AGENCY



DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES 1131 Harbor Bay Parkway, Suite 250

Alameda, CA 94502-6577 (510) 567-6700

(510) 337-9335 (FAX)

StID 3954

January 26, 1999

Mr. Al Pelton Dreisbach Enterprises 2530 E 11<sup>th</sup> Street Oakland, CA 94601

Re: Fuel Leak Site Case Closure for California Refrigerated, at 860 92<sup>nd</sup> Avenue, Oakland, CA

Dear Mr. Pelton:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Protection Division is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

#### SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- up to 490ppm TPH as gasoline, 1,500ppm TPH as diesel, and 0.18ppm benzene exists in soil beneath the site;
- up to 80ppb benzene exists in groundwater beneath the site; and,
- a site safety plan must be prepared for construction workers in the event of excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination.

If you have any questions, please contact me at (510) 567-6762.

eva chu

Hazardous Materials Specialist

eníosures:

1. Case Closure Letter

2. Case Closure Summary

c: Frank Kliewer, City of Oakland, 1330 Broadway, 2<sup>nd</sup> Floor, Oakland, CA 94612 files (carefrig10)

AGENCY DAVID J. KEARS, Agency Director



**ENVIRONMENTAL HEALTH SERVICES** 

1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 (510) 337-9335 (FAX)

### REMEDIAL ACTION COMPLETION CERTIFICATION

StID 3954 - 860 92<sup>nd</sup> Avenue, Oakland, CA (1-10K and 1-5K gallons tanks removed on October 5, 1995)

January 26, 1999

Mr. Al Pelton Dreisbach Enterprises 2530 E 11<sup>th</sup> Street Oakland, CA 94601

Dear Mr. Pelton:

This letter confirms the completion of site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Section 2721(e) of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director

cc: Richard Pantages, Chief of Division of Environmental Protection Chuck Headlee, RWQCB

Dave Deaner, SWRCB Leroy Griffin, OFD files-ec (carefrig9)

ENVIRONMENTAL ON XOMMON CH FROTECTION

CASE CLOSURE SUMMARY

Leaking Underground Fuel Storage Tank Programmy

19. 1998

**AGENCY INFORMATION** 

Agency name: Alameda County-HazMat City/State/Zip: Alameda, CA 94502 Responsible staff person: Eva Chu

Address: 1131 Harbor Bay Pkwy

Phone: (510) 567-6700

Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: California Refrigerated

Site facility address: 860 92nd Ave

RB LUSTIS Case No: N/A

Local Case No./LOP Case No.: 3954

URF filing date: 10/22/95 SWEEPS No: N/A

**Responsible Parties:** 

Addresses:

**Phone Numbers:** 

RBG16#01-218>

Al Pelton

2530 E 11th Street

510/ 533-1527

**Dreisbach Enterprises** 

Oakland, CA 94601

Tank Size in No: gal.:		Contents:	Closed in-place or removed?:	<u>Date:</u>
1 2	5,000 10,000	Diesel Diesel	Removed	10/5/95

#### III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown Site characterization complete? YES

Date approved by oversight agency: 5/5/98

Monitoring Wells installed? Yes Number: 3

Proper screened interval? Yes, 7' to 20' bas

Highest GW depth below ground surface: 4.92' Lowest depth: 8.69' in MW-2

Flow direction: WNW at .006 ft/ft

Most sensitive current use: Commercial/Light Industrial

Are drinking water wells affected? No Aquifer name: San Leandro Cone

Is surface water affected? No Nearest affected SW name: NA

Off-site beneficial use impacts (addresses/locations): None

Report(s) on file? YES Where is report(s) filed? Alameda County

1131 Harbor Bay Pkwy and

Alameda, CA 94502

Oakland Fire Dept 1605 MLK Jr Dr

Oakland, CA 94612

#### Treatment and Disposal of Affected Material:

<u>Material</u>	Amount (include units)	Action (Treatment or Disposal w/destination)	<u>Date</u>
Tank Soil	2 USTs 1,500 cy	Disposed by H & H, San Francisco Bioremediated and reused to fill pit	10/5/95

Maximum Documented (	Contaminant Co (۱) Soil			efore and After Cleanup Water (ppb)			
	Before <sup>1</sup>	After <sup>2</sup>	Before <sup>3</sup>	After⁴			
TPH (Gas)	5,100	490	61,000	730			
TPH (Diesel)	2,200	1,500	940,000	530			
Benzene	25	0.18	810	80			
Toluene	10	0.096	250	1.2			
Ethylbenzene	68	0.240	1,600	11			
Xylenes	23	0.280	1,600	2			
MtBE	NA	NA	9	28			

Other	PNAs	see Note 5
	Total Pb	13

NOTE: 1 soil sample from UST removal, 10/95

- 2 confirmatory soil sample collected after overexcavation, 11/95
- grab water sample from boreholes drilled July 1996
   most recent groundwater sampling results, 2/98
- 4 most recent groundwater sampling results, 2/98
  5 2.78 ppm Naphthalene, 8.15 ppm 2-Methylnaphthalene, 1.21 ppm fluorene, and 1.55 ppm

Phenanthrene

#### IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan?

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan?

Does corrective action protect public health for current land use? YES

Site management requirements: A site safety plan must be prepared for construction workers in the event excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination.

Should corrective action be reviewed if land use changes? YES

Monitoring wells Decommissioned: No, pending site closure

Number Decommissioned: 0 Number Retained: 3

List enforcement actions taken: NOV issued 3/24/97

List enforcement actions rescinded: NA

#### LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu

Title: Haz Mat Specialist

Signature:

619198 Date:

Reviewed by

Name: Madhulla Logan

Title: Haz Mat Specialist

Name: Thomas Peacock

Title: Supervisor

Signature:

6-23-98

VI. **RWQCB NOTIFICATION** 

Date Submitted to RB:

6125 98

**RB** Response:

RWQCB Staff Name: Chuck Headlee

Chul Headle

Title: EG

Signature:

Date: 7/1/98

VII. ADDITIONAL COMMENTS, DATA, ETC.

Two diesel USTs (1-10K and 1-5K gallon tanks) in a common pit were removed in October 1995. Groundwater was encountered under the 10K tank. Five soil samples (S-1 through S-5) were collected from the pit bottom and sidewalls at 10' to 14' bgs. All samples were analyzed for TPHd, TPHg, BTEX, and total lead. In addition, sample S-5 was also analyzed for PNAs. Elevated petroleum hydrocarbons were noted in samples S-4 and S-5. Sample S-5 also contain some PNAs and lead. (See Fig 1, 2 and Table 1 and 2)

The pit was overexcavated in November 1995 to the extent possible. Excavation to the north was limited by the building/workshop structure, and to the west by the presence of a subsurface electrical line. Approximately 1,500 cy of soil was stockpiled at the site to be bioremediated. Seven confirmatory soil samples (VS-1 through VS-7) were collected from the sidewalls at 10' bgs. A grab water sample was also collected from the pit. Location of samples and analytical results are on Fig 3 and Table 3.

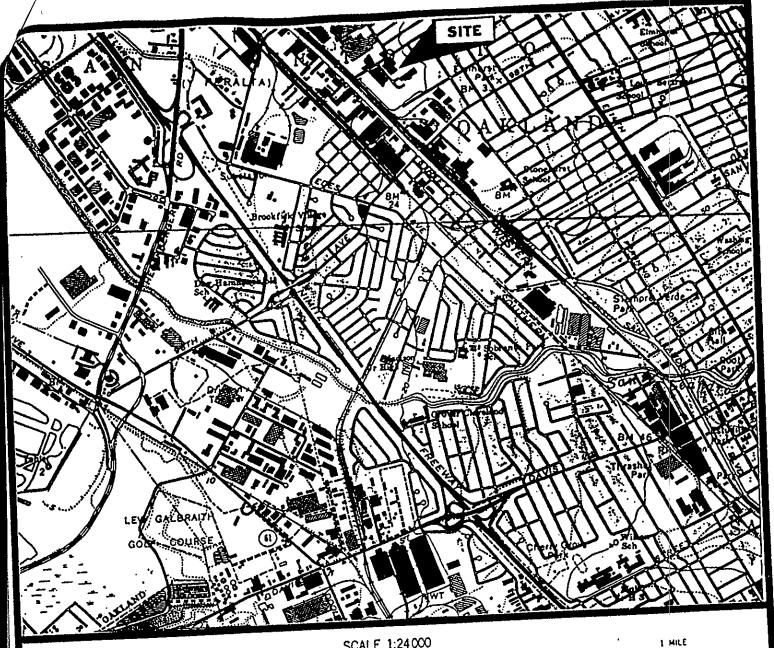
In July 1996 four boreholes (BH1 through BH4) were drilled to collect soil and grab water samples. Boring B1 was completed as a groundwater monitoring well MW-1. All soil and groundwater samples were analyzed for TPHd, TPHg, BTEX, and MTBE. Only soil and groundwater from borehole BH3 contained elevated target analytes. In addition, groundwater from BH2 contained 9 ppb MTBE and groundwater from BH4 contained 290 ppb TPHd. (See Fig 4, Table 4)

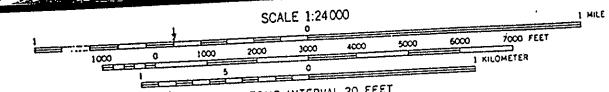
In May 1997 four soil borings, BH5 through BH8, (of which BH5 and BH6 were converted into groundwater monitoring wells MW-2 and MW-3, respectively) were drilled to delineate the extent of the contaminant plume and to verify groundwater flow direction. Boring BH5/MW-2 was installed adjacent to the former boring BH3, which identified elevated petroleum hydrocarbon concentrations. Soil samples, which were collected from the capillary fringe of each boring, did not contain significant levels of hydrocarbons. Groundwater from well MW-2 contained low levels of hydrocarbons. (See Fig 5, Table 5 and 6)

Groundwater has been sampled for four consecutive quarters (5/97 through 2/98). Only well MW-2 exhibits target analytes. However, the levels are not elevated to the degree where it would pose a risk to human health. The contaminant plume is limited in extent and the contaminant levels appear to have stabilized. And, residual PNAs (naphthalene and fluorene) in soil does not pose a risk to human health based on the RBCA Tier 2 Look Up Table 1 or EPA's Preliminary Remediation Goals. Continued monitoring is not warranted. (See Fig 6 and Table 7)

In summary, case closure is recommended because:

- o the leak and ongoing sources have been removed;
- o the site has been adequately characterized;
- the dissolved plume is not migrating;
- o no water wells, surface water, or other sensitive receptors are likely to be impacted; and,
- o the site presents no significant risk to human health or the environment.





QUADRINGLE LOCATION

CONTOUR INTERVAL 20 FEET

DOTTED LINES REPRESENT 5-FOOT CONTOURS

NATIONAL GEODETIC VERTICAL DATUM OF 1929

NATIONAL GEODETIC VERTICAL DATUM OF MEAN LOWER LOW WATER

DEPTH CURVES IN FEET — DATUM IS MEAN LOWER LOW WATER

SHORELINE SHOWN REPRESENTS THE APPROXIMATELY S FEET

THE MEAN RANGE OF TICE IS APPROXIMATELY S FEET

Source: USGS San Leandro, California 7.5 Minute Topographical Map



DATE: 3/20/98

DRAWN BY: DAS

SCALE: 1"=2,000', FIGURE 1: SITE LOCATION MAP

DREISBACH ENTERPRISES, INC 860 92nd AVENUE OAKLAND, CALIFORNIA

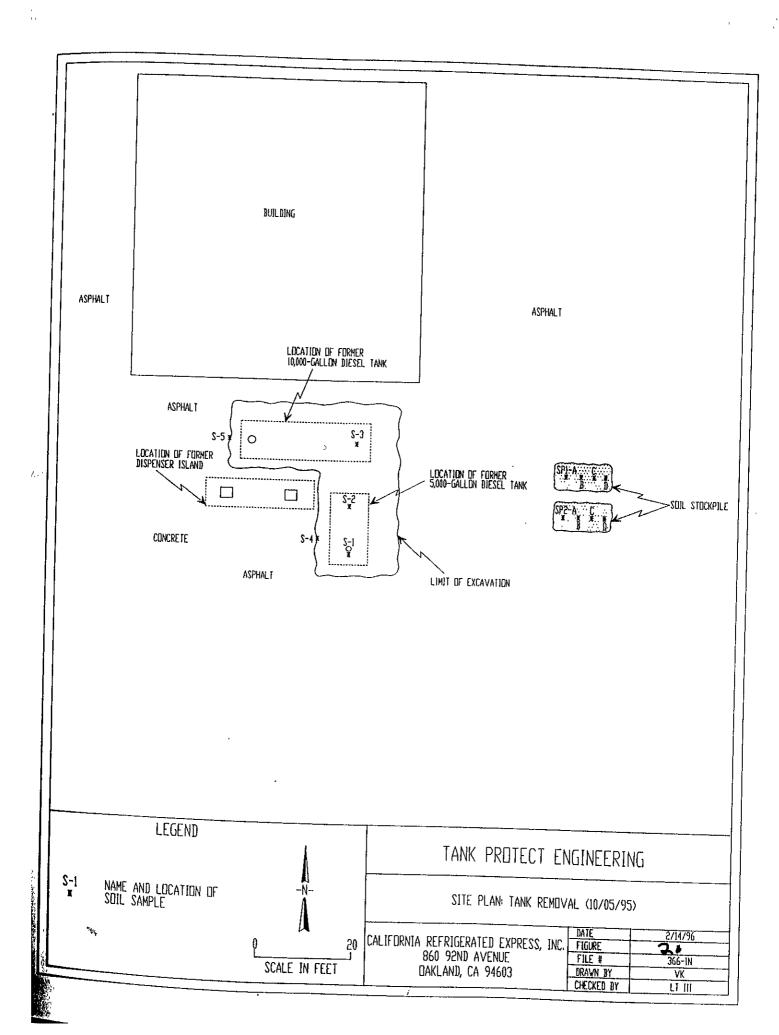


TABLE 1 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS (ppm¹)

Sample ID Name	Date	Depth (Feet)	TPHD	TPHG	Benzene	Toluene	Ethyl- benzene	Xylenes	Total Lead
S-1	10/05/95	13.5	<1.0	3	< 0.005	0.033	< 0.005	0.013	13
S-2	10/05/95	13.5	1.9	6	0.052	0.017	< 0.005	< 0.005	11
S-3	10/05/95	14.0	<1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	12
S-4	10/05/95	11.0	1,300	5,100	25	10	68	23	8.1
S-5 <sup>-2</sup>	10/05/95	10.0	2,200	680	1.5	1.1	1.3	1.2	9.1
SP1 A-D	10/05/95	2.0	2,100	190	1.1	0.43	2.1	3.0	29
SP2 A-D	10/05/95	2.0	3,200	190	0.64	0.15	1.3	1.5	33

<sup>&</sup>lt;sup>1</sup> PARTS PER MILLION

J.

<sup>&</sup>lt;sup>2</sup> ALSO ANALYZED BY EPA METHOD 8270 FOR PNA; SEE CERTIFIED ANALYTICAL REPORT IN APPENDIX C FOR RESULTS.

Client: Hull Development Mr. Mike Golden Attn:

Client's Project:

TPE-366-100595

Date Received: Extraction Method: 10/14/95

Extraction Material:

3550

Acetone/Methylene Chloride

Matrix:

Soil

ug/kg Units:

Table 2

#### EPA Method 8270 (PNA only)

Lah	No.:	Metho	d Blank	9200.A	0.1	 					<del></del>	<u> </u>		Γ	
Client Sample				B1081		 <del>,</del>		 					·····		
Date Sam		_		10/05/9		 		 			<del></del> -				<del></del>
QC Ba				95 <b>827</b> 0	<del></del>	 		  i		<del></del>	······································	<del></del>		<u> </u>	
Date Extra				10/17/9		 		 <del></del>							
Date Analyzed:				10/19-2		 		 <del>                                     </del>			<del></del>		<del></del>	<u> </u>	
Analyst In				SP	10/73	 									
Dilution Fa	actor:	1		1											
ANALYTE	MDL	DLR		DLR											
Naphthalene	330	330	ND	330	2780										
2-Methylnaphthalene	330	330	ND	1650	8150*										
Acenaphthylene	330	330	ND	330	ND	 									
Acenaphthene	330	330	ND	330	ND			 <u> </u>	<u> </u>						
Fluorene	330	330	ND	330	1210										
Phenanthrene	330	330	ND	330	1550			 		,					
Anthracene	330	330	ND	330	ND										
Fluoranthene	330	330	ND	330	ND		<u> </u>	 	<u> </u>	! !					
Pyreno .	330	330	ND	330	ND					! 					
Benzo(a)anthracene	330	330	ND	330	ND			 <u> </u>		<u> </u>					
Chrysene	330	330	ND	330	ND			 		ļ					
Benzo(b)fluoranthene	330	330	ND	330	ND	 				<u> </u>					
Benzo(k)fluoranthene	330	330	ND	330	ND										
Benzo(a)pyrene	330	330	ND	330	ND										
Indeno(1,2,3-cd)pyrene	330	330	ND	330	ND										
Dibenzo(a,h)anthracene	330	330	ND	330	ND			 <u> </u>							
Benzo(ghf)perylene	330	330	ND	330	ND			<u> </u>							

MDL = Method Detection Limit
ND = Not Detected (Below DLR),
DLR = MDL X Dilution Factor
NA = Not Analyzed

= Dilution Factor is 5.

Approved/Revie	wed By:	
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Yun Pan

Department Supervisor

Date:\_10/24/95

r letter is an integral part of this analytical report.





# TANK PROTECT ENGINEERING of Northern Colliernia, Inc.

overexcounter results 11/95

FROM: TANK PROTECT ENGINEERING	DATE: 11 29 95
TO: Alameda County Environmental Health	ATTN: Mrs. En Chu
RE.: Lab Route for California Refugented Exp. Inc	NO. OF PAGES: L
Dalland, CA  If all pages are not received please notify sender.	~
MESSAGE:  Dean Eur,  Duvet car	
Please find attached, lab results	to the above
	15.6 mg/mg
199 120/87	
Sin condy. 152 4901.13 (1500)	(12) ND(ND 12)
VS.	VS 4
(220)	V>5 \ /
· Lour Trais M	621.016 (590)
N	

ppm TPH-G/Benzene LTPH-D)

\_\_\_ 2821 Whinole Road, Urion City, CA 94587-1233



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

Table 3

November 08, 1995

PEL # 9511058

TANK PROTECT ENGINEERING

overexcavation

Attn: Louis Travis III

Re: Eight soil samples for Gasoline/BTEX and Diesel analyses.

Project name: California Refregerate Express, Inc. Project location: 860 92cd Ave., - Oakland, CA.

Project number: 366-111505

Date sampled: Nov 15, 1995 Date extracted: Nov 16-18, 1995 Date submitted: Nov 16, 1995 Date analyzed: Nov 16-18, 1995

#### RESULTS:

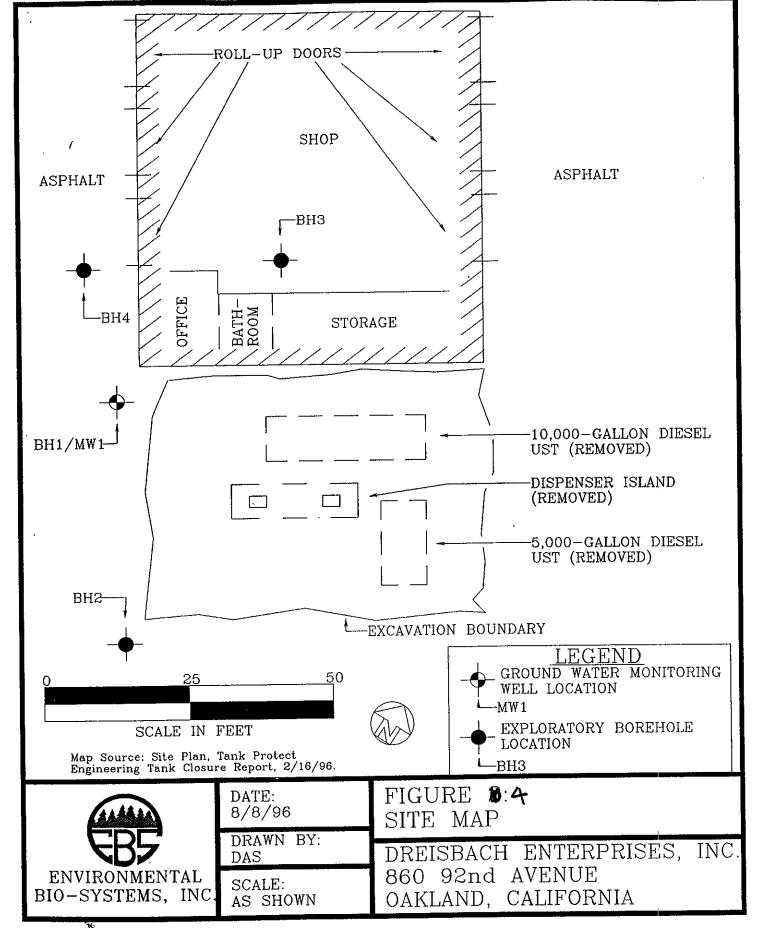
		201					
SAMPLE	Gasoline	Diesel	Benzene	Toluene	Ethyl Benzene	Total Xylene	SW
I.D.	(mg/Kg)	(mg/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	uslky
SP3-A,B,C,D* VS-1 VS-2 VS-3 VS-4 VS-5 VS-7	290 120 490 62 N.D. N.D.	260 1500 590 18 15,	66 97 130 16 N.D. N.D. N.D.	59 46 96 24 N.D. N.D.	200 74 240 14 N.D. N.D.	230 150 280 63 N.D. N.D. 280	TOHLO ND D z,400 B ND To X X
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	before purg
Spiked Recovery	89.8%	81.6%	92.9%	102.3%	90.0%	92.7%	
Detection limit	1.0	1.0	5.0	5.0	5.0	5 <b>.</b> 0	
Method of Analysis	5030 / 8015	3550 8015		8020	8020	8020	

<sup>\*</sup>Composited soil sample.

Laboratory Director

Tel: 408-946-9636

Fax: 408-946-9663



# TABLE4: RESULTS OF SOIL SAMPLES

SAMPLE ID	DEPTH (bgs)	TPHg (mg/kg)	B (μg/kg)	T (μg/kg)	E (μg/kg)	X (μg/kg)	TPHd (mg/kg)	MTBE (μg/kg)	PID (ppm)
BH1	9.5	ND	ND	ND	ND	ND	ND	ND.	. 0
BH2	9.5	ND	ND	ND	ND	ND	ND	ND .	0
ВН3	9.5	20	30	80	610	560	120	ND	239
BH4	9.5	ND	ND	ND	ND	-> ND	ND	ND	0

NOTES

bgs: Below ground surface.

TPHg: Total petroleum hydrocarbons as gasoline.

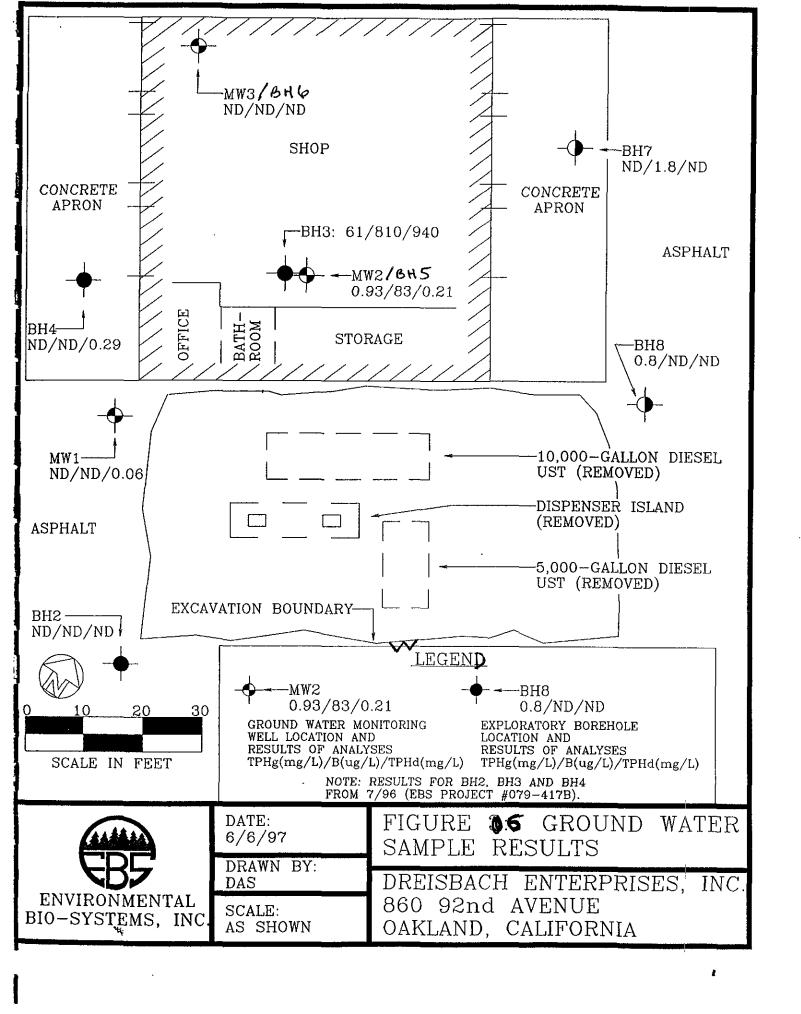
BTEX: Benzene, toluene, ethylbenzene, and total xylenes.

TPHd: Total petroleum hydrocarbons as diesel.

MTBE: Methyl t-butyl ether.

PID: Photoionization detector (in isobutylene equivalents).

mg/kg: Milligrams per kilogram. μg/kg: Micrograms per kilograms.



#### Dreisbach Enterprises, Inc. 860 92nd Avenue Oakland, California

## TABLE & RESULTS OF SOIL SAMPLES

SAMPLE ID	DEPTH (bgs)	TPHg (mg/kg)	B (μg/kg)	T (μg/kg)	E (µg/kg)	X (μg/kg)	TPHd (mg/kg)	MTBE (μg/kg)	TOC, DUW, P, H <sub>2</sub> 0	PID (ppm)
BH7	12'	ND	ND	ND	ND	ND	2	ND	TOC=0.42%	0
BH8	12'	ND	ND	ND	ND	ND	ND	ND	DUW=97.2, P=42.31%, H <sub>2</sub> 0=27.98%	0
MW2	12	ND	ND	ND	ND	ND	28	ND	_	468
MW3	12'	ND	ND	ND	ND	ND	ND	ND		0

NOTES

bgs: Below ground surface.

TPHg: Total petroleum hydrocarbons as gasoline.

BTEX: Benzene, toluene, ethylbenzene, and total xylenes.

TPHd: Total petroleum hydrocarbons as diesel.

TOC: Total organic carbon.

DUW: Dry unit weight (in pounds per cubic foot).

P: Porosity.

H<sub>2</sub>0: Water content.

MTBE: Methyl t-butyl ether.

PID: Photoionization detector (in isobutylene equivalents).

mg/kg: Milligrams per kilogram.  $\mu$ g/kg: Micrograms per kilograms.

-: Not analyzed.

#### Dreisbach Enterprises, Inc. 860 92nd Avenue Oakland, California

# TABLE . CUMULATIVE RESULTS OF WATER SAMPLES

SAMPLE ID	TPHg (mg/L)	B (μg/L)	T (μg/L)	E (μg/L)	X (μg/L)	MTBE (μg/L)	TPHd (mg/L)
MW1 (7/29/96)	ND	ND	ND	ND	ND	ND	ND
MW1	ND	ND	ND	ND.	ND	ND	0.06
MW2	0.93	.83	3.5	50	37	15	0.21
MW3	ND	ND	ND	ND	ND	ND	ND
BH7-H₂O	ND	1.8	1.8	0,6	ND	ND	ND
BH8-H <sub>2</sub> O	0.8	ND	ND	ND	ND	ND	ND

#### **NOTES**

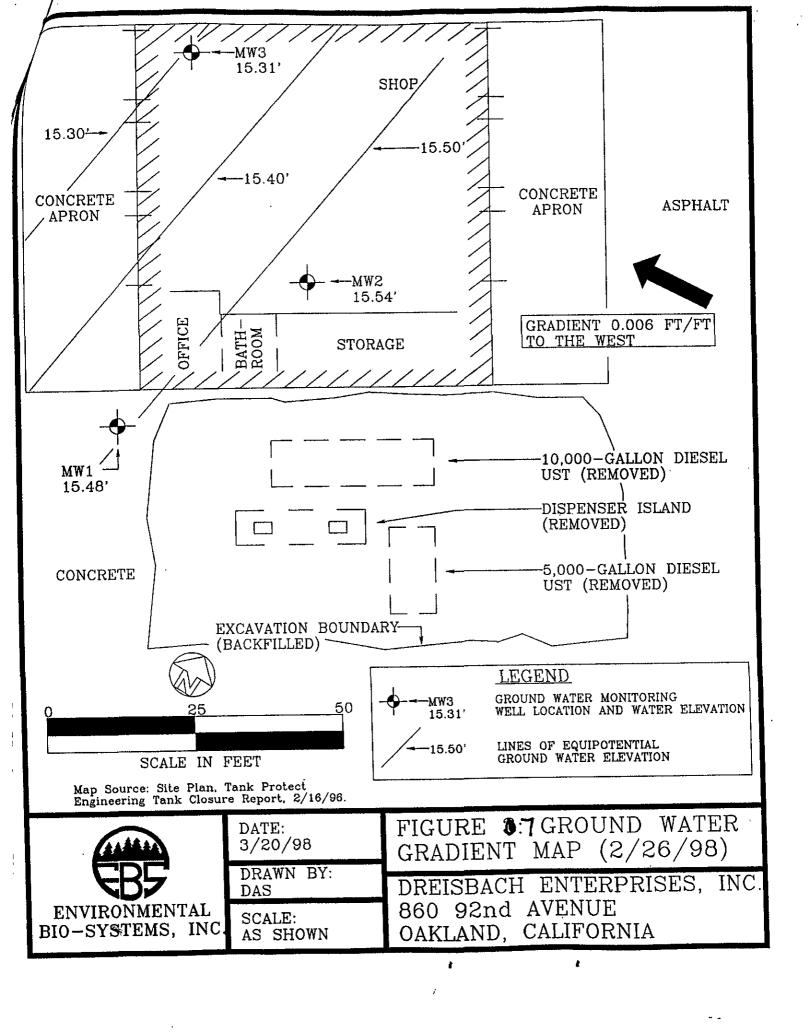
TPHg: Total petroleum hydrocarbons as gasoline.

BTEX: Benzene, toluene, ethylbenzene, and total xylenes.

MTBE: Methyl t-butyl ether.

TPHd: Total petroleum hydrocarbons as diesel.

mg/L: Milligrams per liter. μg/L: Micrograms per liter.



### Dreisbach Enterprises, Inc. 860 92nd Avenue Oakland, California

HANN TABLE I. CUMULATIVE RESULTS OF WATER SAMPLES

SAMPLE ID	DATE	TPHg (mg/L)	B (μg/L)	Τ (μg/L)	E (μg/L)	X (μg/L)	MTBE	TPHd
MW1	7/29/96	ND	ND	ND			(μg/L)	(mg/L)
MW1	5/19/97	ND	ND	ND	ND	ND	ND	ND
MWI	8/28/97	ND	ND	ND	ND	ND	ND	0.06
MWI	11/24/97	ND	ND		ND	ND	ND	ND
MW1	2/26/98	ND	ND	ND	ND ND	ND	ND	ND
MW2	5/19/97	0.93		ND	ND ND	ND	ND	ND
MW2	8/28/97	0.49	83	3.5	50	37	15	0.21
MW2	11/24/97		24	1.1	14	8	8	
MW2	2/26/98	2.1	260	5	65	36	ND	0.43
MW3		0.73	80	1.2	11	2	28	0.90
MW3	5/19/97	ND	ND	ND	ND	ND	ND ND	0.53
	8/28/97	ND ND	ND	ND	ND	ND		ND
MW3	11/24/97	ND	ND	ND	0.6		ND	ND
MW3	2/26/98	ND	ND	ND	ND ND	ND	ND	ND
				NOTES	CINI	ND	ND	ND

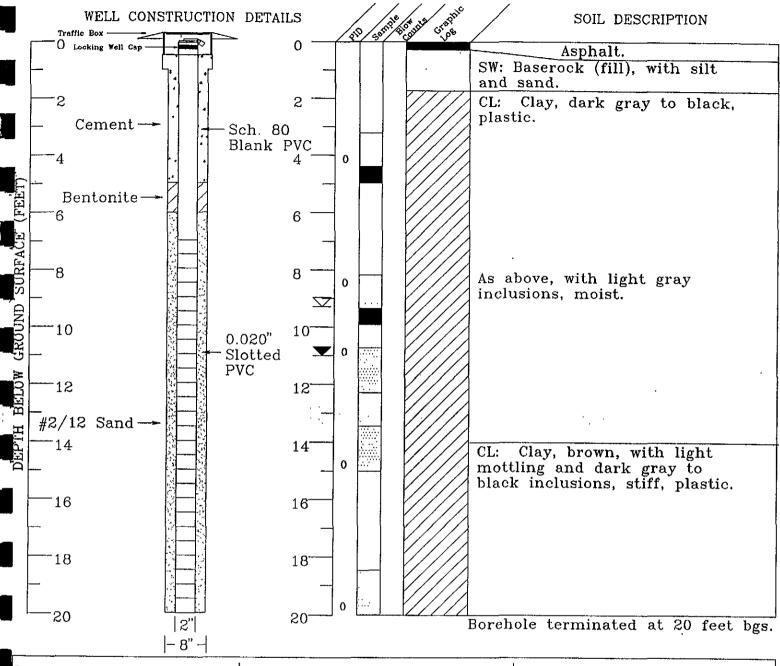
TPHg: Total petroleum hydrocarbons as gasoline.

BTEX: Benzene, toluene, ethylbenzene, and total xylenes.

MTBE: Methyl t-butyl ether.

TPHd: Total petroleum hydrocarbons as diesel.

mg/L: Milligrams per liter. μg/L: Micrograms per liter.



Logged by: Dave A. Sadoff

Inspector: N/A

Date: 7/23/96

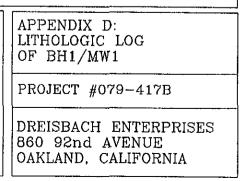
Drilling Contractor: Gregg Drilling Method: Rhino HSA

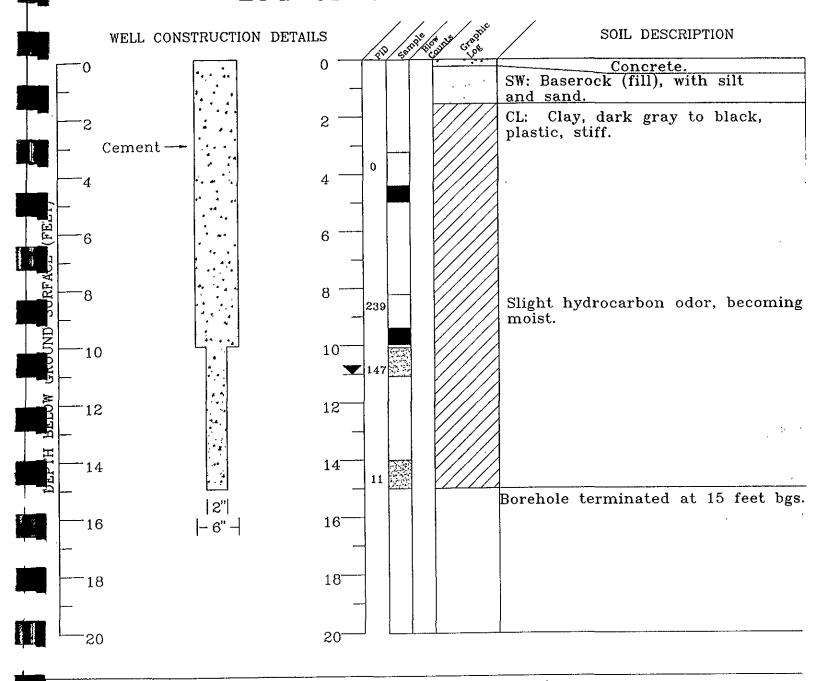
Driller: Ted, Bob

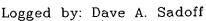
Sanitary Seal: Portland Cement Sampler Type: Split Spoon Total Boring Depth: 20 Feet



grab sample	— — uncertain
sieve sample	approximate
chemical analysis sample	certain
drill sample	CONTACTS:
□ potentiometric water level	NR no recovery
water level during drilling	ZZZ gradational
EXPLANATION	







Inspector: N/A Date: 7/23/96

Drilling Contractor: Gregg Drilling Method Rhino HSA Driller: Ted, Bob

Sanitary Seal: Portland Cement Sampler Type: Split Spoon

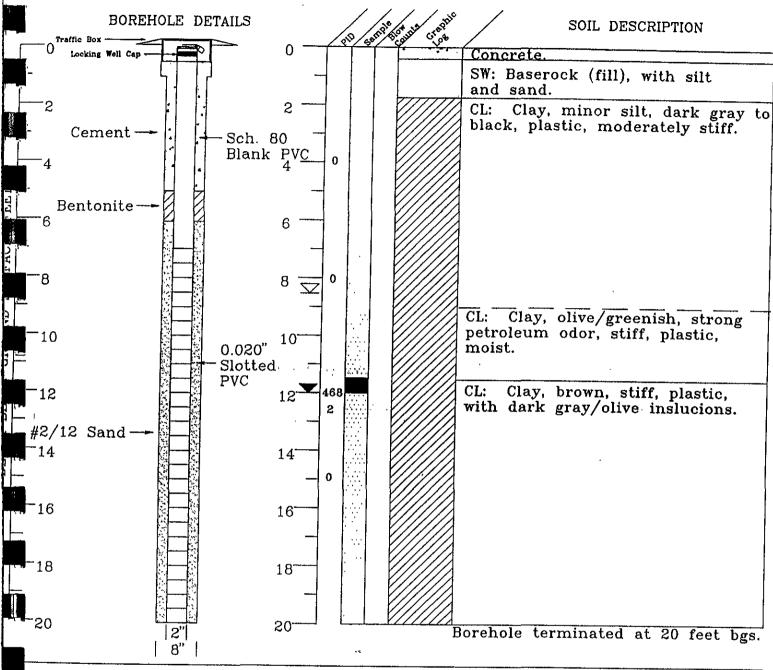
Total Boring Depth: 15 Feet



#### EXPLANATION ZZZ gradational water level during drilling no recovery CONTACTS: drill sample chemical analysis sample certain approximate sieve sample - - uncertain grab sample

APPENDIX D: LITHOLOGIC LOG OF BH3 PROJECT #079-417B DREISBACH ENTERPRISES 860 92nd AVENUE

OAKLAND, CALIFORNIA



ogged by: Dave A. Sadoff

hspector: N/A : 5/12/97

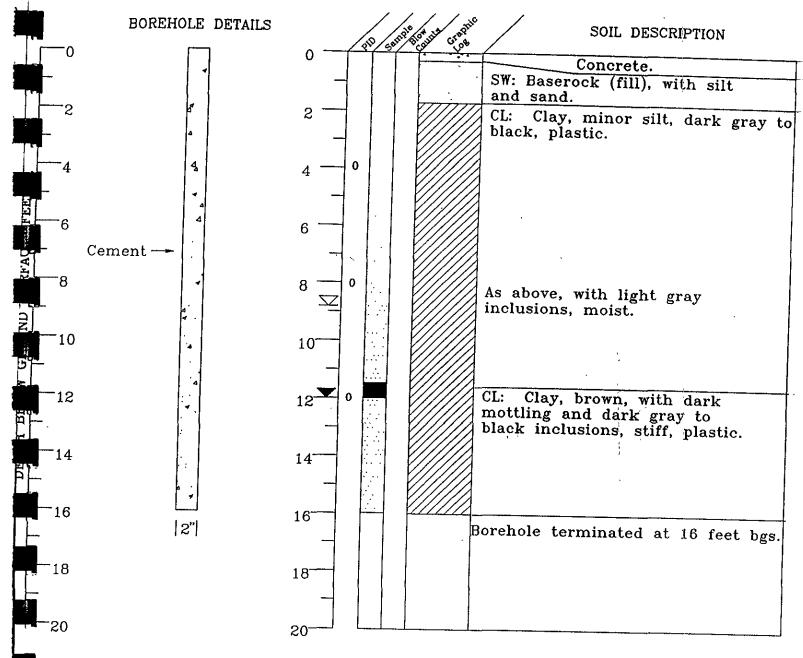
Drilling Contractor: Gregg Drilling Method: Rhino HSA Driller: Bob, Rich

Sanitary Seal: Portland Cement Sampler Type: Geoprobe Core Total Boring Depth: 20 Feet



EXPLANATION		
water level during drilling	777	gradational
potentiometric water level	NR	no recovery
drill sample	CONTA	CTS:
chemical analysis sample		certain
sieve sample		approximate
grab sample		uncertain

APPENDIX D: LITHOLOGIC LOG OF MW2 PROJECT #079-458B DREISBACH ENTERPRISES 860 92nd AVENUE OAKLAND, CALIFORNIA



egged by: Dave A. Sadoff

Inspector: N/A

Drilling Contractor: Gregg Drilling Method: Rhino HSA

Driller: Bob, Rich

Sanitary Seal: Portland Cement Sampler Type: Geoprobe Core Total Boring Depth: 16 Feet



EXPLANATION	
water level during drilling	gradational
potentiometric water level	NR no recovery
drill sample	CONTACTS:
chemical analysis sample	certain
sieve sample	approximate
grab sample	uncertain

APPENDIX D:
LITHOLOGIC LOG
OF BH7

PROJECT #079-458B

DREISBACH ENTERPRISES
860 92nd AVENUE
OAKLAND, CALIFORNIA