

April 4, 1991

Ist Quarter

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

RE:

Monitoring Well Installation @

2244 Santa Clara, Calif.

Gentlemen:

Enclosed please find the report which documents installation of three groundwater monitoring wells by S & G Drilling and Environmental Technical Services at:

FOWLER ANDERSON MORTUARY 2244 SANTA CLARA STREET ALAMEDA, CALIF.

Zaccor Corporation has mailed one copy of this report to Fowler Anderson and have requested the Owner to mail one copy of this report to the Water Quality Control Board San Francisco Bay Region.

If I may be of further assistance to you, please do not hesitate to contact my office at (415) 363-2181.

Sincerely,

ZACCOR CORPORATION

Gary A. Zaccor

Project Manager

GAZ/Is



ZACCOR CORPORATION MONITORING WELL INSTALLATION at:

FOWLER - ANDERSON MORTUARY

2244 SANTA CLARA STEET

ALAMEDA CALIFORNIA

TABLE OF CONTENTS

1.0	INTRODUCTION1
	History1
2.0	SCOPE OF SERVICES
	Well Installation2
	Soil Sample Collection2
	Soil Sample Location3
	Soil Sample Analysis3
	Analytical Results4
	Well Development4
	Well Sampling4
	Water Sample Analytical Results5
	Ground Water Gradient5

TABLE OF CONTENTS - CONTINUED

Recommendations5
Reportage6
APPENDICES
Appendix A MAPS
Figure 1. Site Location Map
Figure 2. Tank Location Map
Figure 3. Monitoring Well Location Map
Figure 4. Groundwater Gradient Map
Appendix B Tank Removal Report Zaccor Corporation January 15, 1991
Appendix C Excavation of Contaminated Soil Report Zaccor Corporation January 29, 1991
Appendix D Boring Logs
Appendix E Groundwater Gradient

Appendix F Analytical Results



March 20, 1991

Ian Weber
1150 Ballena Boulevard
Suite 211
Alameda, California 94501

Attention: Mr. Weber

MONITORING WELL INSTALLATION, DEVELOPMENT AND SAMPLING REPORT

The following report documents the installation of three groundwater monitoring wells by S & G Drilling and Environmental Technical Services on February 2, 1991 at:

FOWLER ANDERSON MORTUARY 2244 SANTA CLARA STREET ALAMEDA, CALIFORNIA

BACKGROUND

Tank Removal

On January 8, 1991, three underground storage tanks were removed from the above mentioned address. The tank sizes and contents were as follows; one 50-gallon fuel oil tank, one 350-gallon fuel oil tank, and one 50-gallon hydraulic reservoir underground tank.

Certified laboratory analysis revealed that soil samples collected from beneath the fuel oil tanks contained no detectable concentrations of petroleum hydrocarbons at their lower detection limit. Soil samples collected from beneath the 50-gallon hydraulic oil reservoir contained concentrations of total petroleum hydrocarbons as hydraulic oil at 1,400 ppm. For Tank Removal Report refer to Appendix B.

Excavation of Contaminated Soil

Contaminated soil was excavated from the 50-gallon hydraulic oil tank pit by the Zaccor Corporation on January 21, 1991. Confirmatory samples were collected from the sidewalls and floor of the excavation. Collected soil samples were analyzed for total petroleum hydrocarbons as hydraulic oil (EPA Method 3550) using a hydraulic oil standard. All soil samples were found to be without detectable concentrations of total petroleum hydrocarbons as hydraulic oil. For the Excavation of Contamination report refer to Appendix C.

SCOPE OF SERVICES

The scope of services included the installation of three 2" groundwater monitoring wells. These wells were installed to determine the impact, if any, of contaminants upon the first encountered aquifer beneath the site. Soil samples were collected at 5' intervals within each soil boring. Soil was classified according to the Unified Soil Classification System. Upon completion of the monitoring well, groundwater gradient was surveyed. The well was developed and a water sample collected for analysis.

Construction, development and sampling of the wells was performed in accordance with guidelines set forth by the Regional Water Quality Control Board (RWQCB) San Francisco Bay Region and the Alameda County Department of Environmental Health Services.

The work was performed to comply with State and County Regulations in response to the presence of petroleum hydrocarbons discovered at the time of the Hydraulic oil reservoir tank removal.

WELL INSTALLATION

Three soil borings were advanced using a truck mounted hydraulically driven drill rig equipped with 8" outside diameter augers and completed as two inch diameter monitoring wells.

Augers were decontaminated between borings using a high pressure wash heated to 248 degrees Fahrenheit.

For well locations, construction details and boring logs for each of the three wells, refer to Appendix D.

SOIL SAMPLE COLLECTION

Soil samples were collected at five foot intervals using a California Modified Split Spoon Sampler driven by the drill rig. Immediately upon opening the sampler a brass sleeve was removed. Each end of the brass sleeve was covered with aluminum foil, fitted with plastic caps, sealed with duct tape, labeled, and placed on dry ice under chain of custody to be transported to a certified hazardous waste analytical laboratory. The sampler was decontaminated between samples using a tri-sodium phosphate wash and tap water rinse.

SOIL SAMPLE LOCATION

MW-1 Soil samples were collected at: 6' - 6.5' 12' - 12.5' 16' - 16.5' 21 - 21.5' MW-2 Soil samples were collected at: 6' - 6.5' 11' - 11.5' 15' - 15.5' 21' - 21.5' MW-3 Soil samples were collected at: .6' - 6.5'11' - 11.5' 16' - 16.5' 21' - 21.5'

SOIL SAMPLE ANALYSIS

MW-1

Soil Sample #MW-1 6' - 6.5' was placed on hold and not analyzed.

Soil sample #MW-1 12' - 12.5' was analyzed for total petroleum hydrocarbons as hydraulic oil.

Soil sample #MW-1 16' - 16.5' was analyzed for total petroleum hydrocarbons as hydraulic oil.

Soil sample #MW-1 21' - 21.5' was placed on hold and not analyzed.

MW-2

Soil Sample #MW-2 6' - 6.5' was placed on hold and not analyzed.

Soil sample #MW-2 11' - 11.5' was analyzed for total petroleum hydrocarbons as hydraulic oil.

Soil sample #MW-2 15' - 15.5' was analyzed for total petroleum hydrocarbons as hydraulic oil.

Soil sample #MW-1 20' - 20.5' was placed on hold and not analyzed.

DACE 2

MW-3

Soil Sample #MW-3 6' - 6.5' was placed on hold and not analyzed.

Soil sample #MW-3 11' - 11.5' was analyzed for total petroleum hydrocarbons as hydraulic oil.

Soil sample #MW-3 16' - 16.5' was analyzed for total petroleum hydrocarbons as hydraulic oil.

Soil sample #MW-3 21' - 21.5' was placed on hold and not analyzed.

ANALYTICAL RESULTS

All samples analyzed contained no detectable concentrations of total petroleum hydrocarbons as hydraulic oil at its lower detection limit.

WELL DEVELOPMENT

Development and sampling of the wells was performed on February 28, 1991. All well effluent was contained in Department of Transportation approved 17-H 55 gallon drums pending analysis of water samples.

MW-1 was developed by evacuating water using a B & K Pump. Approximately 60 liters of water was evacuated during development.

MW-2 was developed by evacuating water using a stainless steel bailer. Approximately 40 liters of water was evacuated during development.

MW-3 was developed by evacuating water using a stainless steel bailer. Approximately 60 liters of water was evacuated during development.

WELL SAMPLING

On February 28, 1991 each of the three wells was sampled immediately following development. Sampling was performed using a teflon bailer which was decontaminated between wells using a tri-sodium phosphate wash, tap water rinse followed by a de-ionized water rinse. At consistent intervals throughout the well purging pH, conductivity, and temperature was monitored to evaluate stabilization of the wells prior to sampling. Water was decanted into two one-liter amber bottles to a positive meniscus eliminating headspace.

MW-1 The total depth of MW-1 was 19.7 feet and depth to water was 9.88 feet. A volume of 60 liters of water was evacuated from the well prior to the collection of sample #MW-1.

MW-2 The total depth of MW-2 was 15.08 feet and depth to water was 9.86 feet. A volume of 40 liters of water was evacuated from the well prior to the collection of sample #MW-2.

MW-3 The total depth of MW-3 was 19.95 feet and depth to water was 9.56 feet. A volume of 60 liters of water was evacuated from the well prior to the collection of sample #MW-3.

ANALYTICAL RESULTS

Water sample were analyzed for total petroleum hydrocarbons as hydraulic oil (EPA Method 3550) using a hydraulic oil standard.

Water sample #MW-1, #MW-2, and #MW-3 contained no detectable concentrations of total petroleum hydrocarbons as hydraulic oil at its lower detection limit.

GROUNDWATER GRADIENT

TABLE 1. Depth and Elevation of Groundwater.

MW	TOC ELEV.(ft)	DATE	WATER DEPTH	WATER ELEV.
1	14.39	3/12/91	9.10	5.29
2	14.32	3/12/91	9.06	5 .2 5
3	13.86	3/12/91	8.64	5.22
-				

datum= surveyors level assumed to be 20'

RECOMMENDATIONS

As preceding reports indicate all soil contamination has been removed and groundwater appears to have not been impacted, no further soil/groundwater investigation or remediation is recommended at this time.

REPORTAGE

Copies of this report, chain of custody, and laboratory analytical reports should be submitted to the San Francisco Regional Water Quality Control Board, and the Alameda County Health Agency, Division of Environmental Health.

The following addresses have been included for your convenience:

Water Quality Control Board San Francisco Bay Region 1800 Harrison Street Room 700 Oakland, CA 994612

Alameda County Health Agency Division of Hazardous Materials Department of Environmental Health 80 Swan Way, Rm 200 Oakland CA 94621

It has been my pleasure working with you. If you have any questions or if I may be of further service, please call me at (415) 363-2181.

R. W. GREENSFELCER

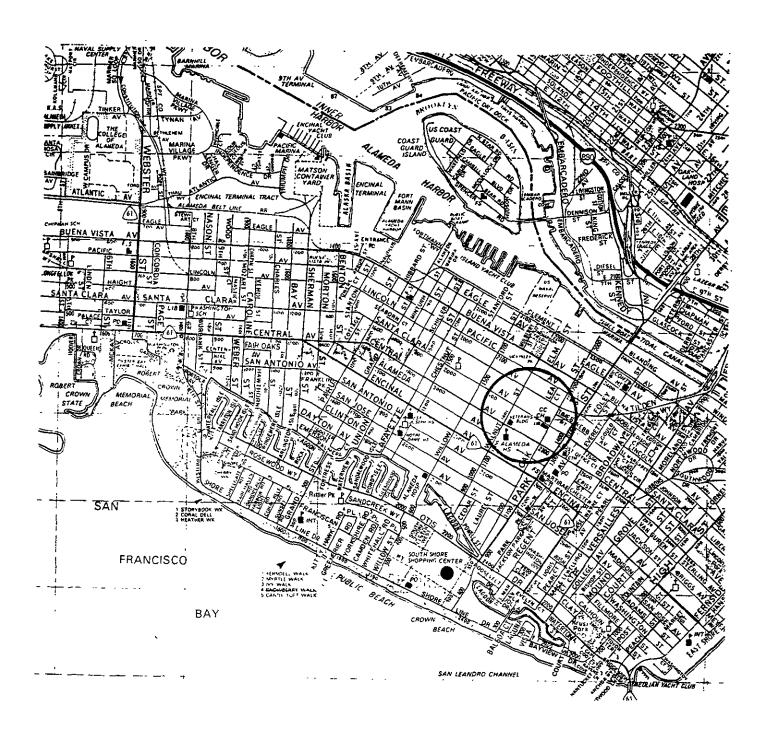
Scot Zaccor S & G Drilling Project Manager

Helen Mawhinney

Environmental Technical Services

Roger/Greensfelder/ Registered Geologist #3011 APPENDIX A MAPS

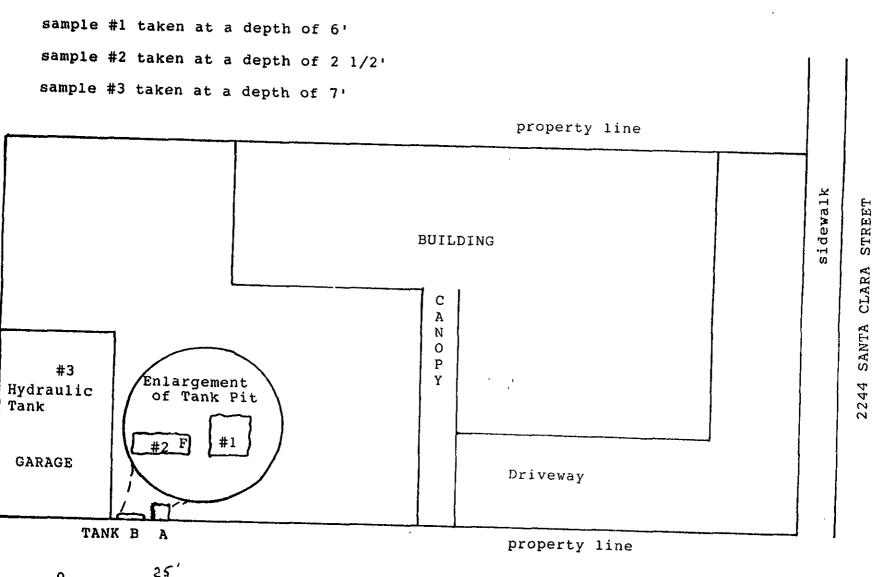
FIGURE 1



FOWLER-ANDERSON MORTUARY
2244 Santa Clara Street
Alameda, California

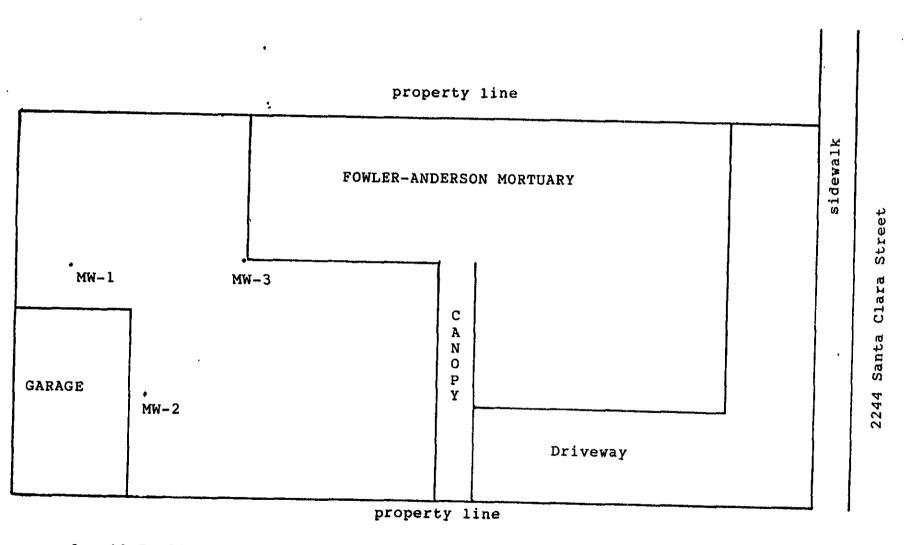
2

FIGURE

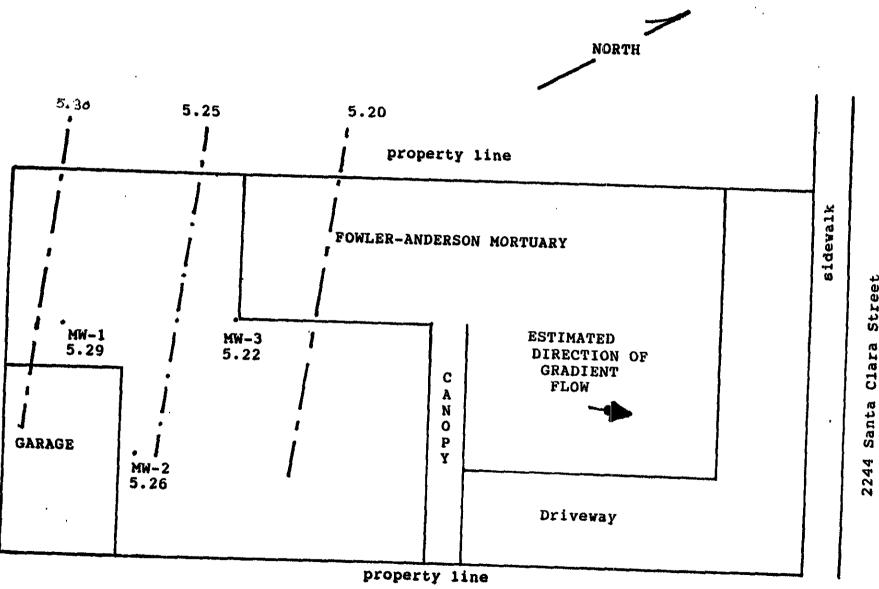


SCALE





0 12.5 25 feet scale



12.5 25 feet scale

APPENDIX B
TANK REMOVAL REPORT



January 15, 1991

Ian Weber 1150 Ballena Boulevard Suite 211 Alameda, CA 94501

Project: #Z010891M1

RE: The Removal of Underground Strage Tanks and the Subsequent Field Sampling at Fowler-Anderson Mortuary @ 2244 Santa Clara Street, Alameda, CA

Dear Mr. Weber:

Field Sampling was performed in accordance with state and local agency approved methodology, under the auspices of William Faulhaber of the Alameda County Department of Environmental Health, Hazardous Materials Division.

See accompanying site-diagram for the location of tanks prior to removal, field sampling designations, and sampling depths.

TANK REMOVAL

On January 8, 1991, three (3) underground storage tanks were removed from the above mentioned address. The tank sizes and contents were as follows; one (1) 50 gallon fuel oil tank, one (1) 350 gallon fuel oil tank, and one (1) 50 gallon hydraulic reservoir underground tank.

Upon tank removal the following observations were noted; Tank A was a 350 gallon single wall fuel oil storage tank constructed with steel. Upon a visual inspection of the tank rust and pitting were observed though no holes were present. The fill material and native soil surrounding the tank were free of hydrocarbon odor.

Tank B was a 50 gallon single wall fuel oil storage tank constructed with steel. Pitting and rust were noted upon a visual inspection of the tank, though no holes were observed. Soil was slightly moist and discolored to a darker brown possibly caused by water runoff from a nearby down spout. The fill material and native soils surrounding the tank were free of hydrocarbon odor.

Tank C is a 50 gallon hydraulic reservoir tank used in conjunction with a hydraulic lift for the servicing of automobiles. The 5' long tank is buried vertically beneath the garage floor, the tank head being level with the garage floor and its foot lying 5' below the garage floor. The flaring of the tank bottom and limited access within the site garage prevented removal of the tank on this day. The tank was removed on January 9, 1991.

Sampling

Soil sample #1 was collected at a depth of 12" to 18" below the fill material/native soil interface, beneath the center of Tank A at a depth of 6'. This was accomplished by the clearing of fill material and slough from the designated sample area. A soil sample was then removed from the pit in a backhoe bucket. The surface four inches of soil was removed from the backhoe bucket and a clean brass sleeve driven into the remaining soil. Soil was then packed tightly into the sleeve to eliminate headspace.

Sample #2 was obtained from beneath the center of Tank B at a depth of 2 1/2 '. This was accomplished by the clearing of fill material from the designated sample area. A clean brass sleeve was driven by hand into the native sands. Soil was packed tightly into the brass sleeve to eliminate head space.

Sample #3 was obtained from the native soil beneath the hydraulic tank at a depth of 7' below grade and three inches away from the tank. This was accomplished by excavating the soil surrounding the hydraulic oil tank to a depth of 5' below grade using a backhoe bucket. A soil boring was then hand augered within the excavation to a depth of 6 1/2' below grade. A clean brass sleeve placed within a hand driven sampler was driven 6" into the soil boring to a total depth of 7'.

Immediately upon retrieval of each soil sample the brass sleeve was covered with aluminum foil, fitted with plastic caps, sealed with duct tape, labeled, and placed on dry ice under chain of custody to be transported to a certified hazardous waste analytical laboratory.

Sample Analysis

Sample #1 was analyzed for Total Petroleum Hydrocarbons as Diesel (TPH-D), Total Oil and Grease (TOG), benzene, total xylenes and ethylbenzene (BTX&E).

Sample #2 was analyzed for Total Petroleum Hydrocarbons as Diesel, Total Oil and Grease, benzene, toluene, total xylenes and ethylbenzene.

Sample #3 was analyzed as Hydraulic Oil using a Hydraulic Oil standard

Analytical Results

The following analytical results are based on a faxed copy of preliminary results from Anametrix Laboratory. A hard copy of the analytical results will be included in the final copy of this report to be forwarded to the regulatory agencys over seeing this project.

Sample #1 contained no detectable concentrations of TPH-D, TPH-G and BTX&E, at the respective detection limits for each constituent.

Sample #2 contained no detectable concentrations of TPH-D, TPH-G and BTX&E, at the respective detection limits for each constituent.

Sample #3 contained Total Petroleum Hydrocarbons as Hydraulic Oil at a concentration of 1,400 ppm.

Recommendations

The State Water Resources Control Board document, Leaking Under Ground Fuel Tank Field Manual (LUFT), defines appropriate action in treating contamination associated with an unauthorized fuel release from underground storage tanks.

The presence of Total Petroleum Hydrocarbons as Diesel beneath the Hydraulic Reservoir Tank would require further site characterization as to the lateral and vertical migration of contaminants in soil. In accordance with the LUFT manual site characterization would include an investigation of the contaminants impact, if any, on the first encountered aquifer and a determination of groundwater flow direction. The installation of one monitoring well would be required within ten feet of the former Hydraulic Reservoir Tank in a down gradient direction. Three reference points are necessary for the determination of groundwater gradient, therefore the installation of two additional wells may be required. It is acceptable to use a previously installed well on an adjacent property as a reference point providing it has been properly screened.

Reportage

Copies of this report, chain of custody, and laboratory analytical report should be submitted to the San Francisco Regional Water Quality Control Board, and the Alameda County Health Agency, Division of Environmental Health.

It has been my pleasure working with you. If you have any questions or if I may be of further service, please call me at (415) 363-2181.

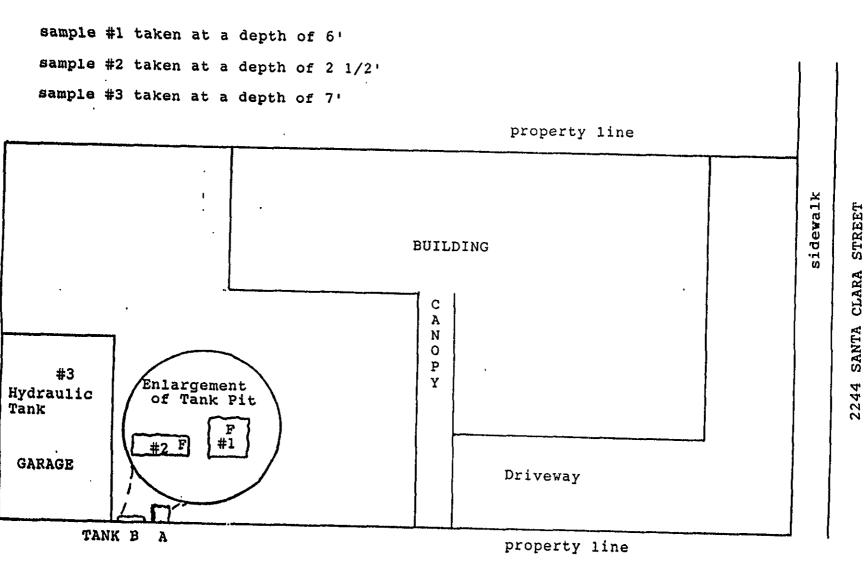
The following addresses have been included for your convenience:

Water Quality Control Board San Francisco Bay Region 1800 Harrison Street Room 700 Oakland, CA 994612

Alameda County Health Agency Division of Hazardous Materials Department of Environmental Health 80 Swan Way, Rm 200 Oakland CA 94621

Sincerely, ZACCOR CORPORATION

Gary Zaccor Project Manager



12.5' 25'

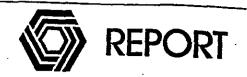
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#2	1/8/90	ļ	<u> </u>	V	sogal tank center	/	(l if	1	1	V						Centeine as	+
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ANAMETRIX INC

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



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

Workorder # : 9101055 Date Received: 01/08/91

Project ID : 2244 SANTA CLARA

Purchase Order: N/A

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

ANAMETRIX ID	CLIENT SAMPLE ID
9101055- 1	#1
9101055- 2	#2
.9101055- 3	#3

This report consists of 8 pages not including the cover letter, and is organized in sections according to the specific Anametrix 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 Anametrix 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.

Anametrix 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 Anametrix.

Laboratory Director

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

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

Workorder # : 9101055
Date Received : 01/08/91
Project ID : 2244 SANTA CLARA
Purchase Order: N/A
Department : GC .
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9101055- 1	#1	SOIL	01/08/91	BTEX
9101055- 2	# 2	SOIL	01/08/91	BTEX
9101055- 1	#1	SOIL	01/08/91	TPHD
9101055- 2	#2	SOIL	01/08/91	TPHD
9101055- 3	#3	SOIL	01/08/91	TPHD

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

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

Workorder # : 9101055
Date Received : 01/08/91
Project ID : 2244 SANTA CLARA
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY:

- No QA/QC problems encountered for samples.

I ma shoe 1/11/91

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

Anametrix W.O.: 9101055

: SOIL Date Sampled : 01/08/91

Project Number: 2244

Santa Clara Date Released : 01/11/91

	Reporting Limit	Sample I.D.# #1	Sample I.D.#	Sample I.D.# 21B0109B	
COMPOUNDS	(mg/Kg)	-01	-02	BLANK	
Benzene Toluene Ethylbenzene Total Xylenes * Surrogate Re Instrument I Date Analyzee RIMF	.D.	ND ND ND ND 124% HP21 01/09/91	ND ND ND ND 77% HP21 01/09/91	ND ND ND ND 101* HP21 01/09/91	

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

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

Iuna 8hok 1/4/91

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 8020.

RLMF - Reporting Limit Multiplication Factor.
Anametrix control limits for surrogate recovery are 50-150%.

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

Anametrix W.O.: 9101055
Matrix : SOIL
Date Sampled : 01/08/91
Date Extracted: 01/09/91

Project Number: 2244 Santa Clara Date released: 01/11/91 Instrument I.D.: HP19

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9101055-01	#1	01/09/91	10	ND
9101055-02	#2	01/09/91	10	ND
DSBL010991	Method Blank	01/09/91	10	ND

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.

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

Anametrix W.O.: 9101055

Matrix : SOIL
Date Sampled : 01/08/91
Date Extracted: 01/09/91

Project Number: 2244 Santa Clara Date released: 01/11/91 Instrument I.D.: HP9

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9101055-03	#3	01/10/91	10	1400
DSBL010991	Method Blank	01/10/91	10	ND

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.

Cheryl Balmer 1/1/9, Supervisof Date

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

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

Workorder # : 9101055
Date Received : 01/08/91
Project ID : 2244 SANTA CLARA
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9101055- 1	#1	SOIL	01/08/91	5520EF
9101055- 2	# 2	SOIL	01/08/91	5520EF

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

MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENIO PARK, CA 94025 Workorder # : 9101055
Date Received : 01/08/91
Project ID : 2244 SANTA CLARA
Purchase Order: N/A
Department : PREP
Sub-Department : DPEP

Sub-Department: PREP

QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

January, 14th 1981. Department Supervisor Date

ANALYSIS DATA SHEET - TOTAL OIL AND GREASE ANAMETRIX, INC. (408) 432-8192

Project # : 2244 Santa Clara Matrix : SOIL

Date sampled: 01/8/91
Date ext. TOG: 01/09/91

Date ext. TOG: 01/09/91 Date anl. TOG: 01/09/91 Anametrix I.D.

: 9101055

Analyst : 27

Supervisor : ©P Date released : 01/11/91

Workorder # Sample I.D.	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9101055-01	30 30 30	ND ND ND

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

TOG - Total Oil & Grease is determined by St. 1 and 1 and

⁻ Total Oil & Grease is determined by Standard Method 5520E&F.

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

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7. Transporter 2 Company Name	6. US EPA ID Numl 8. US EPA ID Numl	1111					137 -
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9. Designated Facility Name and Site Address	10. US EPA ID Numi	ber		te Facility			
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11 US DOT Description (Including Proper Shipping Name, H	tazard Class, and ID Number)	No.	Туре	Cu	antity	Unit Wt/Vol	West
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NON-RCRA Hazardous *aste Solid			I F			ř	Ni State
							State
				1.1	1 1		EPA/Other
c.					<u> </u>		State
							EPA/Other
d.							State
							State
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IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7650

UNIFORM HAZARDOUS WASTE MANIFEST	1, Generator's US EPA ID No.	Manifest current No.	2. Page ! of	Information in the shaded area is not required by Federal law				
3. Generator's Name and Mailing Address	·		9	0239087				
4. Generator's Phone ()	6. US EPA ID Number		B. State Gener	ators to	1			
5. Transporter 1 Company Name - ATTTTO TILL を か フリー	· -, -	C. State Transporter's ID						
7. Transporter 2 Company Name	1171		* Phone (4(18) 432-1).	333				
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APPENDIX C
EXCAVATION OF CONTAMINATION



January 29, 1991

Mr. Ian Weber 1150 Ballena Blvd. Alameda, CA 94501

RE: Fowler Anderson Mortuary 2244 Santa Clara Street Alameda, CA

Mr. Ian Weber

RE: The Excavation of Contaminated Soil and Subsequent Third Party Confirmatory Sampling at: 2244 Santa Clara Street, Alameda, California.

SITE OVERVIEW

The subject property is located in the City of Alameda, County of Alameda, California. A site location map is included in Figure 1. The site is operated as a mortuary which performs funeral services, body preparation and administrative functions. The property is presently owned by Fowler-Anderson Mortuary.

Mr. Ian Weber, Real Estate Agent for Pacific Financial Corp., who represents Fowler-Anderson Mortuary, contracted Zaccor Corporation to remove three (3) underground storage tanks located on site. Environmental Technical Services was retained to perform Third Party Confirmatory Sampling. Tank removal and subsequent soil sampling was performed in accordance with local and regional guidelines, under the auspices of the Alameda County Department of Environmental Health, and the Alameda Fire Prevention Bureau.

On January 8, 1991, three (3) underground storage tanks (UST's) were removed, including; one (1) 350 gallon motor oil tank, one (1) 50 gallon motor oil tank, and one (1) 50 gallon hydraulic oil reservoir tank (as diagramed in Figure 2). One soil interface sample was obtained from beneath the center of each tank.

No contamination was detected beneath the 350 gallon motor oil tank or the 50 gallon motor oil tank. Total Petroleum Hydrocarbons as Hydraulic Oil was detected at a concentration of 1,400 ppm beneath the hydraulic oil reservoir tank.

EXCAVATION OF CONTAMINATED SOILS

On January 24, 1991, Zaccor Corporation proceeded to excavate soils contaminated with Total Petroleum Hydrocarbons as Hydraulic Oil, within the site garage. Anametrix Incorporated, retained by Zaccor Corporation performed third party confirmatory sampling upon completion of soil excavation.

Throughout the excavation of contaminated soil from the hydraulic oil tank pit, soil samples were acquired from the sidewalls and floor of the excavation with a backhoe bucket. The first 3 to 4 inches of soil was removed from the backhoe bucket and a clean brass sleeve (1.92 inches in diameter by 6.0 inches in length) was driven into the remaining soil most representative of the sample location desired. The sample tube was withdrawn, the ends wrapped with aluminum foil, covered with plastic caps, sealed with duct tape, labeled, placed on dry ice, and transported to a Certified Hazardous Waste Analytical Laboratory (Anametrix Laboratory, Inc.) under chain of custody. Soil samples were analyzed for Total Petroleum Hydrocarbons as Hydraulic Oil using a Hydraulic Oil standard.

As such time as the boundaries of excavation were defined, clean imported fill material was placed within the tank pit excavation.

Excavated contaminated soil was placed on visqueen and covered with visqueen. A composite soil sample will be acquired to be analyzed for Total Petroleum Hydrocarbons as Hydraulic Oil. A comprehensive work plan will then be developed for the remediation or disposal of contaminated soil.

SAMPLE LOCATIONS

Sample #A-1 was collected from the East wall at a depth of 7'

Sample #A-2 was collected from the excavation floor at a depth of 11'

Sample #A-3 was collected from the excavation floor at a depth of 10.5'

Sample #A-4 was collected from the North wall at a depth of 7'

Sample #A-5 was collected from the West wall at a depth of 7'

Sample #A-6 was collected from the South wall at a depth of 6.5'

Sample #A-7 was collected from the South wall at a depth of 7'

Sample #A-8 was collected from the South wall at a depth of 7'

Sample #A-8 was collected from the South wall at a depth of 7'

Sample #A-9 was collected from the South wall at a depth of 7'

ANALYTICAL RESULTS

Each sample was analyzed for Total Petroleum Hydrocarbons as Hydraulic Oil using a Hydraulic Oil Standard. All of the above samples were found to be non-detected at the respective detection limit, indicating all contaminated soil has been removed.

Copies of this report, chain of custody, and laboratory analytical report should be submitted to the San Francisco Regional Water Quality Control Board and the Alameda County Health Agency, Division of Environmental Health.

It has been a pleasure working with you. If you have any questions or if I may be of further assistance please do not hesitate to contact me at (415) 363-2181.

The following addresses have been included for your convenience:

Water Quality Control Board San Francisco Bay Region 1800 Harrison Street Room 700 Oakland, CA 94612

Alameda County Health Agency
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way
Room 200
Oakland, CA 94621
Attn: William Faulhaber

Sincerely,

ZACCOR CORPORATION

Sary G. Zaccov Gary A. Zaccor

Project Manager

GAZ/Is

ANAMETRIX INC

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



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

Workorder # : 9101244
Date Received : 01/24/91
Project ID : 910124
Purchase Order: N/A

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

ANAMETRIX ID	CLIENT SAMPLE ID
9101244- 1	A-1
9101244- 2	A-2
9101244- 3	A-3
9101244- 4	A-4
9101244- 5	A-5
9101244- 6	A-6
9101244- 7	A-7
9101244- 8	A-8
9101244- 9	A-9

This report consists of 6 pages not including the cover letter, and is organized in sections according to the specific Anametrix 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 Anametrix 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.

Anametrix 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 Anametrix.

Burt Sutherland

Laboratory Director

1-30-9

Date

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

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

Workorder # : 9101244
Date Received : 01/24/91
Project ID : 910124
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9101244- 1	A-1	SOIL	01/24/91	TPHd
9101244- 2	A-2	SOIL	01/24/91	TPHd
9101244- 3	A-3	SOIL	01/24/91	TPHd
9101244- 4	A-4	SOIL	01/24/91	TPHd
9101244- 5	A-5	SOIL	01/24/91	TPHd
9101244- 6	A-6	SOIL	01/24/91	TPHd
9101244- 7	A-7	SOIL	01/24/91	TPHd
9101244- 8	A-8	SOIL	01/24/91	TPHd
9101244- 9	A-9	SOIL	01/24/91	TPHd

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

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

Workorder # : 9101244
Date Received : 01/24/91
Project ID : 910124
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

Cheul Balmen 1/24/51
Department Supervisor Date

Harth Wordt 1/30/9/
Chemist Date

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

Anametrix W.O.: 9101244 Project Number: 910124
Matrix: SOIL Date released: 01/29/91
Instrument I.D.: HP9

Date Extracted: 01/24/91

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9101244-01 9101244-02 9101244-03 9101244-04 9101244-05 9101244-06 9101244-07 9101244-08 9101244-09 DSBL012491	A-1 A-2 A-3 A-4 A-5 A-6 A-7 A-8 A-9 METHOD BLANK	01/28/91 01/28/91 01/28/91 01/28/91 01/28/91 01/28/91 01/28/91 01/28/91	10 10 10 10 10 10 10	ND ND ND ND ND ND ND ND
2022012491	METHOD DUANK	01/28/91	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 hydraulic oil is determined by GCFID following sample extraction by EPA Method 3550.

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

Analyst Veret 1/30/91
Date

Charles Balmen 1/29/5/
Supervisor Date

ARAMETRIX. IEC. 1961 Concourse Drive, San Jame, CA 95131, (402) 432-8192

TOTAL FUEL HYDROCARION REPERT

TPH as Prese HYDRAULTE OIL

e Extracted <u>o</u>			Project # 2244 Sanda Clara Instrument ID # 9								
NAMETELX ID#	CLIEN	п 104	DATE ANALYZED	DILUTION	AMOUNT FRUND						
102239-02	MW1	12-12.5	02-22-91	1:1	< 10 mg /kg						
- 03	MW-1	16-16-5	02-22-91	12.1	< 10 ng /kg						
-06	MW-2	11-11.5	02-22-91	1:1	< 10 mg / Kg						
- 07	MWZ	15-15.5	02-22-91	1:1	< 10 mg /Kg						
-10	MW3	11-11.5	02-22-91	1:/	< 10 mg /kg						
-//	миз	16-16.5	02-22-91	/:/	< 10 mg /mg						
BLEOZZZ91	Method	flank	02-22-91	1:/	< 10 mg 1 k						
-											
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METHODS DOME ARE THOSE SPECIFIE BY CRWQCB.

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

MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9101244
Date Received : 01/24/91
Project ID : 910124
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9101244- 1	A-1	SOIL	01/24/91	418.1
9101244- 2	A-2	SOIL	01/24/91	418.1
9101244- 3	A-3	SOIL	01/24/91	418.1
9101244- 4	A-4	SOIL	01/24/91	418.1
9101244- 5	A-5	SOIL	01/24/91	418.1
9101244- 6	A-6	SOIL	01/24/91	418.1
9101244- 7	A-7	SOIL	01/24/91	418.1
9101244- 8	A-8	SOIL	01/24/91	418.1
9101244- 9	A-9	SOIL	01/24/91	418.1

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

MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9101244
Date Received : 01/24/91
Project ID : 910124
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

Department Supervisor Date

Reacte Davison 1-30-91
Chemist Date

ANALYSIS DATA SHEET - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS EPA METHOD 418.1 ANAMETRIX, INC. (408) 432-8192

Project # : 910124
Matrix : SOIL
Date sampled : 01/24/91
Date ext. : 01/24/91
Date analyzed: 01/24/91

Date analyzed: 01/24/91

Anametrix I.D. : 9101244
Analyst : RD
Supervisor
Date released : 01/29/91

Workorder # Sample I.D.	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9101244-01 A-1 9101244-02 A-2 9101244-03 A-3 9101244-04 A-4 9101244-05 A-5 9101244-06 A-6 9101244-07 A-7 9101244-08 A-8 9101244-09 A-9 GSBL012491 METHOD BLANK	1 1 1 1 1 1 1 1 1	1.2 1.7 2.7 1.8 2.0 ND 3.3 2.0 2.0 ND

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

Reference - Methods for Chemical Analysis of Water and Wastes, 3rd edition US EPA-600/4-79-020, March 1983.

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

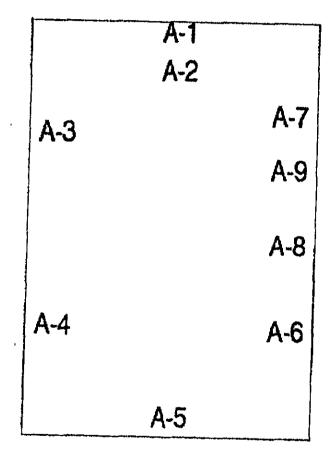
---- 910-1244

,	PROJECT NUMBER 910124		PROJECT N 2240		JTAC	LARA AV						Analy	iis					
	Send Report Att	ention of:		Re	port Di	Je Verbal	Due	Number	Type of	. I (TPH							Condition of	Initial
	Sample Number	Date	Time	Comp	Grab	Station Loca	tion	Cotors	Containers	418					,	ļ	Samples	
-61	A-1	1-24-91	13:58			Front wall	at 7'	J	BL	X							Cold. No Head	space.
·02	A-2	,,,	14:05			, ,	11	74	И	X								
נסי	A-3	מק	14:15			Left Wall	10.5	N	1	X								
۲۵۰	A-4	N	14;20			, ,	7.0	N	/	X								,
-05	A-5	N	14.25			back wall	7.0	N	N	X								
04	A-6	N	14:30			Right well	6.5	~	1	d						- -		
07	A-7	N	14:35				7.0	N	N	X								
-08	A-8	N	14:40				8.0'	1	1	1								
. ७९	A-9		14:48			capilarity L	ine,	1	. ~	1								
ŀ											_ -			-				
	Relinquished by: (Af No. Of Relinquished by: (Signature) NUAZUL Signature)	Date/Time 1/24/90 16\05 Date/Time	ML	Lun	(Signature)	Date/	190	Remarks:					-		1_		
, [Relinquished by:(Signature)	Date/Time	Recei	ved by:	(Signature)	Date/	Time	COMPANY: ZADDRESS: 7	2AC 81	СО НАМ 36	R iLTo: 3-21	V AV. 81	e. r	lento	Pa (415	uk, CA 940) 326-7753	25

A-1 7' A-6 6.5' A-2 11' A-77' A-3 10.5' A-8 7' A-47' A-9 10.5 A-57'

SITE LOCATION 2240 SANTA CLARA AVE. ALAMEDA, CA. SAMPLING DATE 1/24/91

FRONT 13.00'



LEFT

18.5

BACK 10.00'

RIGHT

18.5

---- 710-1244

	PROJECT NUMBER		PROJECT NA 2240		TACL	ara av.	•				pe of	Inalysia			. H . W 	; ·	er en	T
	Send Report Att	ention of:		Re	part Gue		ue.	Number of	Type of	. 1 (TPH)							Condition of	
	Sample Mumber	Date	Tîme	Сотр	Grab	Station Locat	tion	Cathra	Containers	418				,			Samples	
Ì	A-1	1-24-91	13:58			front wall a	+7'	J	BL	X						7	Cold. No Head of	4
	A-2	1	14:05			, ,	11	И	1	X								Ť
	A-3	~	14:15		1	Left wall	10.5	,,	ø	X							,	1
	A-4	11	14;20			, ,	7.0	N	1	V								+
	A-5	N	14.25			back wall	7.0	N	•	X							(************************************	+
	A-6	11	14:30			Right well	6.5	~	/	d								+
	A-7	N	14:35			, ,	7.0	N	, pr	X								+
	A-8	N	14:40			, , (έ _γ υ′	1	/	1					1			+
	A-9	<i>, y</i>	14:48			capilanty L	ine 10.5	1	11	1								
			}								<u> </u>		-					
	-				<u>_</u>		:				_		-			_		+
4	Relinquished by: Aghv' El Relinquished by:	muzyl	Date/Time 1/24/90 16\05 Date/Time		Lund	(Signature)	1/24	Time	Remarks:				1,1					<u></u>
	Relinquished by:	(Signature)	Date/Time	Recei	ved by:	(Signature)	Date	/Time	COMPANY: 7 ADDRESS: 7 PHONE : (4	ZA(CO HAM 36	R iLTON 3-21	AVe.	Me	nto f	Park	l, CA 9402 326-7753	

APPENDIX D BORING LOGS

Γ.	VONTMODENCE :								
EN		TECHNICAL SERVICES	AT: FO		ANDERSO	N			
		nsfelder PHD #3011	ľ	44 Sa	UARY nta Clar		M	W-1	
Dri:	lling hod : Auger	Sample Split Method Spoon		Project Manager: Gary Zaccor					
D E P T H	SAMPLE COLLECTED: INT. SAMPLE	Soil	uscs	L O G	BLOW COUNTS 6"INCRE	WI	ELL ONSTRU	2/21/91 CTION	
- - - - 5'	MW-1	MEDIUM - FINE GRAIN SANDS	sc sc		8,8,12	CA	CKED P ANK SING of	CHRISTY BOX GROUT BENTO- NITE SEAL	
10	6'-6. MW-1 12-12.	WITH CLAY 10%, medium-brown or tan, damp. MEDIUM - FINE	sc		17,22,27	- 0.0	REEN .	LONESTAR #3 SAND FILTER PACK	
15 	MW-1 16-16.	1 1	sc		7,14,22				
20 	MW-1 21-21.	MEDIUM - FINE GRAIN SANDS WITH VERY LITTLE CLAY, tan, saturated.	sc		6,12,20	BOT PLU PVC	G ::		
25 						CAS 2" SCH 40	ING ID		
-									

,

	MONITORING WE	LL BORING LOGS			-			
EN		ECHNICAL SERVICES	AT: FO	WLER,	ANDERS(מכ	-	
		sfelder PHD #3011			nta Clar , Califo			V-2
Dri. Met	lling hod : Augers	Sample Split Method Spoon			ager: Ga			2/21/91
D E P T H	SAMPLE COLLECTED: INT. SAMPLE#	Soil	uscs	L O G	BLOW COUNTS	WI	ELL	CTION
	MW-2 11'-11.5 MW-2 15-15.5' MW-2 20.5-21'	FINE - MEDIUM GRAIN SAND WITH LITTLE CLAY 10%, tan, moist, no odor. FINE - MEDIUM GRAIN SAND WITH LITTLE CLAY 10%, tan mottled with dark brown sand, moist, no odor. FINE - MEDIUM GRAIN SAND WITH A LITTLE MORE CLAY tan, no odor. FINE - MEDIUM GRAIN SAND WITH LITTLE CLAY 2%, saturated, no odor.	sc sc		6,9,9 17,18,20 22,31,X	BI CA PVC SCR O.0	EEN 10" TOM G	CHRISTY BOX GROUT BENTON- ITE SEAL LONESTAR #3 SAND FILTER PACK

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	MONTT	ORING WE	CLL BORING LOGS							
EN	VIRON	MENTAL I	ECHNICAL SERVICES	AT:	FOWL	ER,	ANDERSO	ON		
			PORATION	1	MO	DRT	UARY	}		
	Rog		sfelder PHD #3011		2244 Santa Clara St MW Alameda, California					
Met		Augers	Sample Split Method: Spoon	Proj	ect N	ían	ager: Ga	ary Za	ccor	2/21/91
D E P T H	COLI	AMPLE LECTED: SAMPLE#	Soil	US		L O G	BLOW COUNTS	WI	ELL	UCTION
		MW-3	FINE - MEDIUM GRAIN SAND, NO PERBLES	S			5,6, 17,23,X 14,15,\$P	BL. CA:	EEN 10" TOM	CHRISTY BOX GROUT BENTO- NITE SEAL LONESTAR #3 SAND FILTER PACK

· _ _

APPENDIX E GROUNDWATER DEVELOPMENT

FIELD LOGBOOK ENTRY

					DATE: _ 2/2	8/91
SITE	;	2244 Santa Clara	JATOF	DEPIH	:19.7'	
WELL I.	_	MW-1		DEPIN		TIME:12:30
CODE NO	. :			DIAMETER		11110-12:30
EQUIPME	NT NO.:	R-1		VOLUME		:0 2 d t t t t t
SAMPLER		Taghi		ig rate	$\frac{(10 \text{ X}) = 6}{(10 \text{ X})}$	ou liters
				G TIME	•	
		•			1 liter	
				BAILS	· <u>-l liter</u>	· · · · · · · · · · · · · · · · · · ·
			WELL Y			
				TIME	: Low	
			J	24145	: 13:55	
TIME	VOLUE	E TURBIDITY	pit	·	E.C.	T°C
12:45	1_	>200	8.4	7	430	17°
12:50	2	>200	7.9	6	09.0	16°
12:57	3	>200	8.0	5	850	16°
13:05	4	>200	8.0	4	87,0	16°
13:10	5	>200	7.9	4	870	16°
13:15	6	>200	7.9	3	43.5	16°
13:20	7	>200	7.8	3	28.9	16°
13:24	8	>_200	8.0	.3	28.9	16°
13:30	9	>200	7.9	2	80.1	16°
13:45	10	>200	7.9	2	55.8	16°
PURGE PRO	CEDURE	B & K Pump		PUMP	PLACEMENI':	
sample pr	ROCEDURU	E: Teflon Bailer				
PARAME	FFER:	CONTAINER (TYP	'E/NUMBE	R):	PRESER	VATIVE:
2 X 1 1	iter	TPHd	···		Cool	
		·				
TELD OBS	ERVATIO	NS: Water was muddy	, silt	y and v	ery turbio	1.
Toward	end o	f developement it	was alı	most cle	ear.	
ECOVERY F		RECO	VERY PER	CENTAGE:	% A1	HRS
LIMATIC C	CONDITIO	ONS: Rainy and coo	1.			
						

FIELD LOGBOOK ENTRY

					DATE: 2/	28/91	
SITE	:224	4 Santa Clara	ומינאן.	DEPIH	:15.08'		
				DEPIN		TIME: 13:55	
				IMETER	1146: 13.33		
	·	R-2		VOLUME			
					$\frac{10x}{4} = 4$	0	
	. •	4911		G RATE	<u> </u>		
		•		G TIME	.:		
					Y: 1 liter		
					: Vary	· · · · · · · · · · · · · · · · · · ·	
			WELL Y	IELD	: Low		
			SAMPLE	TIME	: 15:00		
TIME	VOLUME	TURBIDUT	ЬH		E.C.	T°C	
14:05	1	>200	7.7	2	84.8	15°	
14:10	2	>200	7.7	2	62:5	15°	
14:15	3	>200	7.5	2	84.8	15°	
14:20	4	>200	7.6	2	62.5	15°	
14:25	5	>200	7.5	2	235.4	15°	
14:30	6	>200	7.5	2	235.4	15°	
14:35	7	>200	7.4	211.9		15°	
14:40	8	>200	7.4	2	211.9	15°	
14:45	99	>200	7.4	1	90.7	15°	
14:50	10	> 200	7.4	1	90.7	15°	
PURGE PR	OCEDURE :_	Bailer		FUMP	PLACEMENT:		
sample p	ROCEDURE: 1	eflon Bailer				, , , , , , , , , , , , , , , , , , ,	
		CONTAINER (TY	PE/NUMBE	R):	PRESE	RVATIVE:	
TPHO	i .	2 X 1 li	iter Cool			1	
·							
				_			
FIELD OB	SERVATIONS:	Water was mudd	y, sil	ty towa	rd end of	the	
		rned almost cle					
RECOVERY	RATE:	RECO	VERY PE	RCENTAGE	3	AT HRS	
LIMATIC	CONDITIONS	Rainy, cool.					
 					· · · · · · · · · · · · · · · · · · ·		

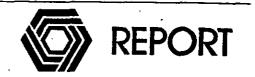
220 40

FIELD LOGBOOK ENTRY

					DATE: 2/28/91			
SITE		4 Santa Clara	TOTAL	DEPIH	:19.95'			
WELL I.	· :	MW-3	WATER	DEPIN	: 9.56'	TIME: 15:15		
CODE NO.	· <u>-</u>		WELL C	DIMETER	: 2"			
EQUIPMEN	r no.::	R-3	FURGE	VOLUME				
SAMPLER : Taghi				g rate	$\frac{10x}{60 \text{ liters}}$:			
			PUMPIN	G TIME	:			
			BAILER					
				BAILS	: 60			
			WELL Y	IELD	High			
			SAMPLE	TIME				
TIME	VOLUME	71 ID 0 1 0 1 mm		•	-			
15:20	1	>200	l - o	1	E.C.	T°C		
15:25			7.9		98	18°		
15:30	3	>200	_	7.8 584		18°		
15:35	<u>3</u>	>200	7.8		88	18°		
		>200	7.9		31	18°		
15:40	5	>200	7.8		88	18°		
15:45	6	>200	7.8	3	88	18°		
15:49	7	>200	7.8		51	18°		
15:53	8 -	>200	7.7	.3	28	18°		
15:59 16:05	9	>200	7.7		14	18°		
	10	>200	7.7	3	14	18°		
	CEDURE :_			PUMP	PLACEMENT:			
PARAME		Ceflon Bailer			***			
TPHd		CONTAINER (TY		R):	PRESERVATIVE:			
TFIIG		2 X 1 liter			Cod	01		
								
				 				
								
FIELD OBSE	RVATIONS:	Water was mudd	iv eil	ty it i	urned cle	ar at ond		
		of the well.	Ay, 311	cy, it (urned cre	ar at end		
								
RECOVERY R		RECO	VERY PER	CENTAGE:	* A	T HRS		
-						· · · · · · · · · · · · · · · · · · ·		

APPENDIX F ANALYTICAL RESULTS

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



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

Workorder # : 9102316 Date Received: 02/28/91

Project ID : 2240 SANTA CLARA

Purchase Order: N/A

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

ANAMETRIX ID	CLIENT SAMPLE ID					
9102316- 1	MW-1					
9102316- 2	MW-2					
9102316- 3	MW-3					

This report consists of 3 pages not including the cover letter, and is organized in sections according to the specific Anametrix 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 Anametrix 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.

Anametrix 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 Anametrix.

Sutherland

Laboratory Director

PROJECT NUMBER PROJECT NAME Type of Analysis 910228 | 2240 santa clara AVE 0.0 Send Report Attention of: Report Due Verbal Due Type Condition Number GARY ZACCOR b3 14 19/1 Initial Cntnrs Containers Samples Sample Number Date Time Comp Grab Station Location MW-1 02/28/91 13:55 Liter 2 MW-2 1500 MW-3 1615 2 Relinquished by: Signature) Date/lime 02-28-9 Received by: (Signature) Remarks. TPHO AS Hydrolie oil. -Bate/Time 19. hi Mondy 17:10 Rélinquished by:(Signature) Date/Time | Received by: (Signature) Date/Time COMPANY: ZACEOR . Relinquished by:(Sighature) Date/Time Recoived by: (Signature) Date/Jine 2-28-91 17:10 PHONE #

10/9

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

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

Workorder # : 9102316
Date Received : 02/28/91
Project ID : 2240 SANTA CLARA
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9102316- 1	MW-1	WATER	02/28/91	TPHd
9102316- 2	MW-2	WATER	02/28/91	TPHd
9102316- 3	MW-3	WATER	02/28/91	TPHd

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

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

Workorder # : 9102316 Date Received : 02/28/91

Project ID : 2240 SANTA CLARA Purchase Order: N/A

Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

Department Supervisor Date

Chemist 31191
Date

GC/TPH - PAGE 2

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

Anametrix W.O.: 9102316

Project Number: 2240 SANTA CLARA Date released: 03/08/91 Instrument I.D.: HP9

Matrix : WATER
Date Sampled : 02/28/91
Date Extracted: 03/04/91

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)
9102316-01	MW-1	03/07/91	50	ND
9102316-02	MW-2	03/07/91	50	ND
9102316-03	MW-3	03/07/91	50	ND
DWBL030491	METHOD BLANK	03/07/91	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 hydraulic oil is determined by GCFID following sample extraction by EPA Method 3510.

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

RESULTS - TPH - PAGE 1

PROJECT MUMBER PROJECT NAME			Santa Clora St. Alameda			da		Туре	of Analysis		
Send Report Atte	ntion of:	****	Re	part Du	e Verbal Due	Number	Type of	remited	Top as Tydraelic Oil	Gondition	Initi
Sample Number	Date	Time	Comp	Grab	Station Location	Cntnrs	Containers	TPH	Hydra	Samples	
mw-1 6-6/2	2/21/91			/		l	BRASS	1	How	nonual spure, cold	125
mw-1 12-12/2	11			1		IC		1			
mw-1 16-161/2	//		<u> </u>			Įξ		HOL	DIY		
mw-1 21-211/4	u '			/ ,		14		1	Haua		
nw-2 6-6/2				/		16		House	Hace	head space, cold,	
4/11-11 E-MM	11			/		14		1		Noteed Space, Cuk	0
nw-2 15-156	11			/		11		X			
14.8/08 t-m	**			/		14		Houp	Havo		
NW-3 6.66	(1					4.5			How	hecderice, cold, proper cuntainer	
nw.3 11-11/2	16					١(no head space, and	
16-16/2 E- WA	1 (/		4)			1		
4.12-12 E. mi						ζ.			How		
te infour sheep by: () ***********************************	inul	3/21/9/	D	anin	X 197	ate/time Of/s	Remarks:	0.10	D. d.		
Lelinquished by:(8						nte/Time	COMPANY: ADDRESS:	JE.	INUSIN		
The state of the s				. منسب الانساء ال			PHONE :	100	FAX :		20

