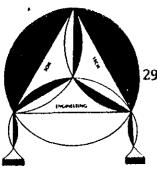
SOIL TECH ENGINEERING



Soil, Foundation and Geological Engineers

298 BROKAW ROAD, SANTA CLARA, CA 95050 # (408) 496-0265 OR (408) 496-0266

January 4, 1993

Mr. Edwin Spencer 880 Columbine Court Danville, California 94526

Dear Mr. Spencer:

Please send a copy of Soil Tech Engineering's report entitled "Soil Sampling at the Former Underground Tanks Storage Area, Livermore Honda Property" by register mail to the following regulatory agencies:

Regional Water Quality Control Board 2101 Webster Street, Suite 500 Oakland, California 94612

City of Livermore Fire Department 4550 East Avenue Livermore, California 94550 ATTENTION: MR. ERIC R. CARLSON

Alameda County Health Care Service Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621
ATTENTION: MR. JEFF SHAPIRO

If you have any questions, please feel free to contact our office at your convenience.

Sincerely,

SOIL TECH ENGINEERING, INC.

Dianna Nguyen

SOIL SAMPLING AT THE FORMER
UNDERGROUND TANKS STORAGE AREA
LIVERMORE HONDA PROPERTY
LOCATED AT 3800 FIRST STREET
LIVERMORE, CALIFORNIA
JANUARY 4, 1993

PREPARED FOR:

MR. EDWIN SPENCER

880 COLUMBINE COURT

DANVILLE, CALIFORNIA 94526

BY:

SOIL TECH ENGINEERING, INC.
298 BROKAW ROAD
SANTA CLARA, CALIFORNIA 95050

SOIL TECH ENGINEERING, INC.

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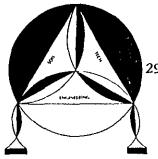
SOIL TECH ENGINEERING, INC.

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APPENDIX "B"

PRIORITY ENVIRONMENTAL LABS REPORT AND CHAIN-OF-CUSTODY





Soil, Foundation and Geological Engineers

298 BROKAW ROAD, SANTA CLARA, CA 95050 ■ (408) 496-0265 OR (408) 496-0266

January 4, 1993

File No. 11-92-528-ST

Mr. Edwin Spencer 880 Columbine Court Danville, California 94526

SUBJECT: SOIL SAMPLING AT THE FORMER UNDERGROUND TANKS

STORAGE AREA, LIVERMORE HONDA PROPERTY

Located at 3800 First Street, in

Livermore, California

Dear Mr. Spencer:

Per your request and authorization, our firm conducted soil sampling service at the former underground tanks complex at the above-referenced site (Figure 1). The sampling and analytical testing were conducted in accordance with state and local agencies' standard procedures. The soil sampling was conducted under the supervision of Mr. Jeff Shapiro with the Alameda County Health Care Services Agency--Department of Environmental Health (ACHCSA--DEH) and Mr. Eric R. Carlson the City of Livermore Fire Department (CLFD).

FIELD ACTIVITIES:

On December 22, 1992, after the excavation and removal of three (one 550 gallon waste oil, one 550 gallon gasoline and one 2,000 gallons gasoline) underground storage tanks by Alpha Geo Services, and transported by Dexanna, Ltd. to Erickson, Inc. facility in Richmond, four discrete soil samples were collected by Soil Tech Engineering, Inc. (STE) engineer. The soil samples were collected from the tank excavation areas at the depth of approximately two feet below tank. The soil samples from beneath gasoline tanks were labeled as G-1-10, G-2-11 and G-3-11. The soil sample from beneath waste oil tank was labeled as WO-1-9. Figure 2 shows the approximate samples locations, and the depth of samples and condition of the tanks are summarized in Table 2.

The soil samples were collected in a clean brass tube with the aide of backhoe by moving aside slough materials and retrieving native materials from the specified and measured depth. Approximately six-inches of soil was removed from the top of the backhoe bucket with a shovel, and a clean two-inch diameter brass tube sampler was driven into the soil. Immediately upon sampling, the tube ends were covered with aluminum foil and plastic caps, sealed, labeled and placed in a cold ice chest for transport to Priority Environmental Labs, in Milpitas, with the chain-of-custody.

LABORATORY ANALYSIS:

The soil samples from the gasoline tanks were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg), Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX). Soil sample from the waste oil tank was analyzed for TPHd, TPHg, BTEX, Total Oil and Grease (TOG), Organic Compounds (EPA Method 8010), Cadmium, Chromium,

Lead, Nickel and Zinc. The results of all soil analysis are summarized in Table 1. The laboratory test results with the chain-of-custody are attached in Appendix "B".

SOIL ANALYTICAL RESULTS:

No TPHg and BTEX were detected in the soil samples G-2-11 and G-3-11. Moderate levels of TPHg and BTEX were detected in the soil sample G-1-10. A moderate level of TOG [96 milligrams per kilogram (mg/Kg)] was detected in the waste oil sample WO-1-9, and low levels of TPHg, Benzene, Toluene, Ethylbenzene and Total Xylenes.

CONCLUSION AND RECOMMENDATION:

The presence of low levels of BTEX in the tank excavation area appears to be due to inadvertent spillage. The presence of moderate level of TPHg and TOG warrants further investigation per existing Alameda County Health Department Fuel Leak Requirements. STE will be happy to prepare a work plan for further investigation as required by the local regulatory agency (ACHCSA-DEH) per your authorization.

This report must be submitted to Alameda County Health Care Services Agency--Department of Environmental Health (ACHCSA--DEH) and California Regional Water Quality Control Board (CRWQCB).

T.TMTTATIONS:

This report was prepared in accordance with the currently accepted standards for environmental investigations. The contents of this report reflect the conditions of the subject site during the sampling. No other warranties, expressed or implied, as to the professional advice provided are made.

It has been our pleasure to be of service to you on this project. If you have any questions or require additional information, please feel free to contact our office at your convenience.

Sincerely,

SOIL TECH ENGINEERING, INC.

NOORODDIN AMELI PROJECT ENGINEER

FRANK HAMEDI-FARD GENERAL MANAGER

LAWRENCE KOO, P. E. C. E. #34928

TABLE 1 SUMMARY OF SOIL ANALYSIS RESULTS IN MILLIGRAM PER KILOGRAMS (mg/Kg)

I. TPHg, BTEX and TOG Results from Gasoline Tank Area

Date	Sample #	Depth feet	ТРНд	В	Т	Е	x	TOG
12/22/92	G-1-10	10	98	0.03	0.15	0.17	0.47	NA
 	G-2-11	11	ND	ND	ND	ND	ND	NA
	G-3-11	11	NA	ND	ND	ND	ND	NA

II. TPHd, BTEX, TOG and VOC's Results from Waste Oil Tank Area

Date	Sample #	Depth feet	- 1 1 1		T	Е	х	TOG	voc
12/22/92	WO-1-9	9	1.6	ND	0.0052	0.0054	0.052	95	ND

TPHd - Total Petroleum Hydrocarbons as diesel

TPHg - Total Petroleum Hydrocarbons as gasoline

BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes

TOG - Total Oil and Grease

VOC - Volatile Organic Compounds (EPA Method 8010)

NA - Not Analyzed

ND - Not Detected (Below Laboratory Detection Limit)

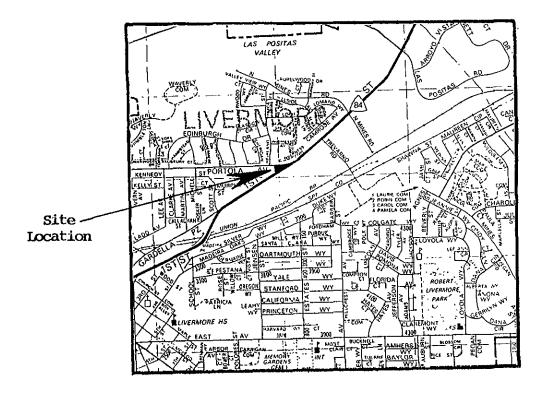
TABLE 2
FIELD OBSERVATION AT THE TANKS

Type of Tank	Size (gallon)	Piping			
Waste oil	550	Single Wall Steel	Single Wall Steel		
Condition		No Hole Observed	No Hole Observed		

Type of Tank	Size (gallon)	Piping	
Gasoline	550	Single Wall Steel	Single Wall Steel
Condition		No Hole Observed	No Hole Observed

Type of Tank	Size (gallon)	Construction	Piping			
Gasoline	2,000	Single Wall Steel	Single Wall Steel			
Condition		No Hole Observed	No Hole Observed			

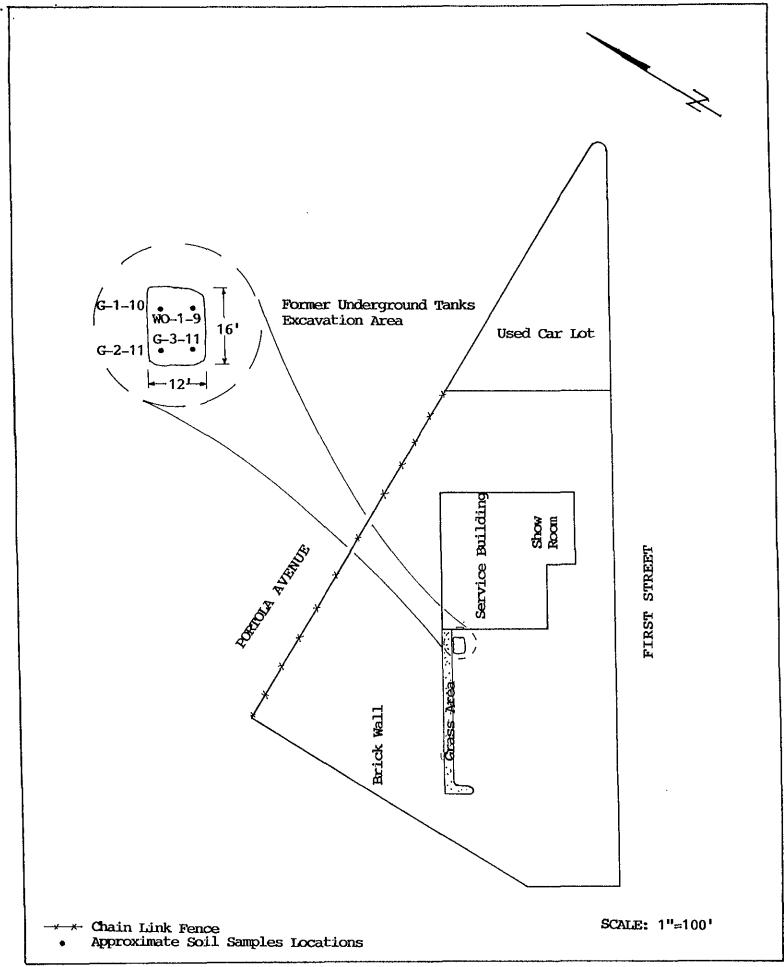
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Thomas Brothers Map 1993 Edition San Francisco, Alameda, and Contra Costa Counties

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A P P E N D I X "B"



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

December 28, 1992

PEL # 9212049

SOIL TECH ENGINEERING

Attn: Noori Ameli

Re: Four soil samples for Gasoline/BTEX, Diesel, and Oil &

Grease analyses.

Project name: 3800 1st Sr., -Livermore

Project number: 11--92-528-ST

Date sampled: Dec 22, 1992 Date extracted: Dec 24-25, 1992 Date submitted: Dec 23, 1992 Date analyzed: Dec 24-25, 1992

RESULTS:

SAMPLE I.D.	Gasoline (mg/Kg)	Diesel (mg/Kg)	Benzene (ug/Kg)		Benzene	Total Xylenes (ug/Kg)	Oil & Grease (mg/Kg)
G-1-10 G-2-11 G-3-11 WO-1-9	98 N.D. N.D. 1.6	 N.D.	30 N.D. N.D. N.D.	150 N.D. N.D. 5.2	170 N.D. N.D. 5.4	470 N.D. N.D. 52	 95
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	85.4%	96.8%	83.1%	90.2%	88.6%	81.0%	coup quic 490°
Duplicate Spiked Recovery	97.6%	93.1%	90.8%	101.3%	97.5%	104.7%	map disa tind
Detection limit	1.0	1.0	5.0	5.0	5.0	5.0	50
Method of Analysis	5030 / 8015	3550 / 8015	8020	8020	8020	8020	5520 D & F

7/15/94 Pervictor at Priority labs, metal analysis is usually sent to Superior Analytical labs for analysis. He has results for the sill sto permission of F. Hamadi to fax me results.

David Duong Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

December 28, 1992

PEL # 9212049

SOIL TECH ENGINEERING

Project name :3800 1st St. -Livermore

Attn: Noori Ameli Project number: 11-92-528-ST

Sample I.D.: WO-1-9

Date Sampled: Dec 22, 1992

Date Analyzed: Dec 24, 1992

Method of Analysis: EPA 8010

Date Submitted: Dec 23, 1992

Detection limit: 5.0 ug/Kg

COMPOUND NAME	CONCENTRATION (ug/Kg)	SPIKE RECOVERY (%)
	(ug/Ng /	
Chloromethane	N.D.	
Vinyl Chloride	N.D.	83.9
Bromomethane	N.D.	
Chloroethane	N.D.	
Trichlorofluoromethane	N.D.	
1,1-Dichloroethene	N.D.	
Methylene Chloride	N.D.	87.8
1,2-Dichloroethene (TOTAL)	N.D.	
1,1-Dichloroethane	N.D.	
Chloroform	N.D.	
1,1,1-Trichloroethane	N.D.	100 1
Carbon Tetrachloride	N.D.	102.1
1,2-Dichloroethane	N.D.	85.2
Trichloroethene	N.D.	85.2
1,2-Dichloropropane	N.D.	
Bromodichloromethane	N.D.	
2-Chloroethylvinylether	N.D.	
Trans-1,3-Dichloropropene	N.D.	
Cis-1,3-Dichloropropene	N.D.	_ <u></u>
1,1,2-Trichloroethane	N.D.	00.7
Tetrachloroethene	N.D.	90.7
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.	

David Duong Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

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SOIL TECH ENGINEERING

Soil, Foundation and Geological Engineers

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