

HOOSHI'S AUTO
1499 Mac Arthur Boulevard
Oakland, California

Closure Report

10-17-90 (dated inside)

date?

Mr. Thomas English
1545 Scenicview Drive
Oakland, California 94577

Mr. English:

K.T.W. & Associates is pleased to submit this report describing closure activities associated with removal of one (1) 500 gallon, and two (2) 1,000 gallon underground fuel tanks located in Oakland, California. This report provides a description of site activities and observations, the condition of excavated tanks, the condition of tank backfill and other subsurface materials, sampling procedures and locations, laboratory analytical procedures and certified analytical results, chain of custody documentation, and hazardous waste manifest (to be inserted by Mr. English).

Site Description

The site is located at 1499 Mac Arthur Boulevard, Oakland, California. A site location map is presented in Plate 1. Three (3) underground gasoline tanks were formerly located at the subject site. A site map showing the location of the site structure, former underground tanks and dispensing island is presented in Plate 2.

Closure Plan and Permitting

A closure plan and permit application for removal of underground tanks was completed and submitted to the Alameda County Health Care Services Agency (ACHCSA), and the City of Oakland Fire Department (COFD). Closure activities proceeded under an ACHCSA permit issued September 18, 1990, and COFD permit No. 9464.

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Underground Tank Closure

Tank removal activities occurred on October 3, 1990. Inspector Barney Chan of the ACHCSA was present to observe the tank removal and sampling activities. Construction services associated with closure were performed by K.T.W. & Associates. A K.T.W. & Associates California Registered Geologist provided environmental sampling and documentation services.

Closure activities were documented in the Hazardous Material Inspection Form prepared by Barney Chan. Upon removal the structural integrity of the tanks were observed to be sound. The tanks were unwrapped, and were observed to contain no corrosion holes. The tanks were removed and transported from the site by a permitted hazardous waste transporter under hazardous waste manifest. Copies of the hazardous waste manifest are in the possession of Mr. English, and will be inserted into this report by him.

General Observations, Underground Tank Closure

The tanks, which had been used to store gasoline prior to their removal, contained the following trim; a product line, a fill riser, and a vent line. For each tank, no vapor piping was present.

The condition of the vent lines prior to removal were unsound, and they were unwrapped. The product piping appeared to be sound, however, the vent lines contained a large number of corrosion holes. The riser assemblies that constituted the fill pipe for the tanks were sound and free of defects. Very strong hydrocarbon odor was observed while removing the overburden surrounding the tanks, and the overburden material contained discoloration. The backfill material consisted sand and aggregate. The overburden was not used as backfill, and was stockpiled on 10 MIL polyethylene sheeting on site pending dispensation.

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Soil Sampling

Five (5) soil samples were collected from the gasoline tank excavation below the tanks and one (1) sample was collected from below the lines. Soil sampling of the tanks occurred on October 3, 1990. These samples were obtained by excavating to the native soil/interface and driving a brass tube into the native soil. The sample from below the lines was collected directly without the use of the backhoe. At the direction of Mr. Barney Chan, two (2) of the samples were also analyzed for organic lead, samples (TIPIKA-N and TPIKA-S).

Samples were collected in brass tubes, sealed in teflon and plastic caps, and promptly stored in a cooler. Following completion of field work, samples were submitted to Anametrix Laboratory, San Jose, CA (DOHS #151) certified analytical laboratory for analyses under appropriate chain of custody protocol.

Five (5) soil samples were taken from beneath the former tanks (TPIKA-N, TPIKA-S, TPO.5K-C, TPIKB-N, and TPIKB-S). Their locations are noted in Plate 2. The samples were taken from the fill ends and the vent ends of the excavation. The product line sample was denoted as (TP-L-1). The results of that analysis is shown in attachment B.

Certified Analytical Results

Samples collected for minimum verification analyses (MVA) were analyzed in accordance with appropriate regulatory guidelines contained within Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks (RWQCB, 1988). Copies of soil analytical results are presented in Attachment B.

MVA for Underground Fuel Tank Excavation

The soil samples collected from the fill-natural materials interface ~~below the fuel tank~~ contained concentrations of the constituents sought ranging from not detected (N.D.) (TP-L-1) to 450 parts per million (ppm) ~~total petroleum hydrocarbons as gasoline (TPH-C)~~ (TPO.5K-C).

+ 8.7 ppm benzene

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Regulatory Guidelines

The RWQCB - San Francisco Bay Region has established a level of 100 ppm TPH concentrations in soil as a general decision value for requiring further definition of site soil and groundwater contamination where shallow groundwater conditions are known to exist. The origin of the 100 ppm level was to "develop a method to prioritize the case load and indicate whether a significant volume of fuel had been released or discharged" (RWQCB, June, 1988). In the interest of prudence and caution, the stockpiled material was not re-introduced as fill.

Copies of this report should be submitted to:

Regional Water Quality Control Board
1111 Jackson Street, Rm. 6000
Oakland, CA 94607
Attn: Dyan Whyte

Alameda County Health Care Services Agency
80 Swan Way, Room 200
Oakland, CA 94621

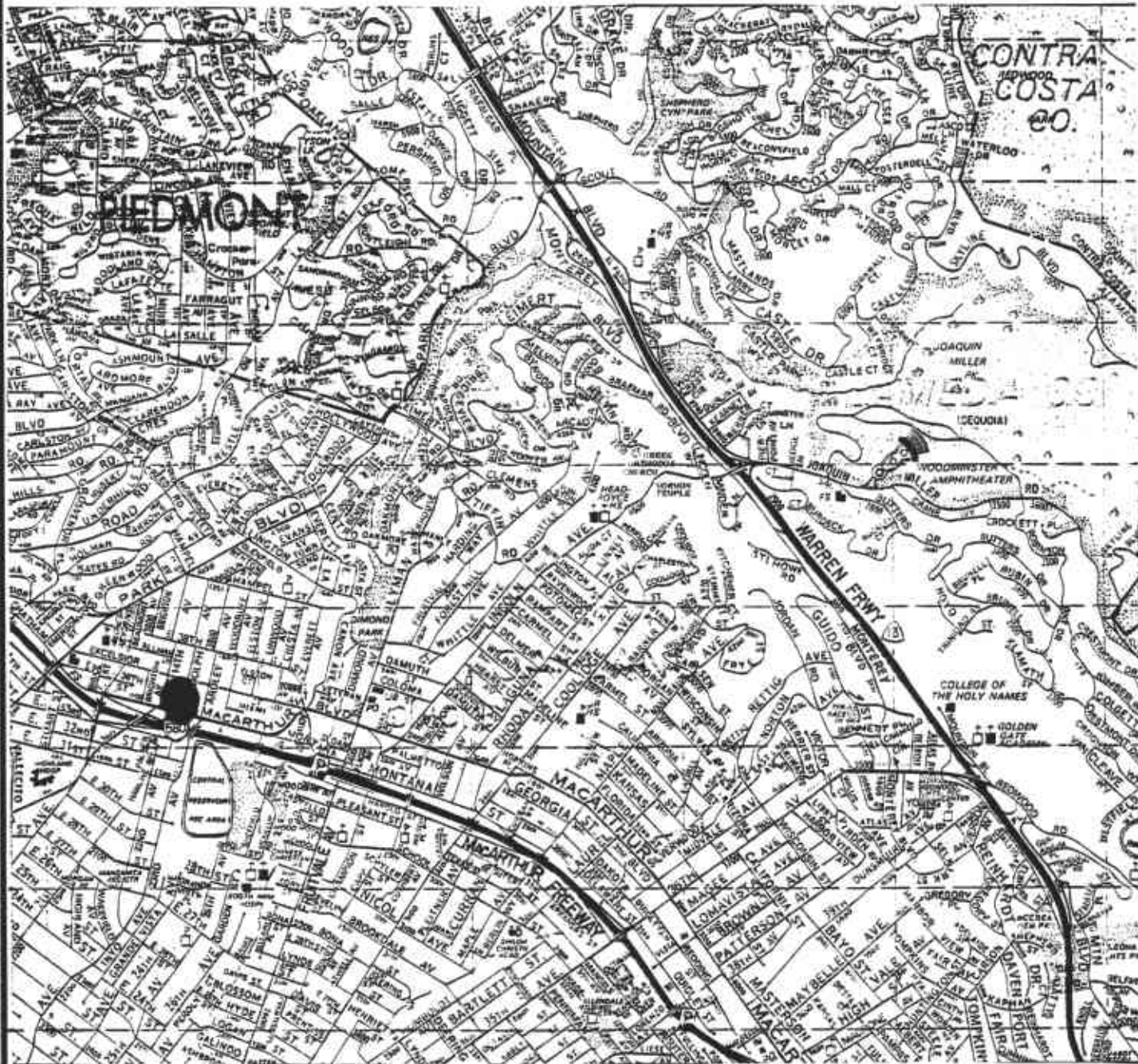
Additional copies of this report have been provided for the purpose of regulatory submittal.

Should you have any questions or comments regarding the evaluations presented in this report, please call.

Respectfully,

Kevin Krause
Vice President

KK/emm
Attachments



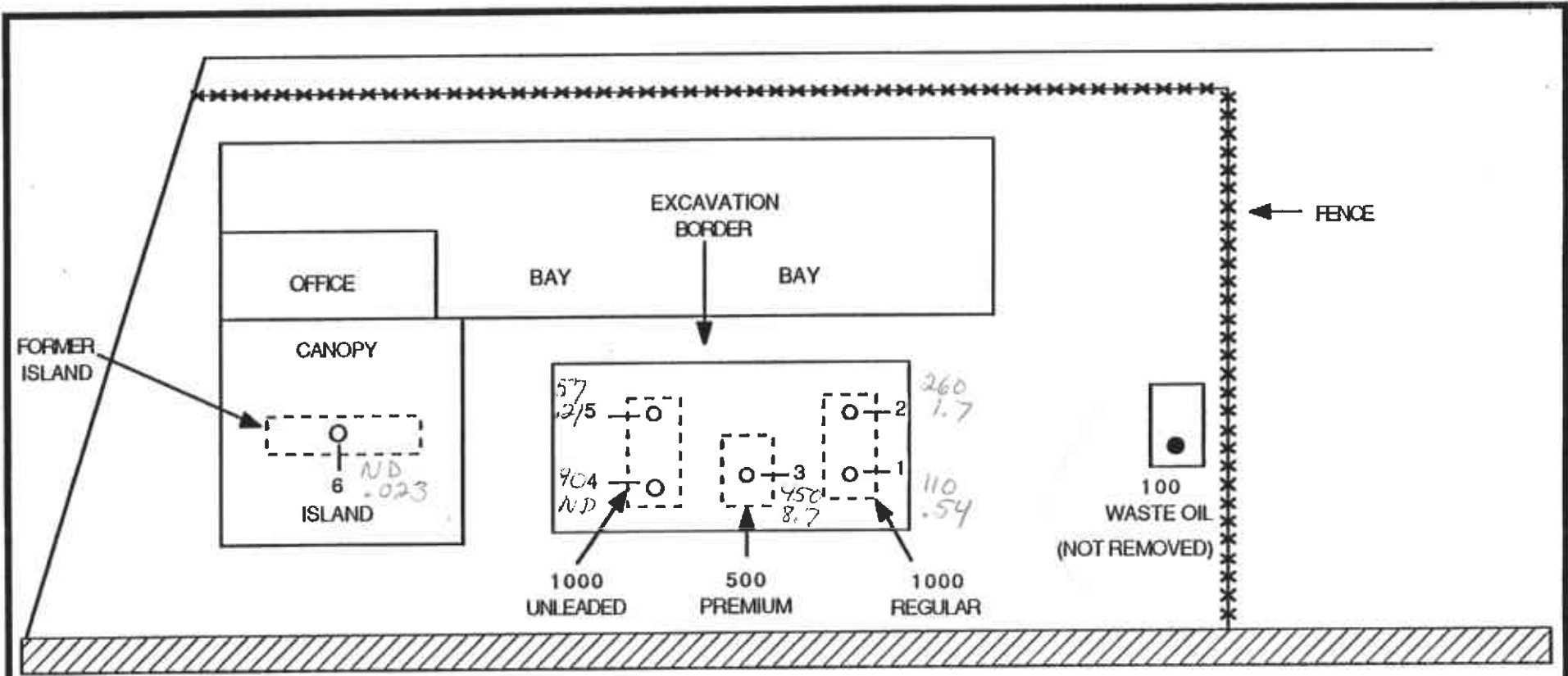
SCALE NTS
DATE 10/24/90
DRWG. BY EMM



PROJECT: 1098

SITE LOCATION
 Hooshi's Auto
 1499 Mac Arthur Boulevard
 Oakland, California

PLATE
 1



MAC ARTHUR BOULEVARD



TPH-g (ppm)
benz (ppm)

SCALE NTS
DATE 10/18/90
DRAWN BY EMM

KW & ASSOCIATES
43289 Osgood Road, Fremont, Ca 94539
(415) 623-0480
Cal. State Cont. Lic. #572427

SAMPLE LOCATION MAP

- 1 = TPIKA-N
- 2 = TPIKA-S
- 3 = TPO.5K-C
- 4 = TPIKB-N
- 5 = TPIKB-S
- 6 = TP-L-1

PROJECT NO.: 1099
HOOSHIS AUTO SERVICE
1499 Mac Arthur Blvd.
Oakland, California

PLATE

2

ATTACHMENT A

Hazardous Waste Manifests

ATTACHMENT B

**Certified Analytical
Reports**

ANAMETRIX INC

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

**REPORT**

MR. KEVIN KRAUSE
 KTW & ASSOCIATES
 43289 OSGOOD ROAD
 FREMONT, CA 94539

Workorder # : 9010041
 Date Received : 10/03/90
 Project ID : 1099
 Purchase Order: A2078

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

ANAMETRIX ID	CLIENT SAMPLE ID
9010041- 1	TP1KA-N
9010041- 2	TP1KA-S
9010041- 3	TPO.5K-C ✓
9010041- 4	TP1KB-N
9010041- 5	TP1KB-S
9010041- 6	TP-L-1

This report is paginated for your convenience and ease of review. It contains 8 pages excluding the cover letter. The report is organized into sections. Each section contains all analytical results and quality assurance data related to a specific group or section within Anamatrix. The Report Summary that precedes each section will help you determine which group at Anamatrix generated the data. The Report Summary will contain the signatures of the department supervisor and a chemist, both of whom reviewed the analytical data. Please refer all questions to the department supervisor that signed the form.

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

Burt Sutherland
 Burt Sutherland
 Laboratory Director

10-10-90
 Date

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

MR. KEVIN KRAUSE
KTW & ASSOCIATES
43289 OSGOOD ROAD
FREMONT, CA 94539

Workorder # : 9010041
Date Received : 10/03/90
Project ID : 1099
Purchase Order: A2078
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9010041- 1	TP1KA-N	SOIL	10/02/90	TPHg/BTEX
9010041- 2	TP1KA-S	SOIL	10/02/90	TPHg/BTEX
9010041- 3	TP0.5K-C	SOIL	10/02/90	TPHg/BTEX
9010041- 4	TP1KB-N	SOIL	10/02/90	TPHg/BTEX
9010041- 5	TP1KB-S	SOIL	10/02/90	TPHg/BTEX
9010041- 6	TP-L-1	SOIL	10/02/90	TPHg/BTEX

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

MR. KEVIN KRAUSE
KTW & ASSOCIATES
43289 OSGOOD ROAD
FREMONT, CA 94539

Workorder # : 9010041
Date Received : 10/03/90
Project ID : 1099
Purchase Order: A2078
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

Cheryl Balmer 10/5/90
Department Supervisor Date

C. F. 8 Oct 90
Chemist Date

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

Anamatrix W.O.: 9010041
Matrix : SOIL
Date Sampled : 10/02/90

Project Number : 1099
Date Released : 10/08/90

COMPOUNDS	Reporting Limit (mg/Kg)	Sample I.D.# TP1KA-N	Sample I.D.# TP1KA-S	Sample I.D.# TP0.5K-C	Sample I.D.# TP1KB-N	Sample I.D.# TP1KB-S
Benzene	0.005	0.54	1.7	8.7	ND	0.21
Toluene	0.005	2.4	15	57	ND	0.18
Ethylbenzene	0.005	1.6	5.4	12	0.61	0.35
Total Xylenes	0.005	9.5	35	82	1.3	1.4
TPH as Gasoline	0.5	110	260	450	90	57
% Surrogate Recovery		125%	108%	80%	102%	160%
Instrument I.D.		HP4	HP4	HP4	HP4	HP12
Date Analyzed		10/04/90	10/04/90	10/04/90	10/04/90	10/05/90
RLMF		25	250	250	100	10

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.

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

[Signature] 10 Oct 90
Analyst Date

Cheryl Palmer 10/10/90
Supervisor Date

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

Anametrix W.O.: 9010041
Matrix : SOIL
Date Sampled : 10/02/90

Project Number : 1099
Date Released : 10/08/90

	Reporting Limit	Sample I.D.# TP-L-1	Sample I.D.# 04B1004A	Sample I.D.# 12B1005A
COMPOUNDS	(mg/Kg)	-06	BLANK	BLANK
Benzene	0.005	0.023	ND	ND
Toluene	0.005	0.022	ND	ND
Ethylbenzene	0.005	ND	ND	ND
Total Xylenes	0.005	0.048	ND	ND
TPH as Gasoline	0.5	ND	ND	ND
% Surrogate Recovery		87%	77%	91%
Instrument I.D.		HP12	HP4	HP12
Date Analyzed		10/05/90	10/04/90	10/05/90
RLMF		1	1	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.

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

David Voigt 10/9/90
Analyst Date

Cheryl Balmer 10/9/90
Supervisor Date

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

MR. KEVIN KRAUSE
KTW & ASSOCIATES
43289 OSGOOD ROAD
FREMONT, CA 94539

Workorder # : 9010041
Date Received : 10/03/90
Project ID : 1099
Purchase Order: A2078
Department : METALS
Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9010041- 1	TP1KA-N	SOIL	10/02/90	ORG Pb
9010041- 2	TP1KA-S	SOIL	10/02/90	ORG Pb

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

MR. KEVIN KRAUSE
KTW & ASSOCIATES
43289 OSGOOD ROAD
FREMONT, CA 94539

Workorder # : 9010041
Date Received : 10/03/90
Project ID : 1099
Purchase Order: A2078
Department : METALS
Sub-Department: METALS

QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

Paul Schon 10-10-90
Department Supervisor Date

Manniguyen 10-4-90
Chemist Date

ANALYSIS DATA SHEET - ORGANIC LEAD
 ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9010041
 Matrix : SOIL
 Date Sampled : 10/02/90
 Project Number: 1099

Date Prepared : 10/03/90
 Date Analyzed : 10/03/90
 Date Released : 10/04/90
 Instrument I.D.: AA1

ELEMENTS		Organic Lead
EPA METHOD		LUFT
REPORTING LIMIT		0.08
ANAMETRIX ID	CLIENT ID	(mg/Kg)
9010041-01	TP1KA-N	ND
9010041-02	TP1KA-S	0.15
OMB1003S	METHOD BLANK	ND

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

Organic Lead by Leaking Underground Fuel Tank (LUFT) Manual, 1987
 California State Water Resources Control Board.

Oleg Nemchev 10-10-90
 Chemist Date

A. Skolov 10/10/90
 Chemist Date

ANAMETRIX, INC.
1961 CONCOURSE DRIVE, SUITE E
SAN JOSE, CA 95131, (408) 432-8192

ORGANIC LEAD MATRIX SPIKE REPORT

Spike I.D. : 9010041-01MS,MD
Assoc. WO # : 9010041
Date Analyzed: 10/03/90
Conc. Units : mg/Kg

Inst. ID: AA1
Date : 10/04/90
Matrix : SOIL

ELEMENTS	METHOD	SPIKE AMOUNT	SAMPLE CONC.	M S CONC.	% REC	M S D CONC.	% REC	R P D
Pb	LUFT	0.45	0.00	0.41	91.1	0.41	91.1	0.0

=====

COMMENT: Quality control limits for percent recovery are 75-125%
and 25% for RPD.

Manny Guyer 10-4-90
Chemist Date

A. Soliver 10/4/90
Chemist Date

9010641

2 1250 CR

Chain of Custody Record

DATE 10/3/90 PAGE 1 OF 1



43289 Osgood Road, Fremont, CA 94539 (415) 623-0480

Client: HOSHITS AUTO
Address: Macomber Blvd
SOLLAND, CA
Project: 1099

SAMPLERS SIGNATURE
Chris M. French

SAMPLE NO.	DATE	TIME	LOCATION	PARAMETERS											OTHERS	NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS							
				CAM METALS (18)	PR. POLLUTANT METALS (13)	GENERAL MINERALS	OIL & GREASE	TOG	BASENEUACIDS (ORGANICS)	PESTICIDES	VOLATILE ORGANICS (601/602)	VOLATILE ORGANICS (624)	TPH-G	TPH-D				BTX						
① TPIKA-N	10/2/90	1646	N SIDE IK#1												X							1	Stored on	
② TPIKA-S	10/2/90	1650	S SIDE IK#1												X								1	Dark ice;
③ TPO5K-C		1657	CORNER 0.5 IC												X								1	SOME DILUTION MAY BE NECESSARY;
④ TPIKB-N		17:03	N SIDE IK#2												X								1	48 HOUR PCR
⑤ TPIKB-S		17:07	S " " "												X								1	PREARRANGED
⑥ TP-L-1	V	17:15	LINE SAMPLE																					



RELINQUISHED BY <i>Chris M. French</i>	DATE 10/1/90	RECEIVED BY <i>Pat French</i>	DATE 10/5/90	RELINQUISHED BY	DATE 10/3/90	RECEIVED BY <i>Sylvia</i>	DATE 10/5/90
	TIME 10:40	<i>KTW & ASSOC</i>	TIME 10:40		TIME 11:50	<i>Anne</i>	TIME 11:50
RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE
	TIME		TIME		TIME		TIME

TOTAL # OF CONTAINERS 6
METHOD OF SHIPMENT HAND DELIV
SPECIAL HANDLING/T.A.T. 48 HR

426 P02
K. T. W. AND ASSOC.
OCT 03 '90 08:32