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A REPORT DOCUMENTING THE PURGING AND  
SAMPLING OF THREE GROUNDWATER MONITORING  
WELLS AND THE DETERMINATION OF GROUNDWATER  
GRADIENT:

AT:

WEST COAST WIRE ROPE  
597-85TH AVENUE  
OAKLAND, CALIFORNIA

# 3411

June 17, 1993

93051101

A REPORT DOCUMENTING THE PURGING AND  
SAMPLING OF THREE GROUNDWATER MONITORING  
WELLS AND THE DETERMINATION OF GROUNDWATER  
GRADIENT:

AT:

WEST COAST WIRE ROPE  
597-85TH AVENUE  
OAKLAND, CALIFORNIA

prepared by:

Helen A. Mawhinney  
ENVIRONMENTAL TECHNICAL SERVICES  
Helen A. Mawhinney  
Senior Environmental Specialist

6-29-93  
Date

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Groundwater Development Reports

## 1.0 INTRODUCTION

Environmental Technical Services was retained by West Coast Wire Rope to purge and sample ground-water from the first aquifer within three existing monitoring wells existing on the site located at 597 85th Avenue, Oakland, California.

The work was performed in response to the discovery of petroleum hydrocarbons within soil beneath the site and has been requested by the Alameda County Environmental Health Department

## 2.0 SITE DESCRIPTION

The site is located in the City and County of Alameda. The area is primarily commercial, industrial, and residential. Several buildings are located on-site. These include multiple storage houses, an office, furniture warehouse, and soon a trucking company. Ninety-nine percent of the site is paved, with a few grassy areas.

The topography of the site is relatively level.

Refer to Appendix A, Figure 1 for the Site Location Map and Figure 3 for the Building Code Map.

## 3.0 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

Five underground storage tanks (USTs) have been removed from this site. These were a 750-gallon, 1,000-gallon, 8,000 gallon and 10,000-gallon gasoline underground storage tank. One 8,000-gallon diesel UST was also removed.

Semco Engineering removed the gasoline USTs on April 29, 1988. The Zaccor Corporation removed the 8,000-gallon diesel UST on June 11, 1990.

Refer to Table I for the depths and analytical results of soil samples collected subsequent to the removal of each tank.

Refer to Appendix A, Figure 2., for the Tank Location Map.

A soils investigation was performed by the Zaccor Corporation on April 17, 1991, in the outer perimeter of the former 8,000-gallon gasoline and 8,000-gallon diesel UST.

### 3.0 PREVIOUS ENVIRONMENTAL INVESTIGATIONS-continued

Three ground-water monitoring wells were installed on April 19, 1991. Refer to Table IIa for the analytical results of the collected monitoring well ground-water samples. Analytical results are presented in Table Ia. Ground-water Analytical results are presented in Table Ib.

TABLE Ia

ANALYTICAL RESULTS OF SOIL SAMPLES COLLECTED DURING THE INSTALLATION OF THREE GROUNDWATER MONITORING WELLS, APRIL 19, 1991.

Results are Reported in mg/K

<u>Sample#</u>	<u>Depth</u>	<u>TPHg</u>	<u>B</u>	<u>T</u>	<u>E</u>	<u>X</u>	<u>TPHg</u>
MW-1	3.5'-4.0'	ND	ND	ND	ND	ND	16
MW-2	3.0'-3.5'	ND	ND	ND	ND	ND	150
MW-3	3.5'-4.0'	ND	ND	ND	ND	ND	1,000

TABLE Ib

MONITORING WELL GROUND-WATER SAMPLE ANALYTICAL RESULTS  
Sampling performed on April 25, 1991

Results are reported in ug/L

<u>Sample#</u>	<u>TPHg</u>	<u>B</u>	<u>T</u>	<u>E</u>	<u>X</u>	<u>TPHg</u>
MW-1	500	0.6	ND	ND	ND	ND
MW-2	ND	ND	ND	ND	ND	ND
MW-3	98	ND	ND	ND	ND	ND

#### 4.0 SCOPE OF SERVICES

##### 4.1 Ground-water Purging & Sampling

Three existing monitoring wells were purged and sampled on November 19, 1992 and February 23, 1993, and June 10, 1993. All well effluent was contained in Department of Transportation 17-H, 55 gallon drums, pending analysis of water samples. The wells were developed (purged) using a clean stainless steel bailer (1.5" diameter by 3' length) bailer. Subsequent to purging each well was sampled using a clean stainless steel bailer. A separate bailer was dedicated to each well for the sampling event. At consistent intervals throughout sampling ground-water parameters (pH, conductivity, and temperature) were monitored to evaluate stabilization of the wells.

A water sample was decanted from the sampling bailer into two one-liter amber bottles and two 40-ml volatile organics analysis vials (VOAs) to a positive meniscus eliminating headspace.

The samples were transported to a certified analytical laboratory under chain of custody for analysis.

Refer to Appendix G, Groundwater Development Report.

##### 4.2 Well Development

Each of the wells were evacuated using a clean stainless steel bailer, 1.5 inches by 3.0 feet ( a clean bailer dedicated to each well). Approximately 7 gallons of water were evacuated from MW-1 during development. The well yield was good. Prior to development the total well depth of MW-1 was 19.21 feet and depth of water was 2.85 feet. Groundwater was grey in color and very little silt.

Approximately 8 gallons of water were evacuated from MW-2 during development. The well yield was good. Prior to development the total well depth of MW-2 was 16.4 feet and depth of water was 2.91 feet. Groundwater was gold and had very little silt.

Approximately 7 gallons of water were evacuated from MW-3 during development. The well yield was good. Prior to development the total well depth of MW-3 was 18.0 feet and depth of water was 3.71 feet. Groundwater was gold with little silt.

Refer to Appendix G, Groundwater Development Report, 6/10/93

#### 4.3 Groundwater Analysis

Each groundwater sample was analyzed for total petroleum hydrocarbons as diesel (TPH<sub>d</sub>, using EPA Method 3510 and TPH Luft), total petroleum hydrocarbons as gasoline with benzene, toluene, ethylbenzene, and total xylenes (TPH<sub>g</sub> & BTEX, using EPA Method 5030 and TPH Luft Method 602 for BTEX).

Groundwater analytical results for the third quarter of sampling, May 16, 1993, are presented in Table IV. Groundwater analytical results for the first quarter of sampling are presented in Table II and groundwater analytical results for the second quarter are presented in Table III.

#### 4.4 Ground-water Analytical Results

TABLE II  
GROUNDWATER ANALYTICAL RESULTS  
FIRST QUARTER SAMPLING PERFORMED ON  
NOVEMBER 19, 1992

Results are reported in ug/L

<u>Sample#</u>	<u>TPHg</u>	<u>B</u>	<u>T</u>	<u>E</u>	<u>X</u>	<u>TPH<sub>d</sub></u>
MW-1	ND	ND	ND	ND	ND	ND
MW-2	ND	ND	ND	ND	ND	ND
MW-3	ND	ND	ND	ND	ND	ND

ND = not detected at lower detection limit for this compound

TABLE III  
GROUNDWATER ANALYTICAL RESULTS  
SECOND QUARTER SAMPLING PERFORMED ON  
FEBRUARY 23, 1993

Results are reported in ug/L

<u>Sample#</u>	<u>TPHg</u>	<u>B</u>	<u>T</u>	<u>E</u>	<u>X</u>	<u>TPH<sub>d</sub></u>
MW-1	368.0	ND	ND	ND	ND	ND
MW-2	972.0	ND	ND	ND	ND	ND
MW-3	ND	ND	ND	ND	ND	ND

ND = not detected at lower detection limit for this compound



TABLE IV  
GROUNDWATER ANALYTICAL RESULTS  
THIRD QUARTER SAMPLING PERFORMED ON  
JUNE 13, 1993

Sample#	TPHg	B	T	E	X	TPHd
MW-1	494.0	ND	ND	ND	ND	ND
MW-2	79.0	ND	ND	ND	ND	ND
MW-3	ND	ND	ND	ND	ND	ND

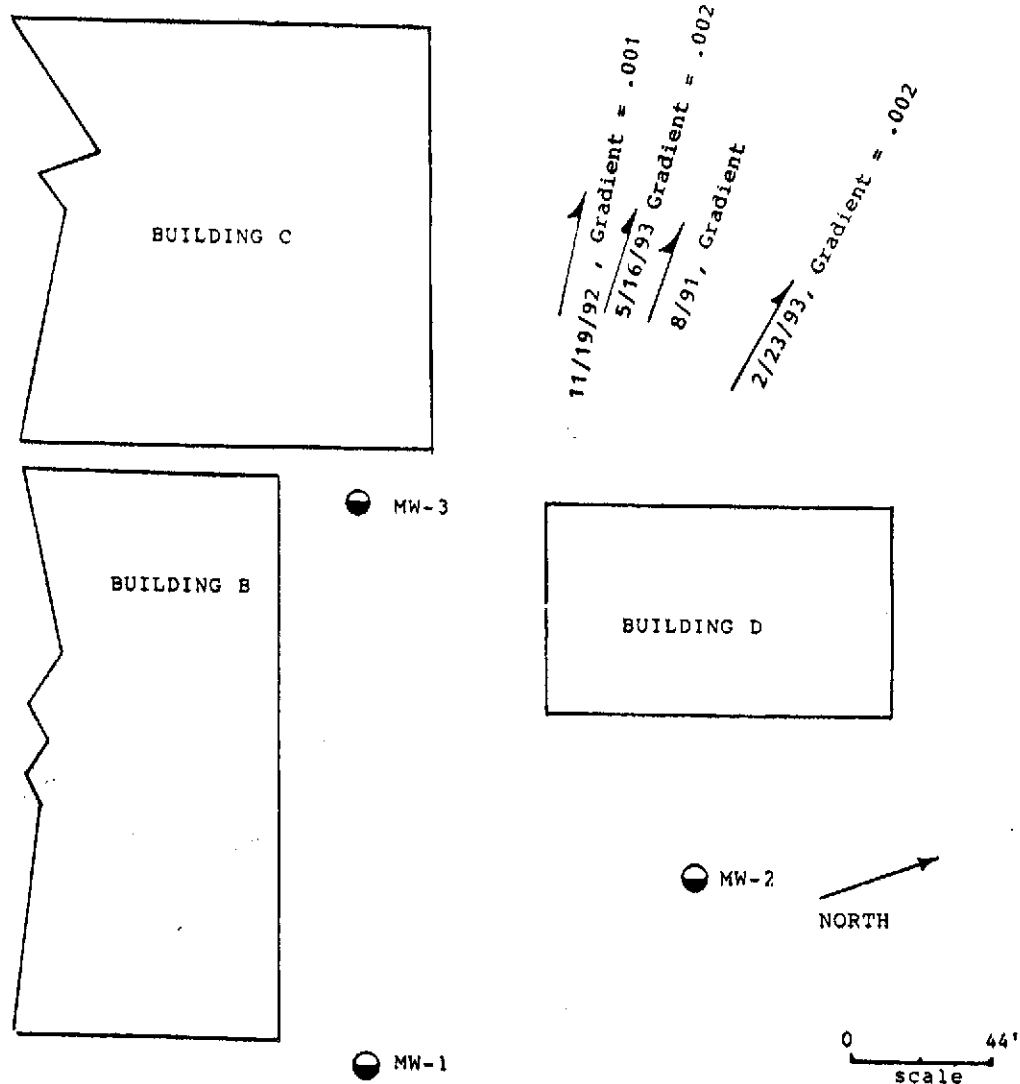
ND = not detected at lower detection limit for this compound

## 4.5 Groundwater Gradient

TABLE V  
DEPTH AN ELEVATION TO GROUNDWATER

MW NO.	TOC ELEV. (FT.)	DATE	WATER DEPTH	WATER ELEV.
1	4.75	5/16/93	2.85	1.90
2	4.70	5/16/93	2.91	1.79
3	5.45	5/16/93	3.71	1.74

datum = elevation taken from city bench mark #1549

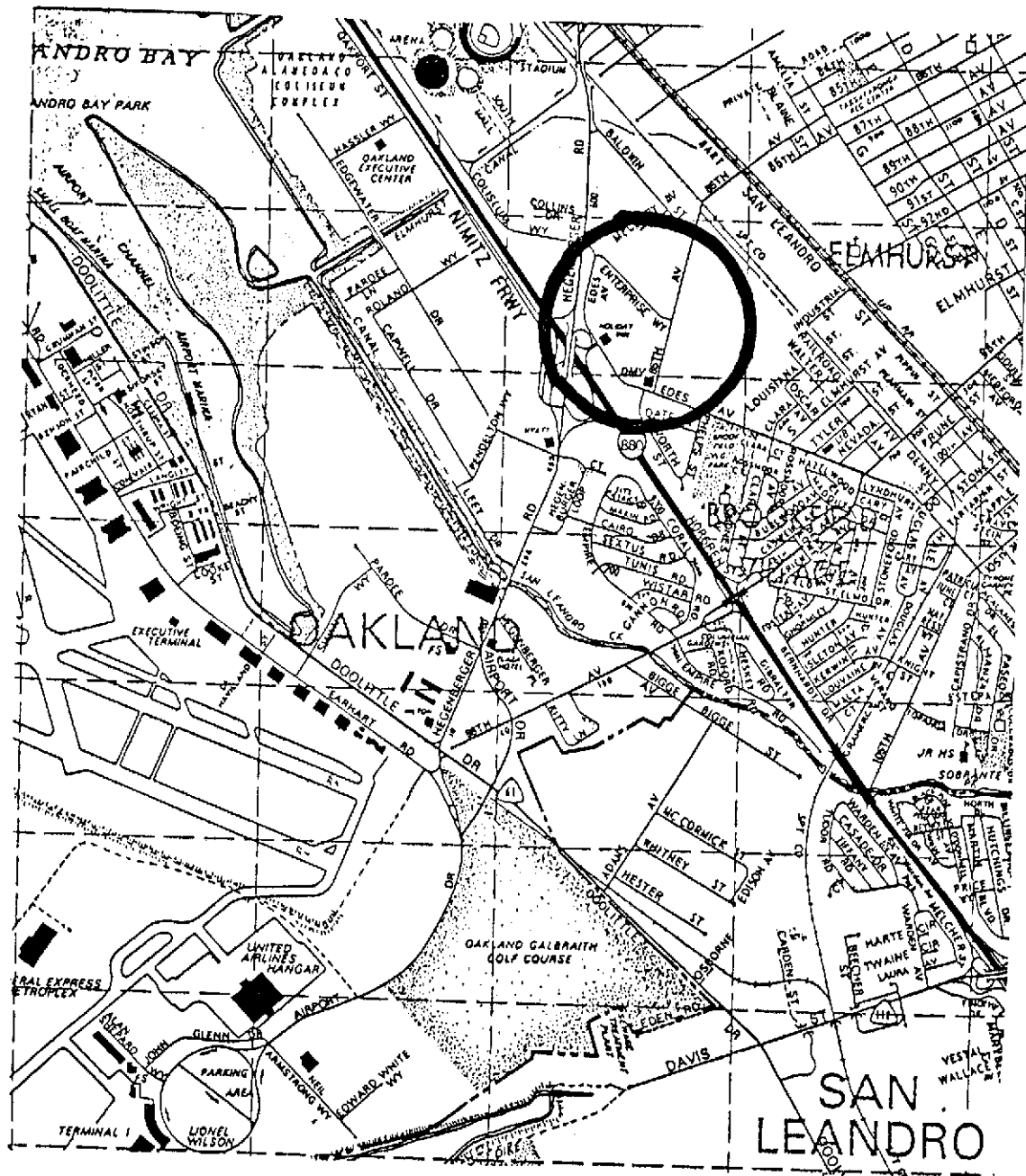


5.0 REPORT

Please forward a copy of this report to the following regulatory agencies. The addresses have been provided for your convenience:

California Water Quality Control Board  
San Francisco Bay Region  
2101 Webster Street, Suite 500  
Oakland, California 94621

Alameda County  
Department of Environmental Health  
Hazardous Materials Division  
80 Swan Way, Room 200  
Oakland, California 94621



Environmental  
 Technical  
 Services

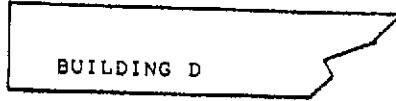
WEST COAST WIRE ROPE  
 597 - 85th AVENUE  
 OAKLAND, CALIFORNIA

Figure 1  
 SITE LOCATION MAP

TANK-E  
8,000 gallon  
diesel UST  
excavation



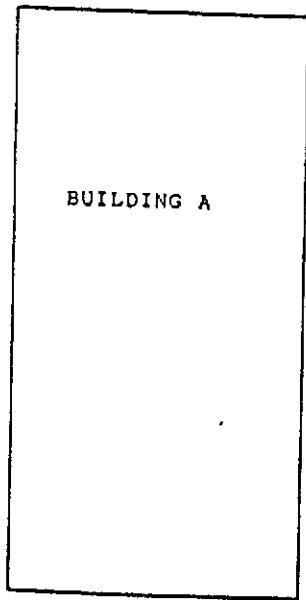
TANK-D  
8,000 gallon  
gasoline  
UST excavation



BUILDING D



TANK-C  
10,000 gallon gasoline  
UST excavation

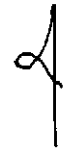


BUILDING A

TANK-B  
1,000 gallon gasoline  
UST excavation



TANK-A  
750mgallon gasoline  
UST excavation



NORTH



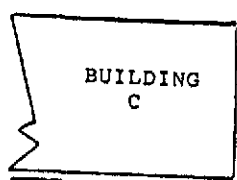
597 85th Avenue



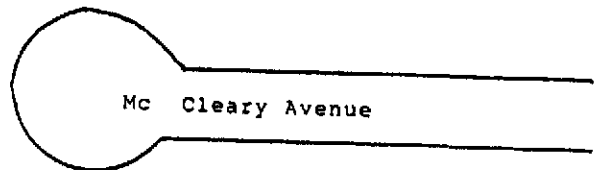
Environmental  
Technical  
Services

WEST COAST WIRE ROPE  
597-85TH AVENUE  
OAKLAND, CALIFORNIA

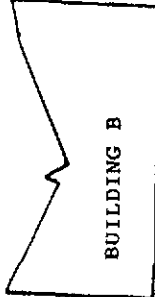
Figure 2  
TANK LOCATION MAP



BUILDING C



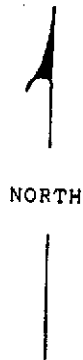
Mc Cleary Avenue



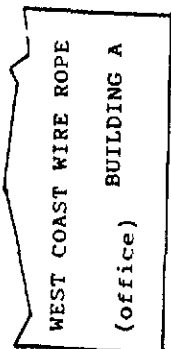
BUILDING B



BUILDING D



NORTH



WEST COAST WIRE ROPE  
(office) BUILDING A



597 85th Avenue

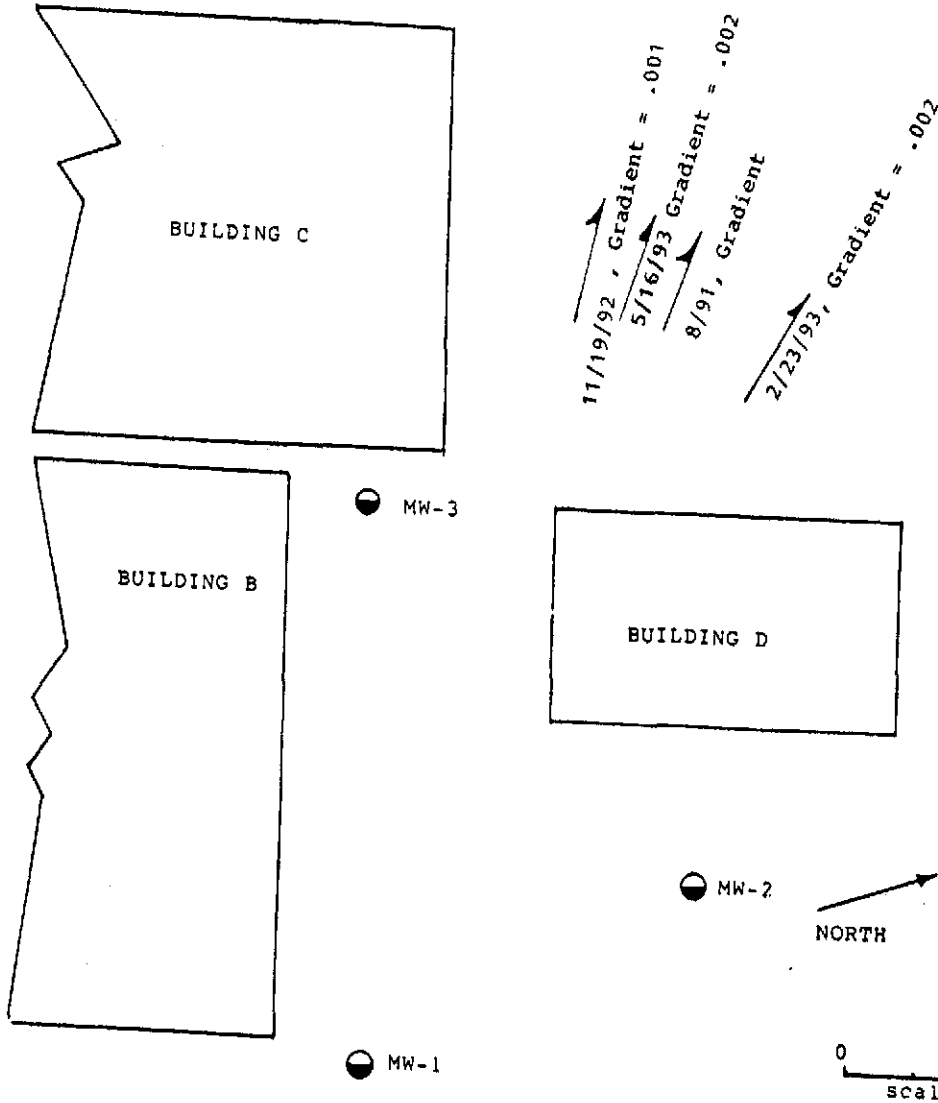


Environmental  
Technical  
Services

WEST COAST WIRE ROPE  
597-85TH AVENUE  
OAKLAND, CALIFORNIA

Figure 3  
BUILDING CODE MAP

WEST COAST WIRE ROPE



Environmental  
Technical  
Services

WEST COAST WIRE ROPE  
597-85TH AVENUE  
OAKLAND, CALIFORNIA

Figure 4  
MONITORING WELL  
LOCATION MAP

APPENDIX B

ANALYTICAL RESULTS OF SOIL SAMPLES  
COLLECTED DURING WELL INSTALLATION



**ANAMETRIX INC**

Environmental & Analytical Chemistry  
 1961 Concourse Drive, Suite E, San Jose, CA 95131  
 (408) 432-8192 • Fax (408) 432-8198

**REPORT**

MR. GARY ZACCOR  
 ZACCOR CORP.  
 791 HAMILTON AVE.  
 MENLO PARK, CA 94025

Workorder # : 9104186  
 Date Received : 04/19/91  
 Project ID : 597 85th AVE  
 Purchase Order: N/A

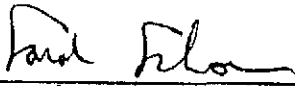
The following samples were received at Anamatrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9104186- 1	MW1/3.5-4
9104186- 2	MW-2/3.5-4
9104186- 3	MW3/3.5-4
9104186- 4	MW3/8.5-9

This report consists of 4 pages not including the cover letter, and is organized in sections according to the specific Anamatrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anamatrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anamatrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anamatrix.

  
 \_\_\_\_\_  
 Sarah Schoen, Ph.D.  
 Laboratory Manager

5-7-91  
 \_\_\_\_\_  
 Date

REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

MR. GARY ZACCOR  
ZACCOR CORP.  
791 HAMILTON AVE.  
MENLO PARK, CA 94025

Workorder # : 9104186  
Date Received : 04/19/91  
Project ID : 597 85th AVE  
Purchase Order: N/A  
Department : GC  
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9104186- 1	MW1/3.5-4	SOIL	04/18/91	TPHd
9104186- 2	MW-2/3.5-4	SOIL	04/18/91	TPHd
9104186- 3	MW3/3.5-4	SOIL	04/18/91	TPHd
9104186- 1	MW1/3.5-4	SOIL	04/18/91	TPHg/BTEX
9104186- 2	MW-2/3.5-4	SOIL	04/18/91	TPHg/BTEX
9104186- 3	MW3/3.5-4	SOIL	04/18/91	TPHg/BTEX

REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

MR. GARY ZACCOR  
ZACCOR CORP.  
791 HAMILTON AVE.  
MENLO PARK, CA 94025

Workorder # : 9104186  
Date Received : 04/19/91  
Project ID : 597 85th AVE  
Purchase Order: N/A  
Department : GC  
Sub-Department: TPH

QA/QC SUMMARY :

- The concentrations reported as diesel for samples MW-2/3.5-4 and MW3/3.5-4 are primarily due to the presence of a heavier petroleum product, possibly motor oil.

Cheryl Bentman 5/7/91  
Department Supervisor Date

Gene Jussini 05-07-91  
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS  
(GASOLINE WITH BTEX)  
ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9104186  
Matrix : SOIL  
Date Sampled : 04/18/91

Project Number : 597 85th AVE  
Date Released : 05/06/91

Reporting Limit	Sample I.D.# MW1/ 3.5-4	Sample I.D.# MW-2/ 3.5-4	Sample I.D.# MW3/ 3.5-4	Sample I.D.# 08B0423A
COMPOUNDS (mg/Kg)	-01	-02	-03	BLANK
Benzene	0.005	ND	ND	ND
Toluene	0.005	ND	ND	ND
Ethylbenzene	0.005	ND	ND	ND
Total Xylenes	0.005	ND	ND	ND
TPH as Gasoline	0.5	ND	ND	ND
% Surrogate Recovery	73%	62%	54%	92%
Instrument I.D.	HP8	HP8	HP8	HP8
Date Analyzed	04/23/91	04/23/91	04/23/91	04/23/91
RLMF	1	1	1	1

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
- BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020.
- RLMF - Reporting Limit Multiplication Factor.  
Anametrix control limits for surrogate recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Anne Jusik 05-07-91  
Analyst Date

Cheryl Balmer 5/7/91  
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL  
ANAMETRIX, INC. (408) 432-8192

Anamatrix W.O.: 9104186  
Matrix : SOIL  
Date Sampled : 04/18/91  
Date Extracted: 04/25/91

Project Number : 597 85th AVE  
Date released : 05/06/91  
Instrument I.D.: HP9

Anamatrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9104186-01	MW1/3.5-4	05/02/91	10	16
9104186-02	MW-2/3.5-4	05/01/91	10	150
9104186-03	MW3/3.5-4	05/01/91	100	1000
DSBL042591	METHOD BLANK	05/01/91	10	ND

Note : Reporting limit is obtained by multiplying the dilution factor times 10mg/Kg.

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following sample extraction by EPA Method 3550.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Steve Lucifora 05-07-91  
Analyst Date

Christ Balme 5/7/91  
Supervisor Date

CHAIN OF CUSTODY RECORD

9104136

2

1140 ACCOR

PROJECT NO.		SITE NAME & ADDRESS					ANALYSES REQUESTED (1)						REMARKS
597 85th Ave, OAKLAND, CA		WITNESSING AGENCY / INSPECTOR NAME / DATE Cynthia Chapman - Alameda Co. Hlth Dept					TPH (Gasoline) & B, T, X, & E	TPH (Diesel) & B, T, X, & E	Total Oil & Grease	Halogenated HC's	B, T, X & E	Heavy Metals	
ID. NO.	DATE	TIME	SOIL	WATER	SAMPLING LOCATION								
① MW1/3.5-4	4-18		✓		3.5-4'	✓	✓					ROUTINE	
② MW2/3.5-4	4-18		✓		3.5-4' 3'-3.5'	✓	✓					" "	
③ MW3/3.5-4	"		✓		3.5-4'	✓	✓					" "	
④ MW3/8.5-9	"		✓		8.5-9'							HOLD	
(1) See attached "Table 2" for specific analysis method.													
Relinquished by: (Signature) Helen Mawhinney			Date/Time 4-18 7:30		Received by: (Signature) ETS FREEZER			The following MUST BE completed by the laboratory accepting samples for analysis:					
Relinquished by: (Signature) Helen Mawhinney			Date/Time 4-19-91 10:16		Received by: (Signature) Benny S. Carrasco			1. Have all samples received for analysis been stored in ice? <u>YES</u>					
Relinquished by: (Signature) Benny S. Carrasco			Date/Time 4/19/91 10:55		Received by: (Signature)			2. Will samples remain refrigerated until analyzed? <u>YES</u>					
Relinquished by: (Signature)			Date/Time		Rec'd for Laboratory by: (Signature)			3. Did any samples received for analysis have head space? <u>NO</u>					
Relinquished by: (Signature)			Date/Time		Rec'd for Laboratory by: (Signature)			4. Were samples in appropriate containers and properly packaged? <u>YES</u>					
					Signature			Sample Custodian		Date			

Rev: 12-88

Hold MW3/8.5-9'

**APPENDIX C**

**ANALYTICAL RESULTS OF GROUNDWATER SAMPLES  
COLLECTED SUBSEQUENT TO WELL INSTALLATION**

**ANAMETRIX INC**

Environmental & Analytical Chemistry  
 1961 Concourse Drive, Suite E, San Jose, CA 95131  
 (408) 432-8192 • Fax (408) 432-8198

**REPORT**

MR. GARY ZACCOR  
 ZACCOR CORP.  
 791 HAMILTON AVE.  
 MENLO PARK, CA 94025

Workorder # : 9104251  
 Date Received : 04/25/91  
 Project ID : 597 85TH AVE.  
 Purchase Order: N/A

The following samples were received at Anamatrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9104251- 1	MW-1
9104251- 2	MW-2
9104251- 3	MW-3
9104251- 4	BAILER BLANK
9104251- 5	TRAVEL BLANK

This report consists of 5 pages not including the cover letter, and is organized in sections according to the specific Anamatrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anamatrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anamatrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anamatrix.

Sarah Schoen, Ph.D.  
 Laboratory Manager

5-8-91

Date



REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

MR. GARY ZACCOR  
ZACCOR CORP.  
791 HAMILTON AVE.  
MENLO PARK, CA 94025

Workorder # : 9104251  
Date Received : 04/25/91  
Project ID : 597 85TH AVE.  
Purchase Order: N/A  
Department : GC  
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9104251- 1	MW-1	WATER	04/25/91	TPHd
9104251- 2	MW-2	WATER	04/25/91	TPHd
9104251- 3	MW-3	WATER	04/25/91	TPHd
9104251- 1	MW-1	WATER	04/25/91	TPHg/BTEX
9104251- 2	MW-2	WATER	04/25/91	TPHg/BTEX
9104251- 3	MW-3	WATER	04/25/91	TPHg/BTEX
9104251- 4	BAILER BLANK	WATER	04/25/91	TPHg/BTEX
9104251- 5	TRAVEL BLANK	WATER	04/25/91	TPHg/BTEX

REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

MR. GARY ZACCOR  
ZACCOR CORP.  
791 HAMILTON AVE.  
MENLO PARK, CA 94025

Workorder # : 9104251  
Date Received : 04/25/91  
Project ID : 597 85TH AVE.  
Purchase Order: N/A  
Department : GC  
Sub-Department: TPH

QA/QC SUMMARY :

- The concentrations reported as gasoline for sample MW-2 and MW-3 are primarily due to the presence of discrete hydrocarbon peaks not indicative of gasoline.

Cheryl Balman 5/5/91  
Department Supervisor Date

C. Fer 5/8/91  
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS  
(GASOLINE WITH BTEX)  
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9104251  
Matrix : WATER  
Date Sampled : 04/25/91

Project Number : 597 85TH AVE.  
Date Released : 05/08/91

COMPOUNDS	Reporting Limit (ug/L)	Sample I.D.#	Sample I.D.#	Sample I.D.#	Sample I.D.#	Sample I.D.#
		MW-1	MW-2	MW-3	BAILER BLANK	TRAVEL BLANK
Benzene	0.5	0.6	ND	ND	ND	ND
Toluene	0.5	ND	ND	ND	ND	ND
Ethylbenzene	0.5	ND	ND	ND	ND	ND
Total Xylenes	0.5	ND	ND	ND	ND	ND
TPH as Gasoline	50	500	ND	98	ND	ND
% Surrogate Recovery		85%	86%	86%	84%	86%
Instrument I.D.		HP4	HP4	HP4	HP4	HP4
Date Analyzed		04/29/91	04/29/91	04/29/91	04/29/91	04/29/91
RLMF		1	1	1	1	1

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
- BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020.
- RLMF - Reporting Limit Multiplication Factor.  
Anamatrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Anne Juricot 05-08-91  
Analyst Date

Cheryl Balmer 5/8/91  
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS  
(GASOLINE WITH BTEX)  
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9104251  
Matrix : WATER  
Date Sampled : N/A

Project Number : 597 85TH AVE.  
Date Released : 05/08/91

COMPOUNDS	Reporting Limit (ug/L)	Sample I.D.# 04B0429A BLANK
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Total Xylenes	0.5	ND
TPH as Gasoline	50	ND
% Surrogate Recovery		98%
Instrument I.D.		HP4
Date Analyzed		04/29/91
RLMF		1

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
- BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020.
- RLMF - Reporting Limit Multiplication Factor.  
Anamatrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Kevin Jusick                      05-08-91  
Analyst                                      Date

Cheryl Beckman                      5/8/91  
Supervisor                                      Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL  
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9104251  
Matrix : WATER  
Date Sampled : 04/25/91  
Date Extracted: 04/26/91

Project Number : 597 85TH AVE.  
Date released : 05/08/91  
Instrument I.D.: HP9

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)
9104251-01	MW-1	04/30/91	50	ND
9104251-02	MW-2	04/30/91	50	ND
9104251-03	MW-3	04/30/91	50	ND
DWBLO42691	METHOD BLANK	04/30/91	50	ND

Note : Reporting limit is obtained by multiplying the dilution factor times 50ug/L.  
ND - Not detected at or above the practical quantitation limit for the method.  
TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following sample extraction by EPA Method 3510.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Steve Pina 5/8/91  
Analyst Date

Cheryl Balmer 5/8/91  
Supervisor Date

1104351  
10/7

PROJECT NUMBER		PROJECT NAME				Number of Cntrs	Type of Containers	Type of Analysis								Condition of Samples	Initial
Send Report Attention of:		Report Due		Verbal Due													
Sample Number	Date	Time	Comp	Grab	Station Location			TP19/BTEX	TP11d								
1 MW-1	4/25/91	13:05				5	3x40mL 1x Liter	X	X						Cold, proper Containers no bottle	MS	
2 MW-2	"	11:38				"	"	X	X							1	
3 MW-3	"	14:10				"	"	X	X							1	
4 BAILER BLANK	"	11:30				3	3x40mL	X								1	
5 TRAVEL BLANK	"	—				"	"	X								1	
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		Remarks:									
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time											
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time											

- ①
- ②
- ③
- ④
- ⑤

COMPANY: ZACCOR  
 ADDRESS:  
 PHONE :  
 FAX :



May 22, 1991

Ms. Helen Mawhinney  
ZACCOR CORPORATION  
791 Hamilton Avenue  
Menlo Park, CA 94025

Project Number: 597 85th Avenue  
Anamatrix Workorder: 9104251

Dear Ms. Mawhinney:

After review of your request, we are reissuing part of this CAR (Certified Analytical Report) because the sample I.D.'s mentioned in the GC/TPH Report Summary should have been "MW-1 and MW-3" instead of "MW-2 and MW-3".

If there is anything more that we can do, please contact our Client Services Department immediately. Thank you for using Anamatrix, Inc.

Sincerely,

ANAMETRIX, INC.

A handwritten signature in cursive script that reads "Jennifer J. Payne". The ink is black and the signature is fluid and legible.

Jennifer J. Payne  
Client Services Manager

JJP/mh/4819

Enclosure

REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

MR. GARY ZACCOR  
ZACCOR CORP.  
791 HAMILTON AVE.  
MENLO PARK, CA 94025

Workorder # : 9104251  
Date Received : 04/25/91  
Project ID : 597 85TH AVE.  
Purchase Order: N/A  
Department : GC  
Sub-Department: TPH

QA/QC SUMMARY :

- The concentrations reported as gasoline for sample MW-1 and MW-3 are primarily due to the presence of discrete hydrocarbon peaks not indicative of gasoline.

Cheryl Baumer 5/21/91  
Department Supervisor Date

James Lunsford 05-21-91  
Chemist Date



APPENDIX D

GROUNDWATER ANALYTICAL RESULTS  
FIRST QUARTER SAMPLING



**Soil and Water  
Environmental  
Laboratory**

Drinking Water  
Waste Water • Asbestos  
Hazardous Waste - Soil  
Calderon Testing - Air

14072 W. Park Avenue  
Boulder Creek, CA 95006  
(408) 338.3053

Laboratory Report

Client: Environmental Tech. Services  
1548 Jacob Ave.  
San Jose CA 95118  
Report Date: 12/08/92

Sample Site: West Coast Wire  
597 85th Ave., Oakland  
Date Received: 11/19/92

WCWR

Analysis Requested: Total Hydrocarbons - Gas  
Total Hydrocarbons - Diesel  
BTEX  
Procedure: EPA 5030  
EPA 3510  
EPA 602  
Date Analyzed: 11/22/92

S&W Ref. #	Client Ref. #	Matrix/Analysis	Concentration	Detection Limit
3242-ET1-A	MW-1	Water/TPH-G	*	50 ppb
3242-ET1-A	MW-1	Water/TPH-D	*	50 ppb
3242-ET1-A	MW-1	Water/BTEX		
		Benzene	*	0.5 ppb
		Toluene	*	0.5 ppb
		Ethylbenzene	*	0.5 ppb
		Xylenes	*	0.5 ppb
-----				
3242-ET1-B	MW-2	Water/TPH-G	*	50 ppb
3242-ET1-B	MW-2	Water/TPH-D	*	50 ppb
3242-ET1-B	MW-2	Water/BTEX		
		Benzene	*	0.5 ppb
		Toluene	*	0.5 ppb
		Ethylbenzene	*	0.5 ppb
		Xylenes	*	0.5 ppb
-----				
3242-ET1-C	MW-3	Water/TPH-G	*	50 ppb
3242-ET1-C	MW-3	Water/TPH-D	*	50 ppb
3242-ET1-C	MW-3	Water/BTEX		
		Benzene	*	0.5 ppb
		Toluene	*	0.5 ppb
		Ethylbenzene	*	0.5 ppb
		Xylenes	*	0.5 ppb

\* No detectable amount • detection limit

Analyst Signature

*R. H. L...*

Environmental Technical Services

(408) 267-6427

# CHAIN - OF - CUSTODY

Project Number		Site Name and Address			Type and Number of Containers	Analysis Required						Laboratory ID	Comments	
Witnessing Agency/Inspector Name and Date		Sample ID	Date	Time		Matrix	Sample Location	TPH-C + BTEX	TPH-D + 4	TOC				Condition of Samples 1 - Good 2 - See Reverse
WCWR		West Coast Vire 597 85th Ave, Oakland, Ca			2 VOAS 2 Liters									
Alameda County Env. Health Dept														
	11/17/92					Water								
	"				"									
	"				"									
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		Remarks:						
<i>Helen Mankin</i>		11-19-92		<i>ETS Fridge</i>										
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		COMPANY: ADDRESS:						
<i>Helen Mankin</i>		11/19/92 3:56		<i>R. A. Lamon</i>		11/19/92 3:56		PHONE: FAX:						

APPENDIX E

GROUNDWATER ANALYTICAL RESULTS  
SECOND QUARTER SAMPLING



Laboratory Report

Soil and Water Environmental Laboratory

Drinking Water
Waste Water - Asbestos
Hazardous Waste - Soil
Calderon Testing - Air

14072 W. Park Avenue
Boulder Creek, CA 95006
(408) 338-3053

Client: Environmental Tech. Services
1548 Jacob Ave.
San Jose CA 95118
Report Date: 03/04/93

Sample Site: West Coast Wire Rope
597 85th. Ave.
Oakland
WCWR02
Date Received: 02/24/93

Analysis Requested: Total Hydrocarbons - Gas, Total Hydrocarbons - Diesel, BTEX
Procedure: EPA 5030, EPA 3510, EPA 602
Date Analyzed: 02/26/93

Table with 5 columns: S&W Ref. #, Client Ref. #, Matrix/Analysis, Concentration, Detection Limit. Contains data for three monitoring wells (MW-1, MW-2, MW-3) and various chemical analyses (TPH-G, TPH-D, BTEX, Benzene, Toluene, Ethylbenzene, Xylenes).

\* No detectable amount @ detection limit

Analyst Signature

Handwritten signature of R. W. Lemoy

Environmental Technical Services  
 (408) 267-6427

# CHAIN - OF - CUSTODY

Project Number	Site Name and Address			Type and Number of Containers	Analysis Required			Laboratory ID	Comments
	Date	Time	Matrix		TPH C + BTEX	TPH D + 4	TOC		
W120R-02	577 8's 7th Ave West Coast Wire Rope Company Oakland								
Witnessing Agency/Inspector Name and Date									
Alameda Co. Env. Health Dept / Carolyn									
Sample ID	Date	Time	Matrix	Sample Location					
MW-1	2/23/93		H <sub>2</sub> O		X	X			
MW-2	↓		↓		X	X			
MW-3	↓		↓		X	X			
Relinquished by: (Signature)				Date/Time	Received by: (Signature)	Date/Time	Remarks:		
Carolyn Alameda				2/23/93	EB Fridge	2/23/93			
Relinquished by: (Signature)				Date/Time	Received by: (Signature)	Date/Time			
				2/24/93	B. J. Deman	2/24/93			
Relinquished by: (Signature)				Date/Time	Received by: (Signature)	Date/Time			
				2/24/93	B. J. Deman	2/24/93			
COMPANY:							ADDRESS:		
PHONE: (408) 267-6427							FAX:		

APPENDIX F  
THIRD QUARTER SAMPLING



Laboratory Report

Soil and Water Environmental Laboratory, Inc.

Client: Environmental Tech. Services 06/24/93
1548 Jacob Ave.
San Jose CA 95118

Drinking Water
Waste Water - Asbestos
Hazardous Waste - Soil
Calderon Testing - Air

14072 W. Park Avenue
Boulder Creek, CA 95006
(408) 338-3053

Sample Site: West Coast Wire Rope
597 85th, Ave.
Oakland
WCWR
Date Received: 06/10/93

Table with 3 columns: Analysis Requested, Procedure, Date Analyzed. Rows include Total Hydrocarbons - Gas (EPA 5030), Total Hydrocarbons - Diesel (EPA 3510), and BTEX (EPA 602).

Main data table with 5 columns: S&W Ref. #, Client Ref. #, Matrix/Analysis, Concentration, Detection Limit. Contains multiple rows for different samples (A, B, C) and analytes (TPH-G, TPH-D, BTEX, Benzene, Toluene, Ethylbenzene, Xylenes).

\* No detectable amount @ detection limit

Analyst Signature: [Handwritten Signature]



Environmental Technical Services

(408) 267-6427

# CHAIN - OF - CUSTODY

Project Number		Site Name and Address				Type and Number of Containers	Analysis Required					Laboratory ID	Comments	
Witnessing Agency/Inspector Name and Date		Sample ID	Date	Time	Matrix		Sample Location	TPH-G + BTEX	TPH-D + BTEX	TOC				Condition of Samples 1 - Good 2 - See Reverse
WPWR		West Coast Wine Ridge 597 85th Ave, Oakland Ca				2 - one liter 2 - 40ml VOA								
Alameda Co. Env. Health Dept														
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	Remarks:								
<i>[Signature]</i>		6/9/93 10:15	ETS Fridge											
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	COMPANY: ETS								
<i>[Signature]</i>		6/10/93 11:00	R. L. L...		6/10/93 2:00 pm	ADDRESS:								
Relinquished by: (Signature)		Date/Time	Received by Lab (Signature)		Date/Time	PHONE:		FAX:						
<i>[Signature]</i>		6/10/93	<i>[Signature]</i>											

**APPENDIX G**

**GROUNDWATER DEVELOPMENT REPORTS**

---

MONITORING WELL SAMPLING DATA/ MW-1

---

Project Name:

Well#

WEST COAST WIRE ROPE

MW-1

---

Date: November 19, 1992

---

Name:

Time Began:

Mawhinney

11:45

---

DEPTH OF WELL(ft.)    DEPTH TO WATER(ft.)    WELL DIAM.

18.72

3.90

2"

---

Time    Gallons    pH    Temp.    Cond.

11:45    1    6.4    80.9    16.6

12:50    3    6.7    79.9    16.5

12:57    5    6.6    79.0    15.8

1:05    7    6.7    79.1    15.4

1:14    10    6.8    78.6    15.1

---

Volume Evacuated    Purging Equip.    Sampling Equip.  
10 gallons    Stainless Steel Bailer    Stainless Steel Bailer

---

Depth to Water Upon Completion of Sampling

Not measured

---

Sheen    Floating Product    Sample Color    Odor  
no    no    greyish-brown    no

---

Sediment/Foreign Matter: silt

---

Sample ID#    Analysis    Laboratory  
MW-1    TPHg, BTEX, TPHd,    S & W Laboratory

---

Sample Containers

3/ 40-ml VOAs

2 Liters

MONITORING WELL SAMPLING DATA/ MW-2

<u>Project Name:</u>	<u>Well#</u>
WEST COAST WIRE ROPE	MW-2

Date: November 19, 1992

<u>Name:</u>	<u>Time Began:</u>
Mawhinney	3:00

<u>DEPTH OF WELL(ft.)</u>	<u>DEPTH TO WATER(ft.)</u>	<u>WELL DIAM.</u>
16.3	3.92	2"

<u>Time</u>	<u>Gallons</u>	<u>pH</u>	<u>Temp.</u>	<u>Cond.</u>
3:10	1	6.4	79.4	16.4
3:24	3	6.7	79.0	15.2
3:34	5	6.4	69.7	16.0
3:45	7	6.6	69.0	14.2
3:57	10	6.4	69.0	14.0

<u>Volume Evacuated</u>	<u>Purging Equip.</u>	<u>Sampling Equip.</u>
10 gallons	Stainless Steel Bailer	Stainless Steel Bailer

Depth to Water Upon Completion of Sampling  
Not measured

<u>Sheen</u>	<u>Floating Product</u>	<u>Sample Color</u>	<u>Odor</u>
no	no	greyish/brown	no

Sediment/Foreign Matter: silt

<u>Sample ID#</u>	<u>Analysis</u>	<u>Laboratory</u>
MW-2	TPHg, BTEX, TPHd	Soil & Water Lab

Sample Containers  
3/ 40-ml VOAs  
2 Liters

MONITORING WELL SAMPLING DATA/ MW-3

<u>Project Name:</u>	<u>Well#</u>
WEST COAST WIRE ROPE	MW-3

Date: November 19, 1992

<u>Name:</u>	<u>Time Began:</u>
Mawhinney	1:36

<u>DEPTH OF WELL(ft.)</u>	<u>DEPTH TO WATER(ft.)</u>	<u>WELL DIAM.</u>
18.58	4.70	2"

<u>Time</u>	<u>Gallons</u>	<u>pH</u>	<u>Temp.</u>	<u>Cond.</u>
1:44	1	6.6	80.1	15.3
1:53	3	6.4	79.4	16.8
2:10	5	6.5	69.4	11.6
2:23	7	6.4	69.0	11.0
2:36	10	6.4	69.2	11.0

<u>Volume Evacuated</u>	<u>Purging Equip.</u>	<u>Sampling Equip.</u>
10 gallons	Stainless Steel Bailer	Stainless Steel Bailer

Depth to Water Upon Completion of Sampling

Not measured

<u>Sheen</u>	<u>Floating Product</u>	<u>Sample Color</u>	<u>Odor</u>
no	no	greyish/brown	no

Sediment/Foreign Matter: silt

<u>Sample ID#</u>	<u>Analysis</u>	<u>Laboratory</u>
MW-3	TPHg, BTEX, TPHd	Soil & Water Lab

<u>Sample Containers</u>	
3/ 40-ml VOAs	2 Liters

MONITORING WELL SAMPLING DATA/ MW-1

Project Name: WEST COAST WIRE ROPE Well# MW-1

Date: February 23, 1993

Name: Mawhinney/Smith Time Began: 12:56

DEPTH OF WELL(ft.) 18.40 DEPTH TO WATER(ft.) 1.42 WELL DIAM. 2"

<u>Time</u>	<u>Gallons</u>	<u>pH</u>	<u>Temp.</u>	<u>Cond.</u>
12:58	1	-	56.9	2.66
1:00	5	-	58.3	2.52
1:02	7	-	58.1	2.60
1:05	9	-	58.6	2.61

Volume Evacuated 10 gallons Purging Equip. Stainless Steel Bailer Sampling Equip. Stainless Steel Bailer

Depth to Water Upon Completion of Sampling  
Not measured

Sheen no Floating Product no Sample Color grey Odor no

Sediment/Foreign Matter: very silty

Sample ID# MW-1 Analysis TPHg, BTEX, TPHd, Laboratory S & W Laboratory

Sample Containers  
2/ 40-ml VOAs  
2 Liters

MONITORING WELL SAMPLING DATA/ MW-2

Project Name: WEST COAST WIRE ROPE Well# MW-2

Date: February 23, 1993

Name: Mawhinney/Smith Time Began: 1:12p

DEPTH OF WELL(ft.) 14.4 DEPTH TO WATER(ft.) 1.50 WELL DIAM. 2"

<u>Time</u>	<u>Gallons</u>	<u>pH</u>	<u>Temp.</u>	<u>Cond.</u>
1:15	1	-	59.9	3.54
1:18	3	-	61.3	3.58
1:24	7	-	59.3	3.58
1:28	8	-	59.3	3.59

Volume Evacuated 8 gallons Purging Equip. Stainless Steel Bailer Sampling Equip. Stainless Steel Bailer

Depth to Water Upon Completion of Sampling  
1.62 feet

Sheen no Floating Product no Sample Color grey Odor no

Sediment/Foreign Matter: silt

Sample ID# MW-2 Analysis TPHg, BTEX, TPHd Laboratory Soil & Water Lab

Sample Containers  
2/ 40-ml VOAs  
2 Liters

MONITORING WELL SAMPLING DATA/ MW-3

<u>Project Name:</u>	<u>Well#</u>
WEST COAST WIRE ROPE	MW-3

Date: February 23, 1993

<u>Name:</u>	<u>Time Began:</u>
Mawhinney/Smith	1:50

<u>DEPTH OF WELL(ft.)</u>	<u>DEPTH TO WATER(ft.)</u>	<u>WELL DIAM.</u>
18.34	2.29	2"

<u>Time</u>	<u>Gallons</u>	<u>pH</u>	<u>Temp.</u>	<u>Cond.</u>
1:54	1	-	57.7	9.45
1:58	3	-	57.8	9.25
2:02	5	-	58.7	9.25
2:05	7	-	59.8	9.33

<u>Volume Evacuated</u>	<u>Purging Equip.</u>	<u>Sampling Equip.</u>
7 gallons	Stainless Steel Bailer	Stainless Steel Bailer

Depth to Water Upon Completion of Sampling

Not measured

<u>Sheen</u>	<u>Floating Product</u>	<u>Sample Color</u>	<u>Odor</u>
no	no	grey n	no

Sediment/Foreign Matter: little silty

<u>Sample ID#</u>	<u>Analysis</u>	<u>Laboratory</u>
MW-3	TPHg, BTEX, TPHd	Soil & Water Lab

Sample Containers

2/ 40-ml VOAs  
2 Liters



MONITORING WELL SAMPLING DATA  
MW-1

<u>Project Name:</u>	<u>Well#</u>
WEST COAST WIRE ROPE	MW-1

DATE: JUNE 16, 1993

<u>NAME:</u>	<u>Time Began:</u>
Mawhinney/Smith	2:35 pm

<u>DEPTH OF WELL</u>	<u>DEPTH TO WATER</u>	<u>WELL DIAM.</u>
19.21'	2.85'	2"

<u>Time</u>	<u>Gallons</u>	<u>Salinity</u>	<u>pH</u>	<u>Temp.</u>	<u>Cond.</u>
2:35	1	*	7.34	97.6 F	1.95
2:39	3	*	7.38	89.3 F	3.11
2:52	5	*	8.07	83.8 F	3.06
2:50	7	*	7.37	84.3 F	2.30

<u>Volume Evacuated</u>	<u>Purging Equip.</u>	<u>Sampling Equip.</u>
7 gallons	Stainless Steel Bailer	Stainless Steel Bailer

Depth of Well Upon Completion of Sampling:

19.01' Recharge good

<u>Sheen</u>	<u>Floating Product</u>	<u>Sample Color</u>	<u>Odor</u>
no	no	gold	no

Sediment/Foreign Matter: little silt

<u>Sample ID#</u>	<u>Analysis</u>	<u>Laboratory</u>
MW-1	TPHg, BTEX, TPHd	S & W Lab

Sample Containers

2/40-ml VOAs  
2 amber one liter bottles

MONITORING WELL SAMPLING DATA  
MW-2

---

Project Name: WEST COAST WIRE ROPE Well# MW-2

---

DATE: JUNE 16, 1993

---

NAME: Mawhinney/Smith Time Began: 12:15 pm

---

---

<u>DEPTH OF WELL</u>	<u>DEPTH TO WATER</u>	<u>WELL DIAM.</u>
16.4'	2.91'	2"

---

<u>Time</u>	<u>Gallons</u>	<u>Salinity</u>	<u>pH</u>	<u>Temp.</u>	<u>Cond.</u>
12:30	1	*	10.94	72.8 F	3.20
12:45	3	*	10.65	74.9 F	3.16
12:55	5	*	10.43	75.7 F	3.18
1:00	7	*	10.91	70.9 F	3.09

---

<u>Volume Evacuated</u>	<u>Purging Equip.</u>	<u>Sampling Equip.</u>
7 gallons	Stainless Steel Bailer	Stainless Steel Bailer

---

Depth of Well Upon Completion of Sampling:

16.90' Recharge good

---

<u>Sheen</u>	<u>Floating Product</u>	<u>Sample Color</u>	<u>Odor</u>
no	no	grey	no

---

Sediment/Foreign Matter: little silt

---

<u>Sample ID#</u>	<u>Analysis</u>	<u>Laboratory</u>
MW-2	TPHg, BTEX, TPHd	S & W Lab

---

Sample Containers

2/40-ml VOAs  
2 amber one liter bottles

---

MONITORING WELL SAMPLING DATA  
MW-3

<u>Project Name:</u>	<u>Well#</u>
WEST COAST WIRE ROPE	MW-3

DATE: JUNE 16, 1993

<u>NAME:</u>	<u>Time Began:</u>
Mawhinney/Smith	1:50 pm

<u>DEPTH OF WELL</u>	<u>DEPTH TO WATER</u>	<u>WELL DIAM.</u>
18.0'	3.71'	2"

<u>Time</u>	<u>Gallons</u>	<u>Salinity</u>	<u>pH</u>	<u>Temp.</u>	<u>Cond.</u>
2:01	1	*	*	88.4 F	2.00
2:08	3	*	*	88.7 F	2.35
2:10	5	*	*	88.3 F	3.07
2:15	7	*	*	83.4 F	4.02

<u>Volume Evacuated</u>	<u>Purging Equip.</u>	<u>Sampling Equip.</u>
7 gallons	Stainless Steel Bailer	Stainless Steel Bailer

Depth of Well Upon Completion of Sampling:

18.5' Recharge good

<u>Sheen</u>	<u>Floating Product</u>	<u>Sample Color</u>	<u>Odor</u>
no	no	gold	no

Sediment/Foreign Matter: little silt

<u>Sample ID#</u>	<u>Analysis</u>	<u>Laboratory</u>
MW-3	TPHg, BTEX, TPHd	S & W Lab

Sample Containers

2/40-ml VOAs  
2 amber one liter bottles