DB
9/8/89

SAFETY SPECIALISTS, Inc.
The Full Service Environmental, Health & Safety Corporation

P.O. Box 4420, Santa Clara, CA 95054
Telephone (408) 988-1111
Contractor's License No. 460905

August 31, 1989

Mr. Dennis Byrne
Alameda County Health Care Services Agency
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

Reference: Unlabeled Drum at 4543 Horton Street, Emeryville, CA
Safety Specialists, Inc., Project Number 530050

Dear Mr. Byrne:

Per our telephone discussion of this morning, I am enclosing documentation to aid your evaluation of the origin and probable contents of the subject drum.

A brief background on the probable origin of this drum is in order. Tank Excavators excavated and removed a 1000 gallon underground tank on July 8, 1988, and a 500 gallon underground tank on September 30, 1988. In each case, Safety Specialists, Inc., performed soil sampling, arranged for analysis and prepared a report of our findings. Reports were sent to Mr. Bob Smith, Tank Excavators, PO Box 8402, Santa Cruz, CA 95061.

On November 14, 1988, a monitoring well (MW) was installed on the north end of the former underground tank complex. A site plan showing MW location, a log of the soil boring and MW construction details are enclosed. Soil samples from depths of 5.5, 9.5 and 15.5 feet were analyzed for TPH/Diesel and BTEX distinctions. Chain of custody documentation and results of these analyses are also enclosed.

The zone between 5.5 and 11 feet appears to have some concentration of petroleum hydrocarbon. An analysis was performed to determine a weighted average TPH concentration in the cuttings stored in the drum, and determined a weighted average of 80 ppm. A copy of this analysis is also enclosed.

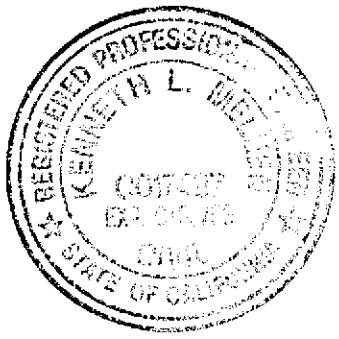
Based upon our analysis of this situation, the drum contents are considered non-hazardous and may be disposed of at a Class III landfill. Upon receipt of notification from Alameda County that the quarantine is lifted, we will arrange for drum pickup and disposal of contents within ten (10) days.

Should you need to discuss this matter in more detail, please contact me at (408) 988-1111.

Sincerely,

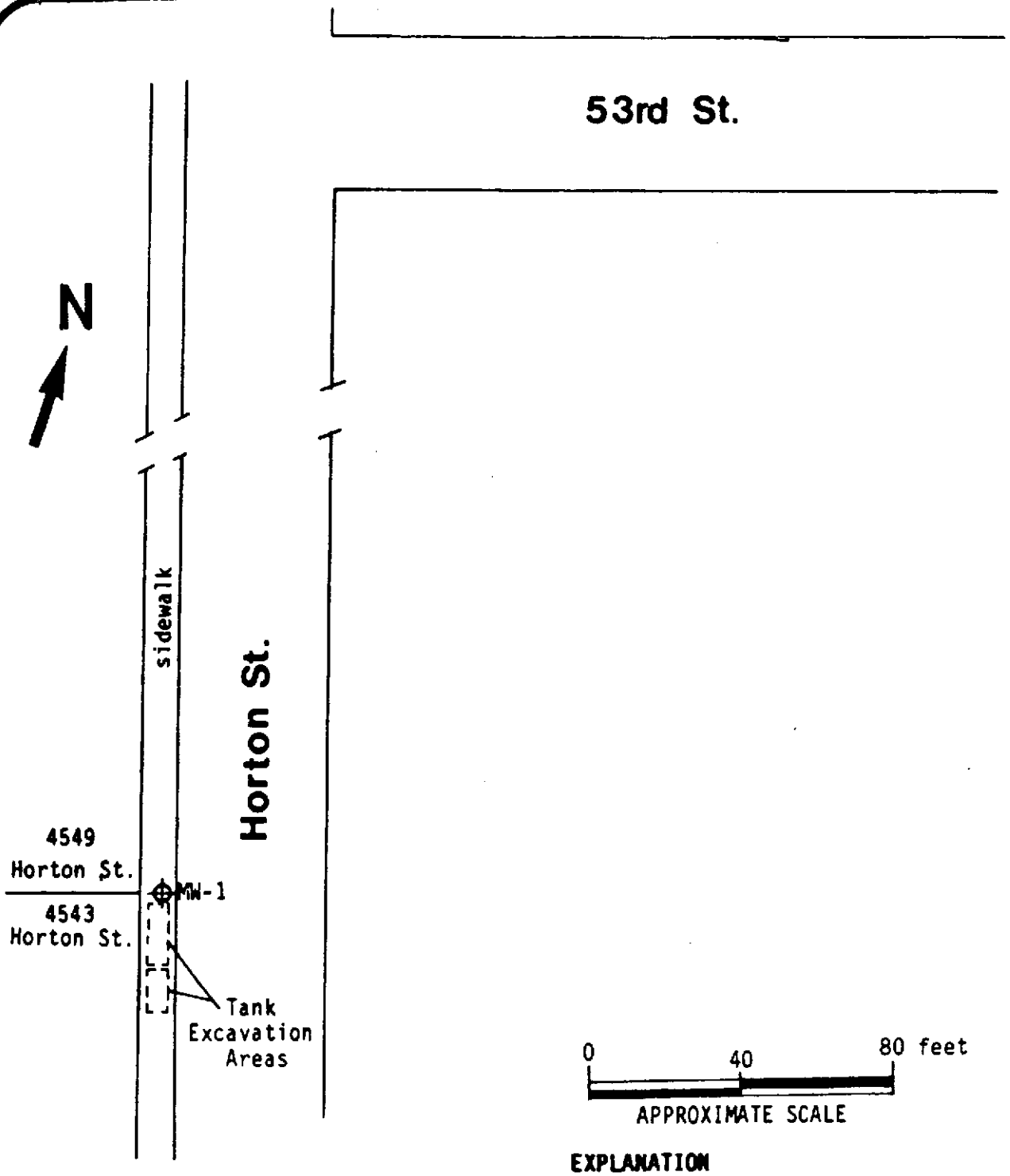
SAFETY SPECIALISTS, INC.

Kenneth L. Meleen, P.E.
Registered Civil Engineer
License No. C17487
License Expires 06/30/93



Enclosures

cc: Bob Smith Tank Excavators
Rifkin Realty Partners, Attn: Janice Freilinger



SAFETY SPECIALISTS INC.
SANTA CLARA, CA.

SITE PLAN
4543 Horton Street
Emeryville, California

Bob Smith, Tank Excavators

Figure No. 2

530050
Project No.

LOG OF EXPLORATORY BORING

Project No. 530050
Client: Bob Smith
By: RCP Date: 11/14/88

Boring No. MW-1
Page 1 of 2

TORVANE (TSF)	POCKET PENETROMETER (TSF)	PENETRATION (Blows/Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHOGRAPHIC COLUMN	DESCRIPTION
				1		CL	0-4½ ORANGE BROWN CLAY (CL); 15-20% fine gravel and coarse sand, damp to moist, stiff, no petroleum hydrocarbon (PHC) odor
				2			
				3			
				4			4½-6½ DARK BROWN TO BLACK CLAY (CL); trace to 5% fine to coarse sand, moist, stiff, moderate PHC odor
		14		5		CL	
		8					
		8		6			
				7		CL	6½-8½ BLUISH GREY CLAY (CL); some silt, wet, very stiff, strong PHC odor
				8			
				9		GC	8½-11 BLUISH GREY CLAYEY GRAVEL (GC); fine grained gravel, 10-15% fine to coarse sand, saturated, medium dense, strong PHC odor
		11	13:50 11/14 1988 @9½'	10			
		15					
		14		11		CL	11-13 BLUISH GREY CLAY (CL); 5-10% medium sand, saturated, very stiff, no PHC odor
				12			
				13			
				14		CL	13-17 BROWN CLAY (CL); some silt, trace coarse sand and fine gravel, wet, hard, no PHC odor
		5		15			
		7					
		14		16			
				17		ML	17-23 OLIVE BROWN SILT (ML); some clay, wet, very stiff, no PHC odor
				18			
				19			
		7		20			
		12					

KRM

REMARKS Boreholes constructed using a truck mounted CME-75 drilling rig with 8-inch outer diameter (O.D.) hollow-stem augers. Samples collected by driving a 2½-inch O.D. California modified split-spoon sampler using a 140 lb. hammer with a 30-inch drop.

SAFETY SPECIALISTS, Inc.

PLATE A

LOG OF EXPLORATORY BORING

Project No. 530050
Client: Bob Smith
By: RCP Date: 11/14/88

Boring No. MW-1
Page 2 of 2

TORVANE (TSF)	POCKET PENETROMETER (TSF)	PENETRATION (Blows/Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHOGRAPHIC COLUMN	DESCRIPTION
		10		21		ML	as above
				22			23-25½ LIGHT OLIVE BROWN CLAY (CL); some silt, wet, very stiff, no PHC odor
				23			
				24		CL	
		9		25			Sample hole backfilled with bentonite pellets from 24 to 25½ feet. Borehole terminated at 24 feet. Groundwater first encountered at 9½ feet; stabilized at 9½ feet. Borehole converted to monitoring well 11/14/88 by installing a 2-inch schedule 40 PVC casing.
		12					
		16		26			
				27			
				28			
				29			
				30			

REMARKS

SAFETY SPECIALISTS, Inc.

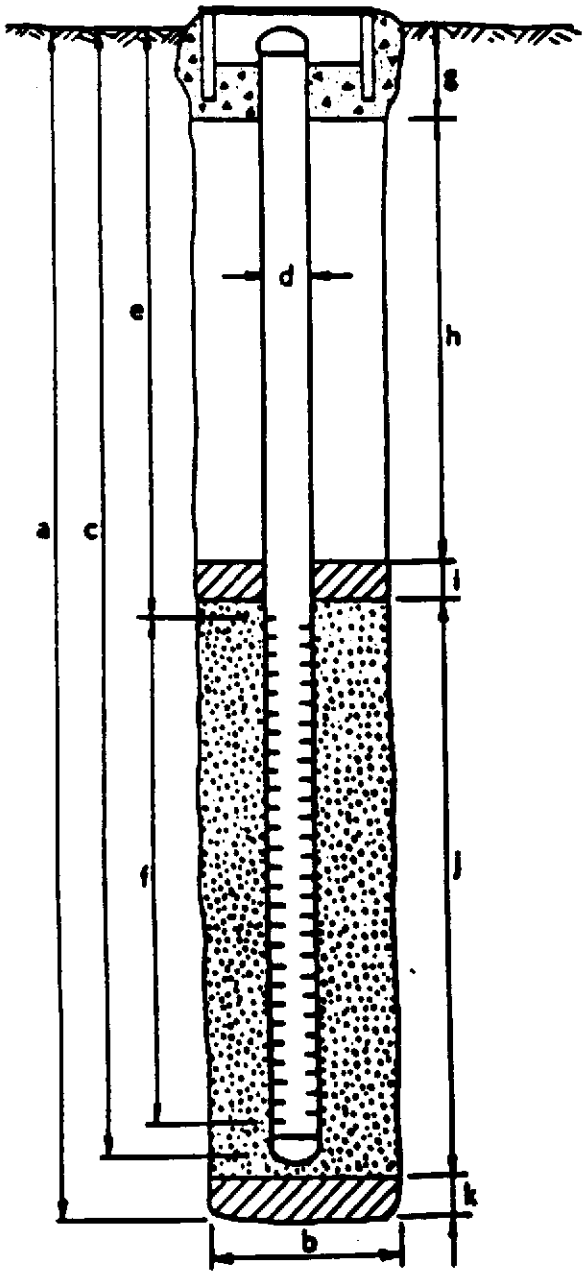
PLATE A (cont)

WELL DETAILS

PROJECT NUMBER 530050
PROJECT NAME Bob Smith/Emeryville
COUNTY Alameda
WELL PERMIT NO. not applicable

BORING / WELL NO. MW-1
TOP OF CASING ELEV. _____
GROUND SURFACE ELEV. _____
DATUM _____

C-5 vault box (Std.)



EXPLORATORY BORING

a. Total depth 25.5 ft.
b. Diameter 8.0 in.
Drilling method Hollow stem auger

WELL CONSTRUCTION

c. Casing length 22.0 ft.
Material Schedule # 40 PVC
d. Diameter 2.0 in.
e. Depth to top perforations 5.0 ft.
f. Perforated length 17.0 ft.
Perforated interval from 5.0 to 22.0 ft.
Perforation type Factory slot
Perforation size 0.010 inches
g. Surface seal 3.75 ft.
Seal material Type I-II Portland ~~Cement with 5% bentonite~~ powder
h. Backfill 0 ft.
Backfill material _____
i. Seal 0.25 ft.
Seal material Bentonite pellets
j. Gravel pack 4 to 24 ft. 20.0 ft.
Pack material Lonestar #3 sand
k. Bottom seal 1.5 ft.
Seal material Bentonite pellets

K/W1

PLATE B

TABLE 1

Summary of Laboratory Analytical Results

	Total Petroleum Hydrocarbons as Diesel	Benzene	Toluene	Ethylbenzene	Xylene
Soil MW-1 (5-5 1/2')	ND*	ND	ND	ND	ND
Soil MW-1 (9-9 1/2')	370 ppm**	ND	13 ppm	ND	22 ppm
Soil MW-1 (15-15 1/2')	ND	ND	ND	ND	ND
Water MW-1	7400 ppb+	53 ppb	27 ppb	11 ppb	46 ppb

* ND = below laboratory detection limit

** ppm = parts per million

+ ppb = parts per billion

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CHAIN OF SAMPLE CUSTODY RECORD

Collector: C. Payton Date Sampled: 11/14/88 Time: 12 - 3 pm
Location of Sampling: 4549 Horton St. Emeryville

Project Number: 530050 Survey Number: E314 - 88
Sample Type: SOIL
Container Type and Condition: BRASS LINER / sealed w/ aluminum foil + plastic endcaps
Contract Laboratory Record/Name: Firemans Fund / Petaluma

Sample ID	Field Information
MW-1 5-5½	soil Sample from boring of Monitoring Well MW-1 at 5-5½ feet
MW-1 9-9½	" " " " " " " " 9-9½ "
MW-1 15-15½	" " " " " " " " 15-15½ "

Analysis Requested: All 3 samples analyzed seperately using EPA methods ~~5030 / 8015 / 8020~~ 3550 / 8015 / 8020 TPH Diesel plus BTEX

Results Needed By: 5 DAY RUSH 11/23/88

Travel Blank:	☐ Yes ☒ No	Travel Blank to be Analyzed Separately:	☐ Yes ☒ No
Duplicate Samples:	☐ Yes ☒ No	Duplicates to be Analyzed Separately:	☐ Yes ☒ No
Field Blank:	☐ Yes ☒ No	Field Blank to be Analyzed Separately:	☐ Yes ☒ No
Background Soil Sample:	☐ Yes ☒ No	Background Soil Sample to be Analyzed Separately:	☐ Yes ☒ No

Chain of Custody:

1. Curtis Payton (Field Personnel) — 11/16/88 (Date)
2. Bill Rogers (Courier) — 11/16 (Date)
3. _____ (Lab) — _____ (Date)

FIREMAN'S FUND
INSURANCE COMPANIES
Environmental Laboratory
3700 Lakeville Highway
Petaluma, CA 94952
800-FFIC-LAB

ENVIRONMENTAL LABORATORY

Curtis Payton
Safety Specialists, Inc.
Environmental Department
3060 Raymond Street
Santa Clara, CA 95054

Client Code: SSPE23
Survey # E314-88
Project/Release # PROJ. 530050

L A B O R A T O R Y R E S U L T S

Date Extracted: 11/17/88
Date Analyzed: 11/17/88

Laboratory Job No.: 885439
Date Received: 11/17/88
Date Reported: 11/22/88

ASSAY:TPH/DIESEL EPA 3550/8015
MATRIX:SOIL

LABNO	SMPLNO-ID	RESULTS	DET.LIM
80388	MW5		
	DIESEL	ND	10 mg/kg
80389	MW9		
	DIESEL	370 mg/kg	30 mg/kg
80390	MW15		
	DIESEL	ND	10 mg/kg

#=Detected below accurate method quantitation limit(below 3.3-det.lim.).
ANALYST:JEAN M.BONITE

THIS REPORT HAS BEEN REVIEWED
AND APPROVED FOR RELEASE.

FIREMAN'S FUND
INSURANCE COMPANIES
Environmental Laboratory
3700 Lakeville Highway
Petaluma, CA 94952
800-FFIC-LAB

ENVIRONMENTAL LABORATORY

L A B O R A T O R Y R E S U L T S

Laboratory Job No.: 885439
Date Extracted: 11/18/88
Date Received: 11/17/88
Date Analyzed: 11/19/88
Date Reported: 11/22/88

ASSAY:BTEX EPA 5020/8020
MATRIX:SOIL

LABNO SMPLNO-ID	RESULTS	DET.LIM
80388 MW-1-5-5.5		
BENZENE	ND	0.040 mg/kg
TOLUENE	ND	0.040 mg/kg
ETHYLBENZENE	ND	0.040 mg/kg
XYLENE	ND	0.040 mg/kg
80389 MW-1-9-9.5		
BENZENE	ND	0.39 mg/kg
TOLUENE	13 mg/kg	0.39 mg/kg
ETHYLBENZENE	ND	0.39 mg/kg
XYLENE	22 mg/kg	0.39 mg/kg
80390 MW-1-15-15.5		
BENZENE	ND	0.040 mg/kg
TOLUENE	ND	0.040 mg/kg
ETHYLBENZENE	ND	0.040 mg/kg
XYLENE	ND	0.040 mg/kg

#=Detected below accurate method quantitation limit(below 3.3-det.lim.).
ANALYST:ROBERT REMLINGER