

File No. 8-93-558-ST

SOIL SAMPLING BELOW REMOVED
UNDERGROUND STORAGE TANK
FROM THE PROPERTY
LOCATED AT 2951 HIGH STREET
OAKLAND, CALIFORNIA
SEPTEMBER 30, 1993

PREPARED FOR:
MR. MOHAMMAD A. MASHHOON
ZIMA CENTER CORPORATION
2951 HIGH STREET
OAKLAND, CALIFORNIA 94619

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

SOIL TECH ENGINEERING, INC.

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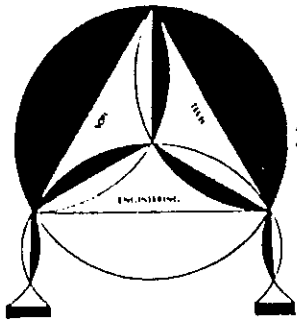
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ARGON MOBILE LABS ANALYTICAL REPORT AND CHAIN-OF-CUSTODY



SOIL TECH ENGINEERING

Soil, Foundation and Geological Engineers

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

September 30, 1993

File No. 8-93-558-ST

Mr. Mohammad Mashhoon
Zima Center Corporation
2951 High Street
Oakland, California 94619

SUBJECT: SOIL SAMPLING BELOW REMOVED UNDERGROUND
STORAGE TANK FROM THE PROPERTY
Located at 2951 High Street, in
Oakland, California

Dear Mr. Mashhoon:

Per your request and authorization, our firm conducted soil sampling services below the removed underground tank at the above-referenced site (Figure 1). The sampling and analytical testing were conducted in accordance with state and local agencies' standard procedures. In addition, the soil sampling was conducted under the supervision of Mr. Barney Chan with the Alameda County Health Care Services Agency--Department Environmental Health (ACHCSA--DEH).

Suliat Shari

FIELD ACTIVITIES:

On September 13, 1993, after the excavation and removal of one 300 gallons waste oil underground storage tank by Alpha Geo Services, and transported by H&H Ship Service Company to their facility in San Francisco, total of two discrete soil samples were

collected by Soil Tech Engineering, Inc. (STE) engineer. The soil samples were collected from the tank excavation area at the depth of approximately two feet below the tank. The soil samples from beneath the tank was labeled as B-1-9. In addition, per request of Mr. Barney Chan with the ACHCSA-DEH, one soil sample was collected from stockpile and labeled as ST-1. Figure 2 shows the approximate soil samples location, and the field observation of the tank is summarized in Table 2.

The soil samples were collected in a clean brass tube with the aid 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 soil sampling, the tube ends were covered with aluminum foil, plastic caps and, sealed. The soil samples were labeled and placed in a cold ice chest for transport to Argon Mobile Labs, in Ceres, with the chain-of-custody.

LABORATORY ANALYSIS:

The soil samples were analyzed for Total Petroleum Hydrocarbons as diesel and gasoline (TPHd and TPHg), Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX), Total Oil & Grease (TOG), Halogenated Volatile Organics (EPA Method 8010), Semi-Volatile Organics (EPA Method 8270) and Cadmium, Chromium, Lead, Nickel and Zinc (CAM 5). The results of soil samples analysis are summarized in Table

1. The laboratory test results with the chain-of-custody are attached in Appendix "C".

SOIL ANALYTICAL RESULTS:

Total Petroleum Hydrocarbons as diesel (TPHd) and Semi-Volatile Organics were below detection limit in the two soil samples.

Soil sample B-1-9 detected TPHg at 40 parts per million (ppm), Benzene at 0.13 ppm, Toluene at 0.33 ppm, Ethylbenzene at 0.018, Total Xylenes at 0.50 ppm, TOG at 120 ppm. The soil sample was also detected Chromium at 130 ppm, Lead at 10 ppm, Nickel at 280 ppm and Zinc at 100; however, Cadmium was not detected in the soil sample. Only two Halogenated Volatile Organics (1,1,2,2-Tetrachloroethane at 0.091 ppm and 1,1,2-Trichloroethane at 0.034 ppm) were detected in soil sample B-1-9.

Soil sample ST-1 detected TPHg at 48 ppm, Benzene at 0.65 ppm, Toluene at 1.8 ppm, Ethylbenzene at 0.38 ppm, Total Xylenes at 2.5 ppm, TOG 70 ppm, Chromium at 130 ppm, Lead at 10 ppm, Nickel at 240 ppm and Zinc at 83 ppm, but Cadmium was not detected in the soil sample. Only two Halogenated Volatile Organics (1,1,2,2-Tetrachloroethane at 0.036 ppm and 1,1,2-Trichloroethane at 0.085 ppm) were detected in the soil sample.

CONCLUSION:

The analytical results detected low levels of TPHg, BTEX and TOG in both soil samples, and low level of metals (CAM 5) were also

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detected in the soil samples. We believe that additional investigation maybe necessary to define the extent of contamination in the soil and groundwater.

This report must be submitted to ACHCSA--DEH and California Regional Water Quality Control Board (CRWQCB).

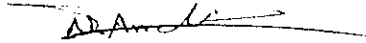
LIMITATIONS:


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.


NOORI AMELI
PROJECT ENGINEER


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


FRANK HAMEDI-FARD
GENERAL MANAGER

SOIL TECH ENGINEERING, INC.

File No. 8-93-558-ST

A P P E N D I X "A"

SOIL TECH ENGINEERING, INC.

TABLE 1
SUMMARY OF SOIL ANALYSIS RESULTS
IN
PARTS PER MILLION (ppm)

1. TPHd, TPHg and BTEX Results

Date	Sample Number	Depth feet	TPHd	TPHg	B	T	E	X
9/13/93	B-1-9	9	ND	40	0.13	0.33	0.018	0.50
	ST-1	Stock pile	ND	48	0.65	1.8	0.38	2.5

2. TOG and Halogenated and Semi-Volatile Organics Results

Date	Sample No.	TOG	EPA 8010	EPA 8270	
9/13/93	B-1-9	120	1,1,2,2-Tetrachloroethane	0.091	ND
			1,1,2-Trichloroethane	0.034	
	ST-1	70	1,1,2,2-Tetrachloroethane	0.036	ND
			1,1,2-Trichloroethane	0.085	

TABLE 1 CONT'D
SUMMARY OF SOIL ANALYSIS RESULTS
IN
PARTS PER MILLION (ppm)

3. Cadmium, Chromium, Lead, Nickel and Zinc Results

Date	Sample Number	Cd	Cr	Pb	Ni	Zn
9/13/93	B-1-9	ND	130	10	280	100
	ST-1	ND	130	10	240	83

TPHg - Total Petroleum Hydrocarbons as gasoline
BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes
Cd - Cadmium
Cr - Chromium
Pb - Lead
Ni - Nickel
Zn - Zinc
NA - Not Analyzed
ND - Not Detected (Below Laboratory Detection Limit)

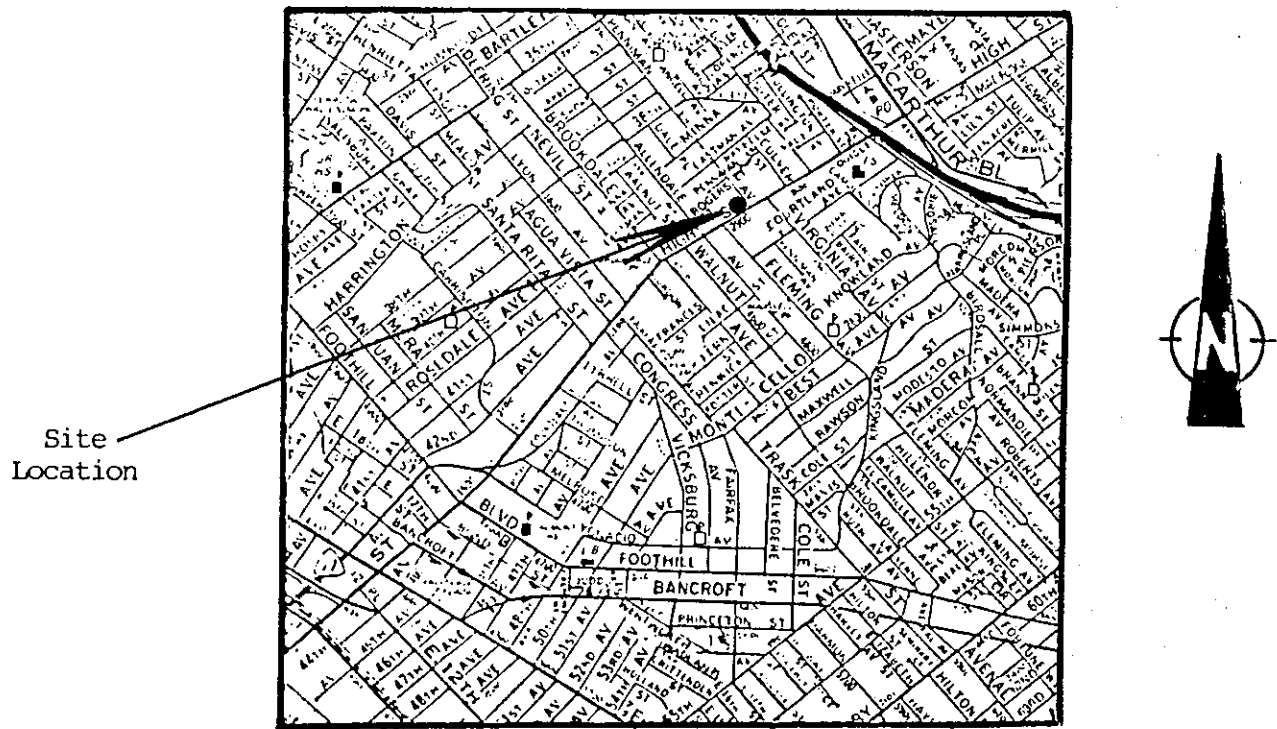
TABLE 2
FIELD OBSERVATION OF THE TANK

Type of Tank	Size (gallon)	Construction	Piping
Waste Oil	300	Single Wall Steel	No Piping
Condition		Holes Was Observed	No Piping

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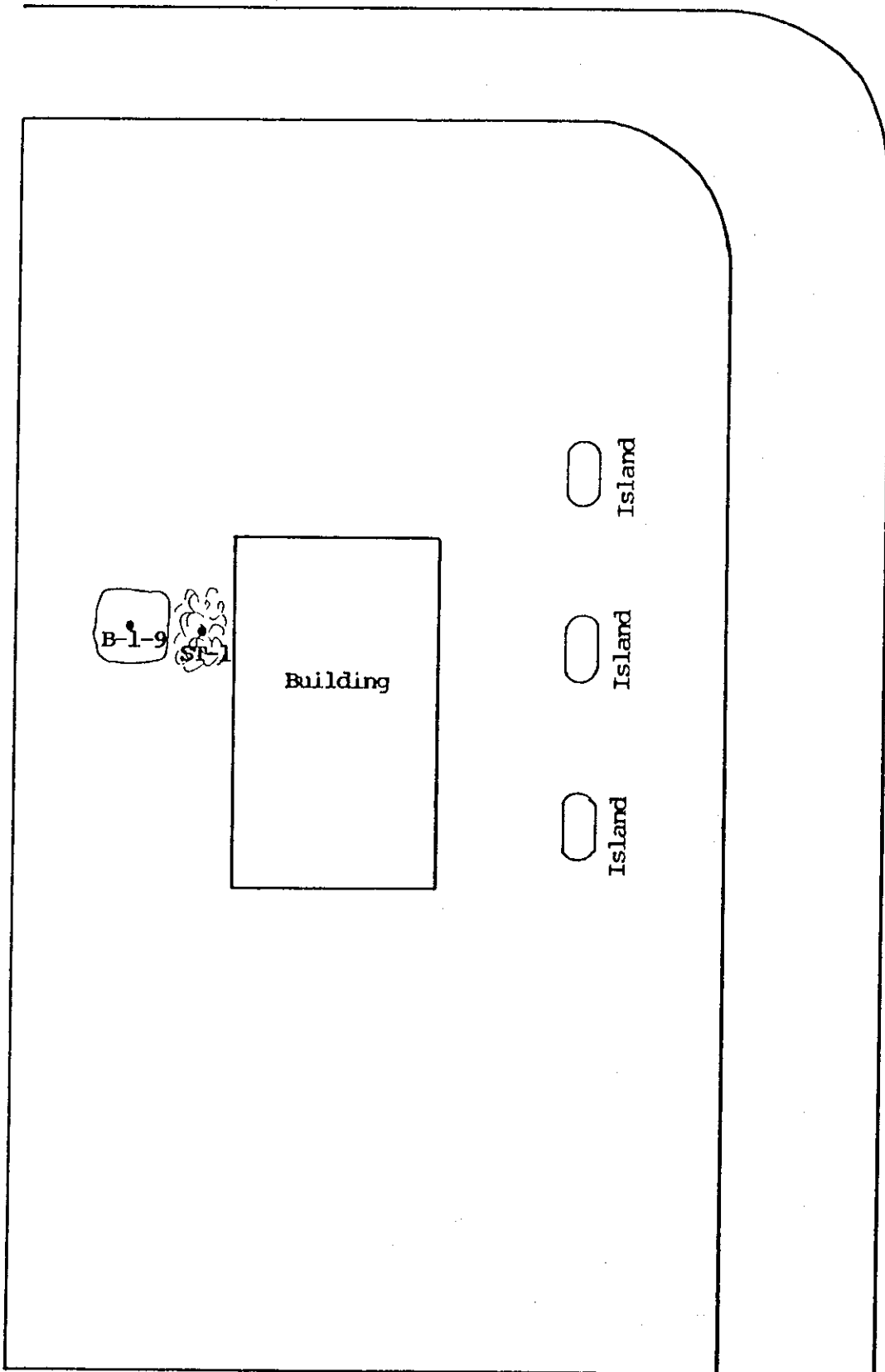
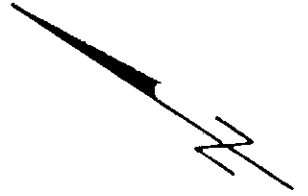
A P P E N D I X "B"

SOIL TECH ENGINEERING, INC.



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

PENNIMAN AVENUE



• Soil Sampling Location

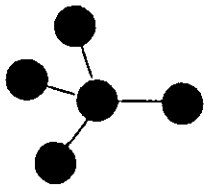
SCALE: 1"=20'

Figure 2

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A P P E N D I X "C"

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Argon Mobile Labs

3008 McKittrick Ct., Suite N • Ceres, CA 95307 • (209) 537-7836

SOIL TECH ENGINEERING, INC.
298 Brokaw Rd
Santa Clara, CA 95050

Date Sampled: 09/13/93
Date Received: 09/15/93
Date Reported: 09/26/93

Project ID: 8-93-558-ST
Sample ID: B-1-9

Lab Number: T309101
Matrix: Soil

TPH-gas/BTXE

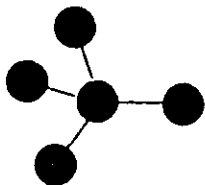
ANALYTE	Detection Limit ppm	Sample Results ppm
Total Petroleum Hydrocarbons as Gasoline	10	40
Benzene	0.050	0.13
Toluene	0.050	0.33
Xylenes	0.050	0.50
Ethylbenzene	0.050	0.018

QA/QC: Blank is none detected.
2.4% Duplicate Deviation

Note: Analysis was performed using EPA methods 5030/8015/8020
ppm = mg/Kg.

ARGON MOBILE LABS

Hiram Cueto
Hiram Cueto
Lab Director



Argon Mobile Labs

3008 McKittrick Ct., Suite N • Ceres, CA 95307 • (209) 537-7836

SOIL TECH ENGINEERING, INC.
298 Brokaw Rd.
Santa Clara, CA 95050

Date Sampled: 09/13/93
Date Received: 09/15/93
Date Reported: 09/27/93

Project ID: 8-93-558-ST

Matrix: Soil

TOTAL OIL & GREASE

Sample Number -----	Sample Description -----	Detection Limit ----- ppm	Gravimetric Waste Oil as Petroleum Oil ----- ppm
T309101	B-1-9	50	120

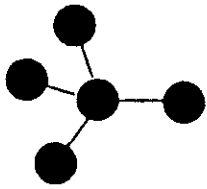
QA/QC: Freon blank is none detected.
90% Spike Recovery (T309091)

Note: Analysis was performed by standard EPA methods 3550/5520
ppm = mg/Kg

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Hiram Cueto

Hiram Cueto
Lab Director



Argon Mobile Labs

3008 McKittrick Ct., Suite N • Ceres, CA 95307 • (209) 537-7836

SOIL TECH ENGINEERING, INC
298 Brokaw Rd.
Santa Clara CA. 95050

Date Sampled: 09/13/93
Date Received: 09/15/93
Date Reported: 09/21/93

Project ID: 8-93-558-ST

Matrix: Soil

Sample Number -----	Sample Description -----	TPH-Diesel	Total Petroleum
		Detection Limit ----- ppm	Hydrocarbons as Diesel ----- ppm
T309101	B-1-9	5.0	<5.0

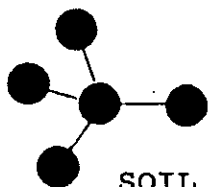
QA/QC: Blank is none detected.
113% Spike Recovery (T309151)
10.2% Duplicate Deviation

Note: Analysis was performed by EPA methods 3550/TPH-LUFT
ppm = mg/Kg

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Lab Director



Argon Mobile Labs

3008 McKittrick Ct., Suite N • Ceres, CA 95307 • (209) 537-7836

SOIL TECH ENGINEERING, INC.
298 Brokaw Rd.
Santa Clara, CA 95050

Date Sampled: 09/13/93
Date Received: 09/15/93
Date Analyzed: 09/21/93

Project ID: 8-93-558-ST
Sample ID: B-1-9

Lab No: T309101
Matrix: Soil

8010 Halogenated Volatile Organics

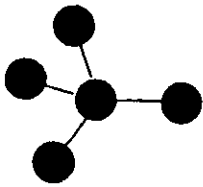
	Det. Lim. (ppm)		Results (ppm)
Bromodichloromethane -----	0.0010	-----	ND
Bromoform -----	0.0020	-----	ND
Bromomethane -----	0.0008	-----	ND
Carbon Tetrachloride -----	0.0012	-----	ND
Chlorobenzene -----	0.0025	-----	ND
Chloroethane -----	0.0052	-----	ND
Chloroform -----	0.0005	-----	ND
2-Chloroethylvinyl ether -----	0.0013	-----	ND
Chloromethane -----	0.0008	-----	ND
Dibromochloromethane -----	0.0009	-----	ND
Dibromomethane -----	0.0009	-----	ND
1,2-Dichlorobenzene -----	0.0015	-----	ND
1,3-Dichlorobenzene -----	0.0032	-----	ND
1,4-Dichlorobenzene -----	0.0024	-----	ND
Dichlorodifluoromethane -----	0.0020	-----	ND
1,1-Dichloroethane -----	0.0007	-----	ND
1,2-Dichloroethane -----	0.0003	-----	ND
1,1-Dichloroethylene -----	0.0013	-----	ND
t-1,2-Dichloroethylene -----	0.0010	-----	ND
Dichloromethane -----	0.0050	-----	ND
1,2-Dichloropropane -----	0.0040	-----	ND
t-1,3-Dichloropropylene -----	0.0034	-----	ND
1,1,2,2-Tetrachloroethane -----	0.0003	-----	0.091
1,1,1,2-Tetrachloroethane -----	0.0003	-----	ND
Tetrachloroethylene -----	0.0003	-----	ND
1,1,1-Trichloroethane -----	0.0003	-----	ND
1,1,2-Trichloroethane -----	0.0002	-----	0.034
Trichloroethylene -----	0.0012	-----	ND
Trichlorofluoromethane -----	0.0030	-----	ND
Trichloropropane -----	0.0030	-----	ND
Vinyl Chloride -----	0.0018	-----	ND

QA/QC: 100% Surrogate Spike Recovery 4-Bromofluorobenzene
Note: ppm = mg/Kg

Argon Mobile Labs

Hiram Cueto

Hiram Cueto
Lab Director



Argon Mobile Labs

3008 McKittrick Ct., Suite N • Ceres, CA 95307 • (209) 537-7836

SOIL TECH ENGINEERING, INC.
298 Brokaw Rd.
Santa Clara, CA 95050

Date Sampled: 09/13/93
Date Received: 09/15/93
Date Reported: 09/22/93

METALS, CAM 5
EPA Method 6010

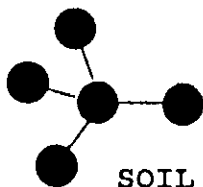
Project ID: 8-93-558-ST
Sample ID: B-1-9

Matrix: Soil
Lab No: T309101

Name	Amount	Detection Limit	Units (ppm)
Cadmium (Cd)	ND	0.25	mg/Kg
Chromium (Cr)	130	0.25	mg/Kg
Lead (Pb)	10	0.25	mg/Kg
Nickel (Ni)	280	1.0	mg/Kg
Zinc (Zn)	100	0.25	mg/Kg

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Hiram Cueto
Hiram Cueto
Lab Director



Argon Mobile Labs

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SOIL TECH ENGINEERING, INC.
298 Brokaw Rd.
Santa Clara, CA 95050

Date Sampled: 09/13/93
Date Received: 09/15/93
Date Analyzed: 09/24/93

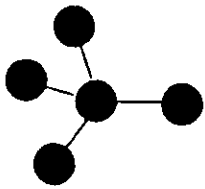
Project ID: 8-93-558-ST
Sample ID: B-1-9

Lab No: T309101
Matrix: Soil

EPA METHOD 8270

SEMI-VOLATILE ORGANICS

	Det. Lim. (ppb)	Results (ppb)
1,2-Dichlorobenzene -----	330	ND
1,2,4-Trichlorobenzene -----	330	ND
1,3-Dichlorobenzene -----	330	ND
1,4-Dichlorobenzene -----	330	ND
2-Chloronaphthalene -----	330	ND
2-Chlorophenol -----	330	ND
2-Methylaphthalene -----	330	ND
2-Methylphenol -----	330	ND
2-Nitrophenol -----	330	ND
2,4-Dichlorophenol -----	330	ND
2,4-Dimethylphenol -----	330	ND
2,4-Dinitrophenol -----	330	ND
2,4-Dinitrotoluene -----	330	ND
2,4,5-Trichlorophenol -----	1600	ND
2,4,6-Trichlorophenol -----	330	ND
2,6-Dinitrotoluene -----	330	ND
2-Nitroaniline -----	1600	ND
3,3'-Dichlorobenzidine -----	660	ND
3-Nitroaniline -----	1600	ND
4-Bromophenyl-phenylether -----	330	ND
4-Chloro-3-Methylphenol -----	330	ND
4-Chloroaniline -----	330	ND
4-Methylphenol -----	330	ND
4-Nitroaniline -----	1600	ND
4-Nitrophenol -----	1600	ND
4,6-Dinitro-2-Methylphenol -----	1600	ND
4-Chlorophenyl-phenylether -----	330	ND
Acenaphthene -----	330	ND
Acenaphthylene -----	330	ND
Anthracene -----	330	ND
Benzo (a) Anthracene -----	330	ND
Benzo (a) Pyrene -----	330	ND
Benzo (b) Fluoranthene -----	330	ND
Benzo (g,h,i) Perylene -----	330	ND
Benzo (k) Fluoranthene -----	330	ND
Benzoic Acid -----	1600	ND
Benzyl Alcohol -----	330	ND



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Project ID: 8-93-558-ST
Sample ID: B-1-9

Lab Number: T309101
Matrix: Soil

	Det. Lim. (ppb)	Results (ppb)
bis (2-Chloroethoxy) Methane ---	330	ND
bis (2-Chloroethyl) Ether -----	330	ND
bis (2-Chloroisopropyl) Ether --	330	ND
bis (2-Ethylhexyl) Phthalate ---	330	ND
Butylbenzylphthalate -----	330	ND
Chrysene -----	330	ND
Di-N-Butylphthalate -----	330	ND
Di-N-Octyl Phthalate -----	330	ND
Dibenz (a,h) Anthracene -----	330	ND
Dibenzofuran -----	330	ND
Diethylphthalate -----	330	ND
Dimethyl Phthalate -----	330	ND
Fluoranthene -----	330	ND
Fluorene -----	330	ND
Hexachlorobenzene -----	330	ND
Hexachlorobutadiene -----	330	ND
Hexachlorocyclopentadiene -----	330	ND
Hexachloroethane -----	330	ND
Indeno (1,2,3-cd) Pyrene -----	330	ND
Isophorene -----	330	ND
N-Nitroso-Di-Propylamine -----	330	ND
N-Nitrosodiphenylamine -----	330	ND
Naphthalene -----	330	ND
Nitrobenzene -----	330	ND
Pentachlorophenol -----	330	ND
Phenanthrene -----	1600	ND
Phenol -----	330	ND
Pyrene -----	330	ND

- 64% Surrogate Spike Recovery 2-Fluorophenol
- 88% Surrogate Spike Recovery 2-Fluorobiphenyl
- 79% Surrogate Spike Recovery 2,4,6-Tribromophenol
- 94% Surrogate Spike Recovery Terphenyl-d14

ppb= ug/Kg

Note: Compounds may be present at concentrations below the reporting limit.

ARGON MOBILE LABS

Hiram Cueto

Hiram Cueto
Lab Director

CHAIN OF CUSTODY RECORD

AML

PROJ. NO. 8-93-558-ST		NAME 2951 High st. OAKLAND			CON-TAINER 1	ANALYSES REQUESTED TPHG/BTEX TPHA TO&G 8010 8270 Cd,Cr,Pb,Zn,NI	REMARKS					
SAMPLERS: (Signature) <i>N. Amel</i>												
NO.	DATE	TIME	SOIL	WATER	LOCATION	✓	✓	✓				
1	9/3/93	10 ¹⁰	✓		B-1-9	✓	✓	✓				
Relinquished by: (Signature) <i>N. Amel</i>			Date / Time 9/15/93 9 ⁴⁰		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
Relinquished by: (Signature)			Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
Relinquished by: (Signature)			Date / Time		Received for Laboratory by: (Signature) <i>Wiram Cueto</i>		Date / Time 9-15-93 9:40		Remarks			



SOIL TECH ENGINEERING

Soil, Foundation and Geological Engineers

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

CHAIN OF CUSTODY RECORD

AML

6K03164

PROJ. NO. 8-93-558-ST NAME 2951 High St. OAKLAND

SAMPLERS: (Signature) *[Handwritten Signature]*

CON-TAINER

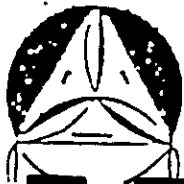
ANALYSES REQUESTED @
 TPHG / STEVX
 TPHD
 TO & G
 8010
 3270
 Cu, Cr, Pb, Zn, Ni

REMARKS

NO.	DATE	TIME	SOIL	WATER	LOCATION	CON-TAINER	ANALYSES REQUESTED @	REMARKS
1	9/13/93	10 ¹⁵	✓		B-1-9	1	✓ ✓ ✓ ✓ ✓ ✓	T309101

Relinquished by: (Signature) <i>[Signature]</i>	Date / Time 9/15/93 9 ⁴⁵	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)

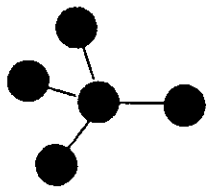
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) <i>[Signature]</i>	Date / Time 9-15-93 9:40	Remarks
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Soil, Foundation and Geological Engineers

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



Argon Mobile Labs

3008 McKittrick Ct., Suite N • Ceres, CA 95307 • (209) 537-7836

SOIL TECH ENGINEERING, INC.
298 Brokaw Rd
Santa Clara, CA 95050

Date Sampled: 09/13/93
Date Received: 09/15/93
Date Reported: 09/26/93

Project ID: 8-93-558-ST
Sample ID: ST-1

Lab Number: T309091
Matrix: Soil

TPH-gas/BTXE

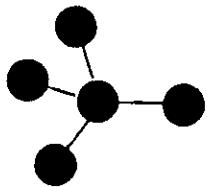
ANALYTE	Detection Limit ppm	Sample Results ppm
Total Petroleum Hydrocarbons as Gasoline	10	48
Benzene	0.050	0.65
Toluene	0.050	1.8
Xylenes	0.050	2.5
Ethylbenzene	0.050	0.38

QA/QC: Blank is none detected.
14.2% Duplicate Deviation

Note: Analysis was performed using EPA methods 5030/8015/8020
ppm = mg/Kg

ARGON MOBILE LABS

Hiram Cueto
Hiram Cueto
Lab Director



Argon Mobile Labs

3008 McKittrick Ct., Suite N • Ceres, CA 95307 • (209) 537-7836

SOIL TECH ENGINEERING, INC
298 Brokaw Rd.
Santa Clara CA. 95050

Date Sampled: 09/13/93
Date Received: 09/15/93
Date Reported: 09/21/93

Project ID: 8-93-558-ST

Matrix: Soil

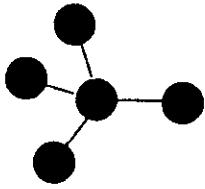
Sample Number -----	Sample Description -----	TPH-Diesel Detection Limit ----- ppm	Total Petroleum Hydrocarbons as Diesel ----- ppm
T309091	ST-1	5.0	<5.0

QA/QC: Blank is none detected.
113% Spike Recovery (T309151)
10.2% Duplicate Deviation

Note: Analysis was performed by EPA methods 3550/TPH-LUFT
ppm = mg/Kg

ARGON MOBILE LABS

Hiram Cueto
Hiram Cueto
Lab Director



Argon Mobile Labs

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SOIL TECH ENGINEERING, INC.
298 Brokaw Rd.
Santa Clara, CA 95050

Date Sampled: 09/13/93
Date Received: 09/15/93
Date Reported: 09/27/93

Project ID: 8-93-558-ST

Matrix: Soil

TOTAL OIL & GREASE

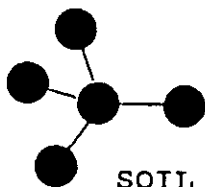
Sample Number -----	Sample Description -----	Detection Limit ----- ppm	Gravimetric Waste Oil as Petroleum Oil ----- ppm
T309091	ST-1	50	70

QA/QC: Freon blank is none detected.
90% Spike Recovery

Note: Analysis was performed by standard EPA methods 3550/5520
ppm = mg/Kg

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SOIL TECH ENGINEERING, INC.
298 Brokaw Rd.
Santa Clara, CA 95050

Date Sampled: 09/13/93
Date Received: 09/15/93
Date Analyzed: 09/24/93

Project ID: 8-93-558-ST
Sample ID: ST-1

Lab No: T309091
Matrix: Soil

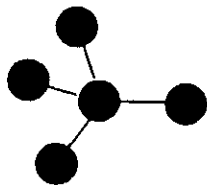
8010 Halogenated Volatile Organics

	Det. Lim. (ppm)	Results (ppm)
Bromodichloromethane -----	0.0010	ND
Bromoform -----	0.0020	ND
Bromomethane -----	0.0008	0.0081
Carbon Tetrachloride -----	0.0012	ND
Chlorobenzene -----	0.0025	ND
Chloroethane -----	0.0052	ND
Chloroform -----	0.0005	ND
2-Chloroethylvinyl ether -----	0.0013	ND
Chloromethane -----	0.0008	ND
Dibromochloromethane -----	0.0009	ND
Dibromomethane -----	0.0009	ND
1,2-Dichlorobenzene -----	0.0015	ND
1,3-Dichlorobenzene -----	0.0032	ND
1,4-Dichlorobenzene -----	0.0024	ND
Dichlorodifluoromethane -----	0.0020	ND
1,1-Dichloroethane -----	0.0007	ND
1,2-Dichloroethane -----	0.0003	ND
1,1-Dichloroethylene -----	0.0013	ND
t-1,2-Dichloroethylene -----	0.0010	ND
Dichloromethane -----	0.0050	ND
1,2-Dichloropropane -----	0.0040	ND
t-1,3-Dichloropropylene -----	0.0034	ND
1,1,2,2-Tetrachloroethane -----	0.0003	0.036
1,1,1,2-Tetrachloroethane -----	0.0003	ND
Tetrachloroethylene -----	0.0003	ND
1,1,1-Trichloroethane -----	0.0003	ND
1,1,2-Trichloroethane -----	0.0002	0.085
Trichloroethylene -----	0.0012	ND
Trichlorofluoromethane -----	0.0030	ND
Trichloropropane -----	0.0030	ND
Vinyl Chloride -----	0.0018	ND

QA/QC: 98% Surrogate Spike Recovery 4-Bromofluorobenzene
Note: ppm = mg/Kg

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SOIL TECH ENGINEERING, INC.
298 Brokaw Rd.
Santa Clara, CA 95050

Date Sampled: 09/13/93
Date Received: 09/15/93
Date Reported: 09/22/93

METALS, CAM 5
EPA Method 6010

Project ID: 8-93-558-ST
Sample ID: ST-1

Matrix: Soil
Lab No: T309091

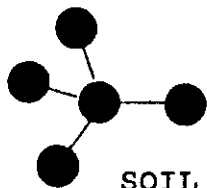
Name	Amount	Detection Limit	Units (ppm)
Cadmium (Cd)	ND	0.25	mg/Kg
Chromium (Cr)	130	0.25	mg/Kg
Lead (Pb)	10	0.25	mg/Kg
Nickel (Ni)	240	1.0	mg/Kg
Zinc (Zn)	83	0.25	mg/Kg

QA/QC: 90% Matrix Spike Recovery (Pb)
5.3% Duplicate Spike Deviation

94% Matrix Spike Recovery (Zn)
9.6% Duplicate Spike Deviation

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SOIL TECH ENGINEERING, INC.
298 Brokaw Rd.
Santa Clara, CA 95050

Date Sampled: 09/13/93
Date Received: 09/15/93
Date Analyzed: 09/24/93

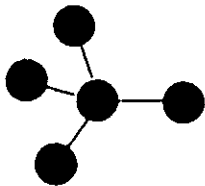
Project ID: 8-93-558-ST
Sample ID: ST-1

Lab No: T309091
Matrix: Soil

EPA METHOD 8270

SEMI-VOLATILE ORGANICS

	Det. Lim. (ppb)	Results (ppb)
1,2-Dichlorobenzene -----	330	ND
1,2,4-Trichlorobenzene -----	330	ND
1,3-Dichlorobenzene -----	330	ND
1,4-Dichlorobenzene -----	330	ND
2-Chloronaphthalene -----	330	ND
2-Chlorophenol -----	330	ND
2-Methylaphthalene -----	330	ND
2-Methylphenol -----	330	ND
2-Nitrophenol -----	330	ND
2,4-Dichlorophenol -----	330	ND
2,4-Dimethylphenol -----	330	ND
2,4-Dinitrophenol -----	330	ND
2,4-Dinitrotoluene -----	330	ND
2,4,5-Trichlorophenol -----	1600	ND
2,4,6-Trichlorophenol -----	330	ND
2,6-Dinitrotoluene -----	330	ND
2-Nitroaniline -----	1600	ND
3,3'-Dichlorobenzidine -----	660	ND
3-Nitroaniline -----	1600	ND
4-Bromophenyl-phenylether -----	330	ND
4-Chloro-3-Methylphenol -----	330	ND
4-Chloroaniline -----	330	ND
4-Methylphenol -----	330	ND
4-Nitroaniline -----	1600	ND
4-Nitrophenol -----	1600	ND
4,6-Dinitro-2-Methylphenol -----	1600	ND
4-Chlorophenyl-phenylether -----	330	ND
Acenaphthene -----	330	ND
Acenaphthylene -----	330	ND
Anthracene -----	330	ND
Benzo (a) Anthracene -----	330	ND
Benzo (a) Pyrene -----	330	ND
Benzo (b) Fluoranthene -----	330	ND
Benzo (g,h,i) Perylene -----	330	ND
Benzo (k) Fluoranthene -----	330	ND
Benzoic Acid -----	1600	ND
Benzyl Alcohol -----	330	ND



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Project ID: 8-93-558-ST
Sample ID: ST-1

Lab Number: T309091
Matrix: Soil

	Det. Lim. (ppb)	Results (ppb)
bis (2-Chloroethoxy) Methane ---	330	ND
bis (2-Chloroethyl) Ether -----	330	ND
bis (2-Chloroisopropyl) Ether --	330	ND
bis (2-Ethylhexyl) Phthalate ---	330	ND
Butylbenzylphthalate -----	330	ND
Chrysene -----	330	ND
Di-N-Butylphthalate -----	330	ND
Di-N-Octyl Phthalate -----	330	ND
Dibenz (a,h) Anthracene -----	330	ND
Dibenzofuran -----	330	ND
Diethylphthalate -----	330	ND
Dimethyl Phthalate -----	330	ND
Fluoranthene -----	330	ND
Fluorene -----	330	ND
Hexachlorobenzene -----	330	ND
Hexachlorobutadiene -----	330	ND
Hexachlorocyclopentadiene -----	330	ND
Hexachloroethane -----	330	ND
Indeno (1,2,3-cd) Pyrene -----	330	ND
Isophorene -----	330	ND
N-Nitroso-Di-Propylamine -----	330	ND
N-Nitrosodiphenylamine -----	330	ND
Naphthalene -----	330	ND
Nitrobenzene -----	330	ND
Pentachlorophenol -----	330	ND
Phenanthrene -----	1600	ND
Phenol -----	330	ND
Pyrene -----	330	ND

- 54% Surrogate Spike Recovery 2-Fluorophenol
- 68% Surrogate Spike Recovery 2-Fluorobiphenyl
- 64% Surrogate Spike Recovery 2,4,6-Tribromophenol
- 76% Surrogate Spike Recovery Terphenyl-d14

ppb= ug/Kg

Note: Compounds may be present at concentrations below the reporting limit.

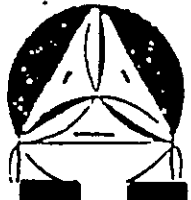
ARGON MOBILE LABS

Hiram Cueto
Lab Director

CHAIN OF CUSTODY RECORD

AML

PROJ. NO.		NAME				CONTAINER	ANALYSES REQUESTED						REMARKS
SAMPLERS: (Signature)		LOCATION					TPHG	BTEX	TPHD	TO&G	8010	8210	
NO.	DATE	TIME	SOIL	WATER									
	8-93-558-ST	2951 High st.	OAKLAND										
N. Am. [Signature]													
1	9/3/93	10 ⁴⁰	✓		ST-1	1	✓	✓	✓	✓	✓		
Relinquished by: (Signature)			Date / Time		Received by: (Signature)		Relinquished by: (Signature)			Date / Time		Receive by: (Signature)	
N. Am. [Signature]			9/15/93 9 ⁴⁰		[Signature]								
Relinquished by: (Signature)			Date / Time		Received by: (Signature)		Relinquished by: (Signature)			Date / Time		Received by: (Signature)	
Relinquished by: (Signature)			Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks				
					[Signature]		9-15-93 9:40						



SOIL TECH ENGINEERING
Soil, Foundation and Geological Engineers

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

CHAIN OF CUSTODY RECORD

AML

PROJ. NO. 8-93-558-ST		NAME 2951 High st. OAKLAND								6K03163		
SAMPLERS: (Signature) <i>N. Amato</i>				CON-TAINER		ANALYSES REQUESTED TPHG/BTEX TPHA TO&G BOIO S270 Cd/Cr/Pb/Zn/Ni		REMARKS				
NO.	DATE	TIME	SOIL	WATER	LOCATION							
1	9/3/93	10 ⁴⁰	✓		ST-1	1	✓	✓	✓	✓	✓	T309091
Relinquished by: (Signature) <i>N. Amato</i>			Date / Time 9/15/93 9 ⁴⁰		Received by: (Signature)			Relinquished by: (Signature)		Date / Time	Received by: (Signature)	
Relinquished by: (Signature)			Date / Time		Received by: (Signature)			Relinquished by: (Signature)		Date / Time	Received by: (Signature)	
Relinquished by: (Signature)			Date / Time		Received for Laboratory by: (Signature) <i>Vivian Lueto</i>			Date / Time 9-15-93 9:40		Remarks		



SOIL TECH ENGINEERING
Soil, Foundation and Geological Engineers

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