VERIFICATION OF CONTAMINATED SOIL REMOVAL
FROM THE FORMER UNDERGROUND FUEL TANK
AREA FOR THE KAMUR INDUSTRIES PROPERTY
LOCATED AT 2351 SHORE LINE DRIVE
ALAMEDA, CALIFORNIA
FEBRUARY 11, 1991

PREPARED FOR:
KAMUR INDUSTRIES
2351 SHORE LINE DRIVE
ALAMEDA, CALIFORNIA 94501

BY:

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

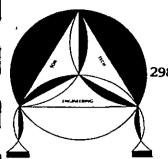
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### APPENDIX "B"

Mobile Chem Labs Analytical Report with Chain-of-Custody Anametrix, Inc. Analytical Report with Chain-of-Custody

### APPENXIX "C"

Excavation of Contaminated Soil Notification Form to BAAQMD Uniform Hazardous Waste Manifest



### SOIL TECH ENGINEERING

Soil, Foundation and Geological Engineers

298 BROKAW ROAD, SANTA CLARA, CA 95050 ■ (408) 866-0919 ■ (415) 791-6406

February 11, 1991

File No. 8-90-418-SI

Kamur Industries 2351 Shore Line Drive Alameda, California 94501

ATTENTION: MR. MURRAY STEVENS

SUBJECT: VERIFICATION OF CONTAMINATED SOIL REMOVAL

FROM THE FORMER UNDERGROUND FUEL TANK AREA FOR THE KAMUR INDUSTRIES PROPERTY Located at 2351 Shore Line Drive, in

Alameda, California.

Dear Mr. Stevens:

The following is a progress report which briefly documents the results of our soil sampling and summarizes contaminated soil excavation work at the subject site, in Alameda, California (Figure 1). The shallow soil in the vicinity of the former underground tank area was contaminated with high levels of petroleum hydrocarbons. The main objective of this project was to excavate and to verify the removal of all accessible soils in the vicinity of the former fuel tank area.

#### WORK PERFORMED:

The soil excavation work began on December 6, 1990, by using a track excavator. Tom Daniels Excavating, Inc. was contracted to perform the work. Soil Tech Engineering, Inc. (STE) engineer was on-site to observe the work, provide professional guidance and to collect soil samples for laboratory analysis.

A portable photoionization detector (PID) was used to assist in making field judgments on the extent of contaminated soil and for health and safety by monitoring the worker breathing zone. The PID measures Volatile Organic Contaminants down to 0.1 parts per million (ppm) and is generally considered to be a very effective tool for evaluating hydrocarbon contamination.

On December 6, 1990, a small trench approximately 3 feet in width by 8 feet in depth, was dug around the perimeter of the former tank area to visually assess the lateral extent of hydrocarbon contami-Figure 2 shows the approximate extent of the trench and PID readings observed in the field. Initial PID readings showed fairly high readings along the northerly and southerly perimeter of the former tank area. During excavation, the contractor accidentally damaged the main electrical line and the work was shut down for three days. All excavated soil was stored on-site on thick visquine plastic sheeting and covered with visquine at the end of the day. The excavated soil consisted mostly of sandy materials.

On December 10, 1990, soil excavation began in the vicinity of the former tank area. Excavation was terminated in mid-afternoon due to rain. Approximately 3 to 4 feet of soil was removed from the excavation.

On December 11, 1990, excavation resumed by removing the clean backfill material in the former tank area followed by obviously contaminated soil. Soil types encountered were similar to the initial excavation, which was mainly sandy soil. The approximate depth of the excavation was 14 feet below the ground surface in the northerly section and approximately 8 feet in the southerly section of the former tank area. No groundwater was encountered during the excavation; however, minor dark brown petroleum product was noted seeping into excavation at approximately 7 feet below ground surface in the northeasterly corner (see Figure 2).

On December 12, 1990, STE staff noted shallow groundwater at the deepest part of the excavation approximately 10 feet below ground surface. Apparently some groundwater had slowly seeped into the excavation. Prior to further excavation, all of the contaminated, ponded water was removed by Refineries Service, Inc., a certified waste hauler, under a Uniform Hazardous Waste Manifest which is included in Appendix "C". After removal of 2,000 gallons of contaminated water from the excavation, eight soil samples (S-1-3 to S-4-6) were taken from the northerly and westerly sidewalls at 3 and 6 feet below ground surface. The soil samples were analyzed on-site by Mobile Chem Labs. The intent of on-site analysis was to

assess the need for any additional excavation to the north and in the vicinity of the Big-5 Building (Figure 3). Copies of the chain-of-custody form and laboratory reports are provided in Appendix "B". TPH as gasoline levels ranged from non-detectable to a maximum of 20,000 parts per million (ppm). The highest levels were detected in the northeasterly corner near the Big-5 Building (Figure 2). Soil excavation continued on December 12 and 13, 1990, along the easterly and toward the southerly section of the former The PID was used to assess levels of contamination tank area. during excavation. Soil samples (S-5-3 to S-9-6) were taken at 3 and 6 feet depths along the easterly and westerly walls of the excavation (see Figure 4). The analytical results are summarized Most of the soil samples showed low levels of TPH, in Table 2. except sample S-9-6 which showed high levels (6,600 ppm) at nine feet depth. The location of this hot-spot was at the southeasterly corner of the excavation.

Prior to backfilling, approximately 4,000 gallons of groundwater was pumped from the excavation on December 17, 1990. The excavation was backfilled with clean soil on December 17 and 18, 1990.

### CONCLUSIONS AND RECOMMENDATIONS:

The following summarizes our findings:

A. Soil sample analysis verifies that high levels of TPH still exist in the shallow soil east and north of the former tank area.

- B. A considerable amount of contaminated soil was removed and stockpiled on-site pending proper disposal.
- C. Floating product was noted in the northeasterly corner of the former tank area.
- D. The material excavated consisted of mainly sandy soil.
- E. The shallow groundwater has been impacted with dissolved petroleum hydrocarbons.
- F. Excavation activities have been effective in reducing TPH as gasoline levels in areas which were effected by the past, inadvertent spill. In addition, potential impact to the groundwater has also been reduced.

Additional work is necessary to complete the site remediation and the comply with the state and local regulatory agency requirements. STE recommends the following:

- A. Define the extent of contamination in the south section of the property by drilling 3 to 4 shallow exploratory borings and conduct soil sampling.
- B. Initiate soil remediation in the north-northeasterly section of the tank area.

C. /Installation of three monitoring wells, to define the extent of contamination in the groundwater, per STE's proposed work plan dated August 30, 1990 (File No. 8-90-418-SI).

D. Evaluate cost-effective alternatives for disposal of the onsite stockpiled soil.

A detailed soil excavation report will be submitted after completion of the additional recommended investigations.

Please submit a copy of this progress report to Ms. Cynthia Chapman of the Alameda County Health Department and Mr. Lester Feldman of the Regional Water Quality Control Board.

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

Sincerely,

SOIL TECH ENGINEERING, INC.

RICHARD DOWNS

ENVIRONMENTAL EDITOR

LAWRENCE KOO, P. E.

C. E. #34928

FRANK HAMEDI-FARD GENERAL MANAGER Kus

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
(SAMPLES COLLECTED ON 12/12/90)
CONCENTRATIONS IN PARTS PER MILLION (ppm)

Sample No.	Depth feet	ТРНд	· • · B · · ·	T	E	x
S-1-3	3	ND	0.015	0.016	ND	0.012
S-1-6	6	34	1.7	2.7	0.5	2.3
S-2-3	3	2.4	0.17	0.21	0.033	0.150
S-2-6	6	120	7.8	13	2	8.8
S-3-3	3	5.3	0.29	0.3	0.051	0.22
S-3-6	6	20,000	400	2,000	490	2,400
S-4-3	3	4	0.15	0.18	0.031	0.15
S-4-6	6	35	4.1	4	0.57	2.8

TPHg = Total Petroleum Hydrocarbons as Gasoline
BTEX = Benzene, Toluene, Ethylbenzene, Xylene
ND = Not Detected (Below Detection Limit)

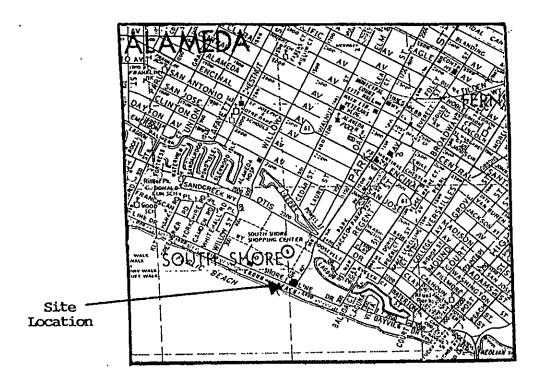
TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS
(SAMPLES COLLECTED ON 12/13/90)
CONCENTRATIONS IN PARTS PER MILLION (ppm)

Sample No.	Depth feet	TPHg	В	T	E	x
S-5-3	3	ND	ND	ND	ND	ND
S-5-6	6	11	0.320	0.20	0.58	1.4
S-6-3	3	ND	ND	ND	ND	ND
S-6-6	6	13	0.490	0.92	0.73	2.4
<b>S</b> −7−3	3	ND	ИD	ИД	ИD	ND
S-7-6	6	14	0.850	2.60	0.66	2.3
S-8-3	3	240	ND	3.90	9.50	21
S-8-6	6	15	0.084	0.21	0.37	1.5
S-9-3	3	ND	ND	ND	ND	ND
S-9-6	6	6,600	17	190	84	330
Detection Li	mit	0.5	0.005	0.005	0.005	0.005

TPHg = Total Petroleum Hydrocarbons as Gasoline
BTEX = Benzene, Toluene, Ethylbenzene, Xylene
ND = Not Detected (Below Detection Limit)

File No. 8-90-418-SI

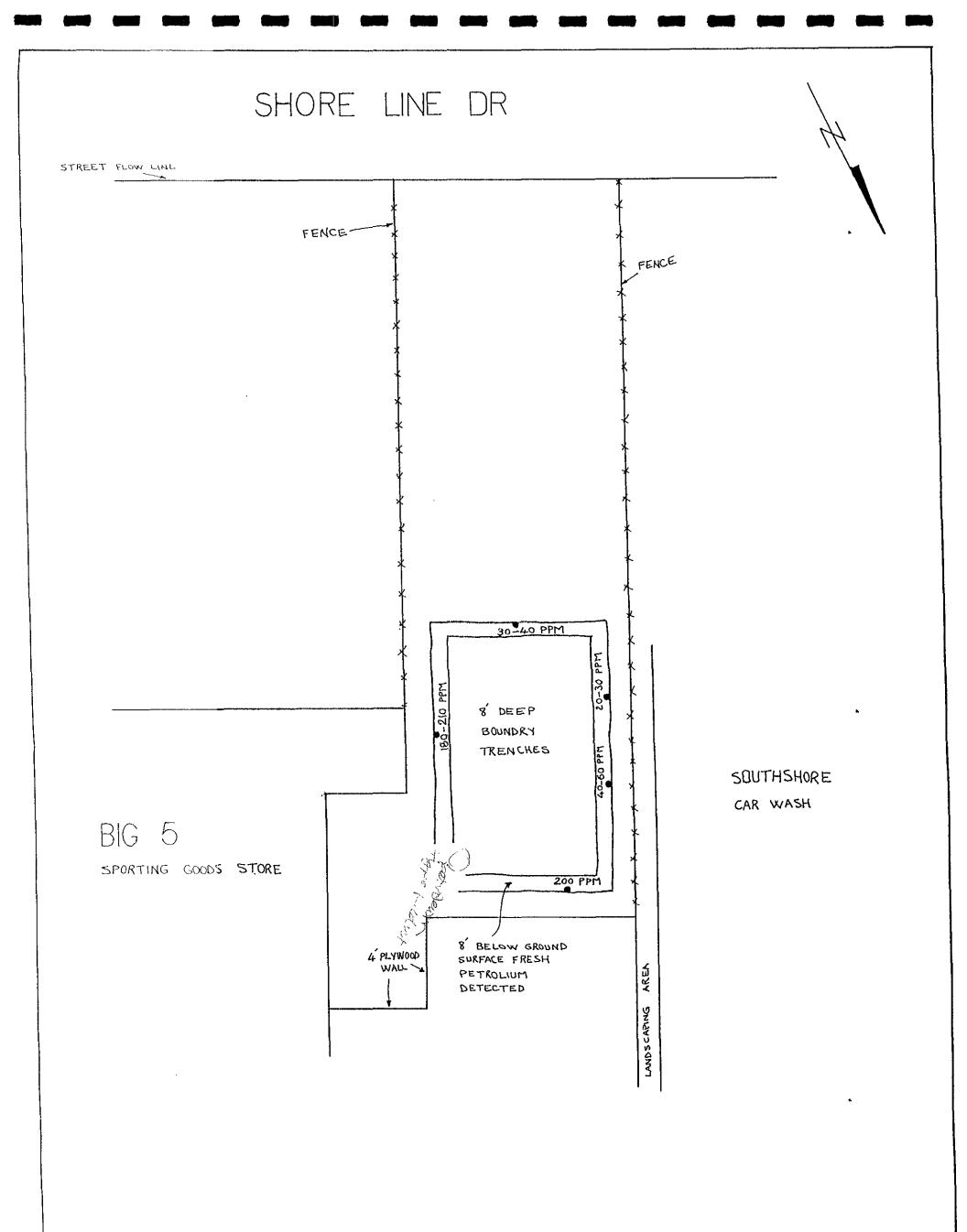
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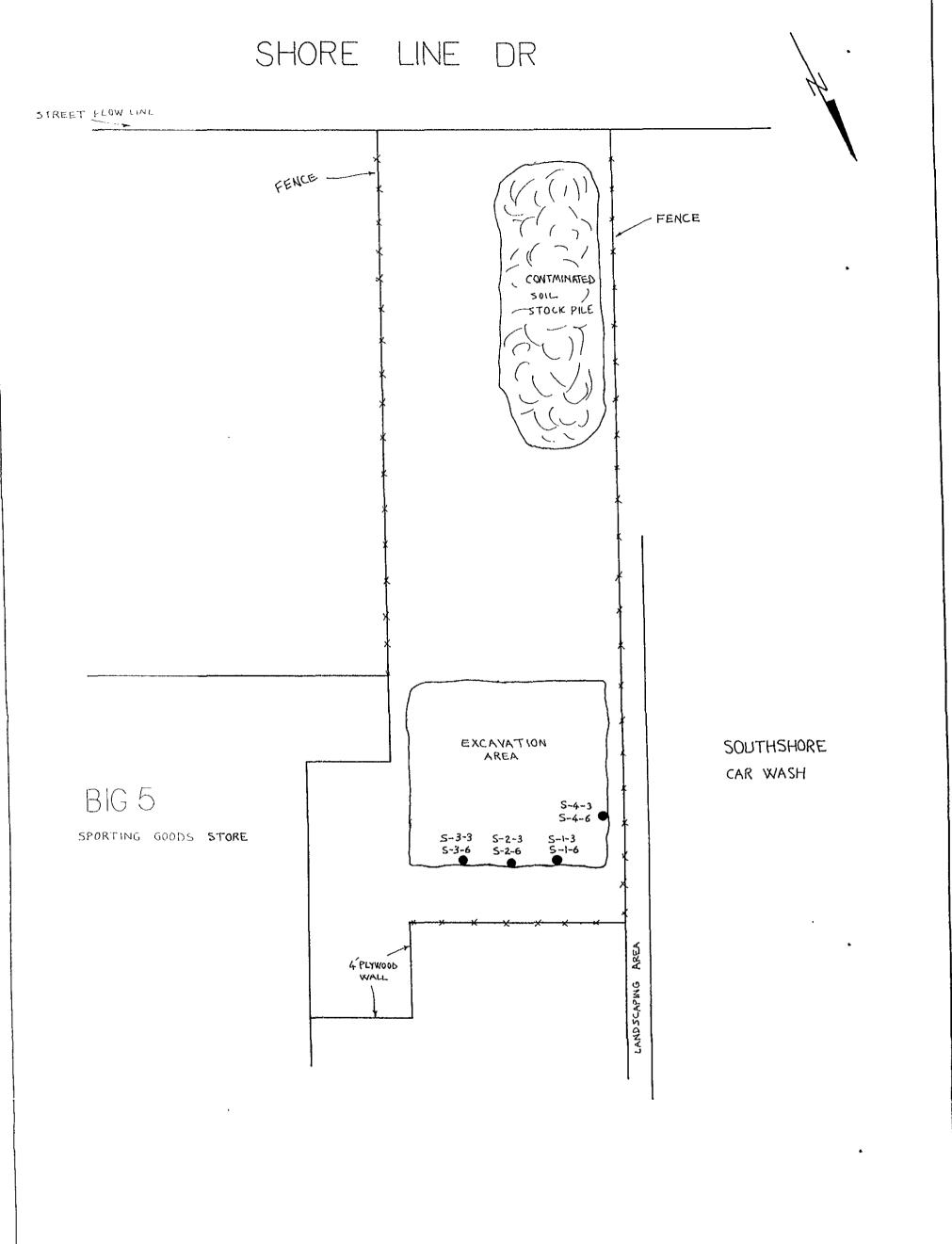
Thomas Brothers Map 1982 Edition Alameda - Contra Costa Counties Map

Page 11 D7



PHOTOIONIZATION DETECTOR
 (PID) READINGS

2351 SHORE	E LINE DR	ALAMEDA	CA
l=30´	DDO IECT NO	9 90 418 51	FIG-2
DRAWAN BY N.A.	PROJECT NO	0-30-410-51	12-6-90
SOILTECH ENG 298 BROKAW	INEERING INC. RD. SANTA	CLARA CA	95050



SOIL SAMPLE LOCATIONS

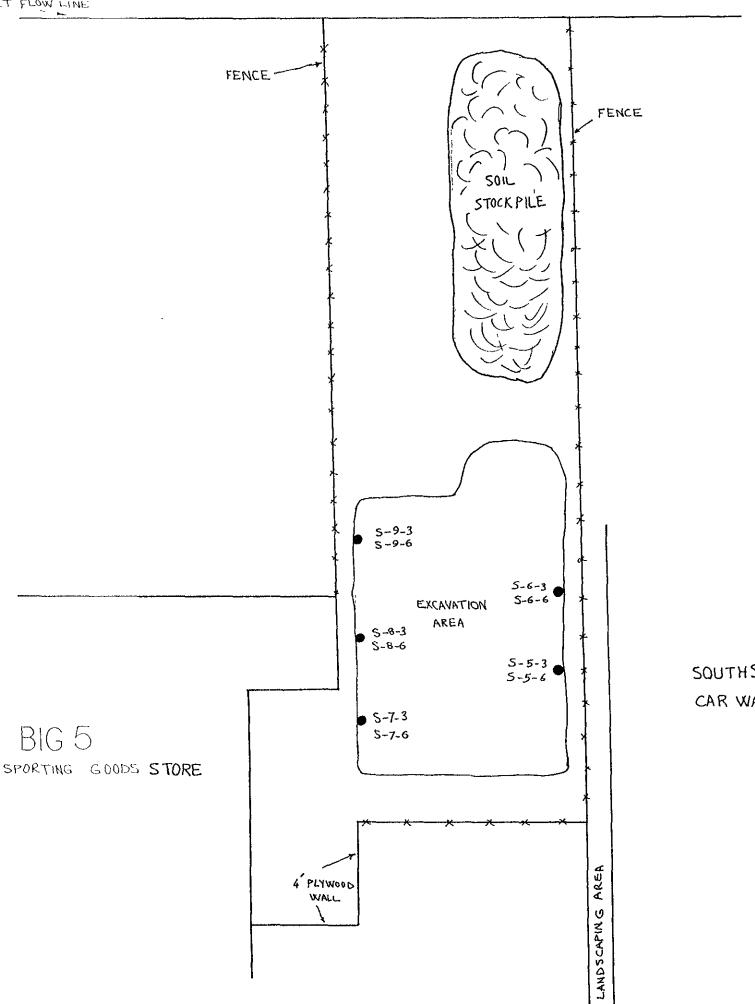
FIRST NO. 15 NO. OF SAMPLE,

SECOND NO 15 175 DEPTH

2351 SHOR	E LINE DF	R ALAMED	A CA
1=30	DDO IFOT NO	0 00 419 61	FIG-3
DRAWN BY N.A.	PROJECT NO	8-90-418-SI	12-12-90
SOIL TECH ENG	INEERING INC.		
298 BROKAW	RD. SANTA	CLARA CA	95050

# SHORE LINE DR

STREET FLOW LINE



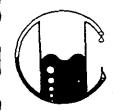
SOUTHSHORE CAR WASH

• SOIL SAMPLE LOCATIONS FIRST # 15 # OF SAMPLE, SECOND # 15 IT'S DEPTH

2351 SHOR	E LINE DI	R ALAMED	A CA
(= 30	PROJECT NO	2 90 AIR CI	FIG-A
DRAWN BY N.A.	PROJECT NO	0-30-410-31	12-13-90
SOIL TECH ENGINEERING INC. 298 BROKAW RD. SANTA CLARA CA 95050			

File No. 8-90-418-SI

APPENDIX "B"



351 N. Walnut Road, No. 4 • Turlock, CA 95380 Phone (209) 632-2210 • Fax (209) 632-6595

8-90-418-S1/1741

Soil Tech Engineering 298 Brokaw Road

Santa Clara, CA 95050 Attn: Frank Hamedi Project Manager Date Sampled: 12-12-90 Date Received: 12-13-90 Date Reported: 12-13-90

Sample Number 012074

Sample Description
Proj. # 8-90-418-S1
Kamur Industries
S-1-3
SOIL

#### <u>ANALYSIS</u>

	Detection <u>Limit</u>	Sample <u>Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.005	0.015
Toluene	0.005	0.016
Xylenes .	0.005	0.012
Ethylbenzene	0.005	<0.005

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.

MOBILE CHEM LABS

Ushneau

Ronald G. Evans Lab Director



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8-90-418-S1/1741

Soil Tech Engineering 298 Brokaw Road

Santa Clara, CA 95050 Attn: Frank Hamedi

Project Manager

Date Sampled: 12-12-90 Date Received: 12-13-90

Date Reported: 12-13-90

Sample Number 012075

Sample Description Proj. # 8-90-418-S1 Kamur Industries

S-1-6 SOIL

#### ANALYSIS

	Detection <u>Limit</u>	Sample <u>Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	34
Benzene	0.005	1.7
Toluene	0.005	2.7
Xylenes	0.005	2.3
Ethylbenzene	0.005	0.50

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.

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Tronald G. Evans Lab Director



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8-90-418-S1/1741

Soil Tech Engineering

298 Brokaw Road

Santa Clara, CA 95050 Attn: Frank Hamedi

Project Manager

Date Sampled: 12-12-90 Date Received: 12-13-90

Date Reported: 12-13-90

SOIL

Sample Number 012076

Sample Description Proj. # 8-90-418-S1 Kamur Industries

S - 2 - 3

ANALYSIS

	Detection <u>Limit</u>	Sample <u>Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	2.4
Benzene	0.005	0.17
Toluene	0.005	0.21
Xylenes	0.005	0.15
Ethylbenzene	0.005	0.033

Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.

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Dishneau

Ronald G. Evans Láb Director



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8-90-418-S1/1741

Soil Tech Engineering 298 Brokaw Road

Santa Clara, CA 95050 Attn: Frank Hamedi

Project Manager

Date Sampled: 12-12-90 Date Received: 12-13-90

Date Reported: 12-13-90

Sample Number 012077

Sample Description Proj. # 8-90-418-S1

Kamur Industries

S - 2 - 6

SOIL

#### ANALYSIS

	Detection <u>Limit</u>	Sample <u>Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	120
Benzene	0.005	7.8
Toluene	0.005	13
Xylenes	0.005	8.8
Ethylbenzene	0.005	2.0

QA/QC: Blank is none detected

ve aV.Dishneau

Duplicate deviation is 0%

Analysis was performed using EPA methods 5030 and TPH LUFT

with method 8020 used for BTX distinction.

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Ronald G. Evans Lab Director



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8-90-418-S1/1741

Soil Tech Engineering 298 Brokaw Road

Santa Clara, CA 95050 Attn: Frank Hamedi

Project Manager

Date Sampled: 12-12-90 Date Received: 12-13-90

Date Reported: 12-13-90

Sample Number 012078

Sample Description
Proj. # 8-90-418-S1

Kamur Industries

S - 3 - 3

SOIL

#### **ANALYSIS**

	Detection <u>Limit</u>	Sample <u>Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	5.3
Benzene	0.005	0.29
Toluene	0.005	0.30
Xylenes	0.005	0.22
Ethylbenzene	0.005	0.051

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.

Dishneau

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Ronald G. Evans Lab Director



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8-90-418-S1/1741

Soil Tech Engineering 298 Brokaw Road

Santa Clara, CA 95050 Attn: Frank Hamedi Project Manager Date Sampled: 12-12-90 Date Received: 12-13-90 Date Reported: 12-13-90

Sample Number 012079

Sample Description
Proj. # 8-90-418-S1
Kamur Industries

S-3-6

SOIL

#### ANALYSIS

	Detection <u>Limit</u>	Sample <u>Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	20,000
Benzene	0.005	400
Toluene	0.005	2,000
Xylenes	0.005	2,400
Ethylbenzene	0.005	490

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.

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Monald G. Evans



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8-90-418-S1/1741

Soil Tech Engineering 298 Brokaw Road

Santa Clara, CA 95050 Attn: Frank Hamedi

Date Sampled: 12-12-90 Date Received: 12-13-90

Project Manager

Date Reported: 12-13-90

Sample Number 012080

Sample Description Proj. # 8-90-418-S1 Kamur Industries

S - 4 - 3

SOIL

#### ANALYSIS

	Detection <u>Limit</u>	Sample <u>Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	4.0
Benzene	0.005	.0.15
Toluene	0.005	0.18
Xylenes	0.005	0.15
Ethylbenzene	0.005	0.031

Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.

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rRonald G. Evans Lab Director



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8-90-418-S1/1741

Soil Tech Engineering 298 Brokaw Road

Santa Clara, CA 95050 Attn: Frank Hamedi Project Manager Date Sampled: 12-12-90 Date Received: 12-13-90 Date Reported: 12-13-90

Sample Number 012081

Sample Description Proj. # 8-90-418-S1 Kamur Industries

S-4-6

SOIL

#### **ANALYSIS**

	Detection <u>Limit</u>	Sample <u>Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	35
Benzene	0.005	4.1
Toluene	0.005	4.0
Xylenes	0.005	2.8
Ethylbenzene	0.005	0.57

QA/QC: Blank is none detected

Duplicate deviation is 3.8%

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.

MOBILE CHEM LABS

Ronald G. Evans

	CHAIN	OF CUST	STODY RECORD
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8 12/12 314	S-4-6	1	
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SOIL TECH ENGINEERING .
Soil, Foundation and Geological Engineers

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SOIL TECH ENGINEERING .
Soil, Foundation and Geological Engineers

### ANAMETRIX INC

Environmental & Analytical Chemistry 1961 Concourse Drive, Suite E, San Jose, CA 95131 108) 432-8192 • Fax (408) 432-8198



MR. FRANK HAMEDI SOIL TECH ENGINEERING 298 BROKAW ROAD SANTA CLARA, CA 95050 Workorder # : 9012162 Date Received : 12/14/90 Project ID : 8-90-418-SI

Purchase Order: N/A

The following samples were received at Anametrix, Inc. for analysis:

ANAMETRIX ID	CLIENT SAMPLE ID
9012162- 1	S-5-3
9012162- 2	S-5-6
9012162- 3	S-6-3
9012162- 4	S-6-6
9012162- 5	S-7-3
9012162- 6	S-7-6
9012162- 7	S-8-3
9012162- 8	S-8-6
9012162- 9	S-9-3
9012162-10	S-9-6

This report consists of 5 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accrediation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anametrix.

Burt Sutherland

Laboratory Director

12/28/90

### REPORT SUMMARY ANAMETRIX, INC. (408)432-8192

MR. FRANK HAMEDI SOIL TECH ENGINEERING 298 BROKAW ROAD SANTA CLARA, CA 95050

Workorder # : 9012162 Date Received : 12/14/90 Project ID : 8-90-418-SI

Purchase Order: N/A
Department : GC
Sub-Department: TPH

### SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9012162- 1	S-5-3	SOIL	12/13/90	TPHg/BTEX
9012162- 2	S-5-6	SOIL	12/13/90	TPHg/BTEX
9012162- 3	S-6-3	SOIL	12/13/90	TPHg/BTEX
9012162- 4	S-6-6	SOIL	12/13/90	TPHg/BTEX
9012162- 5	S-7-3	SOIL	12/13/90	TPHg/BTEX
9012162- 6	S-7-6	SOIL	12/13/90	TPHg/BTEX
9012162- 7	S-8-3	SOIL	12/13/90	TPHg/BTEX
9012162- 8	S-8-6	SOIL	12/13/90	TPHg/BTEX
9012162- 9	S-9-3	SOIL	12/13/90	TPHg/BTEX
9012162-10	S-9-6	SOIL	12/13/90	TPHg/BTEX

### REPORT SUMMARY ANAMETRIX, INC. (408)432-8192

MR. FRANK HAMEDI SOIL TECH ENGINEERING 298 BROKAW ROAD

SANTA CLARA, CA 95050

Workorder # : 9012162 Date Received: 12/14/90
Project ID: 8-90-418-SI
Purchase Order: N/A
Department: GC

Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

Department Supervisor

12-28-90

Jusike 12-23 40 Date

#### ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS (GASOLINE WITH BTEX) ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9012162 Matrix : SOIL

Date Sampled : 12/13/90

Project Number: 8-90-418-SI Date Released: 12/27/90

		Reporting Limit	Sample I.D.# S-5-3	Sample I.D.# S-5-6	Sample I.D.# S-6-3	Sample I.D.# S-6-6	Sample I.D.# S-7-3
!	COMPOUNDS	(mg/Kg)	-01	-02	-03	-04	-05
	Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline % Surrogate Rec Instrument I	covery	ND ND ND ND ND 97% HP21	0.32 0.20 0.58 1.4 11 88% HP8	ND ND ND ND ND 80% HP21	0.49 0.92 0.73 2.4 13 65% HP8	ND ND ND ND ND
	Date Analyzeo RLMF	đ	12/21/90	12/21/90 10	12/21/90	12/21/90 5	12/21/90 1

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

RLMF - Reporting Limit Multiplication Factor.
Anametrix Control limits for surrogate recovery are 50-150%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

leure Juiner 12-48 90
nalyst Date

Supervisor

Date

# ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS (GASOLINE WITH BTEX) ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9012162 Project Number: 8-90-418-SI Matrix SOIL Date Released: 12/27/90

Date Sampled: 12/13/90

•		Reporting Limit	Sample I.D.# S-7-6	Sample I.D.# S-8-3	Sample I.D.# S-8-6	Sample I.D.# S-9-3	Sample I.D.# S-9-6	
1	COMPOUNDS	(mg/Kg)	-06	-07 	-08	-09	-10	
•	Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	0.005 0.005 0.005 0.005 0.05	0.85 2.6 0.66 2.3 14	ND 3.9 9.5 21 240	0.084 0.21 0.37 1.5 15	ND ND ND ND	17 190 84 330 6600	
•	<pre>% Surrogate Rec Instrument I. Date Analyzec RLMF</pre>	.D.	56% HP8 12/27/90 10	99% HP8 12/21/90 100	122% HP8 12/21/90 5	85% HP8 12/26/90 1	108% HP8 12/26/90 500	

ND - Not detected at or above the practical quantitation limit for the method.

Anametrix Control limits for surrogate recovery are 50-150%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Analyst Date

Supervisor 12

Date

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BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

RLMF - Reporting Limit Multiplication Factor.

### ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS (GASOLINE WITH BTEX) ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9012162 Matrix : SOIL Date Sampled : N/A

Project Number: 8-90-418-SI Date Released: 12/27/90

	Reporting Limit	Sample I.D.# 21B1221A	Sample I.D.# 08B1221B	Sample I.D.# 081226B	Sample I.D.# 08B1227A	
COMPOUNDS	(mg/Kg)	BLANK	BLANK	BLANK	BLANK	
Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasolin % Surrogate Re Instrument I Date Analyze RLMF	e 0.5 covery .D.	ND ND ND ND ND 108% HP21 12/21/90	ND ND ND ND ND 63% HP8 12/21/90	ND ND ND ND ND 112% HP8 12/26/90	ND ND ND ND ND 101% HP8 12/27/90	

ND - Not detected at or above the practical quantitation limit for the method.

Anametrix Control limits for surrogate recovery are 50-150%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Tem July 12-24 90 Date

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

RLMF - Reporting Limit Multiplication Factor.

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SOIL TECH ENGINEERING

Soil, Foundation and Geological Engineers

File No. 8-90-418-SI

A P P E N D I X "C"

# REGULATION 8, RULE 40 Aeration of Contaminanted Soil and Removal of Underground Storage Tanks NOTIFICATION FORM ☐ Removal or Replacement of Tanks Excavation of Contaminated Soil INFORMATION 1701 4501 CONTAMINATED SOIL EXCAVATION SCHEDULED STARTUP DATE /2/11/90 STOCKPILES WILL BE COVERED? YES ALTERNATIVE METHOD OF AERATION (DESCRIBE BELOW): (MAY REQUIRE PERMIT) CONTRACTOR INFORMATION NAME Aplha Geo Services \_\_\_CONTACT\_\_ Frank Hamedi PHONE (408) 988-1032 CITY, STATE, ZIP Santa Clara, California 95050 CONSULTANT INFORMATION (IF APPLICABLE) NAME Soil Tech Engineering, Inc. CONTACT Frank Hamedi ADDRESS 298 Brokaw Road PHONE (408) 496-0265 CITY, STATE, ZIP Santa Clara, California 95050 (INIT.) DATE 12 TELEPHONE UPDATE: CALLER\_\_\_\_\_CHANGE MADE\_\_\_\_\_

**ACKNOWLEDGEMENT** 

TANK REMOVAL

[ ] VAPOR FREEING (CO<sup>2</sup>)

ADDRESS 298 Brokaw Road

SCHEDULED STARTUP DATE

VAPORS REMOVED BY:

[ ] WATER WASH

I VENTILATION

FOR OFFICE USE ONLY

CC: INSPECTOR NO. 262

BAAQMD N #\_\_\_\_

DATE RECEIVED\_\_\_

Notification ,

Bay Area Air Quality Management District

acknowledges receipt of your Tank Removal/Contaminated Soil Excavation

Form

. 1990.

received

### See Instructions on Back of Page 6

\_ Department of Health Service

WASTE MANIFEST CIA (1010) 0,5217(713) 6 3030 met 19:6 1 or 1 on the speed areas and several photos (115) 523-7865  A. Generator Photos (115) 523-7865  B. US EPA D Number  B. US EPA D Number  C. Sista Facility Photos  G. Sista Facility Photos  H. Facility Photos  R. Facility Photos  R. Facility Photos  R. Facility Photos  B. Sista Facility Photos  A. Generator Photos (115) 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	print or type.	. (Form designed for use on el	te (12-pitch typewriter).	and Fr	ont of Pa	ge 7		Toxic S	Substances Control Di Sacramento, Cali
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Department of Health Services
Toxic Substances Control Division
Secremento, California

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Additional Descriptions for Materials Listed Above  Rinsate  K. Hendling Codes for Wastes Listed Above  Rinsate  C. d.  15. Special Handling Instructions and Additional Information  Wear Gloves, Goggles & protective clothing.  In case of spill call EMERGENCY RESPONSES  800-874-4444 or 209-892-6742  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and libeled, and are in all respects in proper condition for transport by highway according to applicable international and reliable government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined present and future threat to human bands have selected the practicable method to retainent, storage, or disposal currently available to me which minimizes the present and future threat to human bands are as a large generator. I have made a good faith effort to minimize the present and future threat to human bands are as a large to me and that it can afford.  Printed Typed Name  Larry Vasvick  15. Descrepancy indication Space  Month Day Vell Transporter 1 Acknowledgement of Receipt of Materials  Printed Typed Name  Signature  Month Day Vell Transporter 2 Acknowledgement of Receipt of hazardous materials covered by this manufast except as noted in term 19  Printed Typed Name  Signature  Month Day Vell Transporter 2 Acknowledgement of Receipt of hazardous materials covered by this manufast except as noted in term 19  Printed Typed Name  Signature  Month Day Vell Transporter 3 Acknowledgement of Receipt of hazardous materials covered by this manufast except as noted in term 19				1 1	ı	1111		EPA/Other
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