	12-Sep-94	11.78	14.18
				30-Nov-94	10.76	15.20
				16-Feb-95	9.16	16.80
				08-May-95	9.85	16.11

Data entered by RCM\22-Jun-95. Proofed by JCK.

Notes

- (1) Well elevation is in feet mean sea level as surveyed by Nolte and Associates in August 1994.
- (2) Well depth and screened interval are in feet below ground surface as measured at the time of well installation.
- (3) Water level elevation is in feet mean sea level.

NA denotes not applicable, well associated with extraction trench.
 NM denotes water level not measured.

Table 2
Quarterly Summary of Ground-Water Quality Data
East Baybridge Center
Emeryville and Oakland, California
(concentrations expressed in parts per million [mg/L])

Well ID	Notes	Date	Lab	TPH(g)	TPH(d)	TPH(o)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TCE	1,1,1-TCA	PCE	1,1-DCE	1,1-DCA	1,2-DCA
Shallow Wells (20 to 25 feet below grade)																
MW-1		13-Sep-94	AEN	<0.005	0.30	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	NA	NA	NA	NA	NA	NA
		30-Nov-94	AEN	NA	0.10	<0.2	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		17-Feb-95	AEN	<0.05	0.08	<0.2	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA
		09-May-95	AEN	<0.05	0.20	<0.2	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA
MW-2		01-Dec-94	AEN	7.1	NA	NA	0.065	<0.01	0.13	0.47	NA	NA	NA	NA	NA	NA
		17-Feb-95	AEN	3.5	0.30	<0.2	0.045	0.005	0.11	0.35	NA	NA	NA	NA	NA	NA
		09-May-95	AEN	3.5	0.20	<0.2	0.025	0.009	0.085	0.25	NA	NA	NA	NA	NA	NA
MW-3		12-Sep-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		01-Dec-94	AEN	NA	0.07	<0.2	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		08-May-95	AEN	NA	0.07	<0.2	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-4		01-Dec-94	AEN	NA	0.09	<0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		08-May-95	AEN	NA	0.10	<0.2	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	0.004	<0.0005
MW-5		13-Sep-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	0.001	0.0007	0.003	0.002	<0.0005
		01-Dec-94	AEN	NA	0.05	<0.2	NA	NA	NA	NA	<0.0005	0.0007	0.0005	0.004	0.003	<0.0005
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	0.001	0.002	0.008	0.003	<0.0005
		08-May-95	AEN	NA	0.09	<0.2	NA	NA	NA	NA	0.0005	0.002	0.002	0.016	0.005	<0.0005
MW-6	(2)	13-Sep-94	AEN	NA	NA	NA	NA	NA	NA	NA	0.0005	0.041	<0.0005	0.280	0.005	0.001
	(6)	01-Dec-94	AEN	NA	0.08	NA	NA	NA	NA	NA	0.0006	0.041	<0.0005	0.300	0.004	<0.0005
duplicate		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.003	0.039	<0.003	0.280	0.003	<0.003
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.003	0.045	<0.003	0.290	0.004	<0.003
		09-May-95	AEN	NA	0.20	<0.2	NA	NA	NA	NA	<0.003	0.031	<0.003	0.260	0.003	<0.003
MW-7		12-Sep-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	0.017	<0.0005	0.160	0.003	0.0009
		30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	0.016	<0.0005	0.170	0.003	<0.0005
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.003	0.011	<0.003	0.120	<0.003	<0.003
		09-May-95	AEN	NA	0.09	<0.2	NA	NA	NA	NA	<0.0005	0.015	<0.0005	0.180	0.004	<0.0005

Table 2
Quarterly Summary of Ground-Water Quality Data
East Baybridge Center
Emeryville and Oakland, California
(concentrations expressed in parts per million [mg/L])

Well ID	Notes	Date	Lab	TPH(g)	TPH(d)	TPH(o)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TCE	1,1,1-TCA	PCE	1,1-DCE	1,1-DCA	1,2-DCA	
MW-8	(3)	13-Sep-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	<0.0005	
		02-Dec-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
		09-May-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
MW-9 Duplicate		12-Sep-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	0.017	<0.0005	0.120	0.0005	0.006	
		12-Sep-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	0.015	<0.0005	0.120	0.0005	0.009	
		30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	0.016	<0.0005	0.150	0.0005	<0.0005	
		30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	0.016	<0.0005	0.160	0.0005	<0.0005	
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.003	0.014	<0.003	0.120	<0.003	<0.003	
		08-May-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	0.013	<0.0005	0.110	0.005	<0.0005	
LF-13		09-May-95	AEN	NA	NA	NA	NA	NA	NA	NA	0.006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
LF-22	(1)	12-Jul-91	ANA	NA	NA	NA	NA	NA	NA	NA	0.0007	0.012	0.0017	0.053	0.0063	0.0016	
		07-Jan-92	ANA	NA	NA	NA	NA	NA	NA	NA	<0.0005	0.009	0.0037	0.041	0.0054	0.0011	
		16-Apr-92	ANA	NA	NA	NA	NA	NA	NA	NA	<0.0005	0.0026	0.0018	0.015	0.0021	<0.0005	
		23-Jul-92	ANA	NA	NA	NA	NA	NA	NA	NA	<0.0005	0.0034	0.0014	0.027	0.0052	<0.0005	
		20-Oct-92	ANA	NA	NA	NA	NA	NA	NA	NA	0.0008	0.0013	0.0007	0.014	0.004	<0.0005	
		25-May-93	ANA	NA	NA	NA	NA	NA	NA	NA	<0.0005	0.0008	0.0006	0.0061	0.0024	<0.0005	
		13-Jul-93	ANA	NA	NA	NA	NA	NA	NA	NA	0.0007	0.001	0.0009	0.0077	0.0033	<0.0005	
		13-Sep-94	AEN	NA	NA	NA	NA	NA	NA	NA	0.004	<0.0005	0.008	0.003	0.001	0.0007	
		01-Dec-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.0006	0.0009	<0.0005	
		17-Feb-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	0.0006	0.0007	0.001	<0.0005	
		09-May-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.0007	0.0007	<0.0005	
		Duplicate		09-May-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.0005	0.0006	<0.0005
		LF-23		12-Jul-91	ANA	NA	NA	NA	NA	NA	NA	NA	0.0039	0.0009	0.027	0.0012	0.011
07-Jan-92	ANA			NA	NA	NA	NA	NA	NA	NA	0.007	0.0023	0.056	0.0034	0.012	0.0013	
16-Apr-92	ANA			NA	NA	NA	NA	NA	NA	NA	0.0036	0.0007	0.020	0.0044	0.0044	0.0011	
23-Jul-92	ANA			NA	NA	NA	NA	NA	NA	NA	0.0038	0.0013	0.029	0.0061	0.0044	0.0014	
20-Oct-92	ANA			NA	NA	NA	NA	NA	NA	NA	0.0033	0.0005	0.023	0.0047	0.002	0.0015	
25-May-93	ANA			NA	NA	NA	NA	NA	NA	NA	0.0042	0.0007	0.016	0.0035	0.0017	0.0019	

Table 2

Quarterly Summary of Ground-Water Quality Data
East Baybridge Center
Emeryville and Oakland, California
(concentrations expressed in parts per million [mg/L])

Well ID	Notes	Date	Lab	TPH(g)	TPH(d)	TPH(o)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TCE	1,1,1-TCA	PCE	1,1-DCE	1,1-DCA	1,2-DCA
		13-Jul-93	ANA	NA	NA	NA	NA	NA	NA	NA	0.0081	0.0015	0.018	0.0074	0.0033	0.0051
		13-Sep-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	0.0006	0.002	0.003	0.0007
	(7)	01-Dec-94	AEN	NA	NA	NA	NA	NA	NA	NA	0.004	<0.0005	0.008	0.0006	<0.0005	<0.0005
	(8)	17-Feb-95	AEN	NA	NA	NA	NA	NA	NA	NA	0.003	<0.0005	0.006	<0.0005	<0.0005	<0.0005
	(9)	09-May-95	AEN	NA	NA	NA	NA	NA	NA	NA	0.002	<0.0005	0.005	<0.0005	<0.0005	<0.0005
Shallow Extraction Wells (20 to 30 feet below grade)																
EX-3	(5)	14-Sep-94	AEN	NA	NA	NA	NA	NA	NA	NA	0.004	0.014	0.042	0.100	0.005	0.001
		02-Dec-94	AEN	NA	0.10	<0.2	NA	NA	NA	NA	0.004	0.015	0.045	0.140	0.005	<0.0005
		17-Feb-95	AEN	NA	<0.05	<0.2	NA	NA	NA	NA	0.003	0.014	0.037	0.096	0.005	<0.0005
		09-May-95	AEN	NA	0.10	<0.2	NA	NA	NA	NA	0.003	0.012	0.031	0.120	0.005	<0.0005
EX-4		14-Sep-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	0.025	0.010	0.220	0.006	0.001
		02-Dec-94	AEN	NA	0.09	<0.2	NA	NA	NA	NA	<0.0005	0.020	0.011	0.240	0.006	<0.0005
		17-Feb-95	AEN	NA	<0.05	<0.2	NA	NA	NA	NA	<0.003	0.017	0.011	0.210	0.004	<0.003
		09-May-95	AEN	NA	0.10	<0.2	NA	NA	NA	NA	<0.003	0.020	0.011	0.210	0.004	<0.003
Deeper Wells (40 to 45 feet below grade)																
MW-6D		13-Sep-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.003	<0.0005	0.0005
		01-Dec-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		09-May-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-7D		13-Sep-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.003	<0.0005	<0.0005
		30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.003	<0.0005	<0.0005
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.003	<0.0005	<0.0005
		09-May-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-9D		12-Sep-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		08-May-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Table 2

Quarterly Summary of Ground-Water Quality Data
East Baybridge Center
Emeryville and Oakland, California
(concentrations expressed in parts per million [mg/L])

Well ID	Notes	Date	Lab	TPH(g)	TPH(d)	TPH(o)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TCE	1,1,1-TCA	PCE	1,1-DCE	1,1-DCA	1,2-DCA
Deep Well (65 feet below grade)																
MW-7Z		13-Sep-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Trip Blanks																
		17-Feb-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		10-May-95	AEN	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Field Blanks																
LF-22		17-Feb-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
LF-22		09-May-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-7Z		09-May-95	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Data entered by RCM\22-Jun-95. Data proofed by JCK and QA/QC by RES.

Key to abbreviations:

TPH(g) = Total petroleum hydrocarbons as gasoline
 TPH(d) = Total petroleum hydrocarbons as diesel
 TPH(o) = Total petroleum hydrocarbons as oil
 TCE = Trichloroethene
 1,1,1-TCA = 1,1,1-Trichloroethane
 PCE = Tetrachloroethene
 1,1-DCE = 1,1-Dichloroethene
 1,1-DCA = 1,1-Dichloroethane
 1,2-DCA = 1,2-Dichloroethane

Notes:

- (1) 0.00081 ppm vinyl chloride detected.
- (2) 0.002 ppm chloroform detected.
- (3) 0.0008 ppm chloroform detected.
- (4) 0.002 ppm chloroform detected.
- (5) 0.0008 ppm cis-1,2-DCE detected.
- (6) 0.002 ppm chloroform detected.
- (7) 0.0002 ppm chloroform, 0.002 ppm cis-1,2-DCE detected.
- (8) 0.002 ppm chloroform, 0.002 ppm cis-1,2-DCE detected.
- (9) 0.014 ppm chloroform, 0.001 ppm cis-1,2-DCE detected.

AEN = American Environmental Network in Pleasant Hill, California
 ANA = Incharge Testing Anametrix, Inc., in San Jose, California
 NA = parameter not analyzed

**Table 3
Ground-Water Sampling Schedule
East Baybridge Center
Emeryville and Oakland, California**

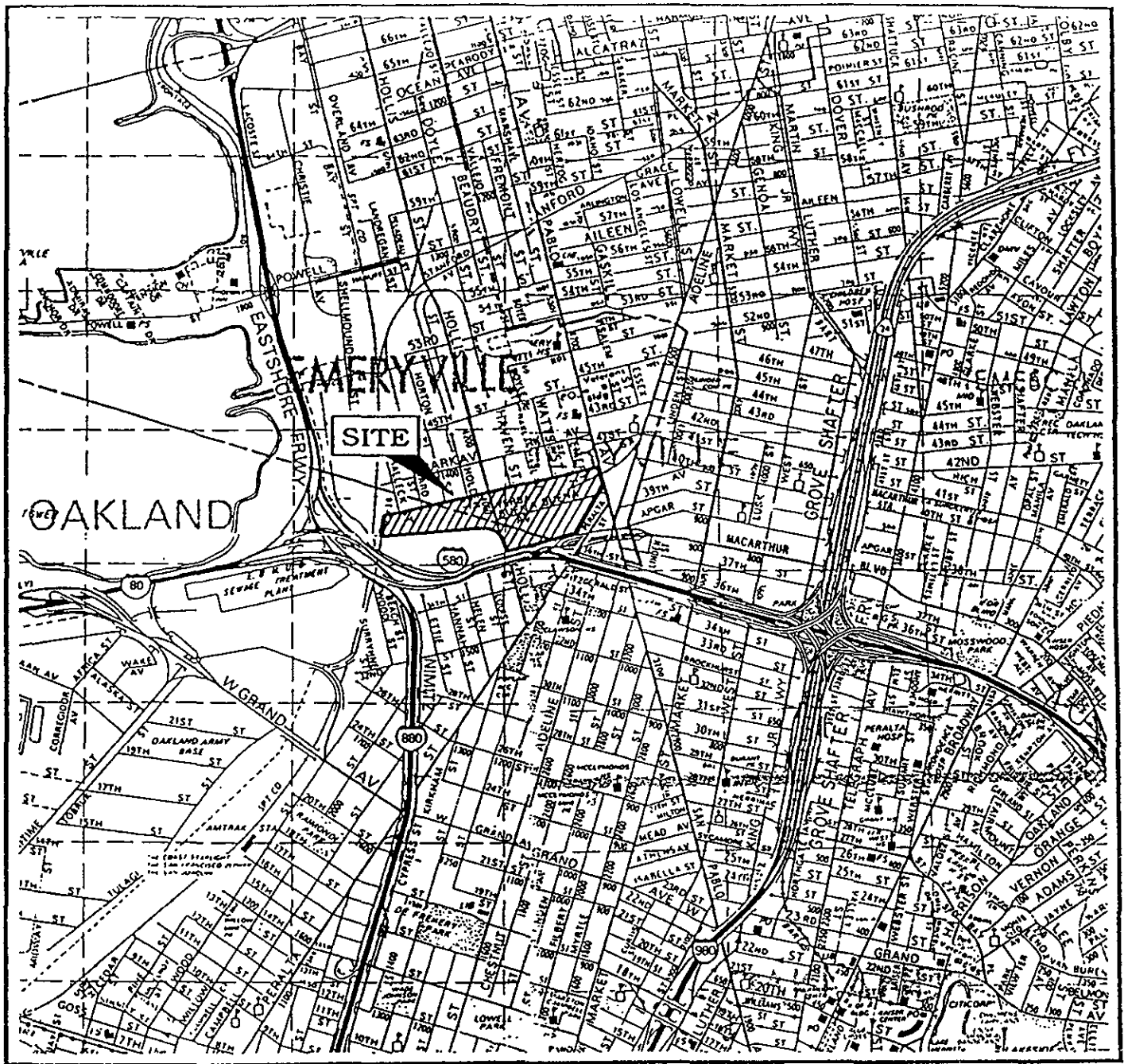
Quarterly Period	Area	Well Depth	Well Identification	Analysis
JULY through SEPTEMBER 1995	Area A	20' to 25'	MW-2	TPHg, TPHd, BTEX
			MW-3, MW-5, MW-6, MW-7, MW-8, MW-9, LF-22, LF-23	VOCs VOCs
			EX-3 & EX-4	TPHd, TPHo, VOCs
		40' to 45'	MW-6D, MW-7D, MW-9D	VOCs
		60'	MW-7Z	VOCs
	Area B	30'	MW-1	TPHg, BTEX, TPHd, TPHo
	Area C		Area C wells MW-10R, MW-12R, MW-31R, and MW-32R are scheduled to be installed in mid- to late-1995.	

NOTES:

The sampling proposed is in accordance with Levine-Fricke's December 19, 1994
"Ground-Water Monitoring Plan, East Baybridge Center, Emeryville and Oakland, California"

Analysis for TPHg will use EPA Method 5030.
Analysis for BTEX will use EPA Method 8020.
Analysis for TPHd and TPHo will use EPA Method 3510.
Analysis for VOCs will use EPA Method 8010.

One duplicate sample, a trip blank, and bailer rinsate blank will be analyzed for VOCs.



MAP SOURCE:
Alameda & Contra Costa Counties,
Thomas Bros. map, 1990 Edition

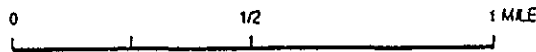
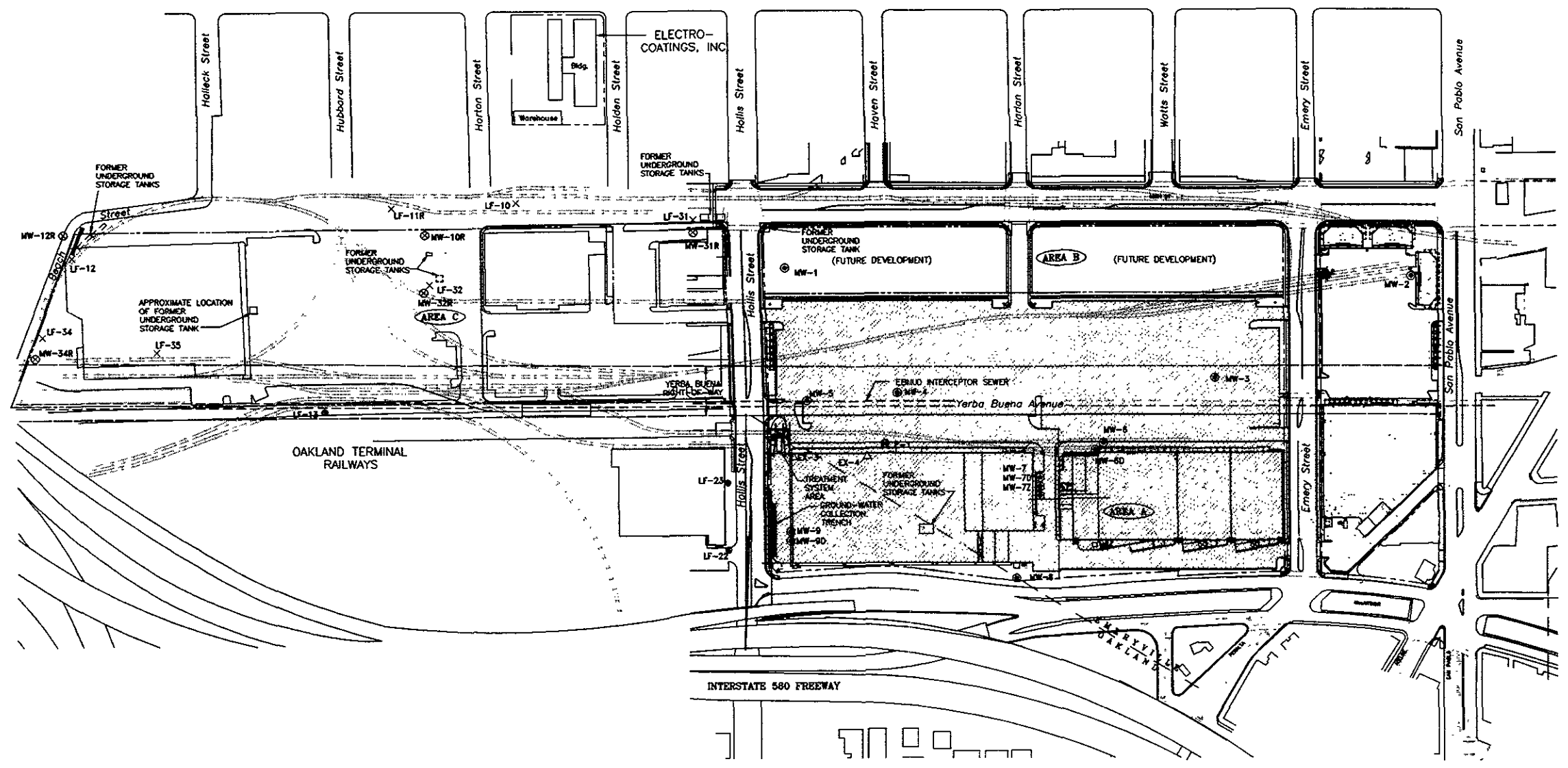
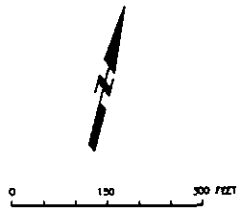


Figure 1: SITE LOCATION MAP
YERBA BUENA PROJECT SITE



- EXPLANATION**
- ⊙ MONITORING WELL LOCATION
 - △ EXTRACTION WELL
 - ⊕ PROPOSED MONITORING WELL LOCATION
 - × ABANDONED GROUND WATER MONITORING WELL
 - APPROXIMATE PROPERTY LINE
 - APPROXIMATE LOCATION OF PETROLEUM-AFFECTED SOIL CONTAINED ON SITE

REVISION	DESIGN	DRAWN	CHECKED	DATE

SCALE _____
 DESIGN _____
 DRAWN _____
 CHECKED _____

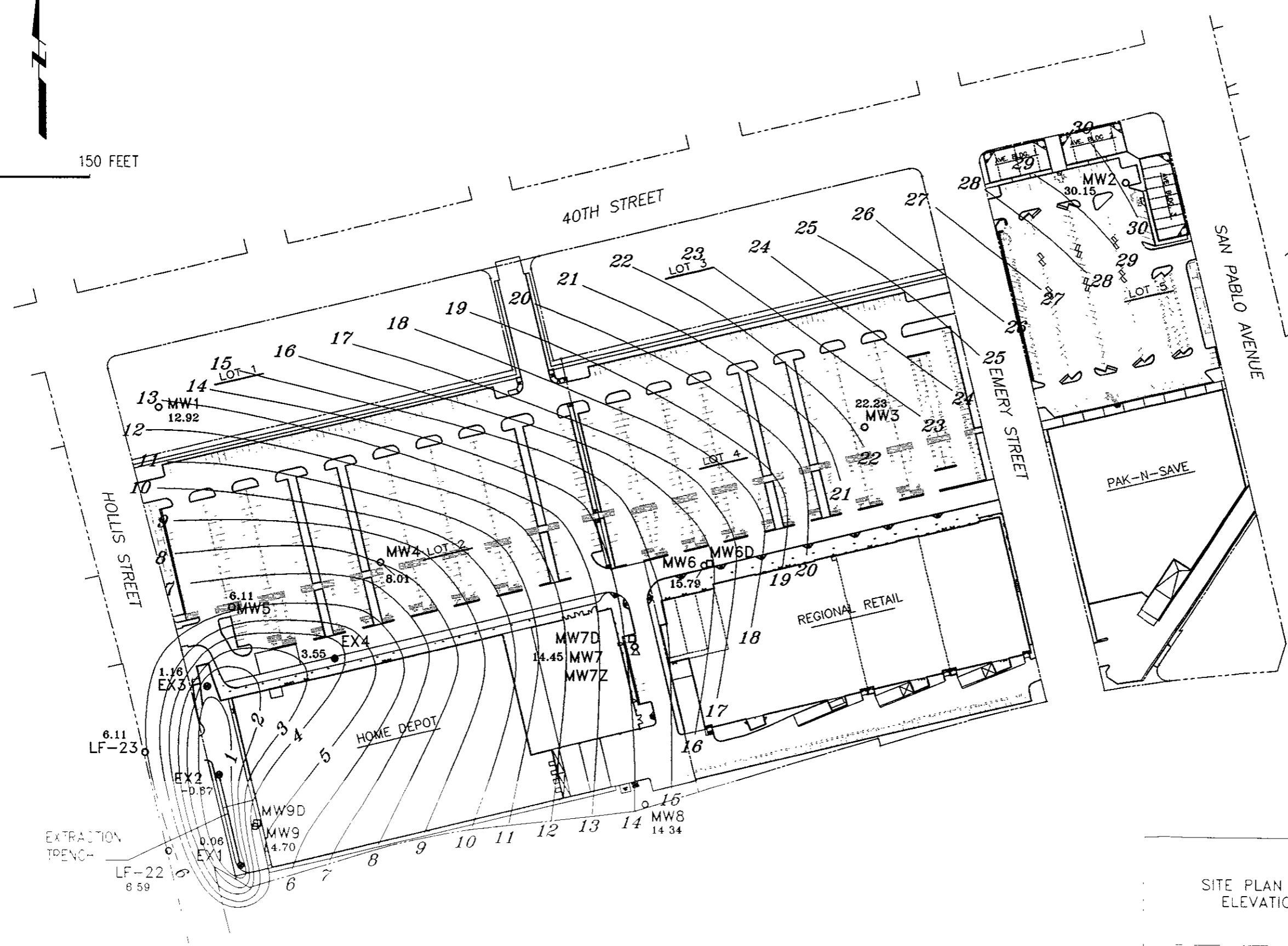
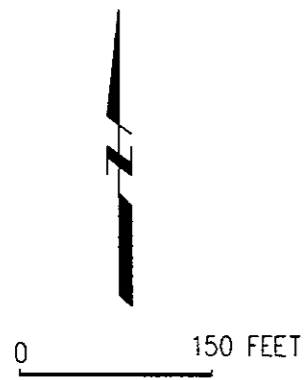
LEVINE • FRICKE
ENGINEERS, HYDROLOGISTS & APPLIED SCIENTISTS
 Emeryville, California

CATELLUS DEVELOPMENT CORPORATION

CATELLUS DEVELOPMENT CORPORATION

YERBA BUENA/EAST BAYBRIDGE DEVELOPMENT
 Figure 2
 SITE PLAN SHOWING LOCATIONS OF GROUND-WATER MONITORING WELLS AND UNDERGROUND STORAGE TANKS

Project No. 1649
 Date APR. 94
 Sheet of



EXPLANATION

- Shallow monitoring well location (less than 30 feet)
- Intermediate-depth monitoring well (35-45 feet)
- △ Deeper monitoring well location (65 feet)
- Extraction well
- 30.15 Ground-water elevation (feet)
- ~ 23 Ground-water elevation contour (feet)

Figure 3 :
 SITE PLAN SHOWING GROUND-WATER
 ELEVATIONS IN SHALLOW WELLS
 MAY 8, 1995

**APPENDIX A
FIELD PROCEDURES**

APPENDIX A

FIELD PROCEDURES

QUARTERLY GROUND-WATER SAMPLING

Before sample collection, depth to static water was measured in each well and the volume of water in the well casing was calculated. Three to five well casing volumes of ground-water were then purged from each well using a centrifugal pump or a bailer until indicator parameter readings (pH, specific conductance, and temperature) stabilized. Indicator parameters were measured using portable field instruments and measurements were recorded on water-quality sampling forms. Purging and sampling equipment were steam cleaned before use at each well. Purged ground water was pumped into the on-site treatment system.

After each well had been purged, ground-water samples were collected using a clean Teflon bailer. Samples were collected in containers appropriate for the laboratory analysis to be performed. Samples collected for VOC analyses were collected by pouring ground water directly from the bailer into laboratory-supplied, 40-milliliter volatile organic analysis (VOA) glass vials. Vials were gently filled to overflowing, capped, and then inverted to check for trapped air. If an air bubble was observed, the vial was discarded and a new vial filled. Samples were immediately capped and placed in an ice-chilled cooler for transportation to the analytical laboratory.

Ground-water samples were submitted to American Environmental Network, a state-certified laboratory, under strict chain-of-custody protocol. For quality assurance/quality control measures, a duplicate sample was collected from well LF-22 and analyzed for VOCs using EPA Method 8010. Laboratory certificates are presented in Appendix C.

**APPENDIX B
WATER-QUALITY SAMPLING SHEETS**

WATER-QUALITY SAMPLING INFORMATION

Project No.: 1649.02
 Project Name: EAST BAY BRIDGE
 Sample Location: MW-1
 Samplers Name: JCK
 Sampling Plan Prepared By: REG
 Sampling Method: _____

Date: 5/9/95
 Sample No.: MW-1
 FB: _____
 DUP: _____

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

Analyses Requested
TPH-d + o
TPH_gBTEX
 Number and Types of Bottle used

32.24
 14.55

 17.69
 .16

 10614
 1769

 28304

80% DTW _____

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

Well Number: MW-1 Well Diameter: _____
 Depth of Water: 14.55 2" (0.16 Gallon/Feet)
 Well Depth: 32.24 4" (0.65 Gallon/Feet)
 Height of Water Column: 17.69 5" (1.02 Gallon/Feet)
 Volume in Well: 2.83 6" (1.47 Gallon/Feet)

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
14:12								START.
14:15		3		17.1	7.01	775		TURBID
14:20		6		17.0	6.96	765		TURBID
14:25		9		17.0	6.98	761		TURBID
14:30	14.62							SAMPLE

Inlet Depth: _____

Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 1649.02
 Project Name: EAST BAY BRIDGE
 Sample Location: MW-5
 Samplers Name: JCK
 Sampling Plan Prepared By: JCK REG

Date: 5/8/95
 Sample No.: MW-5
 FB: _____
 DUP: _____

Sampling Method: _____

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

Analyses Requested
EPA 8010
TPH-d+o

Number and Types of Bottle used
3 UVA
2 L AMBER

Method of Shipment
AEN
 (Lab Name)

- Courier _____
 Hand Deliver: _____

Well Number: MW-5
 Depth of Water: 16.08
 Well Depth: 20.80
 Height of Water Column: 4.72
 Volume in Well: 0.76

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

20.80	
16.08	
4.72	
16	
2832	
472	
7552	

4.72	20.80
.8	3.78
3.776	17.12

80% DTW 17.12

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
6:55								START
15:57		1		19.8	7.06	924		TURBID
15:58		2		19.7	6.90	910		TURBID
16:03		3		19.4	6.85	904		TURBID
16:10	17.01							SAMPLE

Inlet Depth: _____

Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 1649.02
 Project Name: EAST BAY BRIDGE
 Sample Location: LF-22
 Samplers Name: JCK
 Sampling Plan Prepared By: REG
 Sampling Method: _____

Date: 5/9/95

Sample No.: LF-22

FB: LF-22-FB

DUP: LF-122

- Centrifugal Pump
- Submersible Pump
- Hand Bail

- Disposable Bailor
- Teflon Bailor
- _____
(Other)

Analyses Requested
EPA 8010

Number and Types of Bottle used
3V0A

19.65
 11.40

 8.25
 .65

 4125
 4950

 5.3625

80% DTW _____

Method of Shipment

AEN
(Lab Name)

Courier _____

Hand Deliver:

Well Number: LF-22

Well Diameter: _____

Depth of Water: 11.40

2" (0.16 Gallon/Feet)

Well Depth: 19.65

4" (0.65 Gallon/Feet)

Height of Water Column: 8.25

5" (1.02 Gallon/Feet)

Volume in Well: 5.36

6" (1.47 Gallon/Feet)

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
16:40								START START
16:44		6		17.5	7.13	913		SLTURBID
16:45	DEWATER	12		17.2	6.99	926		CLEAR / OFF
16:48		18		17.6	6.91	980		SLTURBID
17:00								FIELD BLANK
17:05								SA - PLC
18:05								DUPLICATE

Inlet Depth: _____

Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 1649.02
 Project Name: EAST BAY BRIDGE
 Sample Location: LF-23
 Samplers Name: JCK
 Sampling Plan Prepared By: REG

Date: 5/9/95
 Sample No.: LF-23
 FB: _____
 DUP: _____

Sampling Method: _____
 Centrifugal Pump Disposable Bailer
 Submersible Pump Teflon Bailer
 Hand Bail _____
 (Other)
 Analyses Requested: EPA 8010
 Number and Types of Bottle used: 3 JVA

18.50
 11.88

 6.62
 .65

 3310
 3972

 43030

6.62 14.50
 .8 5.30

 5296 13.20

80% DTW 13.20

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

Well Number: LF-23 Well Diameter: _____
 Depth of Water: 11.88 2" (0.16 Gallon/Feet)
 Well Depth: 18.50 4" (0.65 Gallon/Feet)
 Height of Water Column: 6.62 5" (1.02 Gallon/Feet)
 Volume in Well: 4.30 6" (1.47 Gallon/Feet)

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
6:11								START
6:13		5		18.1	7.89	722		TURBID
6:14		10		17.0	7.04	599		CLEAR
6:18	NEWER	15		17.0	7.00	671		ESL. TURBID
6:25	7.02							SAMPLE

Inlet Depth: _____

Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 1649.02
 Project Name: EAST BAY BRIDGE
 Sample Location: EX-3
 Samplers Name: JCK
 Sampling Plan Prepared By: REG
 Sampling Method: PURGE + SAMPLE @ PORT

Date: 5/9/95

Sample No.: EX-3

FB: _____
 DUP: _____

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

Analyses Requested

EPA 3010
TPH-d + 0

Number and Types of Bottle used

3 VOA
2 L GLASS

Method of Shipment

AEN
(Lab Name)

- Courier _____
 Hand Deliver: _____

Well Number: EX-3
 Depth of Water: EXTRACTION
 Well Depth: WELL
 Height of Water Column: _____
 Volume in Well: _____

- 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	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
<u>17:25</u>		<u>1</u>		<u>13.0</u>	<u>6.97</u>	<u>951</u>		<u>SAMPLE CLEAR</u>

Inlet Depth: _____

Comments: _____
(Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 1649.02
 Project Name: EAST BAY BRIDGE
 Sample Location: EX-4 SAMPLE PORT SYSTEM
 Samplers Name: JCL
 Sampling Plan Prepared By: REG
 Sampling Method: EXTRACTION WELL

Date: 5/9/95
 Sample No.: EX-4
 FB: _____
 DUP: _____

- | | |
|---|--|
| <input type="checkbox"/> Centrifugal Pump | <input type="checkbox"/> Disposable Bailer |
| <input type="checkbox"/> Submersible Pump | <input type="checkbox"/> Teflon Bailer |
| <input type="checkbox"/> Hand Bail | <input type="checkbox"/> <u>PURGE + SAMPLE PORT</u>
(Other) |

Analyses Requested
EPA 810
TPH-d+o

Number and Types of Bottle used
3 UOA
2 C. GL Amber

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

Well Number: EX-4 Well Diameter: _____
 Depth of Water: _____ 2" (0.16 Gallon/Feet)
 Well Depth: _____ 4" (0.65 Gallon/Feet)
 Height of Water Column: _____ 5" (1.02 Gallon/Feet)
 Volume in Well: _____ 6" (1.47 Gallon/Feet)

80% DTW _____

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
<u>7:35</u>		<u>1</u>		<u>17.9</u>	<u>6.94</u>	<u>929</u>		<u>SAMPLE CLEAR</u>

Inlet Depth: _____

Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 1649.02
 Project Name: EAST BAY BRIDGE
 Sample Location: MW-6D
 Samplers Name: JCK
 Sampling Plan Prepared By: REG
 Sampling Method: _____

Date: 5/9/95

Sample No.: MW-6D

FB: _____

DUP: _____

- Centrifugal Pump
- Submersible Pump
- Hand Bail

- Disposable Bailor
- Teflon Bailor
- _____
(Other)

Analyses Requested
EPA 8010

Number and Types of Bottle used
3 UO A

Method of Shipment
AEN
(Lab Name)

- Courier _____
- Hand Deliver: _____

Well Number: MW-6D

Well Diameter: _____

Depth of Water: 11.58

2" (0.16 Gallon/Feet)

Well Depth: 39.80

4" (0.65 Gallon/Feet)

Height of Water Column: 28.22

5" (1.02 Gallon/Feet)

Volume in Well: 4.52

6" (1.47 Gallon/Feet)

80% DTW 17.22

```

39.80
11.58
-----
28.22
.16
-----
28.38
169.32
28.22
-----
4.5152

28.22      39.80
.8         2.258
-----
225.76     172.2
    
```

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
9:59								
10:02		5	3	18.9	8.41	596		SL TURBID
10:12	DEWATER	10		21.5	8.12	567		SL TURBID / OFF
10:25				19.6	8.07			ON
10:25	DEWATER	15		19.6	8.07	548		SL TURBID / OFF
10:40								SAMPLE
10:55	18.98							

Inlet Depth: _____

Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 1649.02
 Project Name: EAST BAY BRIDGE
 Sample Location: MW-7D
 Samplers Name: JCK
 Sampling Plan Prepared By: REG
 Sampling Method:

Date: 5/29/95
 Sample No.: MW-7D
 FB: _____
 DUP: _____

- Centrifugal Pump
 Submersible Pump
 Hand Bail
 Disposable Bailer
 Teflon Bailer

 (Other)

Analyses Requested: EPA 3010
 Number and Types of Bottle used: 3 VOA

39.90
 11.35

 28.55
 .16

 171.30
 28.55

 4.5680

80% DTW _____

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

Well Number: MW-7D Well Diameter: _____
 Depth of Water: 11.35
 Well Depth: 39.90
 Height of Water Column: 28.55
 Volume in Well: 4.57

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

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
2:09								START
12:12				19.5	7.02	847		SLURBID
2:14				19.5	6.96	814		TURBID
12:16				19.5	6.91	803		TURBID
2:20	11.35							SAMPLE

Inlet Depth: _____

Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 1649.02
 Project Name: EAST BAY BRIDGE
 Sample Location: MW-7Z
 Samplers Name: JCL
 Sampling Plan Prepared By: REG
 Sampling Method: _____

Date: 5/9/95
 Sample No.: MW-7Z
 FB: _____
 DUP: _____

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

Analyses Requested
EPA 8010

Number and Types of Bottle used
3 UOA

Method of Shipment
AEN
 (Lab Name)

- Courier _____
 Hand Deliver: _____

Well Number: MW-7Z
 Depth of Water: 9.85
 Well Depth: 64.70
 Height of Water Column: 54.85
 Volume in Well: 8.78

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

64.70
 9.85

 54.85
 .16

 32910
 5485

 87760

64.70
 54.85
 .8

 43640 21.06

80% DTW 21.06

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
14:15								
14:16		9		19.1	7.01	734		TURBID
14:18		18		19.5	6.99	741		TURBID
14:19								OFF
14:22								ON
14:24		27		19.6	7.05	718		TURBID
14:25	20.5'							SAMPLE

Inlet Depth: _____
 Comments: 4:00 IS ACTUAL 13:00
 (Recommended Method For Purging Well)

APPENDIX C
LABORATORY CERTIFICATES

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

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

REPORT DATE: 05/30/95

DATE(S) SAMPLED: 05/08/95-05/09/95

DATE RECEIVED: 05/10/95

AEN WORK ORDER: 9505130

ATTN: RON GOLOUBOW
CLIENT PROJ. ID: 1649.02
CLIENT PROJ. NAME: EAST BAY BRDG
C.O.C. NUMBER: 013485


PROJECT SUMMARY:

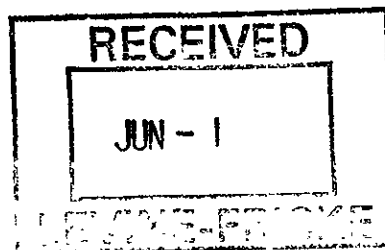
On May 10, 1995, this laboratory received 8 water sample(s).

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

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

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


Larry Klein
Laboratory Director



LEVINE-FRICKE

SAMPLE ID: MW-9
 AEN LAB NO: 9505130-01
 AEN WORK ORDER: 9505130
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/08/95
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	05/19/95
Bromoform	75-25-2	ND	0.5	ug/L	05/19/95
Bromomethane	74-83-9	ND	2	ug/L	05/19/95
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	05/19/95
Chlorobenzene	108-90-7	ND	0.5	ug/L	05/19/95
Chloroethane	75-00-3	ND	2	ug/L	05/19/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	05/19/95
Chloroform	67-66-3	ND	0.5	ug/L	05/19/95
Chloromethane	74-87-3	ND	2	ug/L	05/19/95
Dibromochloromethane	124-48-1	ND	0.5	ug/L	05/19/95
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	05/19/95
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	05/19/95
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	05/19/95
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	05/19/95
1,1-Dichloroethane	75-34-3	5 *	0.5	ug/L	05/19/95
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	05/19/95
1,1-Dichloroethene	75-35-4	110 *	0.5	ug/L	05/19/95
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	05/19/95
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	05/19/95
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	05/19/95
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	05/19/95
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	05/19/95
Methylene Chloride	75-09-2	ND	2	ug/L	05/19/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	05/19/95
Tetrachloroethene	127-18-4	ND	0.5	ug/L	05/19/95
1,1,1-Trichloroethane	71-55-6	13 *	0.5	ug/L	05/19/95
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	05/19/95
Trichloroethene	79-01-6	ND	0.5	ug/L	05/19/95
Trichlorofluoromethane	75-69-4	ND	2	ug/L	05/19/95
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	05/19/95
Vinyl Chloride	75-01-4	ND	2	ug/L	05/19/95

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE - FRICKE

SAMPLE ID: MW-9D
 AEN LAB NO: 9505130-02
 AEN WORK ORDER: 9505130
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/08/95
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	05/19/95
Bromoform	75-25-2	ND	0.5	ug/L	05/19/95
Bromomethane	74-83-9	ND	2	ug/L	05/19/95
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	05/19/95
Chlorobenzene	108-90-7	ND	0.5	ug/L	05/19/95
Chloroethane	75-00-3	ND	2	ug/L	05/19/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	05/19/95
Chloroform	67-66-3	ND	0.5	ug/L	05/19/95
Chloromethane	74-87-3	ND	2	ug/L	05/19/95
Dibromochloromethane	124-48-1	ND	0.5	ug/L	05/19/95
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	05/19/95
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	05/19/95
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	05/19/95
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	05/19/95
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	05/19/95
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	05/19/95
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	05/19/95
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	05/19/95
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	05/19/95
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	05/19/95
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	05/19/95
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	05/19/95
Methylene Chloride	75-09-2	ND	2	ug/L	05/19/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	05/19/95
Tetrachloroethene	127-18-4	ND	0.5	ug/L	05/19/95
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	05/19/95
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	05/19/95
Trichloroethene	79-01-6	ND	0.5	ug/L	05/19/95
Trichlorofluoromethane	75-69-4	ND	2	ug/L	05/19/95
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	05/19/95
Vinyl Chloride	75-01-4	ND	2	ug/L	05/19/95

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

LEVINE-FRICKE

SAMPLE ID: MW-5
 AEN LAB NO: 9505130-03
 AEN WORK ORDER: 9505130
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/08/95
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	05/13/95
TPH as Diesel	GC-FID	0.09 *	0.05	mg/L	05/16/95
TPH as Oil	GC-FID	ND	0.2	mg/L	05/16/95
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	05/19/95
Bromoform	75-25-2	ND	0.5	ug/L	05/19/95
Bromomethane	74-83-9	ND	2	ug/L	05/19/95
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	05/19/95
Chlorobenzene	108-90-7	ND	0.5	ug/L	05/19/95
Chloroethane	75-00-3	ND	2	ug/L	05/19/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	05/19/95
Chloroform	67-66-3	ND	0.5	ug/L	05/19/95
Chloromethane	74-87-3	ND	2	ug/L	05/19/95
Dibromochloromethane	124-48-1	ND	0.5	ug/L	05/19/95
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	05/19/95
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	05/19/95
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	05/19/95
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	05/19/95
1,1-Dichloroethane	75-34-3	5 *	0.5	ug/L	05/19/95
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	05/19/95
1,1-Dichloroethene	75-35-4	16 *	0.5	ug/L	05/19/95
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	05/19/95
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	05/19/95
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	05/19/95
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	05/19/95
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	05/19/95
Methylene Chloride	75-09-2	ND	2	ug/L	05/19/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	05/19/95
Tetrachloroethene	127-18-4	2 *	0.5	ug/L	05/19/95
1,1,1-Trichloroethane	71-55-6	2 *	0.5	ug/L	05/19/95
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	05/19/95
Trichloroethene	79-01-6	0.5 *	0.5	ug/L	05/19/95
Trichlorofluoromethane	75-69-4	ND	2	ug/L	05/19/95
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	05/19/95
Vinyl Chloride	75-01-4	ND	2	ug/L	05/19/95

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: MW-4
 AEN LAB NO: 9505130-04
 AEN WORK ORDER: 9505130
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/08/95
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	05/13/95
TPH as Diesel	GC-FID	0.1 *	0.05	mg/L	05/16/95
TPH as Oil	GC-FID	ND	0.2	mg/L	05/16/95
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	05/20/95
Bromoform	75-25-2	ND	0.5	ug/L	05/20/95
Bromomethane	74-83-9	ND	2	ug/L	05/20/95
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	05/20/95
Chlorobenzene	108-90-7	ND	0.5	ug/L	05/20/95
Chloroethane	75-00-3	ND	2	ug/L	05/20/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	05/20/95
Chloroform	67-66-3	ND	0.5	ug/L	05/20/95
Chloromethane	74-87-3	ND	2	ug/L	05/20/95
Dibromochloromethane	124-48-1	ND	0.5	ug/L	05/20/95
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	05/20/95
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	05/20/95
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	05/20/95
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	05/20/95
1,1-Dichloroethane	75-34-3	4 *	0.5	ug/L	05/20/95
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	05/20/95
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	05/20/95
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	05/20/95
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	05/20/95
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	05/20/95
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	05/20/95
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	05/20/95
Methylene Chloride	75-09-2	ND	2	ug/L	05/20/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	05/20/95
Tetrachloroethene	127-18-4	ND	0.5	ug/L	05/20/95
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	05/20/95
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	05/20/95
Trichloroethene	79-01-6	ND	0.5	ug/L	05/20/95
Trichlorofluoromethane	75-69-4	ND	2	ug/L	05/20/95
1,1,2-Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	05/20/95
Vinyl Chloride	75-01-4	ND	2	ug/L	05/20/95

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

LEVINE - FRICKE

SAMPLE ID: MW-3
 AEN LAB NO: 9505130-05
 AEN WORK ORDER: 9505130
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/08/95
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	05/13/95
TPH as Diesel	GC-FID	0.07 *	0.05	mg/L	05/17/95
TPH as Oil	GC-FID	ND	0.2	mg/L	05/17/95
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	05/20/95
Bromoform	75-25-2	ND	0.5	ug/L	05/20/95
Bromomethane	74-83-9	ND	2	ug/L	05/20/95
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	05/20/95
Chlorobenzene	108-90-7	ND	0.5	ug/L	05/20/95
Chloroethane	75-00-3	ND	2	ug/L	05/20/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	05/20/95
Chloroform	67-66-3	ND	0.5	ug/L	05/20/95
Chloromethane	74-87-3	ND	2	ug/L	05/20/95
Dibromochloromethane	124-48-1	ND	0.5	ug/L	05/20/95
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	05/20/95
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	05/20/95
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	05/20/95
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	05/20/95
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	05/20/95
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	05/20/95
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	05/20/95
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	05/20/95
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	05/20/95
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	05/20/95
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	05/20/95
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	05/20/95
Methylene Chloride	75-09-2	ND	2	ug/L	05/20/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	05/20/95
Tetrachloroethene	127-18-4	ND	0.5	ug/L	05/20/95
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	05/20/95
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	05/20/95
Trichloroethene	79-01-6	ND	0.5	ug/L	05/20/95
Trichlorofluoromethane	75-69-4	ND	2	ug/L	05/20/95
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	05/20/95
Vinyl Chloride	75-01-4	ND	2	ug/L	05/20/95

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-13
 AEN LAB NO: 9505130-06
 AEN WORK ORDER: 9505130
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/09/95
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	05/20/95
Bromoform	75-25-2	ND	0.5	ug/L	05/20/95
Bromomethane	74-83-9	ND	2	ug/L	05/20/95
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	05/20/95
Chlorobenzene	108-90-7	ND	0.5	ug/L	05/20/95
Chloroethane	75-00-3	ND	2	ug/L	05/20/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	05/20/95
Chloroform	67-66-3	ND	0.5	ug/L	05/20/95
Chloromethane	74-87-3	ND	2	ug/L	05/20/95
Dibromochloromethane	124-48-1	ND	0.5	ug/L	05/20/95
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	05/20/95
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	05/20/95
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	05/20/95
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	05/20/95
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	05/20/95
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	05/20/95
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	05/20/95
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	05/20/95
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	05/20/95
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	05/20/95
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	05/20/95
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	05/20/95
Methylene Chloride	75-09-2	ND	2	ug/L	05/20/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	05/20/95
Tetrachloroethene	127-18-4	ND	0.5	ug/L	05/20/95
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	05/20/95
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	05/20/95
Trichloroethene	79-01-6	6 *	0.5	ug/L	05/20/95
Trichlorofluoromethane	75-69-4	ND	2	ug/L	05/20/95
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	05/20/95
Vinyl Chloride	75-01-4	ND	2	ug/L	05/20/95

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

LEVINE-FRICKE

SAMPLE ID: MW-6
 AEN LAB NO: 9505130-07
 AEN WORK ORDER: 9505130
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/09/95
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	05/13/95
TPH as Diesel	GC-FID	0.2 *	0.05	mg/L	05/17/95
TPH as Oil	GC-FID	ND	0.2	mg/L	05/17/95
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	3	ug/L	05/20/95
Bromoform	75-25-2	ND	3	ug/L	05/20/95
Bromomethane	74-83-9	ND	10	ug/L	05/20/95
Carbon Tetrachloride	56-23-5	ND	3	ug/L	05/20/95
Chlorobenzene	108-90-7	ND	3	ug/L	05/20/95
Chloroethane	75-00-3	ND	10	ug/L	05/20/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	3	ug/L	05/20/95
Chloroform	67-66-3	ND	3	ug/L	05/20/95
Chloromethane	74-87-3	ND	10	ug/L	05/20/95
Dibromochloromethane	124-48-1	ND	3	ug/L	05/20/95
1,2-Dichlorobenzene	95-50-1	ND	3	ug/L	05/20/95
1,3-Dichlorobenzene	541-73-1	ND	3	ug/L	05/20/95
1,4-Dichlorobenzene	106-46-7	ND	3	ug/L	05/20/95
Dichlorodifluoromethane	75-71-8	ND	10	ug/L	05/20/95
1,1-Dichloroethane	75-34-3	3 *	3	ug/L	05/20/95
1,2-Dichloroethane	107-06-2	ND	3	ug/L	05/20/95
1,1-Dichloroethene	75-35-4	260 *	3	ug/L	05/20/95
cis-1,2-Dichloroethene	156-59-2	ND	3	ug/L	05/20/95
trans-1,2-Dichloroethene	156-60-5	ND	3	ug/L	05/20/95
1,2-Dichloropropane	78-87-5	ND	3	ug/L	05/20/95
cis-1,3-Dichloropropene	10061-01-5	ND	3	ug/L	05/20/95
trans-1,3-Dichloropropene	10061-02-6	ND	3	ug/L	05/20/95
Methylene Chloride	75-09-2	ND	10	ug/L	05/20/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	3	ug/L	05/20/95
Tetrachloroethene	127-18-4	ND	3	ug/L	05/20/95
1,1,1-Trichloroethane	71-55-6	31 *	3	ug/L	05/20/95
1,1,2-Trichloroethane	79-00-5	ND	3	ug/L	05/20/95
Trichloroethene	79-01-6	ND	3	ug/L	05/20/95
Trichlorofluoromethane	75-69-4	ND	10	ug/L	05/20/95
1,1,2-Trichlorotrifluoroethane	76-13-1	ND	3	ug/L	05/20/95
Vinyl Chloride	75-01-4	ND	10	ug/L	05/20/95

LEVINE-FRICKE

SAMPLE ID: MW-6
AEN LAB NO: 9505130-07
AEN WORK ORDER: 9505130
CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/09/95
DATE RECEIVED: 05/10/95
REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
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Reporting limits elevated for EPA 8010 due to high levels of target compounds. Sample run at dilution.

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

LEVINE - FRICKE

SAMPLE ID: MW-6D
 AEN LAB NO: 9505130-08
 AEN WORK ORDER: 9505130
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/09/95
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	05/20/95
Bromoform	75-25-2	ND	0.5	ug/L	05/20/95
Bromomethane	74-83-9	ND	2	ug/L	05/20/95
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	05/20/95
Chlorobenzene	108-90-7	ND	0.5	ug/L	05/20/95
Chloroethane	75-00-3	ND	2	ug/L	05/20/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	05/20/95
Chloroform	67-66-3	ND	0.5	ug/L	05/20/95
Chloromethane	74-87-3	ND	2	ug/L	05/20/95
Dibromochloromethane	124-48-1	ND	0.5	ug/L	05/20/95
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	05/20/95
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	05/20/95
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	05/20/95
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	05/20/95
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	05/20/95
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	05/20/95
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	05/20/95
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	05/20/95
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	05/20/95
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	05/20/95
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	05/20/95
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	05/20/95
Methylene Chloride	75-09-2	ND	2	ug/L	05/20/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	05/20/95
Tetrachloroethene	127-18-4	ND	0.5	ug/L	05/20/95
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	05/20/95
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	05/20/95
Trichloroethene	79-01-6	ND	0.5	ug/L	05/20/95
Trichlorofluoromethane	75-69-4	ND	2	ug/L	05/20/95
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	05/20/95
Vinyl Chloride	75-01-4	ND	2	ug/L	05/20/95

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

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9505130

CLIENT PROJECT ID: 1649.02

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: 9505130
AEN LAB NO: 0513-BLANK
DATE EXTRACTED: 05/13/95
DATE ANALYZED: 05/16/95
INSTRUMENT: C
MATRIX: WATER

Method Blank

Analyte	Result (mg/L)	Reporting Limit (mg/L)
Diesel	ND	0.05
Oil	ND	0.2

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9505130
 DATE EXTRACTED: 05/13/95
 INSTRUMENT: C
 MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery	
			n-Pentacosane	
05/16/95	MW-5	03	79	
05/16/95	MW-4	04	81	
05/17/95	MW-3	05	80	
05/17/95	MW-6	07	86	
QC Limits:			73-129	

DATE EXTRACTED: 05/04/95
 DATE ANALYZED: 05/06/95
 SAMPLE SPIKED: DI WATER
 INSTRUMENT: C

Method Spike Recovery Summary

Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
Diesel	1.82	101	2	65-103	12

QUALITY CONTROL DATA

METHOD: EPA 8010

AEN JOB NO: 9505130
 DATE ANALYZED: 05/19/95
 AEN LAB NO: 0519-BLANK
 INSTRUMENT: I
 MATRIX: WATER

Halogenated Volatile Organics

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Bromodichloromethane	75-27-4	ND	0.5
Bromoform	75-25-2	ND	0.5
Bromomethane	74-83-9	ND	2
Carbon Tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	2
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	2
Dibromochloromethane	124-48-1	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	2
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
cis-1,2-Dichloroethene	156-59-2	ND	0.5
trans-1,2-Dichloroethene	156-60-5	ND	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene Chloride	75-09-2	ND	2
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	ND	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	ND	0.5
Trichlorofluoromethane	75-69-4	ND	2
1,1,2-Trichloro- 1,2,2-trifluoroethane	76-13-1	ND	0.5
Vinyl Chloride	75-01-4	ND	2

QUALITY CONTROL DATA

METHOD: EPA 8010

AEN JOB NO: 9505130
 DATE ANALYZED: 05/20/95
 AEN LAB NO: 0520-BLANK
 INSTRUMENT: I
 MATRIX: WATER

Halogenated Volatile Organics

Analyte	CAS #.	Result (ug/L)	Reporting Limit (ug/L)
Bromodichloromethane	75-27-4	ND	0.5
Bromoform	75-25-2	ND	0.5
Bromomethane	74-83-9	ND	2
Carbon Tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	2
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	2
Dibromochloromethane	124-48-1	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	2
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
cis-1,2-Dichloroethene	156-59-2	ND	0.5
trans-1,2-Dichloroethene	156-60-5	ND	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene Chloride	75-09-2	ND	2
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	ND	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	ND	0.5
Trichlorofluoromethane	75-69-4	ND	2
1,1,2-Trichloro- 1,2,2-trifluoroethane	76-13-1	ND	0.5
Vinyl Chloride	75-01-4	ND	2

QUALITY CONTROL DATA

METHOD: EPA 8010

AEN JOB NO: 9505130
 INSTRUMENT: I
 MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery	
			Bromochloro-methane	1-Bromo-3-chloro-propane
05/19/95	MW-9	01	90	109
05/19/95	MW-9D	02	109	129
05/19/95	MW-5	03	101	119
05/20/95	MW-4	04	109	130
05/20/95	MW-3	05	100	128
05/20/95	LF-13	06	107	130
05/20/95	MW-6	07	81	107
05/20/95	MW-6D	08	84	92
QC Limits:			70-130	70-130

DATE ANALYZED: 05/22/95
 SAMPLE SPIKED: 9505130-05
 INSTRUMENT: I

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
1,1-Dichloroethene	50	92	6	37-156	20
Trichloroethene	50	93	4	54-122	20
Chlorobenzene	50	80	1	54-141	20

*** END OF REPORT ***

American Environmental Network

Certificate of Analysis

DOHS Certification. 1172

AIHA Accreditation 11134

PAGE 1

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

REPORT DATE: 05/30/95

DATE(S) SAMPLED: 05/09/95

DATE RECEIVED: 05/10/95

ATTN: RON GOLOUBOW
CLIENT PROJ. ID: 1649.02
CLIENT PROJ. NAME: EAST BAY BRDG
C.O.C. NUMBER: 013485,013486

AEN WORK ORDER: 9505131

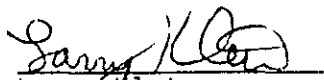
PROJECT SUMMARY:

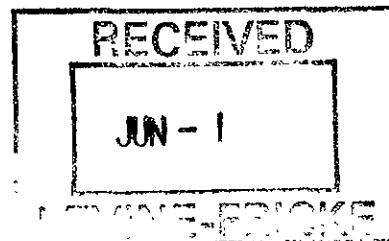
On May 10, 1995, this laboratory received 13 water sample(s).

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

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

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


Larry Klein
Laboratory Director



LEVINE-FRICKE

SAMPLE ID: MW-8
 AEN LAB NO: 9505131-01
 AEN WORK ORDER: 9505131
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/09/95
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	05/20/95
Bromoform	75-25-2	ND	0.5	ug/L	05/20/95
Bromomethane	74-83-9	ND	2	ug/L	05/20/95
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	05/20/95
Chlorobenzene	108-90-7	ND	0.5	ug/L	05/20/95
Chloroethane	75-00-3	ND	2	ug/L	05/20/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	05/20/95
Chloroform	67-66-3	ND	0.5	ug/L	05/20/95
Chloromethane	74-87-3	ND	2	ug/L	05/20/95
Dibromochloromethane	124-48-1	ND	0.5	ug/L	05/20/95
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	05/20/95
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	05/20/95
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	05/20/95
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	05/20/95
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	05/20/95
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	05/20/95
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	05/20/95
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	05/20/95
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	05/20/95
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	05/20/95
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	05/20/95
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	05/20/95
Methylene Chloride	75-09-2	ND	2	ug/L	05/20/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	05/20/95
Tetrachloroethene	127-18-4	ND	0.5	ug/L	05/20/95
1,1,1-Trichloroethane*	71-55-6	ND	0.5	ug/L	05/20/95
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	05/20/95
Trichloroethene	79-01-6	ND	0.5	ug/L	05/20/95
Trichlorofluoromethane	75-69-4	ND	2	ug/L	05/20/95
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	05/20/95
Vinyl Chloride	75-01-4	ND	2	ug/L	05/20/95

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: MW-7D
 AEN LAB NO: 9505131-02
 AEN WORK ORDER: 9505131
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/09/95
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	05/20/95
Bromoform	75-25-2	ND	0.5	ug/L	05/20/95
Bromomethane	74-83-9	ND	2	ug/L	05/20/95
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	05/20/95
Chlorobenzene	108-90-7	ND	0.5	ug/L	05/20/95
Chloroethane	75-00-3	ND	2	ug/L	05/20/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	05/20/95
Chloroform	67-66-3	ND	0.5	ug/L	05/20/95
Chloromethane	74-87-3	ND	2	ug/L	05/20/95
Dibromochloromethane	124-48-1	ND	0.5	ug/L	05/20/95
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	05/20/95
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	05/20/95
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	05/20/95
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	05/20/95
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	05/20/95
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	05/20/95
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	05/20/95
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	05/20/95
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	05/20/95
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	05/20/95
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	05/20/95
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	05/20/95
Methylene Chloride	75-09-2	ND	2	ug/L	05/20/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	05/20/95
Tetrachloroethene	127-18-4	ND	0.5	ug/L	05/20/95
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	05/20/95
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	05/20/95
Trichloroethene	79-01-6	ND	0.5	ug/L	05/20/95
Trichlorofluoromethane	75-69-4	ND	2	ug/L	05/20/95
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	05/20/95
Vinyl Chloride	75-01-4	ND	2	ug/L	05/20/95

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: MW-7
 AEN LAB NO: 9505131-03
 AEN WORK ORDER: 9505131
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/09/95
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	05/13/95
TPH as Diesel	GC-FID	0.09 *	0.05	mg/L	05/17/95
TPH as Oil	GC-FID	ND	0.2	mg/L	05/17/95
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	05/20/95
Bromoform	75-25-2	ND	0.5	ug/L	05/20/95
Bromomethane	74-83-9	ND	2	ug/L	05/20/95
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	05/20/95
Chlorobenzene	108-90-7	ND	0.5	ug/L	05/20/95
Chloroethane	75-00-3	ND	2	ug/L	05/20/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	05/20/95
Chloroform	67-66-3	ND	0.5	ug/L	05/20/95
Chloromethane	74-87-3	ND	2	ug/L	05/20/95
Dibromochloromethane	124-48-1	ND	0.5	ug/L	05/20/95
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	05/20/95
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	05/20/95
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	05/20/95
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	05/20/95
1,1-Dichloroethane	75-34-3	4 *	0.5	ug/L	05/20/95
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	05/20/95
1,1-Dichloroethene	75-35-4	180 *	0.5	ug/L	05/22/95
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	05/20/95
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	05/20/95
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	05/20/95
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	05/20/95
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	05/20/95
Methylene Chloride	75-09-2	ND	2	ug/L	05/20/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	05/20/95
Tetrachloroethene	127-18-4	ND	0.5	ug/L	05/20/95
1,1,1-Trichloroethane	71-55-6	15 *	0.5	ug/L	05/20/95
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	05/20/95
Trichloroethene	79-01-6	ND	0.5	ug/L	05/20/95
Trichlorofluoromethane	75-69-4	ND	2	ug/L	05/20/95
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	05/20/95
Vinyl Chloride	75-01-4	ND	2	ug/L	05/20/95

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

LEVINE-FRICKE

SAMPLE ID: MW-7Z
 AEN LAB NO: 9505131-04
 AEN WORK ORDER: 9505131
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/09/95
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	05/20/95
Bromoform	75-25-2	ND	0.5	ug/L	05/20/95
Bromomethane	74-83-9	ND	2	ug/L	05/20/95
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	05/20/95
Chlorobenzene	108-90-7	ND	0.5	ug/L	05/20/95
Chloroethane	75-00-3	ND	2	ug/L	05/20/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	05/20/95
Chloroform	67-66-3	ND	0.5	ug/L	05/20/95
Chloromethane	74-87-3	ND	2	ug/L	05/20/95
Dibromochloromethane	124-48-1	ND	0.5	ug/L	05/20/95
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	05/20/95
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	05/20/95
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	05/20/95
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	05/20/95
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	05/20/95
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	05/20/95
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	05/20/95
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	05/20/95
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	05/20/95
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	05/20/95
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	05/20/95
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	05/20/95
Methylene Chloride	75-09-2	ND	2	ug/L	05/20/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	05/20/95
Tetrachloroethene	127-18-4	ND	0.5	ug/L	05/20/95
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	05/20/95
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	05/20/95
Trichloroethene	79-01-6	ND	0.5	ug/L	05/20/95
Trichlorofluoromethane	75-69-4	ND	2	ug/L	05/20/95
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	05/20/95
Vinyl Chloride	75-01-4	ND	2	ug/L	05/20/95

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: MW-1
 AEN LAB NO: 9505131-05
 AEN WORK ORDER: 9505131
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/09/95
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	05/15/95
Toluene	108-88-3	ND	0.5	ug/L	05/15/95
Ethylbenzene	100-41-4	ND	0.5	ug/L	05/15/95
Xylenes, Total	1330-20-7	ND	2	ug/L	05/15/95
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	05/15/95
#Extraction for TPH	EPA 3510	-		Extrn Date	05/13/95
TPH as Diesel	GC-FID	0.2 *	0.05	mg/L	05/17/95
TPH as Oil	GC-FID	ND	0.2	mg/L	05/17/95

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

LEVINE-FRICKE

SAMPLE ID: MW-2
 AEN LAB NO: 9505131-06
 AEN WORK ORDER: 9505131
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/09/95
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	25 *	0.5	ug/L	05/15/95
Toluene	108-88-3	9 *	0.5	ug/L	05/15/95
Ethylbenzene	100-41-4	85 *	0.5	ug/L	05/15/95
Xylenes, Total	1330-20-7	250 *	2	ug/L	05/15/95
Purgeable HCs as Gasoline	5030/GCFID	2.8 *	0.05	mg/L	05/15/95
#Extraction for TPH	EPA 3510	-		Extrn Date	05/13/95
TPH as Diesel	GC-FID	0.2 *	0.05	mg/L	05/17/95
TPH as Oil	GC-FID	ND	0.2	mg/L	05/17/95

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

LEVINE-FRICKE

SAMPLE ID: LF-23
 AEN LAB NO: 9505131-07
 AEN WORK ORDER: 9505131
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/09/95
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	05/20/95
Bromoform	75-25-2	ND	0.5	ug/L	05/20/95
Bromomethane	74-83-9	ND	2	ug/L	05/20/95
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	05/20/95
Chlorobenzene	108-90-7	ND	0.5	ug/L	05/20/95
Chloroethane	75-00-3	ND	2	ug/L	05/20/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	05/20/95
Chloroform	67-66-3	14 *	0.5	ug/L	05/20/95
Chloromethane	74-87-3	ND	2	ug/L	05/20/95
Dibromochloromethane	124-48-1	ND	0.5	ug/L	05/20/95
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	05/20/95
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	05/20/95
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	05/20/95
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	05/20/95
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	05/20/95
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	05/20/95
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	05/20/95
cis-1,2-Dichloroethene	156-59-2	1 *	0.5	ug/L	05/20/95
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	05/20/95
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	05/20/95
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	05/20/95
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	05/20/95
Methylene Chloride	75-09-2	ND	2	ug/L	05/20/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	05/20/95
Tetrachloroethene	127-18-4	5 *	0.5	ug/L	05/20/95
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	05/20/95
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	05/20/95
Trichloroethene	79-01-6	2 *	0.5	ug/L	05/20/95
Trichlorofluoromethane	75-69-4	ND	2	ug/L	05/20/95
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	05/20/95
Vinyl Chloride	75-01-4	ND	2	ug/L	05/20/95

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-22
 AEN LAB NO: 9505131-08
 AEN WORK ORDER: 9505131
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/09/95
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	05/20/95
Bromoform	75-25-2	ND	0.5	ug/L	05/20/95
Bromomethane	74-83-9	ND	2	ug/L	05/20/95
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	05/20/95
Chlorobenzene	108-90-7	ND	0.5	ug/L	05/20/95
Chloroethane	75-00-3	ND	2	ug/L	05/20/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	05/20/95
Chloroform	67-66-3	ND	0.5	ug/L	05/20/95
Chloromethane	74-87-3	ND	2	ug/L	05/20/95
Dibromochloromethane	124-48-1	ND	0.5	ug/L	05/20/95
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	05/20/95
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	05/20/95
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	05/20/95
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	05/20/95
1,1-Dichloroethane	75-34-3	0.7 *	0.5	ug/L	05/20/95
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	05/20/95
1,1-Dichloroethene	75-35-4	0.7 *	0.5	ug/L	05/20/95
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	05/20/95
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	05/20/95
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	05/20/95
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	05/20/95
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	05/20/95
Methylene Chloride	75-09-2	ND	2	ug/L	05/20/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	05/20/95
Tetrachloroethene	127-18-4	ND	0.5	ug/L	05/20/95
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	05/20/95
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	05/20/95
Trichloroethene	79-01-6	ND	0.5	ug/L	05/20/95
Trichlorofluoromethane	75-69-4	ND	2	ug/L	05/20/95
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	05/20/95
Vinyl Chloride	75-01-4	ND	2	ug/L	05/20/95

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE - FRICKE

SAMPLE ID: LF-22-FB
 AEN LAB NO: 9505131-09
 AEN WORK ORDER: 9505131
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/09/95
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	05/20/95
Bromoform	75-25-2	ND	0.5	ug/L	05/20/95
Bromomethane	74-83-9	ND	2	ug/L	05/20/95
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	05/20/95
Chlorobenzene	108-90-7	ND	0.5	ug/L	05/20/95
Chloroethane	75-00-3	ND	2	ug/L	05/20/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	05/20/95
Chloroform	67-66-3	ND	0.5	ug/L	05/20/95
Chloromethane	74-87-3	ND	2	ug/L	05/20/95
Dibromochloromethane	124-48-1	ND	0.5	ug/L	05/20/95
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	05/20/95
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	05/20/95
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	05/20/95
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	05/20/95
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	05/20/95
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	05/20/95
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	05/20/95
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	05/20/95
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	05/20/95
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	05/20/95
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	05/20/95
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	05/20/95
Methylene Chloride	75-09-2	ND	2	ug/L	05/20/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	05/20/95
Tetrachloroethene	127-18-4	ND	0.5	ug/L	05/20/95
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	05/20/95
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	05/20/95
Trichloroethene	79-01-6	ND	0.5	ug/L	05/20/95
Trichlorofluoromethane	75-69-4	ND	2	ug/L	05/20/95
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	05/20/95
Vinyl Chloride	75-01-4	ND	2	ug/L	05/20/95

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-122
 AEN LAB NO: 9505131-10
 AEN WORK ORDER: 9505131
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/09/95
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	05/20/95
Bromoform	75-25-2	ND	0.5	ug/L	05/20/95
Bromomethane	74-83-9	ND	2	ug/L	05/20/95
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	05/20/95
Chlorobenzene	108-90-7	ND	0.5	ug/L	05/20/95
Chloroethane	75-00-3	ND	2	ug/L	05/20/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	05/20/95
Chloroform	67-66-3	ND	0.5	ug/L	05/20/95
Chloromethane	74-87-3	ND	2	ug/L	05/20/95
Dibromochloromethane	124-48-1	ND	0.5	ug/L	05/20/95
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	05/20/95
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	05/20/95
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	05/20/95
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	05/20/95
1,1-Dichloroethane	75-34-3	0.6 *	0.5	ug/L	05/20/95
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	05/20/95
1,1-Dichloroethene	75-35-4	0.5 *	0.5	ug/L	05/20/95
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	05/20/95
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	05/20/95
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	05/20/95
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	05/20/95
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	05/20/95
Methylene Chloride	75-09-2	ND	2	ug/L	05/20/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	05/20/95
Tetrachloroethene	127-18-4	ND	0.5	ug/L	05/20/95
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	05/20/95
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	05/20/95
Trichloroethene	79-01-6	ND	0.5	ug/L	05/20/95
Trichlorofluoromethane	75-69-4	ND	2	ug/L	05/20/95
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	05/20/95
Vinyl Chloride	75-01-4	ND	2	ug/L	05/20/95

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: EX-3
 AEN LAB NO: 9505131-11
 AEN WORK ORDER: 9505131
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/09/95
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	05/13/95
TPH as Diesel	GC-FID	0.1 *	0.05	mg/L	05/17/95
TPH as Oil	GC-FID	ND	0.2	mg/L	05/17/95
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	05/20/95
Bromoform	75-25-2	ND	0.5	ug/L	05/20/95
Bromomethane	74-83-9	ND	2	ug/L	05/20/95
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	05/20/95
Chlorobenzene	108-90-7	ND	0.5	ug/L	05/20/95
Chloroethane	75-00-3	ND	2	ug/L	05/20/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	05/20/95
Chloroform	67-66-3	ND	0.5	ug/L	05/20/95
Chloromethane	74-87-3	ND	2	ug/L	05/20/95
Dibromochloromethane	124-48-1	ND	0.5	ug/L	05/20/95
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	05/20/95
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	05/20/95
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	05/20/95
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	05/20/95
1,1-Dichloroethane	75-34-3	5 *	0.5	ug/L	05/20/95
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	05/20/95
1,1-Dichloroethene	75-35-4	120 *	0.5	ug/L	05/20/95
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	05/20/95
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	05/20/95
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	05/20/95
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	05/20/95
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	05/20/95
Methylene Chloride	75-09-2	ND	2	ug/L	05/20/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	05/20/95
Tetrachloroethene	127-18-4	31 *	0.5	ug/L	05/20/95
1,1,1-Trichloroethane	71-55-6	12 *	0.5	ug/L	05/20/95
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	05/20/95
Trichloroethene	79-01-6	3 *	0.5	ug/L	05/20/95
Trichlorofluoromethane	75-69-4	ND	2	ug/L	05/20/95
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	05/20/95
Vinyl Chloride	75-01-4	ND	2	ug/L	05/20/95

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

LEVINE-FRICKE

SAMPLE ID: EX-4
 AEN LAB NO: 9505131-12
 AEN WORK ORDER: 9505131
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/09/95
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	05/13/95
TPH as Diesel	GC-FID	0.1 *	0.05	mg/L	05/17/95
TPH as Oil	GC-FID	ND	0.2	mg/L	05/17/95
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	3	ug/L	05/20/95
Bromoform	75-25-2	ND	3	ug/L	05/20/95
Bromomethane	74-83-9	ND	10	ug/L	05/20/95
Carbon Tetrachloride	56-23-5	ND	3	ug/L	05/20/95
Chlorobenzene	108-90-7	ND	3	ug/L	05/20/95
Chloroethane	75-00-3	ND	10	ug/L	05/20/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	3	ug/L	05/20/95
Chloroform	67-66-3	ND	3	ug/L	05/20/95
Chloromethane	74-87-3	ND	10	ug/L	05/20/95
Dibromochloromethane	124-48-1	ND	3	ug/L	05/20/95
1,2-Dichlorobenzene	95-50-1	ND	3	ug/L	05/20/95
1,3-Dichlorobenzene	541-73-1	ND	3	ug/L	05/20/95
1,4-Dichlorobenzene	106-46-7	ND	3	ug/L	05/20/95
Dichlorodifluoromethane	75-71-8	ND	10	ug/L	05/20/95
1,1-Dichloroethane	75-34-3	4 *	3	ug/L	05/20/95
1,2-Dichloroethane	107-06-2	ND	3	ug/L	05/20/95
1,1-Dichloroethene	75-35-4	210 *	3	ug/L	05/20/95
cis-1,2-Dichloroethene	156-59-2	ND	3	ug/L	05/20/95
trans-1,2-Dichloroethene	156-60-5	ND	3	ug/L	05/20/95
1,2-Dichloropropane	78-87-5	ND	3	ug/L	05/20/95
cis-1,3-Dichloropropene	10061-01-5	ND	3	ug/L	05/20/95
trans-1,3-Dichloropropene	10061-02-6	ND	3	ug/L	05/20/95
Methylene Chloride	75-09-2	ND	10	ug/L	05/20/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	3	ug/L	05/20/95
Tetrachloroethene	127-18-4	11 *	3	ug/L	05/20/95
1,1,1-Trichloroethane	71-55-6	20 *	3	ug/L	05/20/95
1,1,2-Trichloroethane	79-00-5	ND	3	ug/L	05/20/95
Trichloroethene	79-01-6	ND	3	ug/L	05/20/95
Trichlorofluoromethane	75-69-4	ND	10	ug/L	05/20/95
1,1,2Trichlorotrifluoroethane	76-13-1	ND	3	ug/L	05/20/95
Vinyl Chloride	75-01-4	ND	10	ug/L	05/20/95

LEVINE-FRICKE

SAMPLE ID: EX-4
AEN LAB NO: 9505131-12
AEN WORK ORDER: 9505131
CLIENT PROJ. ID: 1649.02

DATE SAMPLED: 05/09/95
DATE RECEIVED: 05/10/95
REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
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Reporting limits elevated for EPA 8010 due to high levels of target compounds. Sample run at dilution.

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

LEVINE-FRICKE

SAMPLE ID: TRIP BLANK
 AEN LAB NO: 9505131-13
 AEN WORK ORDER: 9505131
 CLIENT PROJ. ID: 1649.02

DATE SAMPLED:
 DATE RECEIVED: 05/10/95
 REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	05/15/95
Toluene	108-88-3	ND	0.5	ug/L	05/15/95
Ethylbenzene	100-41-4	ND	0.5	ug/L	05/15/95
Xylenes, Total	1330-20-7	ND	2	ug/L	05/15/95
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	05/15/95
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	05/20/95
Bromoform	75-25-2	ND	0.5	ug/L	05/20/95
Bromomethane	74-83-9	ND	2	ug/L	05/20/95
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	05/20/95
Chlorobenzene	108-90-7	ND	0.5	ug/L	05/20/95
Chloroethane	75-00-3	ND	2	ug/L	05/20/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	05/20/95
Chloroform	67-66-3	ND	0.5	ug/L	05/20/95
Chloromethane	74-87-3	ND	2	ug/L	05/20/95
Dibromochloromethane	124-48-1	ND	0.5	ug/L	05/20/95
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	05/20/95
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	05/20/95
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	05/20/95
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	05/20/95
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	05/20/95
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	05/20/95
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	05/20/95
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	05/20/95
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	05/20/95
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	05/20/95
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	05/20/95
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	05/20/95
Methylene Chloride	75-09-2	ND	2	ug/L	05/20/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	05/20/95
Tetrachloroethene	127-18-4	ND	0.5	ug/L	05/20/95
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	05/20/95
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	05/20/95
Trichloroethene	79-01-6	ND	0.5	ug/L	05/20/95
Trichlorofluoromethane	75-69-4	ND	2	ug/L	05/20/95
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	05/20/95
Vinyl Chloride	75-01-4	ND	2	ug/L	05/20/95

LEVINE-FRICKE

SAMPLE ID: TRIP BLANK
AEN LAB NO: 9505131-13
AEN WORK ORDER: 9505131
CLIENT PROJ. ID: 1649.02

DATE SAMPLED:
DATE RECEIVED: 05/10/95
REPORT DATE: 05/30/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
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ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9505131

CLIENT PROJECT ID: 1649.02

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: 9505131
AEN LAB NO: 0513-BLANK
DATE EXTRACTED: 05/13/95
DATE ANALYZED: 05/17/95
INSTRUMENT: C
MATRIX: WATER

Method Blank

Analyte	Result (mg/L)	Reporting Limit (mg/L)
Diesel	ND	0.05
Oil	ND	0.2

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9505131
 DATE EXTRACTED: 05/13/95
 INSTRUMENT: C
 MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery	
			n-Pentacosane	
05/17/95	MW-7	03	82	
05/17/95	MW-1	05	81	
05/17/95	MW-2	06	82	
05/17/95	EX-3	11	83	
05/17/95	EX-4	12	92	
QC Limits:			73-129	

DATE EXTRACTED: 05/04/95
 DATE ANALYZED: 05/06/95
 SAMPLE SPIKED: DI WATER
 INSTRUMENT: C

Method Spike Recovery Summary

Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
Diesel	1.82	101	2	65-103	12

QUALITY CONTROL DATA

METHOD: EPA 8010

AEN JOB NO: 9505131
 DATE ANALYZED: 05/19/95
 AEN LAB NO: 0519-BLANK
 INSTRUMENT: I
 MATRIX: WATER

Halogenated Volatile Organics

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Bromodichloromethane	75-27-4	ND	0.5
Bromoform	75-25-2	ND	0.5
Bromomethane	74-83-9	ND	2
Carbon Tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	2
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	2
Dibromochloromethane	124-48-1	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	2
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
cis-1,2-Dichloroethene	156-59-2	ND	0.5
trans-1,2-Dichloroethene	156-60-5	ND	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene Chloride	75-09-2	ND	2
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	ND	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	ND	0.5
Trichlorofluoromethane	75-69-4	ND	2
1,1,2-Trichloro- 1,2,2-trifluoroethane	76-13-1	ND	0.5
Vinyl Chloride	75-01-4	ND	2

QUALITY CONTROL DATA

METHOD: EPA 8010

AEN JOB NO: 9505131
 DATE ANALYZED: 05/20/95
 AEN LAB NO: 0520-BLANK
 INSTRUMENT: I
 MATRIX: WATER

Halogenated Volatile Organics

Analyte	CAS #	Result (ug/L)	Reporting Limit (ug/L)
Bromodichloromethane	75-27-4	ND	0.5
Bromoform	75-25-2	ND	0.5
Bromomethane	74-83-9	ND	2
Carbon Tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	2
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	2
Dibromochloromethane	124-48-1	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	2
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
cis-1,2-Dichloroethene	156-59-2	ND	0.5
trans-1,2-Dichloroethene	156-60-5	ND	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene Chloride	75-09-2	ND	2
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	ND	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	ND	0.5
Trichlorofluoromethane	75-69-4	ND	2
1,1,2-Trichloro- 1,2,2-trifluoroethane	76-13-1	ND	0.5
Vinyl Chloride	75-01-4	ND	2

QUALITY CONTROL DATA

METHOD: EPA 8010

AEN JOB NO: 9505131
 INSTRUMENT: I
 MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery	
			Bromochloro- methane	1-Bromo-3-chloro- propane
05/20/95	MW-8	01	103	90
05/20/95	MW-7D	02	97	97
05/20/95	MW-7	03	95	110
05/20/95	MW-7Z	04	94	112
05/20/95	LF-23	07	86	124
05/20/95	LF-22	08	106	129
05/20/95	LF-22-FB	09	101	129
05/20/95	LF-122	10	94	123
05/20/95	EX-3	11	94	92
05/20/95	EX-4	12	101	117
05/20/95	TRIP BLANK	13	80	77
QC Limits:			70-130	70-130

DATE ANALYZED: 05/22/95
 SAMPLE SPIKED: 9505130-05
 INSTRUMENT: I

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
1,1-Dichloroethene	50	92	6	37-156	20
Trichloroethene	50	93	4	54-122	20
Chlorobenzene	50	80	1	54-141	20

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9505131
AEN LAB NO: 0515-BLANK
DATE ANALYZED: 05/15/95
INSTRUMENT: H
MATRIX: WATER

Method Blank

Analyte	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: 9505131
 INSTRUMENT: H-
 MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
05/15/95	MW-1	05	99
05/15/95	MW-2	06	108
05/15/95	TRIP BLANK	13	99
QC Limits:			92-109

DATE ANALYZED: 05/16/95
 SAMPLE SPIKED: 9505143-03
 INSTRUMENT: H

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
Benzene	36.3	100	<1	85-109	17
Toluene	103.0	101	1	87-111	16
Hydrocarbons as Gasoline	1000	89	5	66-117	19

*** END OF REPORT ***

F-3.5
R-3.5

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

2 of 2
9505131

Project No.: 1649.02 Field Logbook No.: _____ Date: 5/9/95 Serial No.: _____

Project Name: EAST BAY BRIDGE Project Location: EMERYVILLE, CA. No: 013486

Sampler (Signature): J.C. K... ANALYSES
SAMPLERS: JCK

SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	ANALYSES						HOLD	RUSH	REMARKS
						EPA 601	EPA 624	EPA 8010	TPH-D	TPH-O				
LF-22-FB	5/9/95	17:00	09A-C	3	H ₂ O			X						
LF-122		18:05	10A-C	3				X						
EX-3		17:25	11A-E	5				X	X	X				
EX-4		17:35	12A-E	5				X	X	X				
TRIP BLANK	5/8/95	0800	13A-D	34				X						rec'd (4) TB'S

RELINQUISHED BY: (Signature) <u>J.C. K...</u>	DATE <u>5/10/95</u>	TIME <u>10:35</u>	RECEIVED BY: (Signature) <u>Michael E. ...</u>	DATE <u>5/10/95</u>	TIME <u>10:35</u>
RELINQUISHED BY: (Signature) <u>Michael E. ...</u>	DATE <u>5/10/95</u>	TIME <u>11:20</u>	RECEIVED BY: (Signature) <u>Liz L. ...</u>	DATE <u>5/10/95</u>	TIME <u>11:20</u>
RELINQUISHED BY: (Signature) _____	DATE _____	TIME _____	RECEIVED BY: (Signature) _____	DATE _____	TIME _____
METHOD OF SHIPMENT: _____	DATE _____	TIME _____	LAB COMMENTS: _____	DATE _____	TIME _____

Sample Collector: **LEVINE-FRICKE**
1900 Powell Street, 12th Floor
Emeryville, California 94608
(510) 652-4500

Analytical Laboratory: **AEN**
PLEASANT HILL, CA.

R-3, S-1

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

1 OF 2
9505131

Project No.: 1649.02		Field Logbook No.:		Date: 5/9/95		Serial No.:										
Project Name: EAST BAY BRIDGE		Project Location: EMERYVILLE, CA.		No: 013485		Samplers: JCK										
Sampler (Signature): J.C. K...		ANALYSES		SAMPLERS		REMARKS										
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	EPA 801	TPH-801D	TPH-D	TPH-O	TPH-S	BTEX	HOLD	RUSH	REMARKS		
MW-9	5/8/95	12:10	9505130	3	H ₂ O	X								STD TEST RESULTS TO Ron Goloubow		
MW-9D		11:50		3		X										
MW-5		16:10		5		X	X	X								
MW-4		16:45		5		X	X	X								
MW-3		17:25		5		X	X	X								
LF-13	5/9/95	9:30		3		X										
MW-6		10:35		5		X	X	X								
MW-6D		10:55		3		X										
MW-8		11:30		01A-C	3		X									
MW-7D		12:20		02A-C	3		X									
MW-7		12:50	03A-E	5		X	X	X								
MW-7Z		13:45	04A-C	3		X										
MW-1		14:30	05A-E	5		X	X	X	*	*				* Samples MW-1 + MW-2 to be analyzed for gas/BTEX instead of 801D per R. Goloubow 5/10/95 DSH		
MW-2		15:45	06A-E	5		X			*	*						
LF-23		16:25	07A-C	3		X										
LF-22		17:05	08A-C	3		X										

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To: Susan Shiu	From: ROXY Shiu
Co: LF	Co: AEN
Dept:	Phone #: 930-9090
Fax #:	Fax #: -0250

RELINQUISHED BY: (Signature) J.C. K...	DATE: 5/9/95	TIME: 10:35	RECEIVED BY: (Signature) Michael E. ...	DATE: 5/10/95	TIME: 10:35
RELINQUISHED BY: (Signature) Michael E. ...	DATE: 5/10/95	TIME: 11:20	RECEIVED BY: (Signature) ...	DATE: 5/10/95	TIME: 11:30
RELINQUISHED BY: (Signature)	DATE:	TIME:	RECEIVED BY: (Signature)	DATE:	TIME:

Sample Collector: LEVINE-FRICKE
1900 Powell Street, 12th Floor
Emeryville, California 94608
(510) 652-4500

Analytical Laboratory: AEN
PLEASANT HILL, CA.

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JUN-05-95 MON 11:10 AEN CALIFORNIA FAX NO. 5109300256 P. 01/01