

January 31, 1992

Ms. Susan Hugo Alameda County Dept. of Health Services 80 Swan Way Oakland, CA 94621

Subject: Underground Storage Tank at 1000 41st Street

Dear Susan:

Enclosed is a copy of the groundwater test performed by Aqua Terra Technologies. Please call me with any questions.

Sincerely,

Gary Leach

Chief Financial Officer

Lay Jeach

A Salas Market



January 8, 1992

Mr. Randolph L. Harris McInerney & Dillon Law Offices One Kaiser Plaza, 18th Floor Oakland, CA 94612-3610

Subject:

Groundwater Analytical Data for the Property at 41st Street Tank, Oakland National Engravers

1001 42nd Street, Oakland, CA

(Project No. 919297)

Dear Mr. Harris:

Aqua Terra Technologies Consulting Engineers & Scientists Aqua Terra Technologies, Inc. (ATT) is pleased to present this status report for groundwater analytical data from samples collected from groundwater monitoring wells identified as "41st" and "LD4" at the Oakland National Engraving facility, 1001 42nd Street, Oakland California.

SITE CHARACTERISTICS

Site Setting

The subject property is located on 42nd Street, between Linden Street to the east and Adeline Street to the west in Oakland, California (Plate 1, Attachment A). A 6,000-gallon underground storage tank (UST) and associated groundwater monitoring well (identified as groundwater monitoring well "41st") constructed with two-inch diameter well casing are located on 41st Street in Emeryville, California. A second groundwater monitoring well (identified as "LD4", constructed with four-inch diameter well casing) is located on the loading dock adjacent to 41st Street in Oakland, California (Plate 2, Attachment A). The subject property elevation is approximately 55 feet above mean sea level (AMSL), according to the U.S. Geological Survey 7.5-minute Quadrangle map for Oakland West, California (1959, photorevised 1980); the subject property is essentially level.

Previous Investigation

On February 9, 1988, O.H. Materials Corporation (OHM) of West Sacramento, California installed one temporary groundwater monitoring well (TW-1) at the downgradient end of the UST (to the west). Available data indicates that OHM destroyed the temporary well on February 9, 1988, after collecting a groundwater sample. The sample was analyzed for total petroleum hydrocarbons (TPH) as gasoline (TPH-G) using Environmental

2950 Buskirk Avenue Suite 120 Walnut Creek, CA 94596-2079 FAX 934-0418

510 934-4884

Mr. Randolph L. Harris McInerney & Dillon Law Offices January 8, 1992 Page 2

Protection Agency (EPA) Method 5030 and 8015, and volatile organic compounds (VOCs) using EPA Method 624. The summary of sample analyses in (Table 1, Attachment B) indicates that TPH-G was detected at 610 mg/L and methylene chloride was detected at 0.72 mg/L in groundwater sample GWS-1 (collected from well "41st").

MONITORING WELL SAMPLING

On September 30, 1991, ATT field personnel collected groundwater samples from an existing groundwater monitoring well in the vicinity of the previously destroyed temporary well (the existing monitoring well identified as "41st" by ATT), and from the monitoring well in the loading dock area (the monitoring well identified as "LD4" by ATT) located in Emeryville and Oakland, respectively. These samples were submitted, with a field/travel blank (FB) to assure laboratory analytical precision and accuracy, to a California Department of Health Services (DHS) accredited laboratory.

Groundwater samples were collected in accordance with regulatory agency guidelines and requirements using the protocol in Attachment C. Samples were immediately placed in a cooler containing bagged ice and delivered, under chain-of-custody documentation, to Chromalab Inc. of San Ramon, California. The groundwater samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline (TPH-G) using U.S. Environmental Protection Agency (EPA) Method 5030, total petroleum hydrocarbons as diesel (TPH-D) using EPA Method 3510, benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Method 602, total extractable petroleum hydrocarbons (TEPH) using EPA Method 3510, purgeable hydrocarbons (CLHC) using EPA Method 601, and total dissolved solids (TDS) using EPA Method 160.1. Copies of the sample collection records, chain-of-custody documentation, and signed laboratory reports are provided in Attachment C.

Analytical Results

A summary of the laboratory analytical results for groundwater samples, collected by ATT field personnel from monitoring wells "41st" and LD4, are presented in Table 1, Attachment B). Groundwater sample 41st contained 18 mg/L TPH-G, and 29 mg/L kerosene. TPH-D and motor oil were not detected at or above the method detection limits of 0.05 mg/L and 0.5 mg/L, respectively. Benzene was not detected at or above the method detection limit (0.0005 mg/L); toluene, ethylbenzene, and total xylenes were detected at

Mr. Randolph L. Harris McInerney & Dillon Law Offices January 8, 1992 Page 3

reported concentrations of 0.0056 mg/L, 0.25 mg/L, and 0.98 mg/L, respectively. Methylene chloride was not detected at or above the method detection limit of 0.0005 mg/L, and TDS was reported at 526 mg/L.

Groundwater sample LD4 was analyzed for BTEX and TDS. Benzene, toluene, ethylbenzene, and total xylenes were reported at 0.002 mg/L, 0.0031 mg/L, 0.009 mg/L, and 0.024 mg/L, respectively. TDS was reported at 695 mg/L.

CONCLUSIONS

Groundwater sample analyses, from samples collected from downgradient monitoring well "41st" and upgradient monitoring well LD4, indicated that methylene chloride was not detected in the vicinity of the UST. However, the benzene concentration in groundwater sample LD4 currently exceeds the maximum contaminant level (MCL) for organic compounds (benzene) in drinking water (0.001 mg/L) which were recently adopted and incorporated in Title 22 of the California Code of Regulations (CCR), Section 6444.5, Article 5.5, Division 4. Also, the secondary MCL in California for TDS is 500 mg/L (Marshack, 1990). References cited in this report are in Attachment D, Limitations and Uncertainties are in Attachment E.

Please contact us if you have any questions regarding the matter discussed herein.

Sincerely,

AQUA TERRA TECHNOLOGIES, INC.

Michael L. Deschenes

Project Geologist

Ronald M. Block, Ph.D. President/Project Manager

Knuw Blok

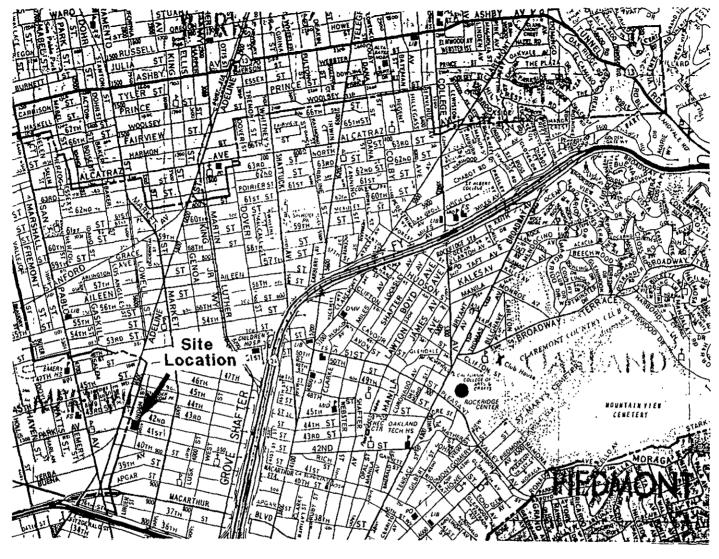
Ullam ? hts

MLD/RMB:pd Attachments

919297/#1/RH120391.RPT

ATTACHMENT A

Plates



0 1/2 1 mile SCALE

PLATE

1

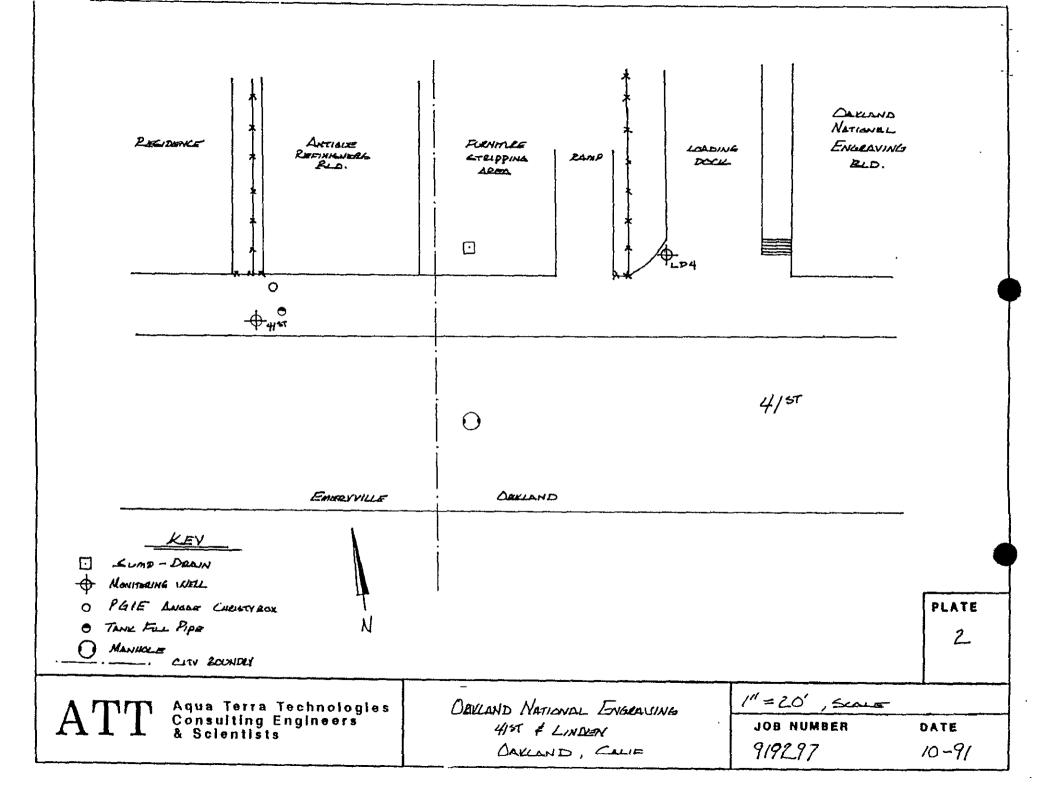
ATT Aqua Terra Technologies
Consulting Engineers
& Scientists

Site Location Map

Oakland National Engraving

JOB NUMBER 919297

DATE 12/91



ATTACHMENT B

Table

Table 1. Summary of Analyses
Groundwater Samples
Oakland National Engravers
Oakland, California

,		Concentrations ^a (mg/L)												
Sample Ident- ification	Sampling Date	трн-с	TPH-D	Kerosene	Motor Oil	`TOG	В		E	X	Methylene Chloride	TDS		
41St ^b (GWS-1)	01/09/88	610		·- ·-			<0.1	<0.1	<0.1	2.4	2.1			
41Stc LD4b LP/	09/30/91 lem FP	18	<0.05	29	<0.5		<0.005	0.0056	0.25	0.98	<0.0005	526		
(Well Water)	06/17/88	e				(2.0	ND ^f	ND	0.0096					
LD4 ^d	09/30/91 0.5 in FR					(0.002	0.0031	0.009	0.024		695)		

a. TPH-G = total petroleum hydrocarbons as gasoline, TPH-D = total petroleum hydrocarbons as diesel, TOG = total oil and grease, B = benzene, T = toluene, E = ethylbenzene, X = total xylenes, TDS = total dissolved solids.

b. ATT well designation.

c. 1/8-inch of floating product in first bailer, 1/8-inch of product at completion pre-sample well purging (for monitoring well "41 St").

d. ½-inch of floating product in first bailer, oily substance on bailer during pre-sample well purging (for monitoring well LD4).

e. --- = Analysis was not performed.

f. ND = not detected; sample analyses below method detection limit on laboratory report.

ATTACHMENT C

Soil & Groundwater Sample Collection & Handling Protocol

ATTACHMENT C

SOIL & GROUNDWATER SAMPLE COLLECTION & HANDLING PROTOCOL

INTRODUCTION & PURPOSE

Because reliable and representative test results must be generated from soil and groundwater samples, it is essential to establish a sampling procedure which assures that all samples are:

- O Collected by approved and repeatable methods
- O Representative of the materials(s) at the desired location and depth
- O Uncontaminated by container and sampling equipment

The following sampling protocol was designed to be a guide to the sampling and handling procedures for soil and groundwater samples. Based on conditions which may be encountered in the field, some modifications to this protocol may be required to fit the needs of an individual site.

SAMPLING PROCEDURES

Groundwater Sampling

Prior to collecting groundwater samples, monitoring wells were purged by bailing until pH, conductivity, and temperature levels stabilize. A minimum of four well casing volumes was purged from each well. Wells were purged and groundwater samples were obtained using a teflon bailer, or disposable polyethelene bailer, and nylon rope. New nylon rope is used for each well.

The appropriate number of sample containers and type were used for each sample collected, in accordance with the analytical laboratory requirements and EPA protocol. The bottles were filled using the bailer. All sample bottles were pre-cleaned by the supplier according to EPA protocols.

To prevent cross contamination of groundwater samples by the sampling equipment, all reusable equipment used in sampling was washed with a trisodium phosphate solution (TSP), triple rinsed with purified water, and



allowed to air dry prior to each use. A sample of the purified water was retained for analysis as part of sample quality assurance.

Soil Sampling

After the soil sampler was driven to the desired depth and the samples were retrieved, each end of the tube containing the soil sample retained for laboratory analysis was sealed with teflon sheeting, covered with plastic end caps, and sealed with PVC tape. All sample containers (tubes) were steamed cleaned (or washed with TSP, as above) and air dried prior to use. The soil sample recovered in the tube just above the sample retained for chemical analysis was examined in the field for visual and olfactory indications of chemical contamination and used for lithologic description.

The Unified Soil Classification System (USCS) was used to log and describe the soil by the onsite geologist. These logs also include details of the sampling process such as depth, apparent odors, discoloration, and any other factors which may be required to evaluate the presence of contamination at the site.

POST SAMPLING PROCEDURES

One field/travel blank consisting of one sample bottle filled with purified water accompanied soil and groundwater sample containers at all times, including during transport to and from the site. Purified water field/travel blanks were analyzed according to the appropriate EPA Methods corresponding to the soil/groundwater sample analyses.

Sample containers were labeled with sample number, project number, date, and the initials of the person collecting the sample. A separate sample collection record was maintained for each groundwater sample collected.

Soil and groundwater samples collected were analyzed by an analytical laboratory certified by the California Department of Health Services (DHS). Quality assurance documentation accompanied all analytical reports generated by the laboratory.

The samples were placed in a cooler with dry ice (for soil samples) or bagged ice (for water samples) immediately following collection, and remained in the cooler until refrigerated at the analytical laboratory. The samples were delivered to the laboratory direct by courier or overnight freight within 48 hours of time of collection. Appropriate chain of custody forms were used for all samples.

ATTACHMENT D

Sample Collection Record Chain-of-Custody Documentation Analytical Laboratory Data Sheets

Aqua Terra Technologies, In

Sampled By: DAVID BEARDSLEY

2950 Buskirk Avenue, Ste. 120 Walnut Creek, CA 94596 Tel. (415) 934-4884 Fax. (415) 934-0418

CHAIN OF SAMPLE CUST(

(original document, please return)

CHROMALAR FILE # 1091006 ORDER ORDER

Date Sampled: 9-30-9/

ATT Job #: 9/9297

Page __/_ of __/_



Signature://	Mace	flet															<u> </u>			
//	/ /	/ /			0												ma			
Results To Be Se	int To:	$\supseteq ru$	<u>ce</u> -	<u>. </u>	\supset	er	me	$\frac{a}{a}$		_		Co	ntac	ct:		Sa	ry	<u> </u>	00K	
Results Needed Fax Results ASA		ngarc	1 1	wry	\ar	ouv	<u> </u>	<u>~tu</u>	ne				ne a ob a		ع_	కర	1-	_/	78	8
Tax results ASA					<u> </u>	مام	<u>-</u>		Co.	2010) J								
Sample Collection Sample Sample Sample Analysis/EPA Method No. Preservation Containers) <u>.</u>										
	.	Matrix (e.g. Water, Soil)	of ers				į	24	Jack.	Glass			/ /	./.	λ	*/	30/	. /	:	
Sample I.D.	Time (24 hr)	(e.g. Water.	ntair Tair		,	<u> </u>	i	1. 18	ml. 1	kr (\\ <u>`</u>	:/ 9	8/:		\$ /2	7/ <u>ū</u>	7/		
į	(27111)	Soil)	Nun Cor	1CB	필보	Dry Ice		40 ml. 1045	500 ml. Planki I Liter Glass			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3/3/2/		1/2	1		7	/ Remarks	
// /	10.15		-	_	7			ושו	7				ا ــ ا					<u></u>		
4/st.	12:15	Mader	10	V				5	1	4		X	X	X	<u> </u>	X				
											_		<u> </u>	Ļ.,						
4D4	13:00	Water	8					5		2			\boxtimes	\boxtimes						
Latin Dak		A											H.	Æ,						
FR	11:49	1. 12.08	3					3									V			
	11211	water									-			} [']	<u> </u>			. 		
											_									
																				
														_	_			ļ		
				_																
Notes:	201 -	юш 🗥	Fin	<u> </u>	• •	~~~·	//	·	·			<u> </u>		·	·	ł,	<u>1</u>			
									· · ·						***					
· Milling	PH-GO	ا ج کی	re	م <u>رد</u> در	• • • • • • • • • • • • • • • • • • • •	C 61	n//u	en-		<u>en</u>		iny	/ 0	<u>unu</u>	su	<u>al</u>	101	nj	rane	15
(A) Z T	PH-DI	esel:		,	4			7	1		1			<u>~/</u> /-			~~~	<u>.</u> √a	ساهد	
, , , , , , , , , , , , , , , , , , ,			pe:	110	leu	· #		MY	di	01	arl	201	15	\leftarrow	(E	20	++_			
Relinquished by/		Dat	.0	7	Ti	ne		Re	ceiv	ed b	y:				1	Dak		T	Time	<u></u>
Company Affiliation				-	1 11	116			Received by: Company Affiliation					Date Time			; 			
Meur	uf_	9.30	.91	_	16.	00		Z	Bruge Box					9-30-91 16:00			20			
Buce Si		10-1-	91	1	3:	00	7	M	lie	In	his	16			1	à //	191		/3:	0 0
				T				V			·····				T	,		T		
L																		ㅗ.		<u></u> ,



Analytical Laboratory (E694)

October 8, 1991

ChromaLab File No.: 1091006

AQUA TERRA TECHNOLOGIES, INC.

Attn: Bruce Berman

RE: Three water samples for Gasoline/BTEX and TEPH analyses

Project Number: 919297

Date Sampled: Sept.30, 1991
Date Extracted: Oct. 4-7, 1991

Date Submitted: Oct. 1, 1991
Date Analyzed: Oct. 4-7,1991

RESULTS:

Sample _I.D.	Gasoline (µg/l)	Diesel (µg/l)	Benzene (µg/1)	Toluene (µg/l)	Ethyl Benzene (µg/l)	Total Xylenes (µg/l)	Kerosene (µg/l)	Motor Oil (mg/l)
41st.	18000	N.D.	N.D.	5.6	250	980	29000	N.D.
LD4			2.0	3.1	9.0	24		
FB	N.D.		N.D.	N.D.	N.D.	N.D.		
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE REC.	98.0%	93.0%	89.3%	88.3%	89.5%	90.8%	100.9%	
DET. LIMIT	50	50	0.5	0.5	0.5	0.5	50	0.5
METHOD OF	5030/	3510/					3510/	3510/
ANALYSIS	8015	8015	602	602	602	602	80 1 5	8015

ChromaLab, Inc.

David Duong Chief Chemist Eric Tam

Laboratory Director

CHROMALAB, INC.

Analytical Laboratory (E694)

October 8, 1991

ChromaLab File # 1091006 A

Client: Aqua Terra Technologies, Inc.

Attn:

Bruce Berman

Date Sampled: Sept. 30, 1991

Date Submitted: Oct. 01, 1991

Date Analyzed: Oct. 05, 1991

Project Number: 919297 Sample I.D.: 41st.

Method of Analysis: 601

Detection Limit: 0.5 µg/l

COMPOUND NAME	<u>ид/1</u>	Spike Recovery
CHLOROMETHANE	N.D.	
VINYL CHLORIDE	N.D.	
BROMOMETHANE	N.D.	
CHLOROETHANE	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	91.8% 92.5%
1,1-DICHLOROETHENE	N.D.	*~ = **
METHYLENE CHLORIDE	N.D.	
1,2-DICHLOROETHENE (TOTAL)	N.D.	Age The Age
1,1-DICHLOROETHANE	N.D.	
CHLOROFORM	N.D.	96.8% 97,2%
1,1,1-TRICHLOROETHANE	N.D.	₩- -
CARBON TETRACHLORIDE	N.D.	
1,2-DICHLOROETHANE	N.D.	_ *
TRICHLOROETHENE	N.D.	
1,2-DICHLOROPROPANE	N.D.	
BROMODICHLOROMETHANE	N.D.	
2-CHLOROETHYLVINYLETHER	N.D.	
TRANS-1,3-DICHLOROPROPENE	N.D.	-~-
CIS-1,3-DICHLOROPROPENE	N.D.	
1,1,2-TRICHLOROETHANE	N.D.	90.5% 93.7%
TETRACHLOROETHENE	N.D.	2.
DIBROMOCHLOROMETHANE	N.D.	 – –
CHLOROBENZENE	N.D.	_ ~ _
BROMOFORM	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	
1,3-DICHLOROBENZENE	N.D.	
1,4-DICHLOROBENZENE	N.D.	
1,2-DICHLOROBENZENE	N.D.	96.1% 98.2%

ChromaLab, Inc.

David Duong

Senior Chemist

Eric Tam Lab Director REPORT NUMBER

A & L WESTERN AGRICULTURAL LABORATORIES

W291-12

1311 WOODLAND AVE #1 • MODESTO, CALIFORNIA 95351 • (209) 529-4080 • FAX (209) 529-4736



SEND TO: CHROMALAB, INC. 2239 Onega Road #1 San Ramon, CA 94583 CUSTOMER

DATE SAMPLED
DATE RECEIVED
DATE COMPLETED
SUBMITTED BY

10-08-91 10-03-91 10-11-91

DAVID DUONG

DATE OF REPORT

SAMPLE IDENT.

10-17-91

PAGE

1

WATER ANALYSIS REPORT

·	- - - - - - - - 			Walliam Co.					· */ - * - 20 * -		-	
1).st	63257											
T.D4	63 2 58	•									·	
							i	ł	•	į.		
SAMPLE IDENT.	Phosphorus ppm	Potenským popi		L.				Call There			oinements:	- • • • •
						Park Marine in Ma		A STATE OF THE STA	- Capp. 420	i handa da	en alids	(100) in
41.st	:					526				1	parts per	million (p)
TD4				ļ !	-	695				ć	Parts per fan, hromalal,	10-28-91
						ż				 	isreport applies only to the sined a maximum of third	
	I	1	i 1						,			Y amba muo, laamiibi

Date: 9-30-91 Sample I.D.: <u>LD4</u> Job No.: 919297
Site Location: DAKLAND NATIONAL ENGRAVING
No. of Containers : 8 /(check one): Well Samples;
Field Blanks;Other (explain)/
W.L.(1/100'): 7.72 Time: 12:40 B.O.W.(1/2'): 10.5
Method: Electric Well Sounder:Other/
Con./pH meter calibrated: (Y) / N Well Loc. Map: (Y) / N
Calculated Purge Volume (4 casing volumes): // gallons
Purging Method:Disposable Bailer;Teflon Bailer;
Time Start Purging (24 hr): /2:46 Product: Y/N Sheen: Y/N, Odor: Y/N, Vapor: ppm / %LEL
Turbidity: N Color: Oky Blaus
Time Stop Purging (24 hr): /2:56 Product: Y/N Sheen: Y/N, Odor: Y/N, Vapor: ppm / %LEL
Turbidity:, Color: Ony Boun_
Temp. pH Cond. Purge Vol. Time
First: 22°C 6.39 0910 ps 4 12:49
Second: 21°C 6.50 0960 115 8 12:52
Final: 20°C 6.57 0970 µs 11 12:56
Sample Collection Time (24 hr): /3:00
Notes: 1/2" PRODUCT FRAT BAILER, BAILERS VERY OLY
AFTER BAILING COMPLETED
Collected By (signature): Manufley

Date: 9-30-91 Sample I.D.: 4/57 Job No.: 9/9297
Site Location: <u>Oakland National Englaving</u>
No. of Containers : /O / (check one): Well Samples;
Duplicates from well;Travel Blanks;
Field Blanks;Other (explain)/
W.L.(1/100'): 7.48 Time: //:4/ B.O.W.(1/2'): 19.5'
Method: Electric Well Sounder; Other/
Con./pH meter calibrated: Y/N Well Loc. Map: Y/N
Calculated Purge Volume (4 casing volumes): 7 gallons
Purging Method:Disposable Bailer;Teflon Bailer;
Other/
Time Start Purging (24 hr): //:5/, Product: Y/N Sheen: Y/N, Odor: Y/N, Vapor: ppm / %LEL
Turbidity:, Color: Clear, Oxy Boun
Time Stop Purging (24 hr): 12:68 Product: Y / N Sheen: Y / N , Odor: Y / N , Vapor: ppm / %LEL
Turbidity: LIGHT, Color: MERKY OKY Becom
Temp. pH Cond. Purge Vol. Time
First: 20°C 6.13 0840 ps 2 11:55
Second: 20°C 6.36 0840 µs 4 11:59
Final: 20°C 6.43 0820 ps 7 12:08
Sample Collection Time (24 hr): 12:15
Notes: FIRST BAILER 1/8" PROPULT - 12:00 STOPPED PURGE
LUTWELL RECHARGE (5 GML.) 12:04 RESTART PURISE
AFTER 7 GAL. STILL 1/8" PRODUCT FLOATING IN BAILER
Collected By (signature): Milesoful

Date: 9-30-91 Sample I.D.: FB Job No.: 919297
Site Location: DAKLAND NATIONAL ENGRAVING
No. of Containers :
Duplicates from well;Travel Blanks;
W.L.(1/100'): Time : B.O.W.(1/2'):
Method: Electric Well Sounder; Other/
Con./pH meter calibrated: Y / N Well Loc. Map: Y / N
Calculated Purge Volume (4 casing volumes): gallons
Purging Method:Disposable Bailer;Teflon Bailer;
Other/
Time Start Purging (24 hr):, Product: Y / N Sheen: Y / N , Odor: Y / N , Vapor: ppm / %LEL
Turbidity:, Color:
Time Stop Purging (24 hr):, Product: Y / N Sheen: Y / N , Odor: Y / N , Vapor: ppm / %LEL
Turbidity:, Color:
Temp. pH Cond. Purge Vol. Time
First:
Second:
Final:
Sample Collection Time (24 hr): //:49
Notes: TAKEN FROM PRE CLEANED DISPOSABLE BAILER
Collected By (signature): My greefly
111

ATTACHMENT E

References Cited

ATT

REFERENCES CITED

- O.H. Materials Corp., 1988, Field Investigation of an Underground Storage Tank, Former Grow Group Facility in Emeryville, California, March 29, 1988, 22p. with attachments.
- Marshack, J.D., 1990, A Compilation of Water Quality Goals: California Regional Water Quality Control Board (RWQCB), Central Valley Region

ATTACHMENT F Limitations and Uncertainties

ATT

LIMITATIONS AND UNCERTAINTY

This report was prepared in general accordance with the accepted standard of practice which exists in northern California at the time the investigation was performed and within the scope of services outlined in our proposal. It should be recognized that the definition and evaluation of surface and subsurface environmental conditions is a difficult and inexact science. Judgements leading to conclusions and recommendations are generally made with an incomplete knowledge of the conditions present. It is possible that variations in the soil and/or groundwater conditions could exist beyond the points explored for this investigation. Also changes in groundwater conditions could occur sometime in the future due to variations in tides, rainfall, temperature, local or regional water use or other factors. If the client wishes to reduce the uncertainty beyond the level associated with this study, ATT should be notified for additional consultation.

The discussion and recommendations presented in this report are based on: 1) monitoring well installed by a third party, 2) the observations of field personnel, 3) the results of laboratory analysis performed by a California Department of Health Services accredited laboratory, and 4) interpretations of current federal, state, and local regulations and/or ordinances.

Chemical analytical data included in this report have been obtained from state certified laboratories. The analytical methods employed by the laboratories were in accordance with procedures suggested by the U.S. Environmental Protection Agency and the State of California. ATT is not responsible for laboratory errors in procedures or reporting.

ATT has conducted this investigation in a manner consistent with the level of care and skill ordinarily exercised by members of the environmental consulting profession currently practicing under similar conditions in northern California. ATT has prepared this report for the client's (and assigned parties) exclusive use for this particular project. No other warranties, expressed or implied, as to the professional advice provided are made.