94-911

APRIL 1995 QUARTERLY MONITORING, SAMPLING AND ANNUAL SUMMARY REPORT 505 CEDAR STREET OAKLAND, CALIFORNIA

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STATE DEPARTMENT OF TRANSPORTATION
ENVIRONMENTAL ENGINEERING BRANCH
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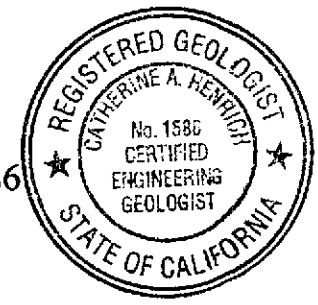

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DISTRIBUTION

The contents of this report reflect the views of the author who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the California Department of Transportation or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

1.0 INTRODUCTION

1. This report presents the results of the April 1995 Quarterly Monitoring event performed by Environmental Solutions, Inc. for the California Department of Transportation (Caltrans) at a site located at 505 Cedar Street in Oakland, California (Site; Figure 1). This work was performed as part of Caltrans Task Order 04-192211-05 of Contract Number 53U495.

2. In July 1994, Environmental Solutions, Inc. installed three ground water monitoring wells (Monitoring Wells MW-1, MW-2, and MW-3; Figure 2) at the Site to assess if the ground water in the vicinity of the former Underground Storage Tank (UST) had been impacted by petroleum hydrocarbons. The monitoring wells were developed and sampled after installation in July 1994. The results showed the presence of Total Petroleum Hydrocarbons as gasoline (TPH-gas) and Volatile Organic Compounds (VOCs)[1]. The next two quarterly monitoring events occurred in October 1994 and January 1995, and the results are presented in reports prepared by Environmental Solutions, Inc.[2]

3. The following sections present the ground water sampling procedures, the analytical program, the results of the April 1995 final quarterly monitoring event, and a summary of previous sampling events.

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(1) *Soil and Ground Water Investigation Report, Cal East Site, 505 Cedar Street, Oakland, California,* dated September 27, 1994.

(2) *October 1994 Quarterly Monitoring and Sampling Report, 505 Cedar Street, Oakland, California,* dated December 12, 1994. *January 1995 Quarterly Monitoring and Sampling Report, 505 Cedar Street, Oakland, California,* dated March 8, 1995.

2.0 GROUND WATER SAMPLING PROCEDURES

1. The quarterly monitoring activities were performed on April 13, 1995. Prior to purging the monitoring wells, all sampling equipment was decontaminated with an alconox wash and deionized water rinse, before and after each use. The traffic-rated well surface covers were unscrewed and removed, and the well casing's water-resistant, expandable caps unlocked and removed. Ground water levels were measured with an electric sounder in each of the three monitoring wells on the Site (Figure 2). After the water levels were measured and recorded, a minimum of three wet well casing volumes were purged from the monitoring wells. Temperature, conductivity and pH measurements of the purge water were recorded during well evacuation procedures.

2. Prior to sampling, a minimum of 90 percent of the original water volume was allowed to recover in each well. The ground water samples from each well were collected using a new disposable plastic bailer with fresh twine. The collected ground water was released through new disposable VOC samplers into clean, laboratory-supplied sample bottles. Each sample bottle was labeled with the well number, sampler's name, and the date and time the sample was collected. After collection, the filled bottles were capped and placed in a cooler packed with frozen blue ice, and transported under Chain-of-Custody documentation to Chromalab, Inc. (Chromalab), located in Pleasanton, California, for analysis.

3. Purge and decontamination rinsate water were placed in labeled Department of Transportation's (DOT) approved 55-gallon drums, pending laboratory analyses for evaluation of disposal alternatives.

3.0 ANALYTICAL PROGRAM

1. Ground water samples collected from Monitoring Wells MW-1, MW-2 and MW-3 were analyzed by Chromalab, Inc., a state-certified analytical laboratory. The analytical program included the following analyses:

   - EPA Method 6010, Heavy Metal Scan
   - EPA Method 8015, Modified for Total Petroleum Hydrocarbons as Gasoline
   - EPA Method 5520, Oil and Grease
   - EPA Method 8015, Modified for Total Petroleum Hydrocarbons as Diesel
   - EPA Method 8240, VOCs

2. The analytical laboratory filtered and preserved the ground water samples according to EPA testing procedures prior to analyzing the samples according to EPA Test Method 6010 for heavy metals.

4.0 RESULTS

1. Table 1 presents the results of the depth to water measurements and ground water elevations. Table 2 presents the pH, temperature, and conductivity measurements collected during well evacuation procedures. The results of the quarterly monitoring activities are summarized below.

2. On the basis of depth to water measurements measured on April 13, 1995, it appears that the ground water flows toward the southeast at a gradient of 0.0031 vertical feet per horizontal foot (Figure 3). The ground water flow direction calculated this quarter differs greatly from the January 1995 calculated flow direction of northeast. The discrepancy in the calculated ground water gradient from the January 1995 event is possibly due to the excessive rainfall this area received during December 1994 and January 1995.

3. Analytical results are presented in Table 3 and Figure 4, and the results are summarized below. Certified analytical laboratory results and Chain-of-Custody documentation are presented in Appendix A.

4. TPH-gas was detected in Monitoring Wells MW-1 and MW-3 at concentrations of 0.18 milligrams per liter (mg/l), and 1.3 mg/l, respectively. TPH-gas was not detected in the ground water sample collected from Monitoring Well MW-2 at or above the laboratory's reported detection limit. TPH-diesel, and oil and grease, were not detected in ground water samples collected from the three ground water monitoring wells at concentrations at or above the laboratory's reported detection limits.

5. In each of the monitoring wells, results of the metals analysis show the presence of several constituents at concentrations below their respective Maximum Contaminant Levels (MCLs)[3], except for the metal thallium, which was detected above the MCL of 0.002 mg/l in the ground water samples collected from Monitoring Wells MW-1 and MW-2.

6. Results of the VOC analyses show detectable concentrations of benzene (3.5 micrograms per liter [ug/l]) and 1,2-Dichloroethane (1,2-DCA [17 ug/l]) in ground water samples collected from Monitoring Well MW-1. Ground water samples collected from Monitoring Well MW-3 had detectable concentrations of benzene (23 ug/l), ethylbenzene (12 ug/l), toluene (2.7 ug/l), and total xylenes (11 ug/l). No other constituents were detected at concentrations at or above the laboratory's reported detection limits. The concentrations of benzene detected in wells MW-1 and MW-3 are above its MCL of 1 ug/l and the concentration of 1,2-DCA detected in Well MW-3 is above its MCL of 0.5 ug/l.

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(3) State of California Department of Health Services, *Summary of California Drinking Water Standards,* November 1994.

5.0 ANNUAL SUMMARY

1. Figures 3 through 6 present the ground water contour maps for each sampling event. The inferred ground water flow direction has primarily been towards the east-southeast, with the exception of the January 1995 event, which indicated ground water flow towards the northeast. The calculated ground water gradient has ranged from 0.0015 to 0.0044 horizontal feet per vertical foot, with the exception of the January 1995 event, which was an order of magnitude steeper. The apparent fluctuation in ground water flow direction at the Site may be influenced by several factors. These factors include: (1) Two of the monitoring wells are composed of 2-inch polyvinyl chloride (PVC) well casing, while the third is composed of 4-inch PVC well casing, (2) all three monitoring wells have different total depths, which causes the screened intervals to vary between the wells, and (3) a backfilled excavation is present between the three wells in the location of the former UST (Figure 2), which may influence the ground water pattern. Other factors, including seasonal fluctuations in water levels, local variation in soil composition, and the presence of braided stream channel sediments known to exist in the west Oakland area, may also be affecting the ground water flow patterns.

2. Thallium was detected in ground water samples collected from Monitoring Wells MW-1 and MW-2 during the July 1994 and the April 1995 sampling events. Concentrations of thallium detected in samples collected from both of these wells exceeds the MCL for thallium (0.002 mg/l) by an order of magnitude.

3. Lead was detected once during the October 1994 sampling event, in a ground water sample collected from Monitoring Well MW-2. The concentration detected (0.01 mg/l) was just below the California action level of 0.015 mg/l[4].

4. TPH-gas was detected in ground water samples collected from Monitoring Well MW-1 during three of the four sampling events, and during all four sampling events in ground water samples collected from Monitoring Well MW-3. Concentrations detected in MW-1 ranged from 0.12 mg/l to 0.45 mg/l. Concentrations detected in MW-3 ranged from 0.07 mg/l to 2.9 mg/l. TPH-gas was not detected in ground water samples collected from Monitoring Well MW-2 during the four sampling events.

5. TPH-diesel and oil and grease were not detected in ground water samples collected from each of the monitoring wells during the four sampling events. However, an unknown hydrocarbon in the kerosene range was detected by the laboratory in a ground water sample collected from Monitoring Well MW-3 during the July 1994 sampling event. The laboratory quantified the unknown compound at 0.062 mg/l.

6. VOCs were not detected in ground water samples collected from Monitoring Well MW-2 during the four sampling events. VOCs were detected in ground water samples collected from Monitoring Well MW-1 during each of the sampling events, and in Monitoring Well MW-3 during the January and April 1995 sampling events. Ground water samples collected from Monitoring Well MW-1 showed the presence of benzene at concentrations ranging from 3.5 to 37 ug/l in three of the four sampling events, 2-butanone (MEK) at a concentration of 3.4 ug/l in one sampling event, and 1,2-DCA at concentrations ranging from 17 to 43 ug/l in each of the four

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(4) State of California Department of Health Services, *Summary of California Drinking Water Standards,* November 1994. Federal action level to be met at customer tap.

sampling events. Ground water samples collected from Monitoring Well MW-3 showed the presence of benzene at concentrations of 7.3 and 23 ug/l in two of the sampling events, ethylbenzene at concentrations of 12 and 20 ug/l in two of the sampling events, toluene at a concentration of 2.7 ug/l in one of the sampling events, and total xylenes at concentrations of 7.7 and 11 ug/l in two of the sampling events. Out of the compounds detected in the ground water samples, only benzene and 1,2-DCA continuously exceeded their respective MCL's of 1 ug/l and 0.5 ug/l.

TABLE 1: WATER LEVEL DATA

Caltrans - 505 Cedar Street
Environmental Solutions, Inc. Project Number 94-911

Well Identification	Top of Casing Elevation*	Measuring Date	Depth to Water #	Water Level Elevation*
MW-1	9.25	7/22/94	8.83	0.42
		10/27/94	8.315	0.935
		1/19/95	4.91	4.34
		4/13/95	5.28	3.97
MW-2	9.84	7/22/94	9.24	0.60
		10/27/94	8.82	1.02
		1/19/95	5.31	4.53
		4/13/95	5.74	4.10
MW-3	9.41	7/22/94	8.94	0.47
		10/27/94	8.41	1.00
		1/19/95	3.78	5.63
		4/13/95	5.36	4.05

* = Measurements in feet above USGS Mean Sea Level
# = Depths measured in feet from top of casing

TABLE 2: TEMPERATURE, pH, AND CONDUCTIVITY MEASUREMENTS

Caltrans - 505 Cedar Street
Environmental Solutions, Inc. Project Number 94-911

Well Identification	Measuring Date	Temperature*	pH	Conductivity+
MW-1	7/27/94	67.0	NA	1158
	10/27/94	70.6	7.0	1103
	1/19/95	66.0	6.6	1410
	4/13/95	62.8	7.1	1110
MW-2	7/27/94	65.4	NA	1040
	10/27/94	67.8	7.1	916
	1/19/95	63.0	7.0	740
	4/13/95	63.1	6.3	571
MW-3	7/27/94	66.6	NA	1756
	10/27/94	68.4	6.8	1374
	1/19/95	60.0	6.6	980
	4/13/95	61.7	6.6	532

* Temperature in degrees fahrenheit
+ = Conductivity in umhos
NA = not available

Table 3: Analytical Results, 505 Cedar Street, Oakland, California

		Hydrocarbons (mg/l)					6010 Metals (mg/l)									
Monitoring Well	Date	Hydrocarbons	Detection Limit	8015m-Diesel	5520-Oil and Grease	8015m-Gasoline	6010 Metals	Detection Limit	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (total)	Cobalt	Copper
MW-1	7/27/94		mg/l	ND(0.05)	ND(1.0)	**0.12**		mg/l	ND(0.02)	ND(0.005)	**0.069**	ND(0.001)	ND(0.001)	**0.011**	ND(0.01)	ND(0.005)
	10/27/94		mg/l	ND(0.05)	ND(5.0)	**0.45**		mg/l	ND(0.02)	**0.011**	**0.076**	ND(0.001)	**0.001**	ND(0.01)	ND(0.01)	ND(0.005)
	1/19/95		mg/l	ND(0.05)	ND(1.0)	ND(0.05)		mg/l	ND(0.02)	ND(0.005)	**0.075**	ND(0.001)	ND(0.001)	ND(0.05)	ND(0.01)	ND(0.005)
	4/13/95		mg/l	ND(0.05)	ND(1.0)	**0.18**		mg/l	ND(0.02)	ND(0.01)	**0.23**	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.01)	ND(0.01)
MW-2	7/27/94		mg/l	ND(0.05)	ND(1.0)	ND(0.05)		mg/l	ND(0.02)	ND(0.005)	**0.011**	ND(0.001)	ND(0.001)	ND(0.01)	ND(0.01)	ND(0.005)
	10/27/94		mg/l	ND(0.05)	ND(5.0)	ND(0.05)		mg/l	ND(0.02)	**0.005**	**0.12**	ND(0.001)	**0.003**	**0.02**	ND(0.01)	**0.02**
	1/19/95		mg/l	ND(0.05)	ND(1.0)	ND(0.05)		mg/l	ND(0.02)	ND(0.005)	**0.081**	ND(0.001)	**0.004**	**0.05**	ND(0.01)	**0.005**
	4/13/95		mg/l	ND(0.05)	ND(1.0)	ND(0.05)		mg/l	ND(0.02)	ND(0.01)	**0.08**	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.01)	ND(0.01)
MW-3	7/27/94		mg/l	ND(0.05)[a]	ND(1.0)	**0.13**		mg/l	ND(0.02)	ND(0.005)	**0.21**	ND(0.001)	ND(0.001)	ND(0.01)	ND(0.01)	ND(0.005)
	10/27/94		mg/l	ND(0.05)	ND(5.0)	**0.07**		mg/l	ND(0.02)	**0.009**	**0.15**	ND(0.001)	ND(0.001)	ND(0.01)	ND(0.01)	ND(0.005)
	1/19/95		mg/l	ND(0.05)	ND(1.0)	**2.9**		mg/l	ND(0.02)	ND(0.005)	**0.18**	ND(0.001)	ND(0.001)	ND(0.05)	ND(0.01)	ND(0.005)
	4/13/95		mg/l	ND(0.05)	ND(1.0)	**1.3**		mg/l	ND(0.02)	ND(0.01)	**0.08**	ND(0.005)	ND(0.005)	**0.02**	ND(0.01)	ND(0.01)

a = Unknown hydrocarbon identified in gasoline/kerosene range, quantified as 0.062 mg/l

ND (0.05) Not Detected at or above reporting limit, reporting limit in parentheses.

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Table 3: Analytical Results, 505 Cedar Street, Oakland, California

		6010 Metals (mg/l)									8240 VOCs (ug/l)							
Monitoring Well	Date	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury	8240 VOC's	Detection Limit	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane
MW-1	7/27/94	ND(0.01)	**0.0059**	ND(0.02)	ND(0.01)	ND(0.005)	**0.04**	ND(0.01)	**0.38**	ND(0.001)		ug/L	ND(5.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	10/27/94	ND(0.01)	ND(0.005)	ND(0.02)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.001)		ug/L	ND(5.0)	**37**	ND(2.0)	ND(2.0)	ND(2.0)
	1/19/95	ND(0.01)	ND(0.005)	ND(0.05)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.01)	**0.15**	**0.001**		ug/L	ND(5.0)	**16**	ND(2.0)	ND(2.0)	ND(2.0)
	4/13/95	ND(0.01)	ND(0.01)	**0.01**	**0.03**	ND(0.01)	**0.02**	**0.01**	**0.02**	ND(0.001)		ug/L	ND(4.0)	**3.5**	ND(2.0)	ND(2.0)	ND(2.0)
MW-2	7/27/94	ND(0.01)	**0.0066**	ND(0.02)	ND(0.01)	ND(0.005)	**0.017**	ND(0.01)	**0.012**	ND(0.001)		ug/L	ND(5.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	10/27/94	**0.01**	ND(0.005)	**0.02**	ND(0.01)	ND(0.005)	ND(0.01)	**0.01**	**0.03**	ND(0.001)		ug/L	ND(5.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	1/19/95	ND(0.01)	ND(0.005)	ND(0.05)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.01)	**0.14**	ND(0.001)		ug/L	ND(5.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	4/13/95	ND(0.01)	ND(0.01)	ND(0.01)	**0.02**	ND(0.01)	**0.02**	ND(0.01)	**0.01**	ND(0.001)		ug/L	ND(5.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
MW-3	7/27/94	ND(0.01)	ND(0.005)	ND(0.02)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.01)	**0.17**	ND(0.001)		ug/L	ND(5.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	10/27/94	ND(0.01)	ND(0.005)	ND(0.02)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.001)		ug/L	ND(5.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	1/19/95	ND(0.01)	ND(0.005)	ND(0.05)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.01)	**0.04**	ND(0.001)		ug/L	ND(5.0)	**7.3**	ND(2.0)	ND(2.0)	ND(2.0)
	4/13/95	ND(0.01)	ND(0.01)	ND(0.01)	**0.01**	ND(0.01)	ND(0.02)	ND(0.01)	**0.02**	ND(0.001)		ug/L	ND(4.0)	**23**	ND(2.0)	ND(2.0)	ND(2.0)

Table 3: Analytical Results, 505 Cedar Street, Oakland, California

Monitoring Well	Date	8240 VOCs (ug/l)															
		2-Butanone (MEK)	Carbon Tetrachloride	Chlorobenzene	Chloroethane	2-Chloroethyl Vinyl Ether	Chloroform	Chloromethane	Dibromochloromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
MW-1	7/27/94	**3.4**	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	**43**	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	10/27/94	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	**37**	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	1/19/95	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	**26**	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	4/13/95	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	**17**	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
MW-2	7/27/94	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	10/27/94	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	1/19/95	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	4/13/95	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
MW-3	7/27/94	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	10/27/94	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	1/19/95	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	4/13/95	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)

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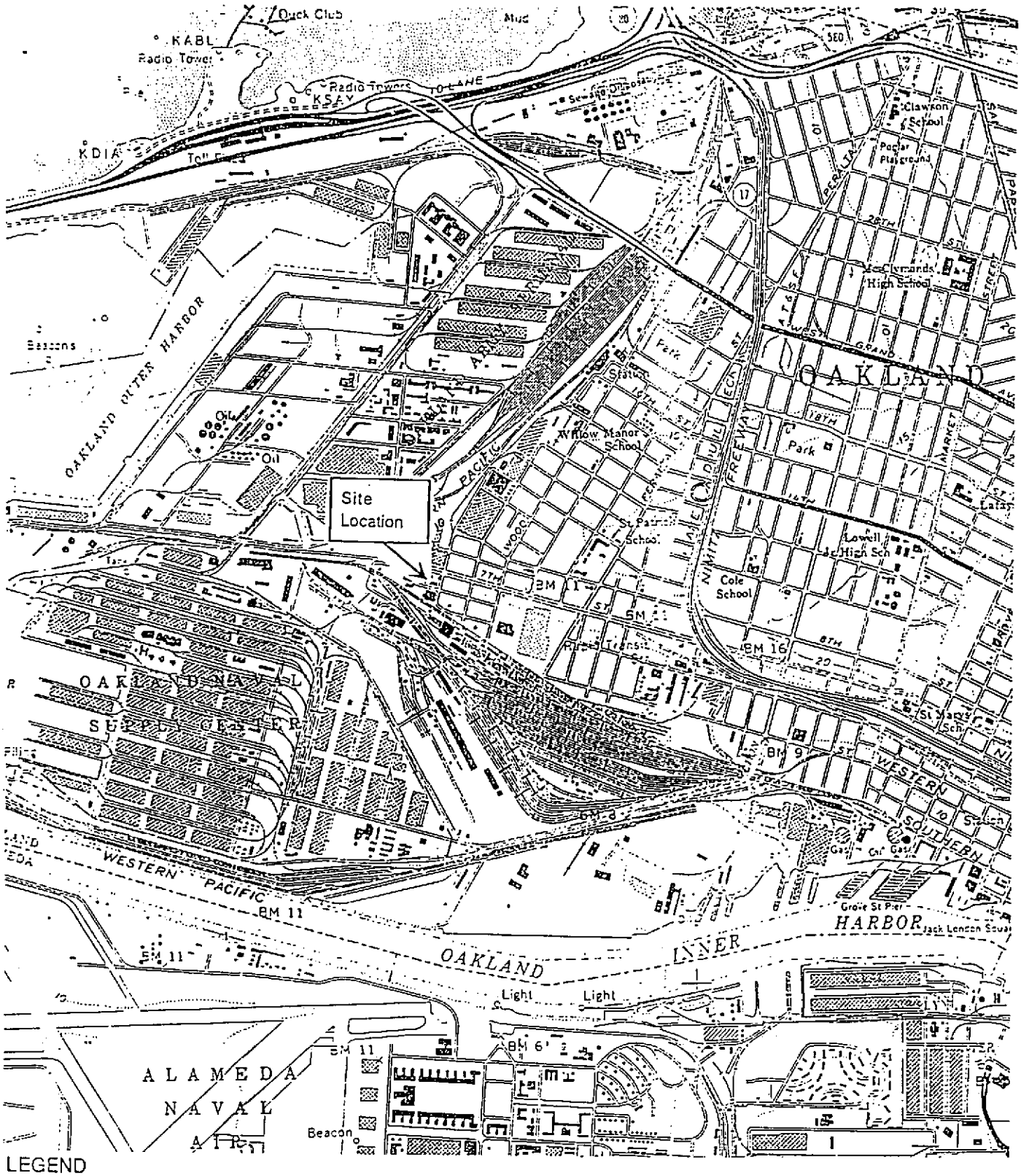
Table 3: Analytical Results, 505 Cedar Street, Oakland, California

Monitoring Well	Date	8240 VOCs (ug/l)															
		Ethylbenzene	2-Hexanone	Methylene Chloride	Methyl Isobutyl Ketone	Styrene	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride	Total Xylenes
MW-1	7/27/94	ND(2.0)	ND(2.0)	ND(5.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	10/27/94	ND(2.0)	ND(2.0)	ND(5.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	1/19/95	ND(2.0)	ND(2.0)	ND(5.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	4/13/95	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
MW-2	7/27/94	ND(2.0)	ND(2.0)	ND(5.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	10/27/94	ND(2.0)	ND(2.0)	ND(5.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	1/19/95	ND(2.0)	ND(2.0)	ND(5.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	4/13/95	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
MW-3	7/27/94	ND(2.0)	ND(2.0)	ND(5.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	10/27/94	ND(2.0)	ND(2.0)	ND(5.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
	1/19/95	**20**	ND(2.0)	ND(5.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	**7.7**
	4/13/95	**12**	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	**2.7**	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	**11**

ENVIRONMENTAL SOLUTIONS

94-011rev. 2/95



LEGEND

USGS 1: 24,000 SCALE
OAKLAND WEST
QUADRANGLE TOPOGRAPHIC MAP

0 1/2
Statute Miles

FIGURE 1
SITE VICINITY MAP
505 Cedar Street
Oakland, California

ENVIRONMENTAL SOLUTIONS, INC.

ENVIRONMENTAL SOLUTIONS

94-911 Fig. 2/Rev 6/95

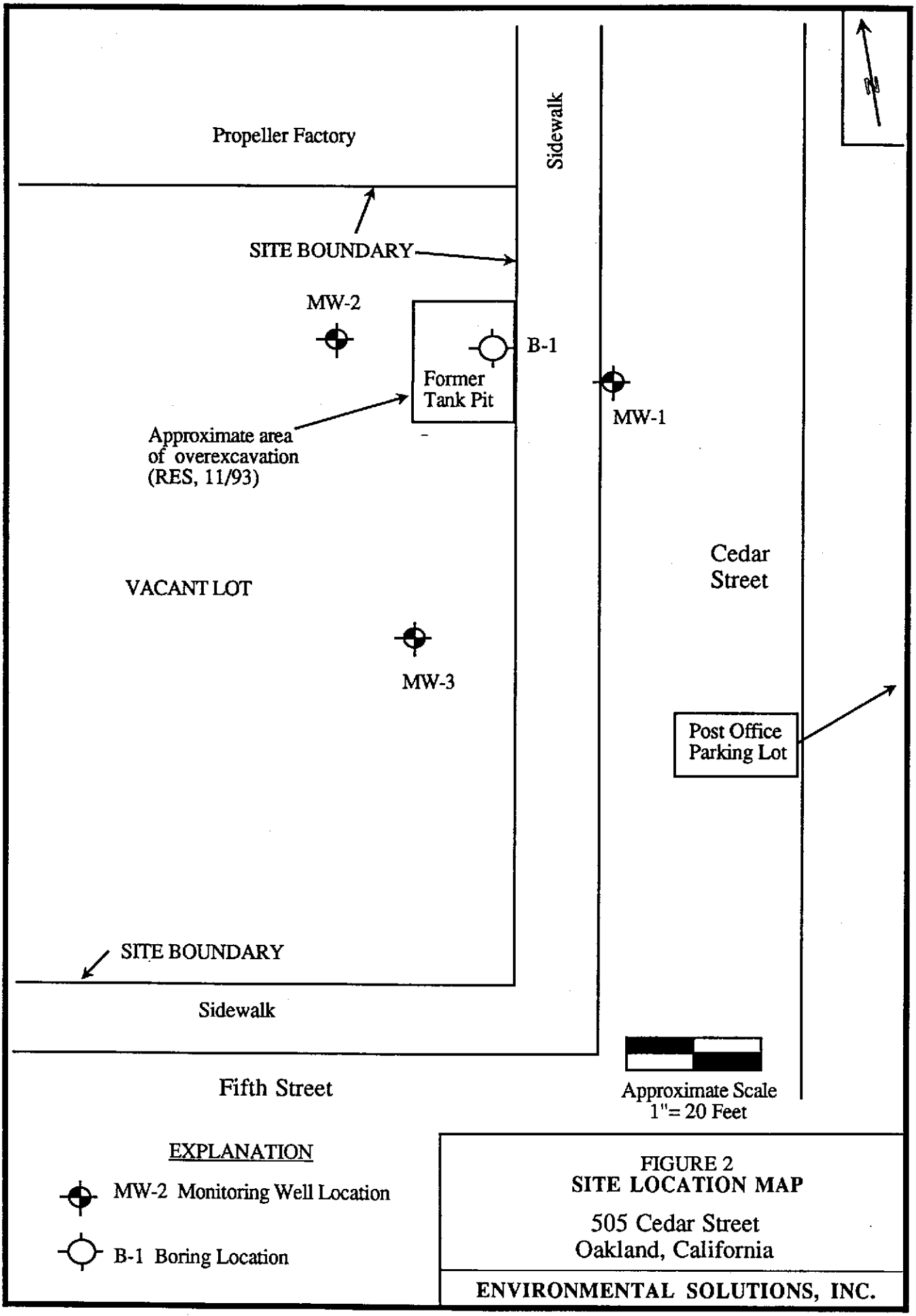


FIGURE 2
SITE LOCATION MAP

505 Cedar Street
Oakland, California

ENVIRONMENTAL SOLUTIONS, INC.

94-911 Fig. 2/Rev 6/95

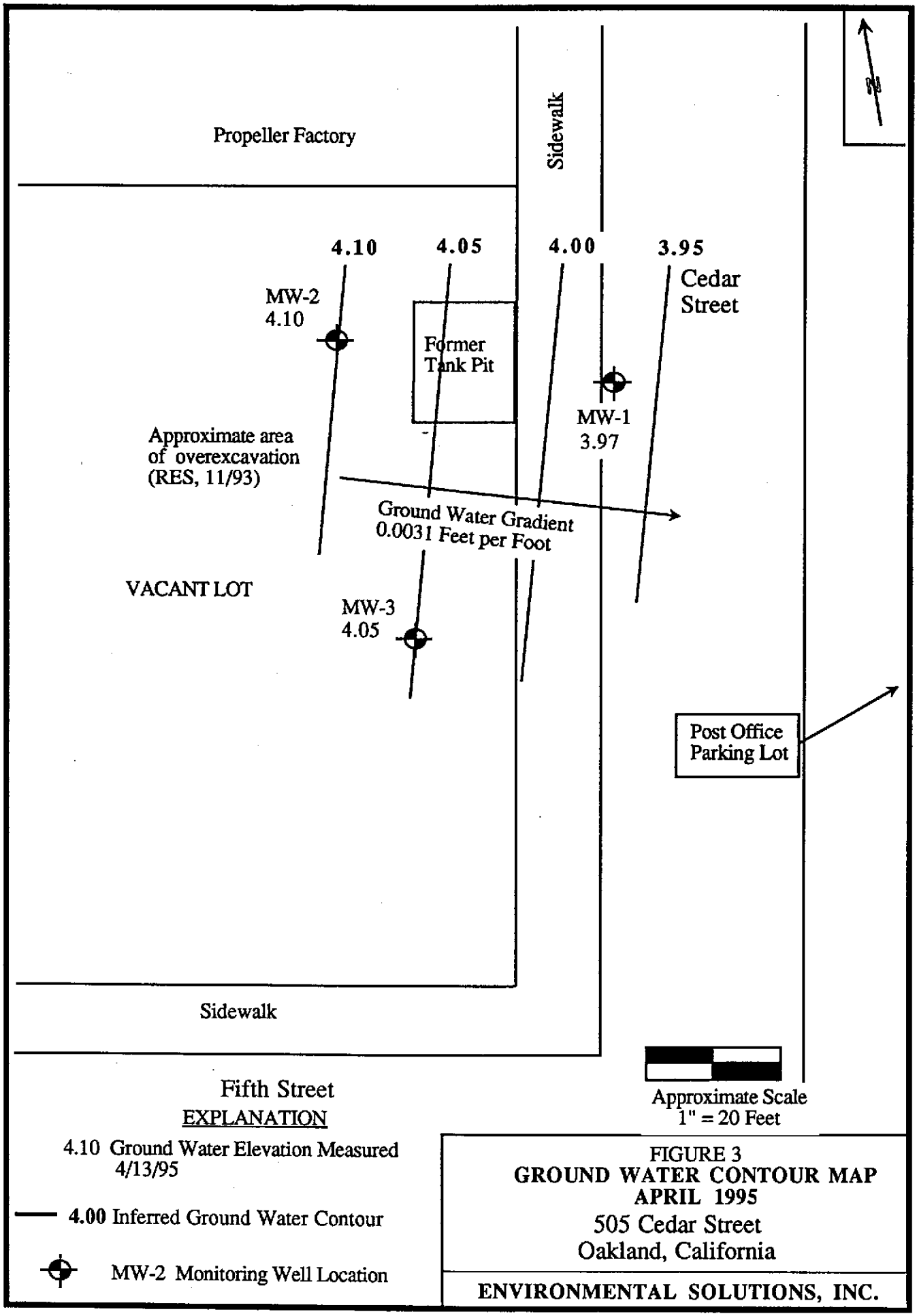


FIGURE 3
GROUND WATER CONTOUR MAP
APRIL 1995
505 Cedar Street
Oakland, California

ENVIRONMENTAL SOLUTIONS, INC.

94-911 Fig. 2/Rev 6/95

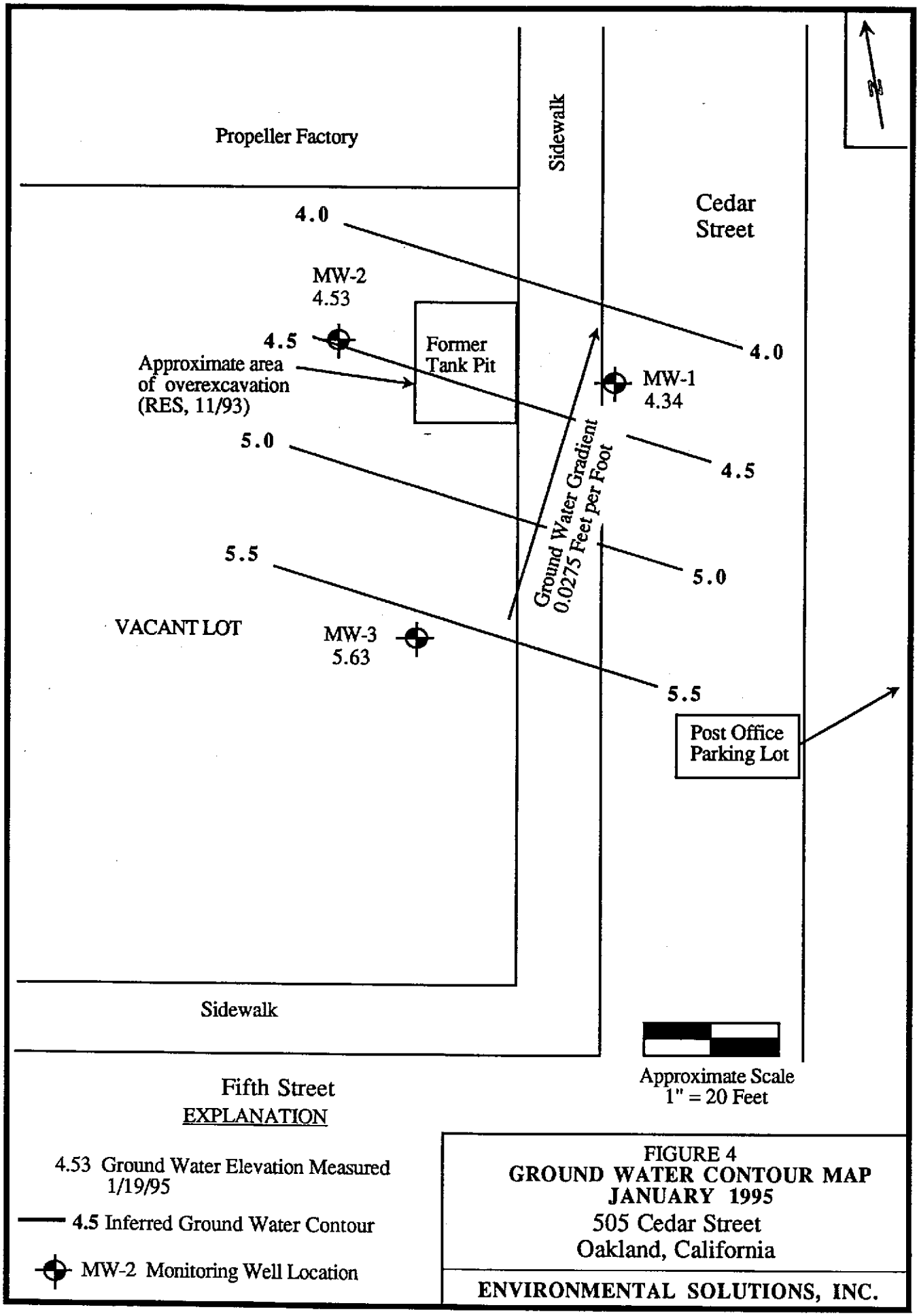
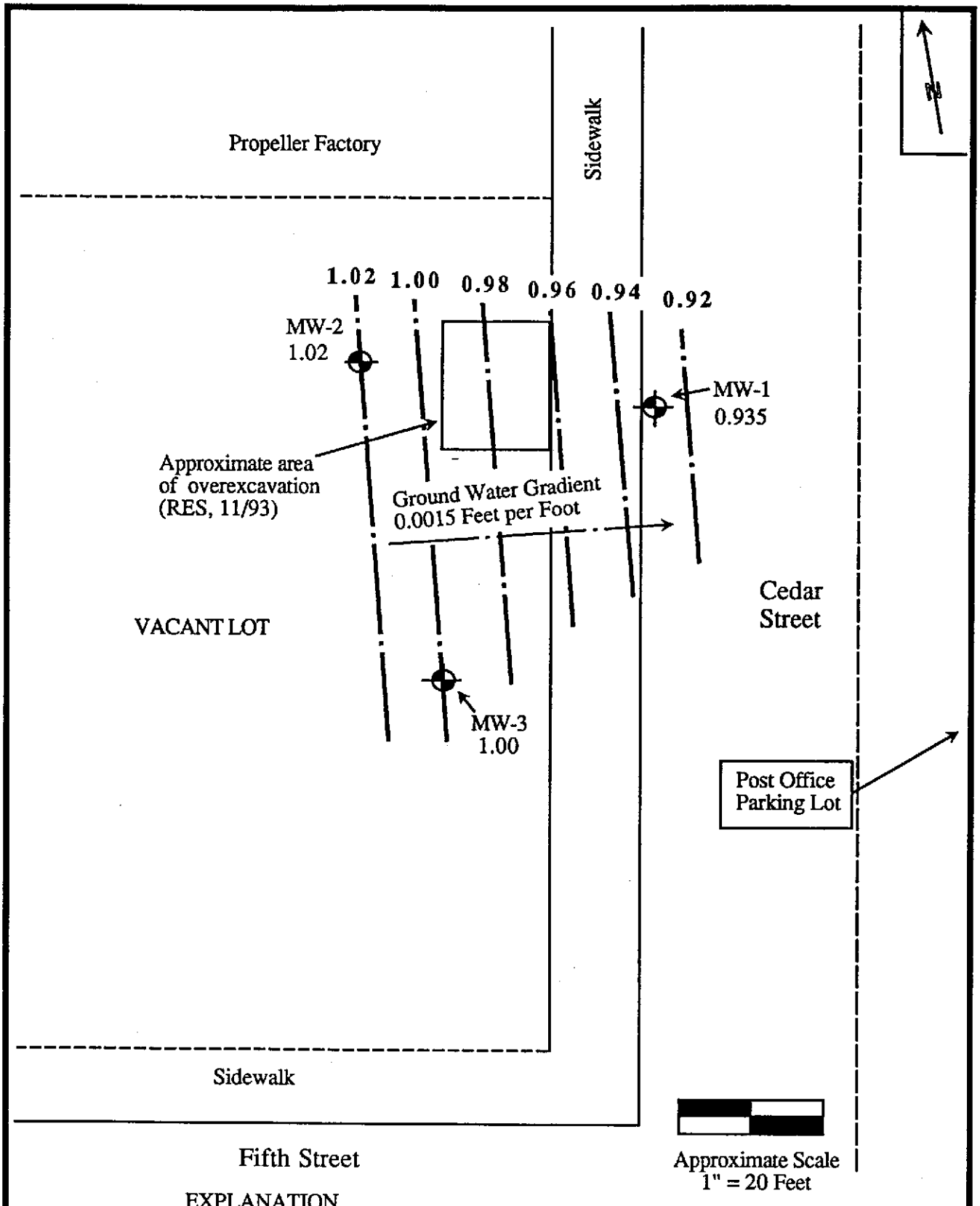


FIGURE 4
GROUND WATER CONTOUR MAP
JANUARY 1995
505 Cedar Street
Oakland, California

ENVIRONMENTAL SOLUTIONS, INC.

94-911 Fig. 2/Rev 6/95



EXPLANATION

1.02 Ground Water Elevation Measured 10/27/94

Inferred Ground Water Contour

MW-2 Monitoring Well Location

FIGURE 5
GROUND WATER CONTOUR MAP
OCTOBER 1994
505 Cedar Street
Oakland, California

ENVIRONMENTAL SOLUTIONS, INC.

94-911 Fig. 2/Rev 6/95

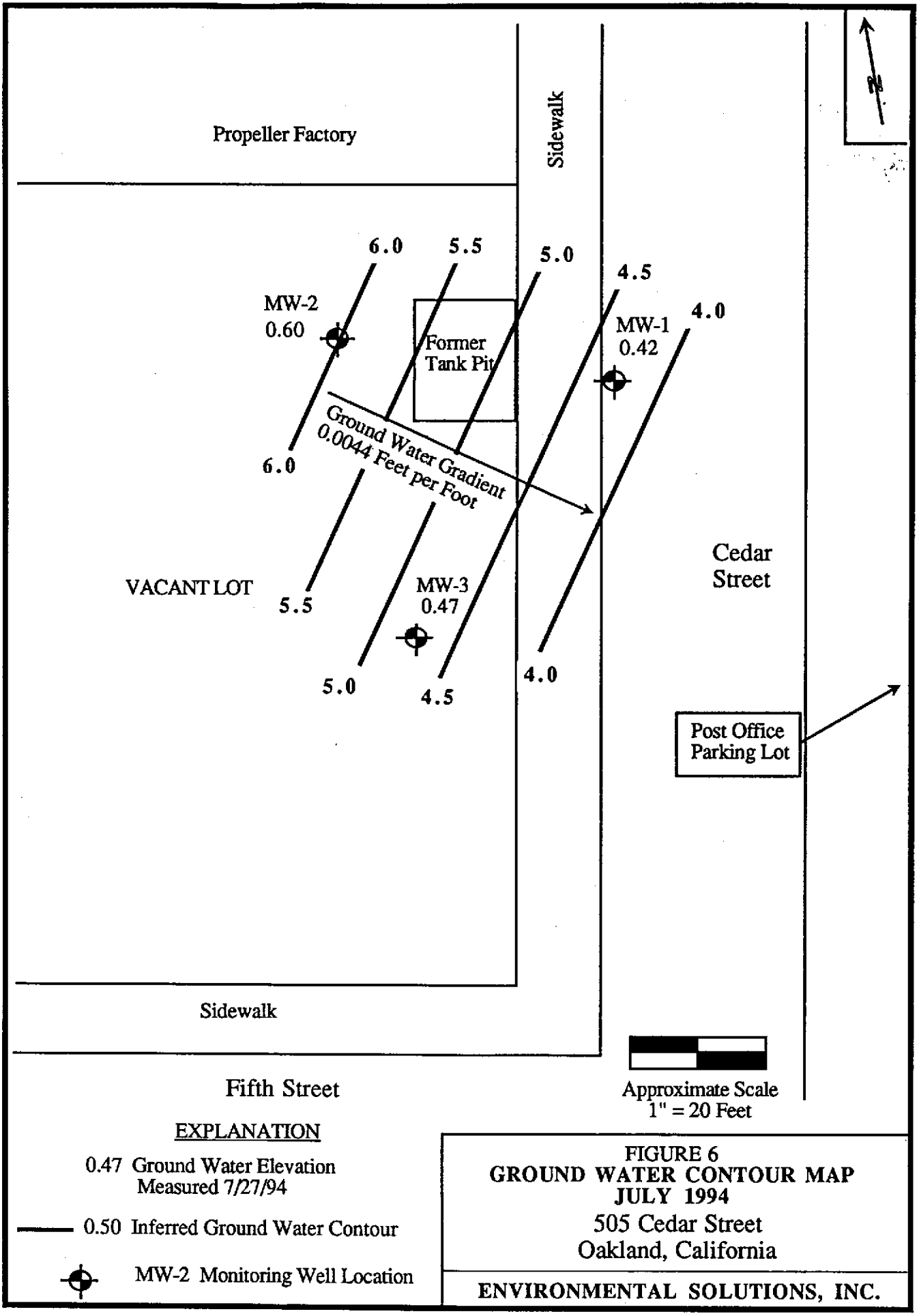


FIGURE 6
GROUND WATER CONTOUR MAP
JULY 1994
505 Cedar Street
Oakland, California

ENVIRONMENTAL SOLUTIONS, INC.

94-911 Fig. 2/Rev 6/95

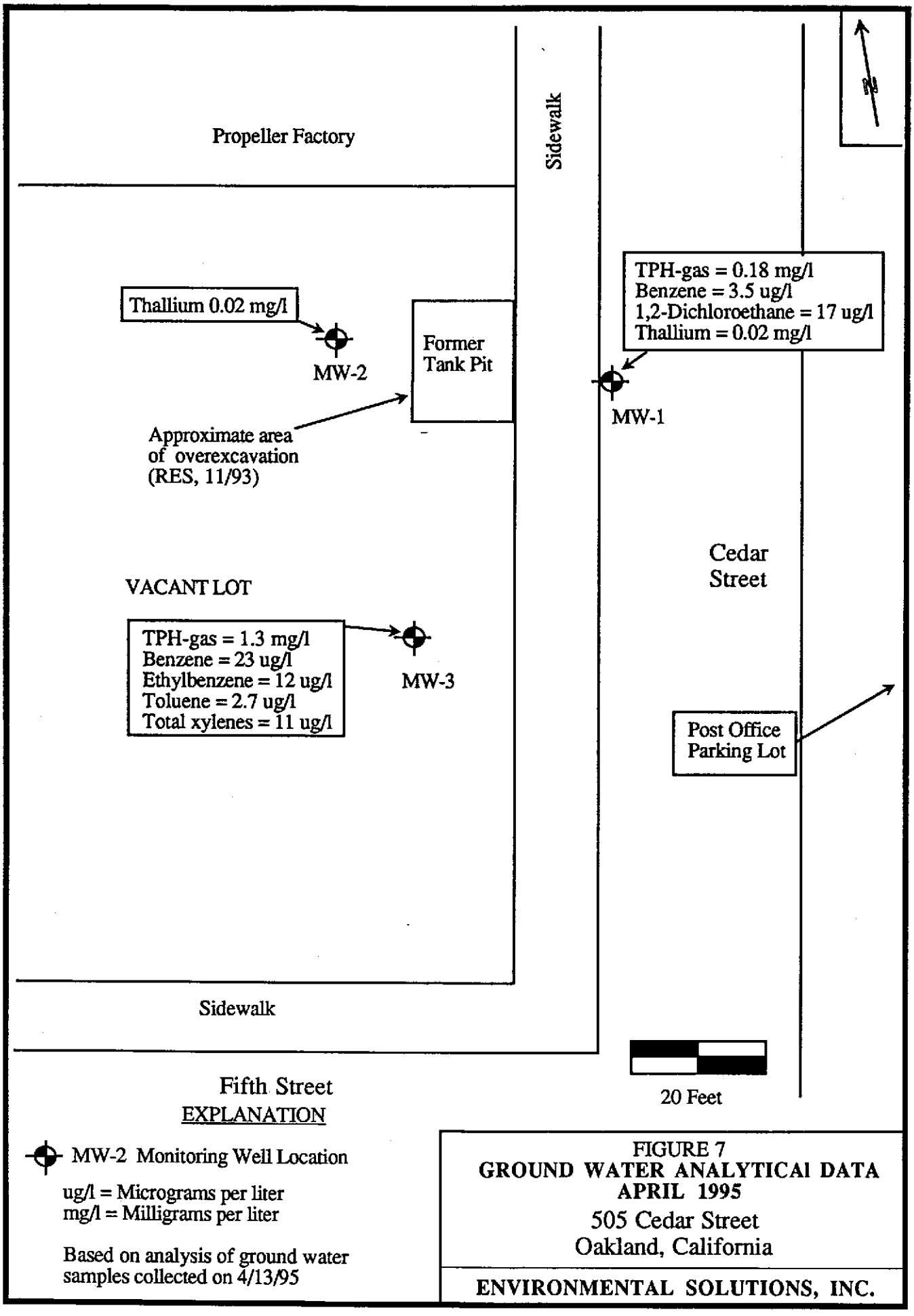


FIGURE 7
GROUND WATER ANALYTICAl DATA
APRIL 1995
505 Cedar Street
Oakland, California

ENVIRONMENTAL SOLUTIONS, INC.

APPENDIX A

CHAIN-OF-CUSTODY DOCUMENTATION
AND
ANALYTICAL DATA SHEETS

CHROMALAB, INC.

Environmental Services (SDB)

RECEIVED
MAY - 2 1995

April 19, 1995 *Submission #:* 9504193

ENV. SOLUTIONS - PETALUMA

Atten: Jed Douglas

Project: 505 CEDAR ST. *Project#:* 94-911
Received: April 14, 1995

re: One sample for CAM 17 Metals analysis.

Sample ID: **W-1**
Spl#: 85020 *Matrix:* WATER *Extracted:* April 18, 1995
Sampled: April 13, 1995 *Run#:* 6257 *Analyzed:* April 18, 1995
Method: EPA 3010A M/6010/7470

ANALYTE	RESULT (mg/L)	REPORTING LIMIT (mg/L)	BLANK RESULT (mg/L)	BLANK SPIKE RESULT (%)
ANTIMONY	N.D.	0.02	N.D.	100
ARSENIC	N.D.	0.01	N.D.	106
BARIUM	0.23	0.01	N.D.	105
BERYLLIUM	N.D.	0.005	N.D.	105
CADMIUM	N.D.	0.005	N.D.	104
CHROMIUM	N.D.	0.01	N.D.	106
COBALT	N.D.	0.01	N.D.	104
COPPER	N.D.	0.01	N.D.	104
LEAD	N.D.	0.01	N.D.	105
MOLYBDENUM	N.D.	0.01	N.D.	102
NICKEL	0.01	0.01	N.D.	104
SELENIUM	0.03	0.01	N.D.	104
SILVER	N.D.	0.01	N.D.	107
THALLIUM	0.02	0.02	N.D.	104
VANADIUM	0.01	0.01	N.D.	106
ZINC	0.02	0.01	N.D.	105
MERCURY	N.D.	0.001	N.D.	89

Doina Danet
Chemist

John S. Labash
Inorganic Supervisor

QC DOINA 04/20/95

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

April 19, 1995 *Submission #:* 9504193

ENV. SOLUTIONS - PETALUMA

Atten: Jed Douglas

Project: 505 CEDAR ST. *Project#:* 94-911
Received: April 14, 1995

re: One sample for CAM 17 Metals analysis.

Sample ID: **W-2**
Spl#: 85021 *Matrix:* WATER *Extracted:* April 18, 1995
Sampled: April 13, 1995 *Run#:* 6257 *Analyzed:* April 18, 1995
Method: EPA 3010A M/6010/7470

ANALYTE	RESULT (mg/L)	REPORTING LIMIT (mg/L)	BLANK RESULT (mg/L)	BLANK SPIKE RESULT (%)
ANTIMONY	N.D.	0.02	N.D.	100
ARSENIC	N.D.	0.01	N.D.	106
BARIUM	0.08	0.01	N.D.	105
BERYLLIUM	N.D.	0.005	N.D.	105
CADMIUM	N.D.	0.005	N.D.	104
CHROMIUM	N.D.	0.01	N.D.	106
COBALT	N.D.	0.01	N.D.	104
COPPER	N.D.	0.01	N.D.	104
LEAD	N.D.	0.01	N.D.	105
MOLYBDENUM	N.D.	0.01	N.D.	102
NICKEL	N.D.	0.01	N.D.	104
SELENIUM	0.02	0.01	N.D.	104
SILVER	N.D.	0.01	N.D.	107
THALLIUM	0.02	0.02	N.D.	104
VANADIUM	N.D.	0.01	N.D.	106
ZINC	0.01	0.01	N.D.	105
MERCURY	N.D.	0.001	N.D.	89

Doina Danet
Chemist

John S. Labash
Inorganic Supervisor

QC DOINA 09:39:00

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CHROMALAB, INC.

Environmental Services (SDB)

April 19, 1995 *Submission #:* 9504193

ENV. SOLUTIONS - PETALUMA

Atten: Jed Douglas

Project: 505 CEDAR ST. *Project#:* 94-911
Received: April 14, 1995

re: One sample for CAM 17 Metals analysis.

Sample ID: **W-3**
Spl#: 85022 *Matrix:* WATER *Extracted:* April 18, 1995
Sampled: April 13, 1995 *Run#:* 6257 *Analyzed:* April 18, 1995
Method: EPA 3010A M/6010/7470

ANALYTE	RESULT (mg/L)	REPORTING LIMIT (mg/L)	BLANK RESULT (mg/L)	BLANK SPIKE RESULT (%)
ANTIMONY	N.D.	0.02	N.D.	100
ARSENIC	N.D.	0.01	N.D.	106
BARIUM	0.08	0.01	N.D.	105
BERYLLIUM	N.D.	0.005	N.D.	105
CADMIUM	N.D.	0.005	N.D.	104
CHROMIUM	0.02	0.01	N.D.	106
COBALT	N.D.	0.01	N.D.	104
COPPER	N.D.	0.01	N.D.	104
LEAD	N.D.	0.01	N.D.	105
MOLYBDENUM	N.D.	0.01	N.D.	102
NICKEL	N.D.	0.01	N.D.	104
SELENIUM	0.01	0.01	N.D.	104
SILVER	N.D.	0.01	N.D.	107
THALLIUM	N.D.	0.02	N.D.	104
VANADIUM	N.D.	0.01	N.D.	106
ZINC	0.02	0.01	N.D.	105
MERCURY	N.D.	0.001	N.D.	89

Doina Danet
Chemist

John S. Lapash
Inorganic Supervisor

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

April 20, 1995 *Submission #:* 9504193

ENV. SOLUTIONS - PETALUMA

Atten: Jed Douglas

Project: 505 CEDAR ST. *Project#:* 94-911
Received: April 14, 1995

re: 3 samples for Oil and Grease analysis.

Matrix: WATER *Extracted:* April 19, 1995
Sampled: April 13, 1995 *Run#:* 6290 *Analyzed:* April 19, 1995
Method: STANDARD METHODS 5520 B&F

Spl # CLIENT SMPL ID	OIL & GREASE (mg/L)	REPORTING LIMIT (mg/L)	BLANK RESULT (mg/L)	BLANK SPIKE RESULT (%)
85020 W-1	N.D.	1.0	N.D.	86
85021 W-2	N.D.	1.0	N.D.	86
85022 W-3	N.D.	1.0	N.D.	86

Carolyn House
Extractions Supervisor

Ali Kharrazi
Organic Manager

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(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

QC CMH 11:31:50

CHROMALAB, INC.

Environmental Services (SDB)

April 20, 1995 *Submission #:* 9504193

ENV. SOLUTIONS - PETALUMA

Atten: Jed Douglas

Project: 505 CEDAR ST. *Project#:* 94-911
Received: April 14, 1995

re: 3 samples for Diesel analysis.

Matrix: WATER *Extracted:* April 19, 1995
Sampled: April 13, 1995 *Run#:* 6307 *Analyzed:* April 19, 1995
Method: EPA 3510/8015M

Spl # CLIENT SMPL ID	DIESEL (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
85020 W-1	N.D.	50	N.D.	82
85021 W-2	N.D.	50	N.D.	82
85022 W-3	N.D.	50	N.D.	82

Sirirat (Sindy) Chullakorn
Chemist

Ali Kharrazi
Organic Manager

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Federal ID #68-0140157

OC YT 14:56:36

CHROMALAB, INC.

Environmental Services (SDB)

April 20, 1995 *Submission #:* 9504193

ENV. SOLUTIONS - PETALUMA

Atten: Jed Douglas

Project: 505 CEDAR ST. *Project#:* 94-911
Received: April 14, 1995

re: 3 samples for Gasoline analysis.

Matrix: WATER
Sampled: April 13, 1995 *Run#:* 6287 *Analyzed:* April 19, 1995
Method: EPA 5030/8015M

Spl # CLIENT SMPL ID	GASOLINE (mg/L)	REPORTING LIMIT (mg/L)	BLANK RESULT (mg/L)	BLANK SPIKE RESULT (%)
85020 W-1	0.18	0.05	N.D.	108
85021 W-2	N.D.	0.05	N.D.	108
85022 W-3	1.3	0.05	N.D.	108

Jack Kelly
Chemist

Ali Kharrazi
Organic Manager

QC JACK 10:12:01

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

April 20, 1995 *Submission #:* 9504193

ENV. SOLUTIONS - PETALUMA
Atten: Jed Douglas
Project: 505 CEDAR ST. *Project#:* 94-911
Received: April 14, 1995
re: One sample for Volatile Organic Compounds analysis.

Sample ID: **W-1**
Spl#: 85020 *Matrix:* WATER
Sampled: April 13, 1995 *Run#:* 6309 *Analyzed:* April 19, 1995
Method: EPA 8240/8260

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
ACETONE	N.D.	4.0	N.D.	--
BENZENE	3.5	2.0	N.D.	106
BROMODICHLOROMETHANE	N.D.	2.0	N.D.	--
BROMOFORM	N.D.	2.0	N.D.	--
BROMOMETHANE	N.D.	2.0	N.D.	--
METHYL ETHYL KETONE	N.D.	2.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	2.0	N.D.	--
CHLOROBENZENE	N.D.	2.0	N.D.	95
CHLOROETHANE	N.D.	2.0	N.D.	--
2-CHLOROETHYLVINYL ETHER	N.D.	2.0	N.D.	--
CHLOROFORM	N.D.	2.0	N.D.	--
CHLOROMETHANE	N.D.	2.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	2.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	2.0	N.D.	--
1,2-DICHLOROETHANE	17	2.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	2.0	N.D.	109
CIS-1,2-DICHLOROETHENE	N.D.	2.0	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	2.0	N.D.	--
1,2-DICHLOROPROPANE	N.D.	2.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.	--
ETHYLBENZENE	N.D.	2.0	N.D.	--
2-HEXANONE	N.D.	2.0	N.D.	--
METHYLENE CHLORIDE	N.D.	2.0	N.D.	--
METHYL ISOBUTYL KETONE	N.D.	2.0	N.D.	--
STYRENE	N.D.	2.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	2.0	N.D.	--
TETRACHLOROETHENE	N.D.	2.0	N.D.	--
TOLUENE	N.D.	2.0	N.D.	92
1,1,1-TRICHLOROETHANE	N.D.	2.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	2.0	N.D.	--
TRICHLOROETHENE	N.D.	2.0	N.D.	99
TRICHLOROFLUOROMETHANE	N.D.	2.0	N.D.	--
VINYL ACETATE	N.D.	2.0	N.D.	--
VINYL CHLORIDE	N.D.	2.0	N.D.	--
TOTAL XYLENES	N.D.	2.0	N.D.	--

Aaron McMichael
Chemist

Ali Kharrazi
Organic Manager

QC AARON 16:13:05

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

April 20, 1995 *Submission #:* 9504193

ENV. SOLUTIONS - PETALUMA
Atten: Jed Douglas
Project: 505 CEDAR ST. *Project#:* 94-911
Received: April 14, 1995
re: One sample for Volatile Organic Compounds analysis.

Sample ID: **W-2**
Spl#: 85021 *Matrix:* WATER
Sampled: April 13, 1995 *Run#:* 6309 *Analyzed:* April 19, 1995
Method: EPA 8240/8260

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
ACETONE	N.D.	4.0	N.D.	--
BENZENE	N.D.	2.0	N.D.	106
BROMODICHLOROMETHANE	N.D.	2.0	N.D.	--
BROMOFORM	N.D.	2.0	N.D.	--
BROMOMETHANE	N.D.	2.0	N.D.	--
METHYL ETHYL KETONE	N.D.	2.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	2.0	N.D.	--
CHLOROBENZENE	N.D.	2.0	N.D.	95
CHLOROETHANE	N.D.	2.0	N.D.	--
2-CHLOROETHYLVINYL ETHER	N.D.	2.0	N.D.	--
CHLOROFORM	N.D.	2.0	N.D.	--
CHLOROMETHANE	N.D.	2.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	2.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	2.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	2.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	2.0	N.D.	109
CIS-1,2-DICHLOROETHENE	N.D.	2.0	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	2.0	N.D.	--
1,2-DICHLOROPROPANE	N.D.	2.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.	--
ETHYLBENZENE	N.D.	2.0	N.D.	--
2-HEXANONE	N.D.	2.0	N.D.	--
METHYLENE CHLORIDE	N.D.	2.0	N.D.	--
METHYL ISOBUTYL KETONE	N.D.	2.0	N.D.	--
STYRENE	N.D.	2.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	2.0	N.D.	--
TETRACHLOROETHENE	N.D.	2.0	N.D.	--
TOLUENE	N.D.	2.0	N.D.	92
1,1,1-TRICHLOROETHANE	N.D.	2.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	2.0	N.D.	--
TRICHLOROETHENE	N.D.	2.0	N.D.	99
TRICHLOROFLUOROMETHANE	N.D.	2.0	N.D.	--
VINYL ACETATE	N.D.	2.0	N.D.	--
VINYL CHLORIDE	N.D.	2.0	N.D.	--
TOTAL XYLENES	N.D.	2.0	N.D.	--

Aaron McMichael
Chemist

Ali Kharrazi
Organic Manager

QC AARON 16:13:03

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

April 20, 1995 *Submission #:* 9504193

ENV. SOLUTIONS - PETALUMA
Atten: Jed Douglas
Project: 505 CEDAR ST. *Project#:* 94-911
Received: April 14, 1995
re: One sample for Volatile Organic Compounds analysis.

Sample ID: **W-3**
Spl#: 85022 *Matrix:* WATER
Sampled: April 13, 1995 *Run#:* 6309 *Analyzed:* April 19, 1995
Method: EPA 8240/8260

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
ACETONE	N.D.	4.0	N.D.	--
BENZENE	23	2.0	N.D.	106
BROMODICHLOROMETHANE	N.D.	2.0	N.D.	--
BROMOFORM	N.D.	2.0	N.D.	--
BROMOMETHANE	N.D.	2.0	N.D.	--
METHYL ETHYL KETONE	N.D.	2.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	2.0	N.D.	--
CHLOROBENZENE	N.D.	2.0	N.D.	95
CHLOROETHANE	N.D.	2.0	N.D.	--
2-CHLOROETHYLVINYL ETHER	N.D.	2.0	N.D.	--
CHLOROFORM	N.D.	2.0	N.D.	--
CHLOROMETHANE	N.D.	2.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	2.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	2.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	2.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	2.0	N.D.	109
CIS-1,2-DICHLOROETHENE	N.D.	2.0	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	2.0	N.D.	--
1,2-DICHLOROPROPANE	N.D.	2.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.	--
ETHYLBENZENE	12	2.0	N.D.	--
2-HEXANONE	N.D.	2.0	N.D.	--
METHYLENE CHLORIDE	N.D.	2.0	N.D.	--
METHYL ISOBUTYL KETONE	N.D.	2.0	N.D.	--
STYRENE	N.D.	2.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	2.0	N.D.	--
TETRACHLOROETHENE	N.D.	2.0	N.D.	--
TOLUENE	2.7	2.0	N.D.	92
1,1,1-TRICHLOROETHANE	N.D.	2.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	2.0	N.D.	--
TRICHLOROETHENE	N.D.	2.0	N.D.	99
TRICHLOROFLUOROMETHANE	N.D.	2.0	N.D.	--
VINYL ACETATE	N.D.	2.0	N.D.	--
VINYL CHLORIDE	N.D.	2.0	N.D.	--
TOTAL XYLENES	11	2.0	N.D.	--

Aaron McMichael
Chemist

Ali Kharrazi
Organic Manager

OC AARON 9E13-03

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(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

193/8020-85022

21498

CHAIN OF CUSTODY RECORD

Ship To: Chromalab

Attn:

Page 1 of 1

Project Name: 505 Cedar ST

Project No.: 94-911

Site Location: CalTrans

Date: 4, 13, 95

SUBM #: 9504193 REP: PM
CLIENT: ENVSOL-PET
DUE: 04/21/95
REF #:21498

Boring/Well No.	Sample No.	Depth	Date	Time	Sample Type: Water	Solid	Other	Comp.	Grab.	Sample Containers: Vol.	No.	Type	Pres.	Analysis: 6010	8015 Gas	8015 diesel	5520 O&G	8240			Remarks
W-1	-	-	4/13	1300	X				X		6			X	X	X	X	X			Filter and preserve
W-2	-	-	"	1330	X				X		6			X	X	X	X	X			Prior to 6010 analysis
W-3	-	-	"	1345	X				X		6			X	X	X	X	X			
																					Standard TAT

Total Number of Samples Shipped: 18 containers Shipper's Signature:

	Signature	Company	Date	Time
Relinquished by:		ESE	4/14/95	1432
Received by:		Chromalab	4-14-95	1432
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

Special Instructions / Shipment / Handling / Storage Requirements:
Project is contract extension from CalTrans
USE 1994 CalTrans Prices!

The material(s) listed are received for analysis and/or treatability evaluation and remain the property of the client and not Environmental Solutions, Inc. At the conclusion of the test work, all remaining material(s) will be returned to the client for eventual disposal at a licensed facility.

☐ ENVIRONMENTAL SOLUTIONS, INC.
21 Technology Drive
Irvine, California 92718

☐ ENVIRONMENTAL SOLUTIONS, INC.
1172 Pelican Bay Drive
Daytona Beach, Florida 32119

☒ ENVIRONMENTAL SOLUTIONS, INC.
1201 N. McDowell Boulevard
Petaluma, California 94954

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2815 Mitchell Drive, Suite 103
Walnut Creek, California 94598

ENVIRONMENTAL SOLUTIONS

DISTRIBUTION

APRIL 1995 QUARTERLY
MONITORING, SAMPLING AND ANNUAL SUMMARY REPORT
505 CEDAR STREET
OAKLAND, CALIFORNIA

Caltrans Contract Number 53U495
Task Order Number 04-192211-05

Environmental Solutions, Inc. Project No. 94-911

May 19, 1995

California Department of Transportation — 5 Copies
Environmental Engineering Branch
111 Grand Avenue, 14th Floor
Oakland, California 94623

Attention: Mr. Chris Wilson

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Petaluma, CA 94954