

File No. 8-90-421-SI

REPORT ON SOIL REMEDIATION
AT THE PLAZA CAR WASH
400 SAN PABLO AVENUE
ALBANY, CALIFORNIA
MAY 12, 1991

PREPARED FOR:
MR. MURRAY STEVENS
2351 SHORELINE DRIVE
ALAMEDA, CALIFORNIA 94501

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

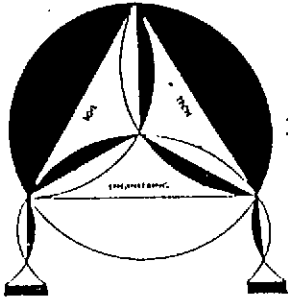
SOIL TECH ENGINEERING, INC.

File No. 8-90-421-SI

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SOIL TECH ENGINEERING

Soil, Foundation and Geological Engineers

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

May 12, 1991

File No. 8-90-421-SI

Kamur Industries
2351 Shoreline Drive
Alameda, California 94501

ATTENTION: MR. MURRAY STEVENS

SUBJECT: REPORT ON SOIL REMEDIATION AT THE PLAZA CAR WASH
LOCATED AT 400 SAN PABLO AVENUE, ALBANY, CALIFORNIA

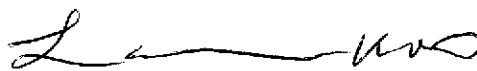
Dear Mr. Stevens:


Soil Tech Engineering, Inc. (STE), developed and implemented a plan to remediate fuel-affected soils excavated from the former underground tank complex at the Plaza Car Wash, 400 San Pablo Avenue, in Albany, California (Figure 4). Approximately 650 cubic yards of fuel-affected soil were remediated on-site by controlled aeration and nutrient treatment.

Enclosed is the report on the remediation of the excavated soil from the Plaza Car Wash.

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

Sincerely,
SOIL TECH ENGINEERING, INC.


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


FRANK HAMEDI-FARD
GENERAL MANAGER

REPORT ON
SOIL REMEDIATION AT PLAZA CAR WASH
400 SAN PABLO AVENUE
ALBANY, CALIFORNIA
MAY 14, 1991

EXCAVATION:

All excavation activities associated with tank removal are described in STE's report entitled "Underground Tank Soil Sampling and Excavation Report For Kamur Industries, Inc., Plaza Car Wash Site, 400 San Pablo Avenue, Albany, California", dated January 15, 1991.

CHARACTERIZATION OF STOCKPILED SOIL:

Approximately 650 cubic yards of fuel-affected soil were excavated, placed on thick plastic visquine, covered with plastic sheeting and stockpiled on-site (Figure 4). The stockpiled soil was divided into 6 smaller piles (F, M, N, P, T and S) for characterization and proper disposal (Figure 4). On November 13, 1990, the stockpiled contaminated soil was sampled by taking three discrete grab samples randomly from each pile at various depths ranging from 1 to 3 feet below the stockpiled surface. The three grab samples from each stockpile were composited by Anametrix (see Appendix B) and analyzed for Total Petroleum Hydrocarbons as Gasoline (TPHg) and Benzene, Toluene, Ethylbenzene and Xylene (BTEX). In addition, selected samples were analyzed for Volatile Organic Compounds per EPA Methods 601/8010 and Priority Pollutant Metals. The analytical results are summarized in Table 1.

The stockpiled soil analytical results showed elevated levels of TPHg ranging from 160 mg/kg to a maximum of 980 mg/kg. However,

File No. 8-90-421-SI

BTEX levels were low, and no Volatile Organic Compounds (EPA Method 8010) were detected in the three composite samples. None of the Priority Pollutant Metals analyzed exceeded State Department of Health Total Threshold Limit Concentrations (Title 22, Section 66699). Hence, it was determined that the soil is not hazardous and could be remediated on-site by aeration.

FIELD ACTIVITIES:

In accordance with Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 40, STE notified the BAAQMD of the proposed on-site bio-remediation of gasoline-affected soil five days before work began.

BIO-REMEDIATION OF GASOLINE-AFFECTED SOIL:

Gasoline-affected soil was aerated on-site between mid-December 1990 to April 2, 1991. In accordance with BAAQMD requirements, STE gave the BAAQMD at least 72 hours verbal notice before treatment began. Due to the limited area for treatment of soil, STE separated approximately 100 to 200 cubic yards from the stockpile and spread the soil to about 2-3 feet in height. Treatment consisted of aerating the soil twice a week by adding nutrients (bacteria-enriched compost) at a ratio of 5 to 1 by volume. The soil and compost material were then thoroughly blended, and the treated soil was later stockpiled on plastic and covered.

STE conducted field screening of the treated soil with a PID a week after aeration began to monitor its progress. To assess whether remediation of the soil was complete, every two to four weeks after soil treatment began, six random samples were taken from the treated soil. Treated soil was sampled on January 21, 1991, February 1, 1991, February 21, 1991, and April 2, 1991. The grab samples were composited in the laboratory as composite samples and

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analyzed for Total Petroleum Hydrocarbons as Gasoline (TPHg), Benzene, Toluene, Ethylbenzene and Xylene (BTEX).

All samples from the treated stockpiled soil were collected in clean brass tubes and stored in ice-cooled chests for delivery under STE's chain-of-custody procedure to a state-certified laboratory or on-site mobile lab. Treatment of soil was conducted only on dry days and at the end of the day all of the stockpiled soil plus the treated soils were covered with plastic sheets. The treatment of the stockpiled soil was conducted at a rate of 100 to 200 cubic yards at a time. After the soil was sampled, analytical results indicated that the concentration levels of TPHg were less than 100 parts per million, so the treated soil was transported to Redwood Landfill in Novato (Class III landfill) at a rate of 100 to 200 cubic yards at a time.

The analytical results of the soil samples from the treated gasoline affected stockpiled soil are summarized in Table 2. None of the soil samples exceeded 10 ppm for TPHg. Most of the soil showed BTEX to be non-detectable to maximum of 13 ppm.

Copies of all laboratory analyses and documents of disposal to the Redwood Landfill are attached in Appendix "C" of this report.

TABLE 1
SOIL ANALYTICAL RESULTS
FOR STOCKPILED SOIL PRIOR TO AERATION
IN MILLIGRAMS PER KILOGRAM (mg/kg)

I. Soil Analytical Results of Volatile Organic Compounds

Date	Composite Sample	TPHg	B	T	E	X	EPA Methods 601/8010
11/13/90	S-1-4, S-2-7 and S-3-4	160	ND	4.3	4.3	21	NA
	P-1-5, P-2-7 and P-3-4	980	4.4	53.0	26.0	130	NCD
	T-1-4, T-2-7 and T-3-4	230	7.2	5.6	5.8	18	NA
	M-1-4, M-2-6 and M-3-4	270	2.7	7.5	4.8	15	NCD
	N-1-4, N-2-7 and N-3-4	160	4.4	8.8	10.0	25	NA
	F-1-4, F-2-7 and F-3-5	750	12.0	54.0	21.0	110	NCD

TPHg = Total Petroleum Hydrocarbons as Gasoline
 BTEX = Benzene, Toluene, Ethylbenzene, Xylene
 NCD = No Compounds were Detected above Detection Limits
 NA = Not Analyzed

TABLE 2
SOIL ANALYTICAL RESULTS OF
TREATED STOCKPILED SOIL
IN
MILLIGRAMS PER KILOGRAM (mg/kg)

Date	Composite Soil Sample No.	TPHg	B	T	E	X
1/21/91	ST-1-6, 2-6, 3-6	ND	ND	ND	ND	ND
	ST-4, 5-6, 6-6	10	ND	0.075	0.07	0.23
2/01/91	ST-7-3, 8-2	7.1	ND	ND	0.028	0.22
	ST-9-5, 10-3	ND	ND	0.006	ND	0.016
	ST-11-4, 12-3	4.0	ND	ND	ND	0.07
	ST-13-3, 14-3	1.0	0.045	0.025	ND	0.015
2/21/91	A(1-4)	3.4	ND	ND	ND	0.15
	B(1-4)	ND	ND	ND	ND	ND
	C(1-4)	ND	ND	ND	ND	ND
	D(1-4)	ND	ND	ND	ND	ND
4/02/91	ST(1-4)-5	ND	ND	ND	ND	4
	ST(5-8)-5	7.0	ND	ND	ND	13

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

**LARGE
MAP
REMOVED**



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

Workorder # : 9011156
Date Received : 11/16/90
Project ID : 8-90-421-SI
Purchase Order: N/A

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

ANAMETRIX ID	CLIENT SAMPLE ID
9011156- 1	S-1-4,2-7,3-4
9011156- 2	P-1-5,2-7,3-4
9011156- 3	T-1-4,2-7,3-4
9011156- 4	M-1-4,2-6,3-4
9011156- 5	N-1-4,2-7,3-4
9011156- 6	F-1-4,2-7,3-5

This report is paginated for your convenience and ease of review. It contains 14 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 Anametrix. The Report Summary that precedes each section will help you determine which group at Anametrix 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 Anametrix.

Burt Sutherland

Burt Sutherland
Laboratory Director

12-07-90
Date

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

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

Workorder # : 9011156
Date Received : 11/16/90
Project ID : 8-90-421-SI
Purchase Order: N/A
Department : GC
Sub-Department: VOA

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9011156- 2	P-1-5,2-7,3-4	SOIL	11/13/90	8010
9011156- 4	M-1-4,2-6,3-4	SOIL	11/13/90	8010
9011156- 6	F-1-4,2-7,3-5	SOIL	11/13/90	8010

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

MR. FRANK HAMEDI
OIL TECH ENGINEERING
98 BROKAW ROAD
SANTA CLARA, CA 95050

Workorder # : 9011156
Date Received : 11/16/90
Project ID : 8-90-421-SI
Purchase Order: N/A
Department : GC
Sub-Department: VOA

QA/QC SUMMARY :

Due to interfering hydrocarbon peaks, samples P-1-4,2-7,3-4;
M-1-4,2-6,3-4; and F-1-4,2-7,3-5 were analyzed at a dilution.

Corinne Ham
Department Supervisor

12/07/90
Date

Juliet Ofwona 12/7/90
Chemist Date

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 601/8010
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 8-90-421-SI P-1-4,2-7,3-4
Matrix : SOIL
Date sampled : 11/13/90
Date analyzed: 11/20/90
Dilution : 100

Anamatrix I.D. : 9011156-02
Analyst : JWO
Supervisor : CS
Date released : 12/05/90
Instrument ID : HP24

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
74-87-3	* Chloromethane	100	ND
74-83-9	* Bromomethane	50	ND
75-71-8	* Dichlorodifluoromethane	100	ND
75-01-4	* Vinyl Chloride	50	ND
75-00-3	* Chloroethane	50	ND
75-09-2	* Methylene Chloride	50	ND
79-69-4	* Trichlorofluoromethane	50	ND
75-35-4	* 1,1-Dichloroethene	50	ND
75-34-3	* 1,1-Dichloroethane	50	ND
156-59-2	# Cis-1,2-Dichloroethene	50	ND
156-60-5	* Trans-1,2-Dichloroethene	50	ND
67-66-3	* Chloroform	50	ND
76-13-1	# Trichlorotrifluoroethane	50	ND
107-06-2	* 1,2-Dichloroethane	50	ND
71-55-6	* 1,1,1-Trichloroethane	50	ND
56-23-5	* Carbon Tetrachloride	50	ND
75-27-4	* Bromodichloromethane	50	ND
78-87-5	* 1,2-Dichloropropane	50	ND
10061-02-6	* Trans-1,3-Dichloropropene	50	ND
79-01-6	* Trichloroethene	50	ND
124-48-1	* Dibromochloromethane	50	ND
79-00-5	* 1,1,2-Trichloroethane	50	ND
10061-01-5	* cis-1,3-Dichloropropene	50	ND
110-75-8	* 2-Chloroethylvinylether	100	ND
75-25-2	* Bromoform	50	ND
127-18-4	* Tetrachloroethene	50	ND
79-34-5	* 1,1,2,2-Tetrachloroethane	50	ND
108-90-7	* Chlorobenzene	50	ND
95-50-1	* 1,2-Dichlorobenzene	100	ND
541-73-1	* 1,3-Dichlorobenzene	100	ND
106-46-7	* 1,4-Dichlorobenzene	100	ND
% Surrogate Recovery		33-134%	95%

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

* A 601/8010 approved compound (Federal Register, 10/26/84).

A compound added by Anamatrix, Inc.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 601/8010
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 8-90-421-SI M-1-4,2-6,3-4
Matrix : SOIL
Date sampled : 11/13/90
Date analyzed: 11/20/90
Dilution : 100

Anamatrix I.D. : 9011156-04
Analyst : Jto
Supervisor : CP
Date released : 12/05/90
Instrument ID : HP24

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
74-87-3	* Chloromethane	100	ND
74-83-9	* Bromomethane	50	ND
75-71-8	* Dichlorodifluoromethane	100	ND
75-01-4	* Vinyl Chloride	50	ND
75-00-3	* Chloroethane	50	ND
75-09-2	* Methylene Chloride	50	ND
79-69-4	* Trichlorofluoromethane	50	ND
75-35-4	* 1,1-Dichloroethene	50	ND
75-34-3	* 1,1-Dichloroethane	50	ND
156-59-2	# Cis-1,2-Dichloroethene	50	ND
156-60-5	* Trans-1,2-Dichloroethene	50	ND
67-66-3	* Chloroform	50	ND
76-13-1	# Trichlorotrifluoroethane	50	ND
107-06-2	* 1,2-Dichloroethane	50	ND
71-55-6	* 1,1,1-Trichloroethane	50	ND
56-23-5	* Carbon Tetrachloride	50	ND
75-27-4	* Bromodichloromethane	50	ND
78-87-5	* 1,2-Dichloropropane	50	ND
10061-02-6	* Trans-1,3-Dichloropropene	50	ND
79-01-6	* Trichloroethene	50	ND
124-48-1	* Dibromochloromethane	50	ND
79-00-5	* 1,1,2-Trichloroethane	50	ND
10061-01-5	* cis-1,3-Dichloropropene	50	ND
110-75-8	* 2-Chloroethylvinylether	100	ND
75-25-2	* Bromoform	50	ND
127-18-4	* Tetrachloroethene	50	ND
79-34-5	* 1,1,2,2-Tetrachloroethane	50	ND
108-90-7	* Chlorobenzene	50	ND
95-50-1	* 1,2-Dichlorobenzene	100	ND
541-73-1	* 1,3-Dichlorobenzene	100	ND
106-46-7	* 1,4-Dichlorobenzene	100	ND
% Surrogate Recovery		33-134%	84

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

* A 601/8010 approved compound (Federal Register, 10/26/84).

A compound added by Anamatrix, Inc.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 601/8010
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 8-90-421-SI F-1-4,2-7,3-5
Matrix : SOIL
Date sampled : 11/13/90
Date analyzed: 11/20/90
Dilution : 100

Anamatrix I.D. : 9011156-06
Analyst : *tro*
Supervisor : *CP*
Date released : 12/05/90
Instrument ID : HP24

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
74-87-3	* Chloromethane	100	ND
74-83-9	* Bromomethane	50	ND
75-71-8	* Dichlorodifluoromethane	100	ND
75-01-4	* Vinyl Chloride	50	ND
75-00-3	* Chloroethane	50	ND
75-09-2	* Methylene Chloride	50	ND
79-69-4	* Trichlorofluoromethane	50	ND
75-35-4	* 1,1-Dichloroethene	50	ND
75-34-3	* 1,1-Dichloroethane	50	ND
156-59-2	# Cis-1,2-Dichloroethene	50	ND
156-60-5	* Trans-1,2-Dichloroethene	50	ND
67-66-3	* Chloroform	50	ND
76-13-1	# Trichlorotrifluoroethane	50	ND
107-06-2	* 1,2-Dichloroethane	50	ND
71-55-6	* 1,1,1-Trichloroethane	50	ND
56-23-5	* Carbon Tetrachloride	50	ND
75-27-4	* Bromodichloromethane	50	ND
78-87-5	* 1,2-Dichloropropane	50	ND
10061-02-6	* Trans-1,3-Dichloropropene	50	ND
79-01-6	* Trichloroethene	50	ND
124-48-1	* Dibromochloromethane	50	ND
79-00-5	* 1,1,2-Trichloroethane	50	ND
10061-01-5	* cis-1,3-Dichloropropene	50	ND
110-75-8	* 2-Chloroethylvinylether	100	ND
75-25-2	* Bromoform	50	ND
127-18-4	* Tetrachloroethene	50	ND
79-34-5	* 1,1,2,2-Tetrachloroethane	50	ND
108-90-7	* Chlorobenzene	50	ND
95-50-1	* 1,2-Dichlorobenzene	100	ND
541-73-1	* 1,3-Dichlorobenzene	100	ND
106-46-7	* 1,4-Dichlorobenzene	100	ND
% Surrogate Recovery		33-134%	82%

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

* A 601/8010 approved compound (Federal Register, 10/26/84).

A compound added by Anamatrix, Inc.

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

Anamatrix W.O.: 9011156
 Matrix : SOIL
 Date Sampled : 11/13/90

Project Number : 8-90-421-SI
 Date Released : 12/05/90

Reporting Limit	Sample I.D.#	Sample I.D.#	Sample I.D.#
	F-1-4,2 -7,3-5	08B1127A	12B1126A
COMPOUNDS (mg/Kg)	-06	BLANK	BLANK
Benzene	0.005	12	ND
Toluene	0.005	54	ND
Ethylbenzene	0.005	21	ND
Total Xylenes	0.005	110	ND
TPH as Gasoline	0.5	750	ND
% Surrogate Recovery	106%	106%	82%
Instrument I.D.	HP8	HP8	HP12
Date Analyzed	11/27/90	11/27/90	11/26/90
RLMF	500	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.

Sarah Vogt 12/6/90
 Analyst Date

Cheyl Balmer 12/6/90
 Supervisor Date

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

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

Workorder # : 9011156
Date Received : 11/16/90
Project ID : 8-90-421-SI
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9011156- 1	S-1-4,2-7,3-4	SOIL	11/13/90	TPHg/BTEX
9011156- 2	P-1-5,2-7,3-4	SOIL	11/13/90	TPHg/BTEX
9011156- 3	T-1-4,2-7,3-4	SOIL	11/13/90	TPHg/BTEX
9011156- 4	M-1-4,2-6,3-4	SOIL	11/13/90	TPHg/BTEX
9011156- 5	N-1-4,2-7,3-4	SOIL	11/13/90	TPHg/BTEX
9011156- 6	F-1-4,2-7,3-5	SOIL	11/13/90	TPHg/BTEX

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

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

Workorder # : 9011156
Date Received : 11/16/90
Project ID : 8-90-421-SI
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for this workorder.

Cheryl Balmer 12/6/90
Department Supervisor Date

David Vogt 12/6/90
Chemist Date

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 601/8010
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : METHOD BLANK
Matrix : SOIL
Date sampled : N/A
Date analyzed: 11/20/90
Dilution : NONE

Anamatrix I.D. : 24B1120H02
Analyst : *dlc*
Supervisor : *GP*
Date released : 12/05/90
Instrument ID : HP24

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
74-87-3	* Chloromethane	1	ND
74-83-9	* Bromomethane	0.5	ND
75-71-8	* Dichlorodifluoromethane	1	ND
75-01-4	* Vinyl Chloride	0.5	ND
75-00-3	* Chloroethane	0.5	ND
75-09-2	* Methylene Chloride	0.5	ND
79-69-4	* Trichlorofluoromethane	0.5	ND
75-35-4	* 1,1-Dichloroethene	0.5	ND
75-34-3	* 1,1-Dichloroethane	0.5	ND
156-59-2	# Cis-1,2-Dichloroethene	0.5	ND
156-60-5	* Trans-1,2-Dichloroethene	0.5	ND
67-66-3	* Chloroform	0.5	ND
76-13-1	# Trichlorotrifluoroethane	0.5	ND
107-06-2	* 1,2-Dichloroethane	0.5	ND
71-55-6	* 1,1,1-Trichloroethane	0.5	ND
56-23-5	* Carbon Tetrachloride	0.5	ND
75-27-4	* Bromodichloromethane	0.5	ND
78-87-5	* 1,2-Dichloropropane	0.5	ND
10061-02-6	* Trans-1,3-Dichloropropene	0.5	ND
79-01-6	* Trichloroethene	0.5	ND
124-48-1	* Dibromochloromethane	0.5	ND
79-00-5	* 1,1,2-Trichloroethane	0.5	ND
10061-01-5	* cis-1,3-Dichloropropene	0.5	ND
110-75-8	* 2-Chloroethylvinylether	1	ND
75-25-2	* Bromoform	0.5	ND
127-18-4	* Tetrachloroethene	0.5	ND
79-34-5	* 1,1,2,2-Tetrachloroethane	0.5	ND
108-90-7	* Chlorobenzene	0.5	ND
95-50-1	* 1,2-Dichlorobenzene	1	ND
541-73-1	* 1,3-Dichlorobenzene	1	ND
106-46-7	* 1,4-Dichlorobenzene	1	ND
% Surrogate Recovery		33-134%	88%

ND : Not detected at or above the practical quantitation limit for the method.
* A 601/8010 approved compound (Federal Register, 10/26/84).
A compound added by Anamatrix, Inc.

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

Anamatrix W.O.: 9011156
Matrix : SOIL
Date Sampled : 11/13/90

Project Number : 8-90-421-SI
Date Released : 12/05/90

Reporting Limit	Sample I.D.#	Sample I.D.#	Sample I.D.#	Sample I.D.#	Sample I.D.#
	S-1-4,2 -7,3-4	P-1-5,2 -7,3-4	T-1-4,2 -7,3-4	M-1-4,2 -6,3-4	N-1-4,2 -7,3-4

COMPOUNDS	(mg/Kg)	-01	-02	-03	-04	-05
Benzene	0.005	ND	4.4	7.2	2.7	4.4
Toluene	0.005	4.3	53	5.6	7.5	8.8
Ethylbenzene	0.005	4.3	26	5.8	4.8	10
Total Xylenes	0.005	21	130	18	15	25
TPH as Gasoline	0.5	160	980	230	270	160
% Surrogate Recovery		88%	116%	103%	164%	89%
Instrument I.D.		HP8	HP8	HP12	HP12	HP12
Date Analyzed		11/27/90	11/27/90	11/26/90	11/26/90	11/27/90
RLMF		100	250	100	50	250

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

C. Fern 12.07.90
Analyst Date

Cheryl Balmer 12/7/90
Supervisor Date

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

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

Workorder # : 9011156
Date Received : 11/16/90
Project ID : 8-90-421-SI
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9011156- 1	S-1-4,2-7,3-4	SOIL	11/13/90	T 22-MET
9011156- 3	T-1-4,2-7,3-4	SOIL	11/13/90	T 22-MET
9011156- 5	N-1-4,2-7,3-4	SOIL	11/13/90	T 22-MET

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

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

Workorder # : 9011156
Date Received : 11/16/90
Project ID : 8-90-421-SI
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

QA/QC SUMMARY :

Arsenic digests were subcontracted to Mid-Pacific Environmental Laboratory.

Sample T-1-4,2-7,3-4 was diluted 1:2 for EPA Method 6010 due to matrix interferences.

Manny Ramirez 12-06-90
Department Supervisor Date

G. Johnson 12-06-90
Chemist Date

ANALYSIS DATA SHEET - TITLE 22 METALS
 ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9011156
 Matrix : SOIL
 Date Sampled : 11/13/90
 Project Number: 8-90-421-SI

Date Prepared : 11/28/90
 Date Analyzed : 11/29/90
 Date Released : 12/06/90
 Instrument I.D.: AA1/ICP1

EPA Method#	Reporting Limit	Sample	Sample	Sample
		I.D.#	I.D.#	I.D.#
		S-1-4,2	N-1-4,2	METHOD
		-7,3-4	-7,3-4	BLANK
ELEMENTS	(mg/Kg)	-01	-05	MB1128S
Silver (Ag)	6010	0.5	ND	ND
Barium (Ba)	6010	5.0	195	258
Beryllium (Be)	6010	0.25	0.73	0.72
Cadmium (Cd)	6010	0.25	ND	ND
Cobalt (Co)	6010	2.5	15.1	24.6
Total Cr	6010	0.5	61.5	55.6
Copper (Cu)	6010	1.25	28.3	26.2
Mercury (Hg)	7471	0.025	0.11	0.17
Molybdenum (Mo)	6010	0.5	ND	ND
Nickel (Ni)	6010	2.0	92.9	89.1
Lead (Pb)	6010	2.0	15.6	9.03
Antimony (Sb)	6010	3.0	ND	ND
Selenium (Se)	7740	0.25	ND	ND
Thallium (Tl)	7841	0.5	ND	ND
Vanadium (V)	6010	2.5	41.5	41.9
Zinc (Zn)	6010	1.0	93.8	45.5

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

All Metals by EPA Method 6010/7000, Test Method for Evaluating Solid Waste, SW-846 3rd Edition November 1986, and California Administrative Code Title 22, Section 66699.

Manny Nguyen 12-06-90
 Chemist Date

A. Johnson 12-06-90
 Chemist Date

ANALYSIS DATA SHEET - TITLE 22 METALS
 ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9011156
 Matrix : SOIL
 Date Sampled : 11/13/90
 Project Number: 8-90-421-SI

Date Prepared : 11/28/90
 Date Analyzed : 11/29/90
 Date Released : 12/06/90
 Instrument I.D.: AA1/ICP1

EPA Method#	Reporting Limit	Sample I.D.#	Sample I.D.#
		T-1-4,2	
		-7,3-4	BLANK
ELEMENTS		-03	MB1128S

Silver (Ag)	6010	1.0	ND	ND
Barium (Ba)	6010	10.0	77.6	ND
Beryllium (Be)	6010	0.50	ND	ND
Cadmium (Cd)	6010	0.50	ND	ND
Cobalt (Co)	6010	5.0	5.8	ND
Total Cr	6010	1.0	23.8	ND
Copper (Cu)	6010	2.5	10.7	ND
Mercury (Hg)	7471	0.025	0.21	ND
Molybdenum (Mo)	6010	1.0	ND	ND
Nickel (Ni)	6010	4.0	37.2	ND
Lead (Pb)	6010	4.0	7.9	ND
Antimony (Sb)	6010	6.0	ND	ND
Selenium (Se)	7740	0.25	ND	ND
Thallium (Tl)	7841	0.5	ND	ND
Vanadium (V)	6010	5.0	15.9	ND
Zinc (Zn)	6010	2.0	24.4	ND

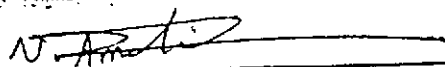
ND : Not detected at or above the practical quantitation limit for the method.

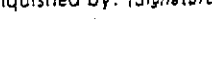
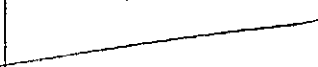

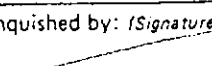

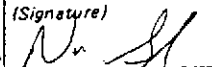
All Metals by EPA Method 6010/7000, Test Method for Evaluating Solid Waste, SW-846 3rd Edition November 1986, and California Administrative Code Title 22, Section 66699.

Mary Hughes 12/07/90
 Chemist Date

Oleg Nemchenko 12-07-90
 Chemist Date

CHAIN OF CUSTODY RECORD

PROJ. NO.		NAME				CONTAINER	ANALYSES REQUESTED						REMARKS
8-90-421-SI		KAMUR INDUSTRIES					TPHG/BTERX CAM 17 80.10						
SAMPLERS (Signature)												REMARKS	
													
NO.	DATE	TIME	SOIL	WATER	LOCATION								
1	11/13	1 ⁴⁰	✓		S-1-4	1	✓	✓				} COMP.	Cold, no headspace
2	11/13	1 ⁴⁰	✓		S-2-7	1	✓	✓					
3	11/13	1 ⁴⁵	✓		S-3-4	1	✓	✓					
4	11/13	1 ⁵⁰	✓		P-1-5	1	✓	✓				} COMP.	
5	11/13	1 ⁵⁵	✓		P-2-7	1	✓	✓					
6	11/13	2 ⁰⁰	✓		P-3-4	1	✓	✓					
7	11/13	2 ⁰⁵	✓		T-1-4	1	✓	✓				} COMP.	
8	11/13	2 ¹⁰	✓		T-2-7	1	✓	✓					
9	11/13	2 ¹⁵	✓		T-3-4	1	✓	✓					
10	11/13	2 ²⁰	✓		M-1-4	1	✓	✓				} COMP.	
11	11/13	2 ²⁵	✓		M-2-6	1	✓	✓					
12	11/13	2 ³⁵	✓		M-3-4	1	✓	✓					
13	11/13	2 ⁴⁵	✓		N-1-4	1	✓	✓				} COMP.	
14	11/13	2 ⁵⁰	✓		N-2-7	1	✓	✓					
15	11/13	3 ⁰⁰	✓		N-3-4	1	✓	✓					

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 by: (Signature)
					
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
	11/13/90 11 AM		11/14/90 1115	NTA	



SOIL TECH ENGINEERING

Soil, Foundation and Geological Engineers

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

PROJ. NO.		NAME				CONTAINER	ANALYSES REQUESTED				REMARKS	
8-90-421-SI		KAMUR INDUSTRIES					TPH/G/BTEX	CAN 17	80.10			
SAMPLERS: (Signature)												
N. [Signature]												
NO.	DATE	TIME	SOIL	WATER	LOCATION							
1	11/13	1 ⁴⁰	/		S-1-4	1	/	/				} COMP.
2	11/13	1 ⁴⁰	/		S-2-7	1	/	/				
3	11/13	1 ⁴⁵	/		S-3-4	1	/	/				
4	11/13	1 ⁵⁰	/		P-1-5	1	/	/				} COMP.
5	11/13	1 ⁵⁵	/		P-2-7	1	/	/				
6	11/13	2 ⁰⁰	/		P-3-4	1	/	/				
7	11/13	2 ⁰⁵	/		T-1-4	1	/	/				} COMP.
8	11/13	2 ¹⁰	/		T-2-7	1	/	/				
9	11/13	2 ¹⁵	/		T-3-4	1	/	/				
10	11/13	2 ²⁰	/		M-1-4	1	/	/				} COMP.
11	11/13	2 ²⁵	/		M-2-6	1	/	/				
12	11/13	2 ³⁵	/		M-3-4	1	/	/				
13	11/13	2 ⁴⁵	/		N-1-4	1	/	/				} COMP.
14	11/13	2 ⁵⁰	/		N-2-7	1	/	/				
15	11/13	3 ⁰⁰	/		N-3-4	1	/	/				

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 by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
N. [Signature]	11/13/90 11 ¹⁵ AM	N. [Signature]	11/16/90 1115	NTA	



SOIL TECH ENGINEERING

-Soil, Foundation and Geological Engineers-



1964 Concourse Drive, Suite F
San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

December 13, 1990

Mr. Frank Hamedi
SOIL TECH ENGINEERING
298 Brokaw Road
Santa Clara, CA 95050

Dear Mr. Hamedi:

Enclosed are the results of work from your Project Number 8-90-421-SI, received by Anamatrix, Inc. on November 16, 1990. The following analysis, **Arsenic (EPA Method 7060)**, was performed by a laboratory sub-contracted by Anamatrix, Inc.

Anamatrix I.D.#

Client I.D. #

9011156-01

S-1-4,2-7,3-4

9011156-03

T-1-4,2-7,3-4

9011156-05

N-1-4,2-7,3-4

If you have any questions concerning this workorder, please call me at (408)432-8192.

Sincerely,

ANAMETRIX, INC.

Jennifer Payne
Client Services Representative

JP/mh/4251

Enclosures

Table 2. Metals Results

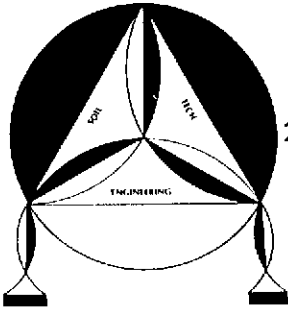
Anamatrix Sample ID

Parameter	EPA Method	9011156	9011156	9011156	Post Digestion Spike	Method Blank
		-01	-03	-05	% Recov	mg/L
Arsenic	7060	5.0	2.8	3.8	71	<0.005

Table 2. Metals Results

Anamatrix Sample ID

Parameter	EPA Method	Method Detection Limit ----- mg/kg
Arsenic	7060	2.5



SOIL TECH ENGINEERING

Soil, Foundation and Geological Engineers

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

January 29, 1991

Redwood Sanitary Landfill, Inc.
8950 Redwood Highway
P.O. Box 793
Novato, California 94948

Attention: Mr. Blair Virgin

Dear Mr. Virgin:

Enclosed is information regarding petroleum hydrocarbon contaminated soil that we wish to dispose of at your site.

The soil stockpile is a result of the removal of three underground gasoline storage tanks from the property owned by Kamur Industries, Inc., located at 400 San Pablo Avenue, Albany, California. No other tanks are or ever have been on the site.

In total, the soil stockpile is approximately 650 yards. The stockpile is currently stored on-site and is being treated by aeration and bio-remediation. However, due to limited space, we are only able to treat 100 yards at a time; we are proposing to dispose of the soil in the same manner.

After treatment of the first 100 yards of soil, samples were taken at a depth of approximately 2 and 3 feet, with the aid of a hand sampler, in a brass tube. The ends of the tube were capped and sealed, and the tube was labeled and placed in an ice chest for

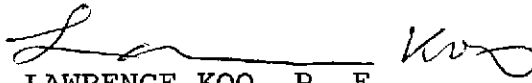
delivery to Anametrix, in San Jose, accompanied by the proper chain-of-custody form. Eight samples were taken from the stockpile into four brass tubes and composited into two samples by the laboratory.


The samples were analyzed for Total Petroleum Hydrocarbons as Gasoline (TPHg), Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX) and Organic Lead. Analytical results showed non-detectable levels of all constituents tested in the first composite sample and low levels of Toluene (0.075 mg/kg), Ethylbenzene (0.070 mg/kg), Total Xylenes (0.23 mg/kg), TPHg (10 mg/kg) and Lead levels were non-detectable in the second composite sample.

Thank you for your consideration.

Sincerely,


NOORODDIN AMELI
STAFF ENGINEER


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


RICHARD DOWNS
ENVIRONMENTAL EDITOR


FRANK HAMEDI-FARD
GENERAL MANAGER

SOIL TECH ENGINEERING, INC.

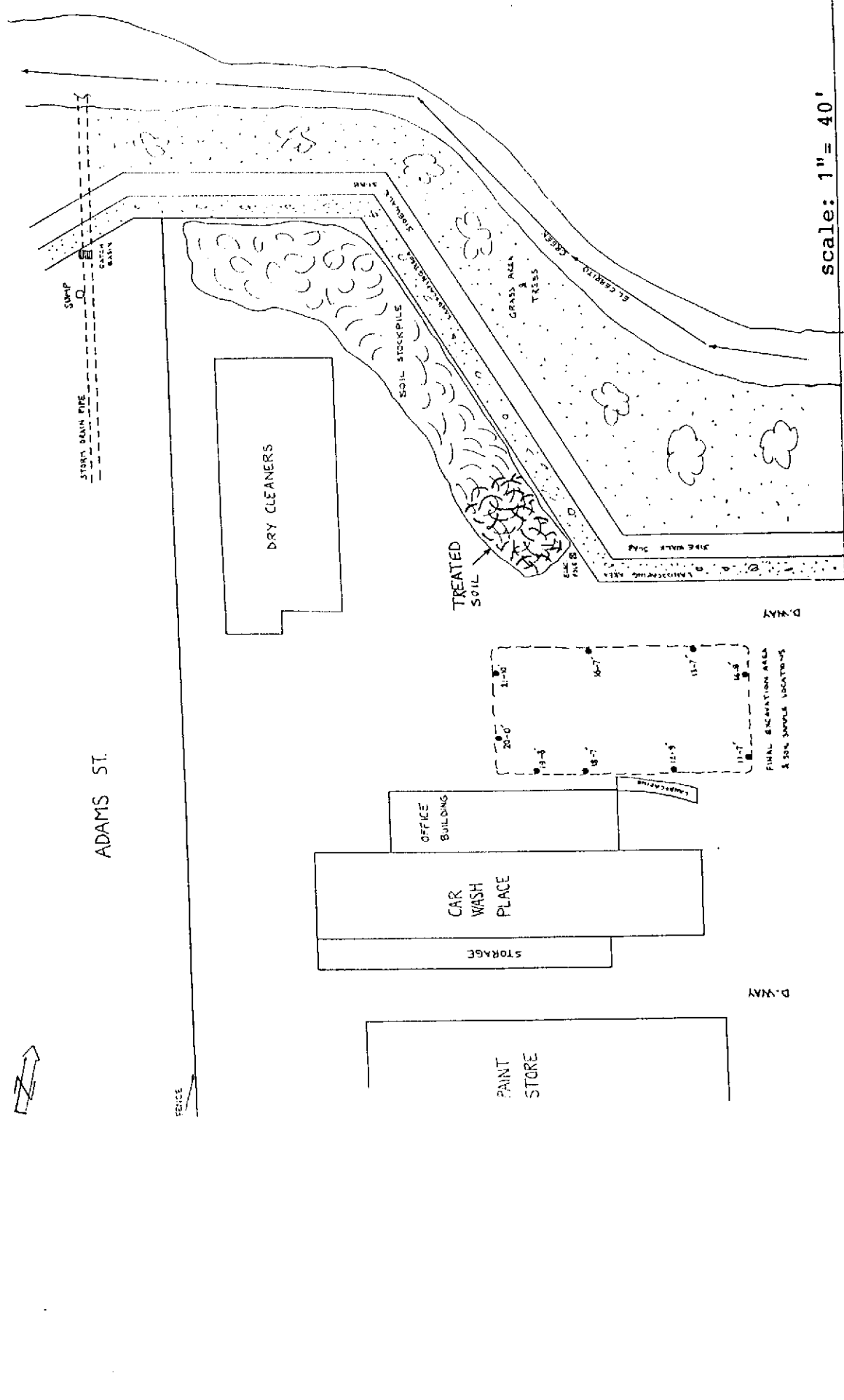


Figure 1

SOIL TECH ENGINEERING, INC.

STREET FLOW LINE

ANAMETRIX INC

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

**REPORT**

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

Workorder # : 9101207
 Date Received : 01/22/91
 Project ID : 8-90-421-SI
 Purchase Order: N/A

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

ANAMETRIX ID	CLIENT SAMPLE ID
9101207- 1	ST-1-6, 2-6, 3-6
9101207- 2	ST-4-6, 5-6, 6-6

This report consists of 6 pages not including the cover letter, and is organized in sections according to the specific Anamatrix 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 Anamatrix 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.

Anamatrix 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 Accreditation 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 Anamatrix.

Burt Sutherland

 Burt Sutherland
 Laboratory Director

1-29-91

 Date

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

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

Workorder # : 9101207
Date Received : 01/22/91
Project ID : 8-90-421-SI
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9101207- 1	ST-1-6,2-6,3-6	SOIL	01/21/91	TPHg/BTEX
9101207- 2	ST-4-6,5-6,6-6	SOIL	01/21/91	TPHg/BTEX

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

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

Workorder # : 9101207
Date Received : 01/22/91
Project ID : 8-90-421-SI
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Cheryl Bulman 1/28/91
Department Supervisor Date

Gareth Wright 1/28/91
Chemist Date

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

Anamatrix W.O.: 9101207
Matrix : SOIL
Date Sampled : 01/21/91

Project Number : 8-90-421-SI
Date Released : 01/28/91

Reporting Limit	Sample I.D.#	Sample I.D.#	Sample I.D.#
	ST-1,6, 2-6,3-6	ST-4-6, 5-6,6-6	21B0123C
COMPOUNDS (mg/Kg)	-01	-02	BLANK
Benzene	0.005	ND	ND
Toluene	0.005	ND	0.075
Ethylbenzene	0.005	ND	0.070
Total Xylenes	0.005	ND	0.23
TPH as Gasoline	0.5	ND	10
% Surrogate Recovery	114%	117%	97%
Instrument I.D.	HP21	HP21	HP21
Date Analyzed	01/23/91	01/23/91	01/23/91
RLMF	1	2	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.

Anamatrix Control limits for surrogate recovery are 53-147%.

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

Paul Wright 1/28/91
Analyst Date

Cheryl Budman 1-28-91
Supervisor Date

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

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

Workorder # : 9101207
Date Received : 01/22/91
Project ID : 8-90-421-SI
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9101207- 1	ST-1-6, 2-6, 3-6	SOIL	01/21/91	Org Pb
9101207- 2	ST-4-6, 5-6, 6-6	SOIL	01/21/91	Org Pb

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

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

Workorder # : 9101207
Date Received : 01/22/91
Project ID : 8-90-421-SI
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

Manny Herrera
Department Supervisor

1/29/91
Date

Dey Hernandez 01-29-91
Chemist Date

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

Anamatrix W.O.: 9101207
 Matrix : SOIL
 Date Sampled : 01/21/91
 Project Number: 8-90-421-SI

Date Prepared : 01/28/91
 Date Analyzed : 01/28/91
 Date Released : 01/29/91
 Instrument I.D.: AA1

ELEMENTS		Organic Lead
EPA METHOD		LUFT
REPORTING LIMIT		0.08
ANAMETRIX ID	CLIENT ID	(mg/Kg)
9101207-01	ST-1-6,2-6,3-6	ND
9101207-02	ST-4-6,5-6,6-6	ND
OMB0128S	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.

Mannaygura 1/29/91
 Chemist Date

Oleg Novchenov 01-29-91
 Chemist Date

CHAIN OF CUSTODY RECORD

9/10/201

Anamethrix ②

1400

PROJ. NO. 8-20-421-51 NAME 400 SAN PABLO AVE. ALBANY

SAMPLERS: (Signature) *N. Am...*

CON-TAINER

ANALYSES REQUESTED ②
TTHG/BTEX X

REMARKS

NO.	DATE	TIME	SOIL	WATER	LOCATION	CON-TAINER	ANALYSES REQUESTED ②	REMARKS
① 1	1/21	2 ⁰⁵ PM	✓		ST-1-6	1	✓	COMP.
2	1/21	2 ¹⁵ PM	✓		ST-2-6	1	✓	
3	1/21	2 ¹⁹ PM	✓		ST-3-6	1	✓	
4	1/21	2 ³⁵ PM	✓		ST-4-6	1	✓	COMP.
② 5	1/21	2 ⁴⁰ PM	✓		ST-5-6	1	✓	
6	1/21	3 ²⁰ PM	✓		ST-6-6	1	✓	

Relinquished by: (Signature) <i>Diep Nguyen</i>	Date / Time 1/22/91 1330	Received by: (Signature) <i>Benny L. ...</i>	Relinquished by: (Signature) <i>Benny L. ...</i>	Date / Time 1/24/91 1355	Received by: (Signature) <i>[Signature]</i>
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)

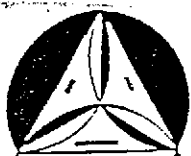
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) <i>[Signature]</i>	Date / Time 01/22/91 1355	Remarks 48 Hrs. T.A.
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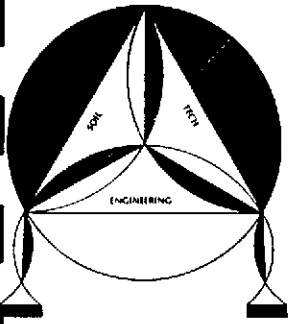


CHAIN OF CUSTODY RECORD

Anametrin

PROJ. NO. 8-90-421-SI		NAME 400 SAN PABLO AVE. ALBANY				CON-TAINER	ANALYSES REQUESTED (2) THG/BTEX				REMARKS
SAMPLERS: (Signature) <i>N. Am...</i>											
NO.	DATE	TIME	SOIL	WATER	LOCATION						
1	1/21	2 ⁰³ PM	✓		ST-1-6	1	✓				} COMP.
2	1/21	2 ¹⁵ PM	✓		ST-2-6	1	✓				
3	1/21	2 ²⁰ PM	✓		ST-3-6	1	✓				
4	1/21	2 ³⁵ PM	✓		ST-4-6	1	✓				
5	1/21	2 ⁴⁵ PM	✓		ST-5-6	1	✓				
6	1/21	3 ²⁰ PM	✓		ST-6-6	1	✓				
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Receive by: (Signature)	
<i>Diep Nguyen</i>		1/22/91 1330		<i>James J. ...</i>							
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			
								48 Hrs. T.A.			





SOIL TECH ENGINEERING

Soil, Foundation and Geological Engineers

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

February 6, 1991

Redwood Sanitary Landfill, Inc.
8950 Redwood Highway
P.O. Box 793
Novato, California 94948

Attention: Mr. Blair Virgin

Dear Mr. Virgin:

Enclosed is information regarding petroleum hydrocarbon contaminated soil that we wish to dispose of at your site.

The soil stockpile is a result of the removal of three underground gasoline storage tanks from the property owned by Kamur Industries, Inc., located at 400 San Pablo Avenue, Albany, California. No other tanks are or ever have been on the site.

In total, the soil stockpile is approximately 650 yards. The stockpile is currently stored on-site and is being treated by aeration and bio-remediation. Previously, approximately 100 to 150 yards from this stockpile was treated, tested and disposed of at your facility. At present, we are proposing to dispose of an additional 200 yards of soil.

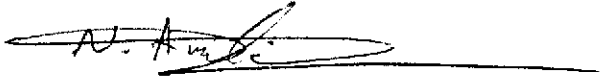
After treatment, soil samples were taken at a depth of approximately 2 and 3 feet, with the aid of a hand sampler, in a brass tube. The ends of the tube were capped and sealed, and the tube was labeled and placed in an ice chest for delivery to Anametrix,

in San Jose, accompanied by the proper chain-of-custody form. Sixteen samples were taken from the stockpile into eight brass tubes and composited into four samples by the laboratory.

The samples were composited and analyzed for Total Petroleum Hydrocarbons as Gasoline (TPHg), Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX). Analytical results showed TPHg ranged from <0.5 parts per million (ppm) to 7.1 ppm, Benzene (<0.005 ppm to 0.045 ppm), Toluene (0.006 ppm to 0.025 ppm), Ethylbenzene (<0.005 ppm to 0.028 ppm) and Xylenes (0.015 ppm to 0.22 ppm).

Thank you for your consideration.

Sincerely,



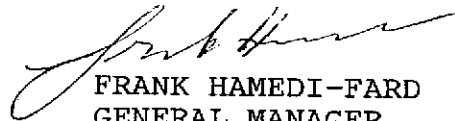
NOORODDIN AMELI
STAFF ENGINEER



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



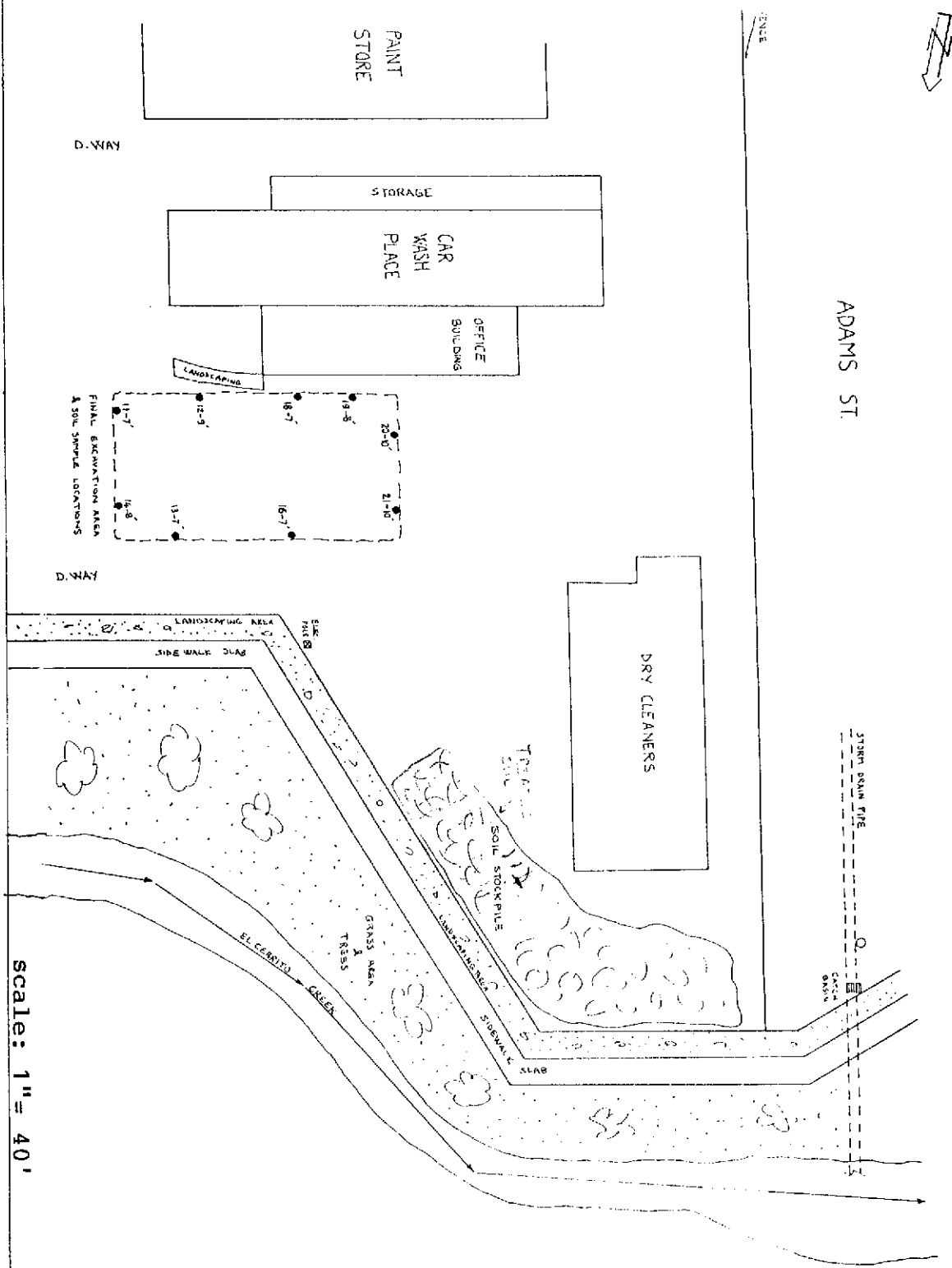
RICHARD DOWNS
ENVIRONMENTAL EDITOR



FRANK HAMEDI-FARD
GENERAL MANAGER

SOIL TECH ENGINEERING, INC.

STREET FLOW LINE



scale: 1" = 40'

ANAMETRIX INC

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

**REPORT**

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

Workorder # : 9102019
 Date Received : 02/01/91
 Project ID : 8-90-421-SI
 Purchase Order: N/A

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

ANAMETRIX ID	CLIENT SAMPLE ID
9102019- 1	ST-7-3,8-2
9102019- 2	ST-9-5,10-3
9102019- 3	ST-11-4,12-3
9102019- 4	ST-13-3,14-3

This report consists of 3 pages not including the cover letter, and is organized in sections according to the specific Anamatrix 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 Anamatrix 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.

Anamatrix 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 Accreditation 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 Anamatrix.

Burt Sutherland

 Burt Sutherland
 Laboratory Director

2-6-91

 Date

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

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

Workorder # : 9102019
Date Received : 02/01/91
Project ID : 8-90-421-SI
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9102019- 1	ST-7-3,8-2	SOIL	02/01/91	TPHg/BTEX
9102019- 2	ST-9-5,10-3	SOIL	02/01/91	TPHg/BTEX
9102019- 3	ST-11-4,12-3	SOIL	02/01/91	TPHg/BTEX
9102019- 4	ST-13-3,14-3	SOIL	02/01/91	TPHg/BTEX

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

Anamatrix W.O.: 9102019
Matrix : SOIL
Date Sampled : 02/01/91

Project Number : 8-90-421-SI
Date Released : 02/06/91

Reporting Limit	Sample I.D.#	Sample I.D.#	Sample I.D.#	Sample I.D.#	Sample I.D.#	
	ST-7-3,8-2	ST-9-5,10-3	ST-11-4,12-3	ST-13-3,14-3	04B0205A	
COMPOUNDS	(mg/Kg)	-01	-02	-03	-04	BLANK
Benzene	0.005	ND	ND	ND	0.045	ND
Toluene	0.005	ND	0.006	ND	0.025	ND
Ethylbenzene	0.005	0.028	ND	ND	ND	ND
Total Xylenes	0.005	0.22	0.016	0.070	0.015	ND
TPH as Gasoline	0.5	7.1	ND	4.0	1.0	ND
% Surrogate Recovery		109%	82%	94%	85%	104%
Instrument I.D.		HP4	HP4	HP4	HP4	HP4
Date Analyzed		02/05/91	02/05/91	02/05/91	02/05/91	02/05/91
RLMF		2	1	2	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.
Anamatrix control limits for surrogate recovery are 53-147%.

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

Harold Wright 2-6-91
Analyst Date

Paul Schaefer 2-6-91
Supervisor Date

CHAIN OF CUSTODY RECORD

910209

PROJ. NO.		NAME															
8-90-421-SI		400 SAN PABLO AVE. ALBANY															
SAMPLERS: (Signature) <i>N. Amato</i>												CON-TAINER		ANALYSES REQUESTED TPHG / BTG&X		REMARKS All samples cold, ok. no bands present	
NO.	DATE	TIME	SOIL	WATER	LOCATION												
1	2/1/91	2:25 PM	✓		ST-7-3	1	✓									} COMP	
2	2/1/91	2:35 PM	✓		ST-8-2	1	✓										
3	2/1/91	2:45 PM	✓		ST-9-5	1	✓									} COMP	
4	2/1/91	2:50 PM	✓		ST-10-3	1	✓										
5	2/1/91	2:55 PM	✓		ST-11-4	1	✓									} COMP	
6	2/1/91	2:55 PM	✓		ST-12-3	1	✓										
7	2/1/91	2:55 PM	✓		ST-13-3	1	✓									} COMP	
8	2/1/91	2:55 PM	✓		ST-14-3	1	✓										


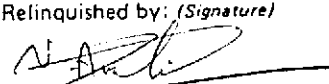

Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
Relinquished by: (Signature) <i>N. Amato</i>		Date / Time 2/1/91 5:50 PM		Received for Laboratory by: (Signature) <i>[Signature]</i>		Date / Time 2/1/91 17:50		Remarks 45 HRS T.A.			

01
02
03
04



SOIL TECH ENGINEERING
Soil, Foundation and Geological Engineers

CHAIN OF CUSTODY RECORD

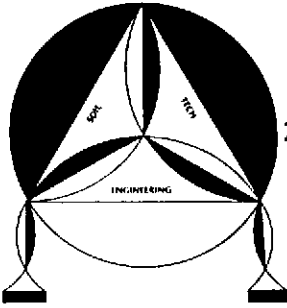
PROJ. NO.		NAME				CON-TAINER	ANALYSES REQUESTED TPHC / BTGA					REMARKS	
8-90-421-S		400 SAN PABLO AVE. ALBANY											
SAMPLERS: (Signature)													
													
NO.	DATE	TIME	SOIL	WATER	LOCATION								
1	2/1/91	2 ²⁵ PM	✓		ST-7-3	1	✓					} COMP.	
2	2/1/91	1 ³³ PM	✓		ST-8-2	1	✓						
3	2/1/91	4 ⁴⁵ PM	✓		ST-9-5	1	✓				} COMP.		
4	2/1/91	1 ³⁰ PM	✓		ST-10-3	1	✓						
5	2/1/91	2 ²⁵ PM	✓		ST-11-4	1	✓				} COMP.		
6	2/1/91	2 ²⁵ PM	✓		ST-12-3	1	✓						
7	2/1/91	3 ³² PM	✓		ST-13-3	1	✓				} COMP.		
8	2/1/91	2 ³² PM	✓		ST-14-3	1	✓						
Relinquished by: (Signature)			Date / Time		Received by: (Signature)		Relinquished by: (Signature)			Date / Time		Receive 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)		Date / Time		Remarks				
			2/1/91 5 ⁵⁰ PM				2/1/91 17:50		48 HRS T.A.				



SOIL TECH ENGINEERING

Soil, Foundation and Geological Engineers

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



SOIL TECH ENGINEERING

Soil, Foundation and Geological Engineers

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

February 22, 1991

Redwood Sanitary Landfill, Inc.
8950 Redwood Highway
P.O. Box 793
Novato, California 94948

Attention: Mr. Blair Virgin

Dear Mr. Virgin:

Enclosed is information regarding petroleum hydrocarbon contaminated soil that we wish to dispose of at your site.

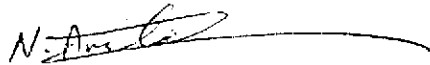
The soil stockpile is a result of the removal of underground gasoline storage tanks located at 400 San Pablo Avenue, Albany, California. The soil stockpile is approximately 250 yards and is currently stored on-site.

Four samples were taken every 50 yards at a depth of approximately 2 and 3 feet, with the aid of a hand sampler, in a brass tube. The ends of the tube were capped and sealed, the tube was labeled and analyzed on-site by Mobile Chem Labs on February 21, 1991.

Please review this information as soon as possible. We would like to start transporting the soil as soon as possible.

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

Sincerely,



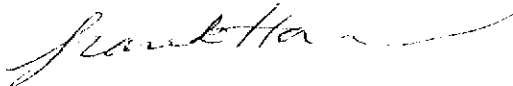
NOORODDIN AMELI
STAFF ENGINEER



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

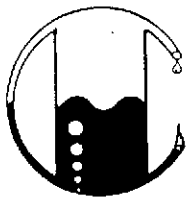


RICHARD DOWNS
ENVIRONMENTAL EDITOR



FRANK HAMEDI-FARD
GENERAL MANAGER

SOIL TECH ENGINEERING, INC.



MOBILE CHEM LABS INC.

5021 Blum Road, Suite 3 • Martinez, CA 94553
Phone (415) 372-3700 • Fax (415) 372-6955

8-90-421-SI/011669

Soil Tech Engineering, Inc.
298 Brokaw Road
Santa Clara, CA 95050
Attn: Frank Hamedi
Project Geologist

Date Sampled: 02-21-91
Date Received: 02-21-91
Date Reported: 02-21-91

Sample Number

V021076

Sample Description

Project # 8-90-421-SI
400 San Pablo Ave. - Albany
A(1-4) SOIL

ANALYSIS

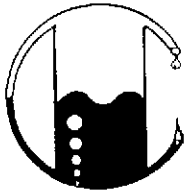
	Detection Limit ----- ppm	Sample Results ----- ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	3.9
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	0.15
Ethylbenzene	0.005	<0.005

QA/QC: Sample blank was none detected

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

MOBILE CHEM LABS


Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

5021 Blum Road, Suite 3 • Martinez, CA 94553
Phone (415) 372-3700 • Fax (415) 372-6955

8-90-421-SI/011669

Soil Tech Engineering, Inc.
298 Brokaw Road
Santa Clara, CA 95050
Attn: Frank Hamedi
Project Geologist

Date Sampled: 02-21-91
Date Received: 02-21-91
Date Reported: 02-21-91

Sample Number

V021077

Sample Description

Project # 8-90-421-SI
400 San Pablo Ave. - Albany
B(1-4) SOIL

ANALYSIS

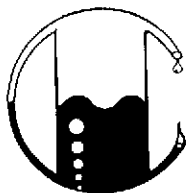
	Detection Limit ----- ppm	Sample Results ----- ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005

QA/QC: Sample blank was none detected

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

5021 Blum Road, Suite 3 • Martinez, CA 94553
Phone (415) 372-3700 • Fax (415) 372-6955

8-90-421-SI/011669

Soil Tech Engineering, Inc.
298 Brokaw Road
Santa Clara, CA 95050
Attn: Frank Hamedi
Project Geologist

Date Sampled: 02-21-91
Date Received: 02-21-91
Date Reported: 02-21-91

Sample Number

V021078

Sample Description

Project # 8-90-421-SI
400 San Pablo Ave. - Albany
C(1-4) SOIL

ANALYSIS

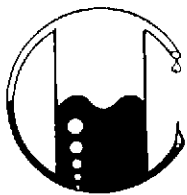
	Detection Limit	Sample Results
	----- ppm	----- ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005

QA/QC: Sample blank was none detected

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

MOBILE CHEM LABS


Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

5021 Blum Road, Suite 3 • Martinez, CA 94553
Phone (415) 372-3700 • Fax (415) 372-6955

8-90-421-SI/011669

Soil Tech Engineering, Inc.
298 Brokaw Road
Santa Clara, CA 95050
Attn: Frank Hamedi
Project Geologist

Date Sampled: 02-21-91
Date Received: 02-21-91
Date Reported: 02-21-91

Sample Number

V021079

Sample Description

Project # 8-90-421-SI
400 San Pablo Ave. - Albany
D(1-4) SOIL

ANALYSIS

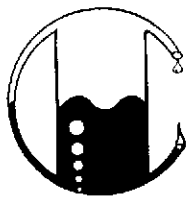
	<u>Detection Limit</u>	<u>Sample Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005

QA/QC: Sample blank was none detected

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

5021 Blum Road, Suite 3 • Martinez, CA 94553
Phone (415) 372-3700 • Fax (415) 372-6955

8-90-421-SI/011669

Soil Tech Engineering, Inc.
298 Brokaw Road
Santa Clara, CA 95050
Attn: Frank Hamedi
Project Geologist

Date Sampled: 02-21-91
Date Received: 02-21-91
Date Reported: 02-21-91

Sample Number

V021080

Sample Description

Project # 8-90-421-SI
400 San Pablo Ave. - Albany
E(1-4) SOIL

ANALYSIS

	Detection Limit ----- ppm	Sample Results ----- ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005

QA/QC: Sample blank was none detected

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

PROJ. NO.		NAME															
8-9D-421-SI		400 SAN ABLO AVE. ALBANY															
SAMPLERS: (Signature) <i>N. Ameli</i>												CON-TAINER		ANALYSES REQUESTED TPHG/BTEX		REMARKS	
NO.	DATE	TIME	SOIL	WATER	LOCATION												
1	2/21/91	12 ⁰⁰ PM	✓		A-1		1	✓									
2	2/21/91	12 ⁰⁰ PM	✓		A-2		1	✓							COMP.		
3	2/21/91	12 ⁰⁰ PM	✓		A-3		1	✓									
4	2/21/91	12 ⁰⁰ PM	✓		A-4		1	✓									
5	2/21/91	12 ¹⁵ PM	✓		B-1		1	✓									
6	2/21/91	12 ¹⁵ PM	✓		B-2		1	✓							COMP.		
7	2/21/91	12 ¹⁵ PM	✓		B-3		1	✓									
8	2/21/91	12 ¹⁵ PM	✓		B-4		1	✓									
9	2/21/91	12 ³⁰ PM	✓		C-1		1	✓									
10	2/21/91	12 ³⁰ PM	✓		C-2		1	✓							COMP.		
11	2/21/91	12 ³⁵ PM	✓		C-3		1	✓									
12	2/21/91	12 ³⁵ PM	✓		C-4		1	✓									

Relinquished by: (Signature) <i>N. Ameli</i>	Date / Time 2/21/91 2 ¹⁵ PM	Received by: (Signature) <i>[Signature]</i>	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 2/21/91 14.08	Remarks	



SOIL TECH ENGINEERING
Soil, Foundation and Geological Engineers

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

PROJ. NO. 8-90-421-SJ
 NAME 400 SAN PABLO AVE. ALBANY

SAMPLERS: (Signature)
[Signature]

CON-TAINER

ANALYSES REQUESTED @
 TPHG/BTE&X

REMARKS

NO.	DATE	TIME	SOIL	WATER	LOCATION	CON-TAINER	ANALYSES REQUESTED @	REMARKS
13	2/21/91	12 ⁴⁵ PM	✓		D-1	1	/	COMP.
14	2/21/91	12 ⁴² PM	✓		D-2	1	/	
15	2/21/91	12 ⁴⁵ PM	✓		D-3	1	/	
16	2/21/91	12 ⁴⁵ PM	✓		D-4	1	/	
17	2/21/91	1 ⁰⁰ PM	✓		E-1	1	/	COMP.
18	2/21/91	1 ⁰⁰ PM	✓		E-2	1	/	
19	2/21/91	1 ⁰⁰ PM	✓		E-3	1	/	
20	2/21/91	1 ⁰⁰ PM	✓		E-4	1	/	

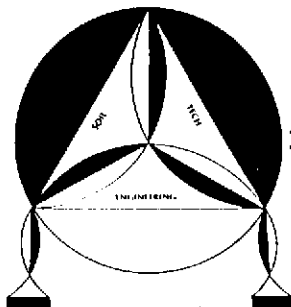
Relinquished by: (Signature) <i>[Signature]</i>	Date / Time 2/21/91 2 ¹⁵ PM	Received by: (Signature) <i>[Signature]</i> Mobile	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) <i>[Signature]</i>	Date / Time 2/21/91 14.00	Remarks	



SOIL TECH ENGINEERING

Soil, Foundation and Geological Engineers

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



SOIL TECH ENGINEERING

Soil, Foundation and Geological Engineers

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

April 10, 1991

Redwood Sanitary Landfill, Inc.
8950 Redwood Highway
P.O. Box 793
Novato, California 94948

Attention: Mr. Blair Virgin

Dear Mr. Virgin:

Enclosed is information regarding petroleum hydrocarbon contaminated soil that we wish to dispose of at your site.

The soil stockpile is a result of the removal of underground gasoline storage tanks located at 400 San Pablo Avenue, Albany, California. The remaining stockpile is approximately 110 yards and is currently stored on-site.

On April 2, 1991, four samples were taken every 50 yards at a depth of approximately 2 and 4 feet, with the aid of a hand sampler, in a brass tube. The ends of the tube were capped and sealed, the tube was labeled and analyzed by Superior Analytical Laboratory, Inc.

Please review this information as soon as possible. We would like to start transporting the soil as soon as possible.

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

Sincerely,



FRANK HAMEDI-FARD
GENERAL MANAGER



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

SOIL TECH ENGINEERING, INC.

SUPERIOR ANALYTICAL LABORATORY, INC.

1555 BURKE, UNIT I • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

DHS #1332

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 53414
CLIENT: Soil Tech Engineering
CLIENT JOB NO.: 8-90-421-SI

DATE RECEIVED: 04/03/91
DATE REPORTED: 04/09/91

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS
by Modified EPA SW-846 Method 5030 and 8015

LAB #	Sample Identification	Concentration (mg/kg) Gasoline Range
1	ST-(1>4)-5	ND<1
2	ST-(5>8)-5	7

mg/kg - parts per million (ppm)

Minimum Detection Limit for Gasoline in Soil: 1mg/kg

QAQC Summary:

Daily Standard run at 2mg/L: %DIFF Gasoline = <15%
MS/MSD Average Recovery = 64%: Duplicate RPD = 0.3%

Richard Srna, Ph.D.

Ornyi A. Nwogu (for)
Laboratory Director

SUPERIOR ANALYTICAL LABORATORY, INC.

1555 BURKE UNIT I • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

DHS #1332

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 53414
CLIENT: Soil Tech Engineering
CLIENT JOB NO.: 8-90-421-SI

DATE RECEIVED: 04/03/91
DATE REPORTED: 04/09/91

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES
by EPA SW-846 Methods 5030 and 8020

LAB #	Sample Identification	Concentration(ug/kg)			
		Benzene	Toluene	Ethyl Benzene	Xylenes
1	ST-(1>4)-5	ND<3	ND<3	ND<3	4
2	ST-(5>8)-5	ND<3	ND<3	ND<3	13

ug/kg - parts per billion (ppb)

Minimum Detection Limit in Soil: 3.0ug/kg

QAQC Summary:

Daily Standard run at 20ug/L: %DIFF = <15%
MS/MSD Average Recovery = 91% : Duplicate RPD = 7%

Richard Srna, Ph.D.

Onyi A. Nwogu
Laboratory Director

CHAIN OF CUSTODY RECORD

SUPERIOR

PROJ. NO.		NAME				CON-TAINER	ANALYSES REQUESTED (2) TPH G/BTE 4X	REMARKS
8-90-421-57		400 San Pablo Ave. Albany						
SAMPLERS: (Signature)								
<i>N. Anush</i>								
NO.	DATE	TIME	SOIL	WATER	LOCATION			
1	4/2/91	12 ³⁰	✓		ST-1-5	1	✓	
2	4/2/91	12 ⁴⁰	✓		ST-2-5	1	✓	
3	4/2/91	11 ⁵⁰	✓		ST-3-5	1	✓	
4	4/2/91	12 ²²	✓		ST-4-5	1	✓	
5	4/2/91	13 ²⁰	✓		ST-5-5	1	✓	
6	4/2/91	13 ²⁰	✓		ST-6-5	1	✓	
7	4/2/91	13 ³⁰	✓		ST-7-5	1	✓	
8	4/2/91	13 ⁴⁰	✓		ST-8-5	1	✓	

COMP. {
 COMP. {

COMP.
 Please initial: *MA*
 Samples Stored in ice. *NO*
 Appropriate containers. *✓*
 Samples preserved. *✓*
 VOA's without headspace. *✓*
 Comments: *samples rec'd at room temp.*

Relinquished by: (Signature) <i>N. Anush</i>	Date / Time 4/3/91 10 ¹⁰	Received by: (Signature) <i>B. KENNEDY X119</i>	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature) <i>Don Ellefson</i>	Date / Time 4/3/91 13/14	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) <i>M. Goldenberg</i>	Date / Time 4/3/91 13:20	Remarks	



SOIL TECH ENGINEERING

Soil, Foundation and Geological Engineers

PROJ. NO. 8-90-421-S		NAME 400 San Pablo Ave. Albany				CON-TAINER	ANALYSES REQUESTED (3) TPH G/BTE XX										REMARKS
SAMPLERS: (Signature) <i>[Signature]</i>																	
NO.	DATE	TIME	SOIL	WATER	LOCATION												
COMP.	1	4/2/91	12 ³⁰	✓	ST-1-5	1	✓										
	2	4/2/91	12 ⁴⁰	✓	ST-2-5	1	✓										COMP.
	3	4/2/91	11 ⁵⁰	✓	ST-3-5	1	✓										
	4	4/2/91	12 ⁰⁰	✓	ST-4-5	1	✓										
COMP.	5	4/2/91	13 ⁰⁰	✓	ST-5-5	1	✓										
	6	4/2/91	13 ²⁰	✓	ST-6-5	1	✓										COMP.
	7	4/2/91	13 ³⁰	✓	ST-7-5	1	✓										
	8	4/2/91	13 ⁴⁰	✓	ST-8-5	1	✓										

Relinquished by: (Signature) <i>[Signature]</i>	Date / Time 4/3/91 10 ¹⁰	Received by: (Signature) <i>[Signature]</i> KENNEDY X119	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)	Date / Time	Remarks
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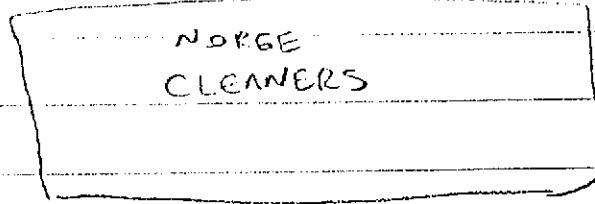
SOIL TECH ENGINEERING
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8-90-421-SI

4/2/91

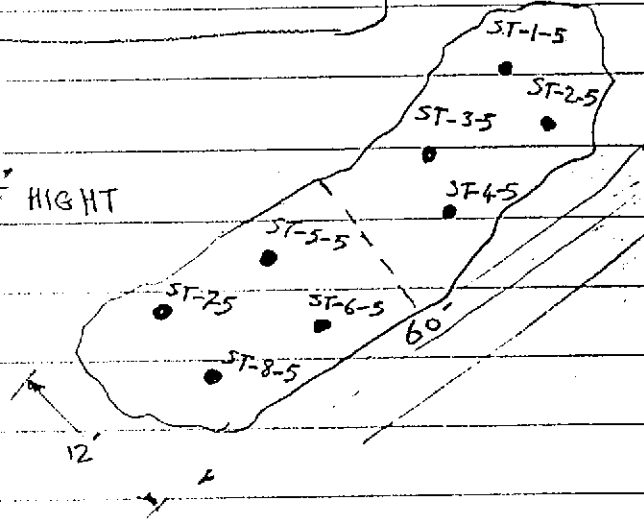
STOCK PILE
SAMPLING DATA



CAR

WASH

7-5' HIGH



ELEC. POLE

SAN PABLO AVE.

Dear Mr. Virgin,

Here is the information that you requested. This package was originally sent, via FAX, on February 22, 1991. It has come to my attention that you did not receive it.

I apologize for any inconvenience this may have caused you. The soil is being trucked to you today (February 26, 1991).

Sincerely,

A handwritten signature in black ink, appearing to read 'Richard Downs', with a long horizontal line extending to the right.

Richard Downs