

Suite 212  
100 West Rincon Avenue  
Campbell, CA 95008



ENVIRONMENTAL SERVICES DIVISION

(408) 374-9116

June 30, 1987

Mr. Dennis Wade  
Battalion Chief  
Castro Valley Fire Protection District  
20336 San Miguel Avenue  
Castro Valley, CA 94546

Dear Chief Wade:

The attached report describes the soil sampling and laboratory test results for a tank removal project at 2896 Castro Valley Blvd., Castro Valley, CA. The tank removal work was performed on June 16, 1987.

If you have any questions after reading the report, please feel free to call our office.

Sincerely,

A handwritten signature in cursive script, appearing to read "Frank W. Smith".

Frank W. Smith  
Geologist

Enclosure

June 30, 1987

**Soil Sampling Report - Underground Storage Tanks**

Site address: 2896 Castro Valley Blvd., Castro Valley, CA

Type of work performed: Soil samples taken for laboratory testing during removal of underground storage tanks.

Date sampled: 6/16/87

Number of tanks removed: 4

Tank - capacity (approx.), contents, type, depth to bottom:

- A: 10,000 gal., gasoline, fiberglass, 12'
- B: 7,500 gal., gasoline, unwrapped steel, 12'
- C: 5,000 gal., gasoline, unwrapped steel, 12'
- D: 300 gal., waste oil, unwrapped steel, 5'

Soil samples:

Note: The water table was encountered at 11.0 ft, approximately 1 foot above the bottom of each of the three large tanks. It was decided, therefore, to collect soil samples from native soil adjacent to both ends of those tanks, immediately above the water table. A sheen was showing on the surface of the water in the vicinity of tank C. There was sheen on the surface of the water in the vicinity of tank B, but less than that near tank C. The two composite samples were collected at the request of Castro Valley Fire Department Battalion Chief, Dennis Wade.

<u>Sample #</u>	<u>Depth(ft)</u>	<u>Location description (See attached Site Map)</u>
✓ <u>TP147A-1</u>	<u>11.0</u>	<u>Native soil adjacent to fill end of tank A.</u>
✓ <u>TP147A-2</u>	<u>11.0</u>	<u>Native soil adjacent to end opposite fill end of tank A.</u>
✓ <u>TP147B-1</u>	<u>11.0</u>	<u>Native soil adjacent to fill end of tank B.</u>
✓ <u>TP147B-2</u>	<u>11.0</u>	<u>Native soil adjacent to end opposite fill end of tank B.</u>
✓ <u>TP147C-1</u>	<u>11.0</u>	<u>Native soil adjacent to fill end of tank C.</u>
✓ <u>TP147C-2</u>	<u>11.0</u>	<u>Native soil adjacent to end opposite fill end of tank C.</u>

Soil samples (Continued):

✓ <u>TP147D</u>	<u>7.0</u>	<u>Native soil below center of tank D.</u>
✓ <u>TP147E</u>	<u>N/A</u>	<u>Composite sample of backfill soil excavated from around gasoline tanks.</u>
✓ <u>TP147F</u>	<u>N/A</u>	<u>Composite sample of backfill soil excavated from around waste oil tank.</u>

Condition of tanks:

- A: Good condition, no holes observed.  
 B: Some rust and pitting but no holes observed. There was gasoline-soaked soil around the vapor recovery line which was connected to the fill riser.  
 C: Some rust noted at waterline, approx. one foot above bottom, otherwise good condition.  
 D: Very rusted and corroded. Multiple holes observed.

Condition of soil taken for samples from excavation pit: The backfill soil from the large tank pit was medium sand with a petroleum odor. Much of it was stained green. All native soil samples were silty clay. Samples TP147A-1, A-2, and B-2 had no noticeable petroleum odor. Samples TP147B-1, C-1, and C-2 contained a slight petroleum odor. Sample TP147D, from below the waste oil tank, was stained and had a nonspecific hydrocarbon odor.

Laboratory results: (lab report attached)

<u>Sample Number</u>	<u>Tested for:</u>	<u>Test results</u> (ug/g = ppm) (ug/kg = ppb)
✓ <u>TP147A-1</u>	<u>Total hydrocarbons (gasoline)</u>	<u>U*</u>
	<u>Benzene</u>	<u>U</u>
	<u>Toluene</u>	<u>U</u>
	<u>Total xylenes</u>	<u>U</u>
✓ <u>TP147A-2</u>	<u>Total hydrocarbons (gasoline)</u>	<u>U</u>
	<u>Benzene</u>	<u>U</u>
	<u>Toluene</u>	<u>U</u>
	<u>Total xylenes</u>	<u>U</u>
✓ <u>TP147B-1</u>	<u>Total hydrocarbons (gasoline)</u>	<u>U</u>
	<u>Benzene</u>	<u>U</u>
	<u>Toluene</u>	<u>U</u>
	<u>Total xylenes</u>	<u>U</u>
✓ <u>TP147B-2</u>	<u>Total hydrocarbons (gasoline)</u>	<u>U</u>
	<u>Benzene</u>	<u>U</u>
	<u>Toluene</u>	<u>U</u>
	<u>Total xylenes</u>	<u>U</u>

Laboratory results (Continued):

<u>TP147C-1</u>	<u>Total hydrocarbons (gasoline)</u>	<u>U</u>
	<u>Benzene</u>	<u>U</u>
	<u>Toluene</u>	<u>U</u>
	<u>Total xylenes</u>	<u>U</u>
<u>TP147C-2</u>	<u>Total hydrocarbons (gasoline)</u>	<u>100.0 ppm</u>
	<u>Benzene</u>	<u>U</u>
	<u>Toluene</u>	<u>0.2 ppm</u>
	<u>Total xylenes</u>	<u>2.2 ppm</u>
<u>TP147D</u>	<u>Diesel/waste oil</u>	<u>5,300 ppm</u>
	<u>Total oil &amp; grease</u>	<u>16,000 ppm</u>
	<u>EPA 8240 Volatile hydrocarbons</u>	
	<u>(Priority pollutants).</u>	
	<u>Those detected were:</u>	
	<u>Benzene</u>	<u>220 ppb</u>
	<u>Toluene</u>	<u>90 ppb</u>
	<u>Ethylbenzene</u>	<u>300 ppb</u>
	<u>Total xylenes</u>	<u>1,500 ppb</u>
<u>TP147E</u>	<u>Total hydrocarbons (gasoline)</u>	<u>15.0 ppm</u>
	<u>Benzene</u>	<u>U</u>
	<u>Toluene</u>	<u>U</u>
	<u>Total xylenes</u>	<u>1.1 ppm</u>
<u>TP147F</u>	<u>Diesel/waste oil</u>	<u>2,900 ppm</u>
	<u>Total oil &amp; grease</u>	<u>7,100 ppm</u>
	<u>EPA 8240 Volatile hydrocarbons</u>	
	<u>(Priority pollutants).</u>	
	<u>None detected</u>	

\* U = The compound was analyzed for but was not detected.

(Rev. 5/20/87)

**ANAMETRIX, INC.**

**GC/MS SPECIALISTS**

ENVIRONMENTAL • ANALYTICAL SERVICES

2754 AJELLO DRIVE • SAN JOSE, CA 95111 • (408) 629-1137

June 26, 1987  
Work Order Number 8706061  
Date Received 6/17/87  
PO No. NA

Frank Smith  
Geonomics Inc.  
100 W. Rincon Ave. #212  
Campbell, CA 95008

Nine soil samples were received for analysis, seven for total volatile hydrocarbons and BTX by GC and two for volatile hydrocarbons, total extractable hydrocarbons and waste oil by GC and GC/MS using the following EPA method(s):

ANAMETRIX I.D.	SAMPLE I.D.	METHOD(S)
8706061-01	TP147-A1	5020
-02	A2	"
-03	B1	"
-04	B2	"
-05	C1	"
-06	C2	"
-07	D	8240/3550/503A
-08	E	5020
-09	F	8240/3550/503A

**RESULTS**

See enclosed data sheets, Forms 1-1 thru 2-12.

**EXTRA COMPOUNDS**

See enclosed data sheet, Form 4-1.

**QUALITY ASSURANCE REPORTS**

See enclosed data sheet, Form 5-2.

If there is any more that we can do, please give us a call. Thank you for using ANAMETRIX, INC.

Sincerely,



Paul Gowan  
GC/MS Supervisor

PBG/gp

ORGANIC ANALYSIS DATA SHEET - HYDROCARBON COMPOUNDS

Sample I.D. : TP147-A1 Anamatrix I.D. : 8706061-01  
 Matrix : SOIL Analyst :  
 Date sampled : 6-16-87 Supervisor : JMS  
 Date extracted : NA Date released : 6-26-87  
 Date analyzed : 6-19-87  
 Weight extracted : NA

CAS #	Compound Name	Det. Limit (ug/g)	(ug/g)	Q
71-43-2	Benzene	0.2		U
108-88-3	Toluene	0.2		U
	Total Xylenes	0.2		U
	Gasoline	10		U
	Diesel / Waste Oil	10		NR
	Total Oil & Grease	30		NR

For reporting purposes, the following qualifiers (Q) are used:  
 + : A value greater than or equal to the method detection limit.  
 U : The compound was analyzed for but was not detected.  
 NR: Not requested.

Form 2-1.

ORGANIC ANALYSIS DATA SHEET - HYDROCARBON COMPOUNDS

Sample I.D. : TP147-A1 SPIKE % RECOVERY Anamatrix I.D. : 8706061-01  
 Matrix : SOIL Analyst :  
 Date sampled : 6-16-87 Supervisor : JMS  
 Date extracted : NA Date released : 6-26-87  
 Date analyzed : 6-22-87  
 Weight extracted : NA

CAS #	Compound Name	Det. Limit (ug/g)	(ug/g)	Q
71-43-2	Benzene	0.2		NR
108-88-3	Toluene	0.2		NR
	Total Xylenes	0.2		NR
	Gasoline	10	97%	+
	Diesel / Waste Oil	10		NR
	Total Oil & Grease	30		NR

For reporting purposes, the following qualifiers (Q) are used:  
 + : A value greater than or equal to the method detection limit.  
 U : The compound was analyzed for but was not detected.  
 NR: Not requested.

Form 2-2.

ORGANIC ANALYSIS DATA SHEET - HYDROCARBON COMPOUNDS

Sample I.D. : TP147-A2  
 Matrix : SOIL  
 Date sampled : 6-16-87  
 Date extracted : NA  
 Date analyzed : 6-19-87  
 Weight extracted : NA

Anamatrix I.D. : 8706061-02  
 Analyst : *PS*  
 Supervisor : *MS*  
 Date released : 6-26-87

CAS #	Compound Name	Det. Limit		Q
		(ug/g)	(ug/g)	
71-43-2	Benzene	0.2		U
108-88-3	Toluene	0.2		U
	Total Xylenes	0.2		U
	Gasoline	10		U
	Diesel / Waste Oil	10		NR
	Total Oil & Grease	30		NR

For reporting purposes, the following qualifiers (Q) are used:  
 + : A value greater than or equal to the method detection limit.  
 U : The compound was analyzed for but was not detected.  
 NR: Not requested.

Form 2-3.

ORGANIC ANALYSIS DATA SHEET - HYDROCARBON COMPOUNDS

Sample I.D. : TP147-B1  
 Matrix : SOIL  
 Date sampled : 6-16-87  
 Date extracted : NA  
 Date analyzed : 6-19-87  
 Weight extracted : NA

Anamatrix I.D. : 8706061-03  
 Analyst : *PS*  
 Supervisor : *MS*  
 Date released : 6-26-87

CAS #	Compound Name	Det. Limit		Q
		(ug/g)	(ug/g)	
71-43-2	Benzene	0.2		U
108-88-3	Toluene	0.2		U
	Total Xylenes	0.2		U
	Gasoline	10		U
	Diesel / Waste Oil	10		NR
	Total Oil & Grease	30		NR

For reporting purposes, the following qualifiers (Q) are used:  
 + : A value greater than or equal to the method detection limit.  
 U : The compound was analyzed for but was not detected.  
 NR: Not requested.

Form 2-4.

ORGANIC ANALYSIS DATA SHEET - HYDROCARBON COMPOUNDS

Sample I.D. : TP147-B2  
 Matrix : SOIL  
 Date sampled : 6-16-87  
 Date extracted : NA  
 Date analyzed : 6-22-87  
 Weight extracted : NA

Anamatrix I.D. : 8706061-04  
 Analyst : *[Signature]*  
 Supervisor : *[Signature]*  
 Date released : 6-26-87

CAS #	Compound Name	Det. Limit		Q
		(ug/g)	(ug/g)	
71-43-2	Benzene	0.2		U
108-88-3	Toluene	0.2		U
	Total Xylenes	0.2		U
	Gasoline	10		U
	Diesel / Waste Oil	10		NR
	Total Oil & Grease	30		NR

For reporting purposes, the following qualifiers (Q) are used:  
 + : A value greater than or equal to the method detection limit.  
 U : The compound was analyzed for but was not detected.  
 NR: Not requested.

Form 2-5.

ORGANIC ANALYSIS DATA SHEET - HYDROCARBON COMPOUNDS

Sample I.D. : TP147-C1  
 Matrix : SOIL  
 Date sampled : 6-16-87  
 Date extracted : NA  
 Date analyzed : 6-22-87  
 Weight extracted : NA

Anamatrix I.D. : 8706061-05  
 Analyst : *[Signature]*  
 Supervisor : *[Signature]*  
 Date released : 6-26-87

CAS #	Compound Name	Det. Limit		Q
		(ug/g)	(ug/g)	
71-43-2	Benzene	0.2		U
108-88-3	Toluene	0.2		U
	Total Xylenes	0.2		U
	Gasoline	10		U
	Diesel / Waste Oil	10		NR
	Total Oil & Grease	30		NR

For reporting purposes, the following qualifiers (Q) are used:  
 + : A value greater than or equal to the method detection limit.  
 U : The compound was analyzed for but was not detected.  
 NR: Not requested.

Form 2-6.



ORGANIC ANALYSIS DATA SHEET - HYDROCARBON COMPOUNDS

Sample I.D. : TP147-C2 Anamatrix I.D. : 8706061-06  
 Matrix : SOIL Analyst : *[Signature]*  
 Date sampled : 6-16-87 Supervisor : *[Signature]*  
 Date extracted : NA Date released : 6-26-87  
 Date analyzed : 6-22-87  
 Weight extracted : NA

CAS #	Compound Name	Det. Limit (ug/g)	(ug/g)	Q
71-43-2	Benzene	0.2		U
108-88-3	Toluene	0.2	0.2	+
	Total Xylenes	0.2	2.2	+
	Gasoline	10	100	+
	Diesel / Waste Oil	10		NR
	Total Oil & Grease	30		NR

For reporting purposes, the following qualifiers (Q) are used:  
 + : A value greater than or equal to the method detection limit.  
 U : The compound was analyzed for but was not detected.  
 NR: Not requested.

Form 2-7.

ORGANIC ANALYSIS DATA SHEET - HYDROCARBON COMPOUNDS

Sample I.D. : TP147-C2 DUPLICATE Anamatrix I.D. : 8706061-06  
 Matrix : SOIL Analyst : *[Signature]*  
 Date sampled : 6-16-87 Supervisor : *[Signature]*  
 Date extracted : NA Date released : 6-26-87  
 Date analyzed : 6-22-87  
 Weight extracted : NA

CAS #	Compound Name	Det. Limit (ug/g)	(ug/g)	Q
71-43-2	Benzene	0.2		U
108-88-3	Toluene	0.2	0.2	+
	Total Xylenes	0.2	5.9	+
	Gasoline	10	135	+
	Diesel / Waste Oil	10		NR
	Total Oil & Grease	30		NR

For reporting purposes, the following qualifiers (Q) are used:  
 + : A value greater than or equal to the method detection limit.  
 U : The compound was analyzed for but was not detected.  
 NR: Not requested.

Form 2-8.

ORGANIC ANALYSIS DATA SHEET - HYDROCARBON COMPOUNDS

Sample I.D. : TP147-D  
 Matrix : SOIL  
 Date sampled : 6-16-87  
 Date extracted : 6-18-87  
 Date analyzed : 6-19-87  
 Weight extracted : 30 g

Anamatrix I.D. : 8706061-07  
 Analyst : JCS  
 Supervisor : JMS  
 Date released : 6-26-87

CAS #	Compound Name	Det. Limit (ug/g)	(ug/g)	Q
71-43-2	Benzene	0.2		NR
108-88-3	Toluene	0.2		NR
	Total Xylenes	0.2		NR
	Gasoline	10		NR
	Diesel / Waste Oil	10	5300	+
	Total Oil & Grease	30	16000	+

For reporting purposes, the following qualifiers (Q) are used:  
 + : A value greater than or equal to the method detection limit.  
 U : The compound was analyzed for but was not detected.  
 NR: Not requested.

Form 2-9.

ORGANIC ANALYSIS DATA SHEET - HYDROCARBON COMPOUNDS

Sample I.D. : TP147-D DUPLICATE  
 Matrix : SOIL  
 Date sampled : 6-16-87  
 Date extracted : 6-18-87  
 Date analyzed : 6-19-87  
 Weight extracted : 30 g

Anamatrix I.D. : 8706061-07  
 Analyst : JCS  
 Supervisor : JMS  
 Date released : 6-26-87

CAS #	Compound Name	Det. Limit (ug/g)	(ug/g)	Q
71-43-2	Benzene	0.2		NR
108-88-3	Toluene	0.2		NR
	Total Xylenes	0.2		NR
	Gasoline	10		NR
	Diesel / Waste Oil	10	6900	+
	Total Oil & Grease	30	18000	+

For reporting purposes, the following qualifiers (Q) are used:  
 + : A value greater than or equal to the method detection limit.  
 U : The compound was analyzed for but was not detected.  
 NR: Not requested.

Form 2-10.

ORGANICS ANALYSIS DATA SHEET - VOLATILE COMPOUNDS

Sample I.D. : TP147-D  
 Matrix : SOIL  
 Date sampled : 6-16-87  
 Date analyzed : 6-25-87  
 Dilution : 1:10

Anamatrix I.D. : 8706061-07  
 Analyst : KM  
 Supervisor : JG  
 Date released : 6-26-87

CAS #	Compound Name	Det. Limit (ug/kg)	(ug/kg)	Q
74-87-3	* Chloromethane	70		U
74-83-9	* Bromomethane	70		U
75-01-4	* Vinyl Chloride	70		U
75-00-3	* Chloroethane	70		U
75-09-2	* Methylene Chloride	20		U
67-64-1	**Acetone	100		U
79-69-4	* Trichlorofluoromethane	20		U
75-15-0	**Carbondisulfide	20		U
75-35-4	* 1,1-Dichloroethene	20		U
75-34-3	* 1,1-Dichloroethane	20		U
156-60-5	* Trans-1,2-Dichloroethene	20		U
156-59-2	* Cis-1,2-Dichloroethene	20		U
67-66-3	* Chloroform	20		U
76-13-1	# Trichlorotrifluoroethane	20		U
107-06-2	* 1,2-Dichloroethane	20		U
78-93-3	**2-Butanone	100		U
71-55-6	* 1,1,1-Trichloroethane	20		U
56-23-5	* Carbon Tetrachloride	20		U
108-05-4	**Vinyl Acetate	100		U
75-27-4	* Bromodichloromethane	20		U
78-87-5	* 1,2-Dichloropropane	20		U
10061-02-6	* Trans-1,3-Dichloropropene	20		U
79-01-6	* Trichloroethene	20		U
124-48-1	* Dibromochloromethane	20		U
79-00-5	* 1,1,2-Trichloroethane	20		U
71-43-2	* Benzene	20	220	+
10061-01-5	* cis-1,3-Dichloropropene	20		U
110-75-8	* 2-Chloroethylvinylether	20		U
75-25-2	* Bromoform	20		U
591-78-6	**2-Hexanone	100		U
108-10-1	**4-Methyl-2-Pentanone	100		U
127-18-4	* Tetrachloroethene	20		U
79-34-5	* 1,1,2,2-Tetrachloroethane	20		U
108-88-3	* Toluene	20	90	+
108-90-7	* Chlorobenzene	20		U
100-41-4	* Ethylbenzene	20	300	+
100-42-5	**Styrene	20		U
	**Total Xylenes	20	1500	+
541-73-1	* 1,3-Dichlorobenzene	20		U
95-50-1	* 1,2-Dichlorobenzene	20		U
106-46-7	* 1,4-Dichlorobenzene	20		U

\* A 624/8240 approved compound (Federal Register, 10/26/84)  
 \*\* A compound on the U.S. EPA CLP Hazardous Substance List (HSL)  
 # A compound added by Anamatrix, Inc.

For reporting purposes, the following qualifiers (Q) are used:  
 + : A value greater than or equal to the method detection limit.  
 U : The compound was analyzed for but was not detected.

ORGANICS ANALYSIS DATA SHEET - TENTATIVELY IDENTIFIED COMPOUNDS

Sample I.D. : TP147-2 1:10 DILUTION      Anamatrix I.D. : 8706061-07  
 Matrix : SOIL      Analyst : WH  
 Date Sampled : 6-16-87      Supervisor : PG  
 Analyzed VOA : 6-25-87      Date Released : 6-26-87  
 Analyzed SV : NA

	CAS #	Scan#	Volatile Fraction Compound Name	Det. Limit ppb	ppb
1	107-83-5	181	2-methylpentane	50	600
2	594-82-1	319	2,2,3,3-tetramethylbutane	50	440
3	111-84-2	825	nonane	50	630
4	124-18-5	1090	decane	50	1400
5	526-73-8	1204	1,2,3-trimethylbenzene	50	1100
6	1120-21-4	1338	undecane	50	710
7				50	
9				50	
10				50	
	CAS #	Scan#	Semivolatile Fraction Compound Name	Det. Limit ppb	ppb
1				10	
2				10	
3				10	
4				10	
5				10	
6				10	
7				10	
8				10	
9				10	
10				10	
11				10	
12				10	
13				10	
14				10	
15				10	
16				10	
17				10	
18				10	
19				10	
20				10	

Tentatively identified compounds are significant chromatographic peaks (TICs) other than priority pollutants. TIC spectra are compared with entries in the National Bureau of Standards mass spectral library. Identification is made by following US EPA guidelines and acceptance criteria. TICs are quantitated by using the area of the nearest internal standard and assuming a response factor of one (1). Values calculated are ESTIMATES ONLY.

ORGANIC ANALYSIS DATA SHEET - HYDROCARBON COMPOUNDS

Sample I.D. : TP147-E Anamatrix I.D. : 8706061-08  
 Matrix : SOIL Analyst : [Signature]  
 Date sampled : 6-16-87 Supervisor : [Signature]  
 Date extracted : NA Date released : 6-26-87  
 Date analyzed : 6-22-87  
 Weight extracted : NA

CAS #	Compound Name	Det. Limit (ug/g)	(ug/g)	Q
71-43-2	Benzene	0.2		U
108-88-3	Toluene	0.2		U
	Total Xylenes	0.2	1.1	+
	Gasoline	10	15	+
	Diesel / Waste Oil	10		NR
	Total Oil & Grease	30		NR

For reporting purposes, the following qualifiers (Q) are used:  
 + : A value greater than or equal to the method detection limit.  
 U : The compound was analyzed for but was not detected.  
 NR: Not requested.

Form 2-11.

ORGANIC ANALYSIS DATA SHEET - HYDROCARBON COMPOUNDS

Sample I.D. : TP147-F Anamatrix I.D. : 8706061-09  
 Matrix : SOIL Analyst : [Signature]  
 Date sampled : 6-16-87 Supervisor : [Signature]  
 Date extracted : 6-18-87 Date released : 6-26-87  
 Date analyzed : 6-22-87  
 Weight extracted : 30 g

CAS #	Compound Name	Det. Limit (ug/g)	(ug/g)	Q
71-43-2	Benzene	0.2		NR
108-88-3	Toluene	0.2		NR
	Total Xylenes	0.2		NR
	Gasoline	10		NR
	Diesel / Waste Oil	10	2900	+
	Total Oil & Grease	30	7100	+

For reporting purposes, the following qualifiers (Q) are used:  
 + : A value greater than or equal to the method detection limit.  
 U : The compound was analyzed for but was not detected.  
 NR: Not requested.

Form 2-12.

ORGANICS ANALYSIS DATA SHEET - VOLATILE COMPOUNDS

Sample I.D. : TP147-F  
 Matrix : SOIL  
 Date sampled : 6-16-87  
 Date analyzed : 6-25-87  
 Dilution : NONE

Anamatrix I.D. : 8706061-09  
 Analyst : MN  
 Supervisor : RJ  
 Date released : 6-26-87

CAS #	Compound Name	Det. Limit (ug/kg)	(ug/kg)	Q
74-87-3	* Chloromethane	7		U
74-83-9	* Bromomethane	7		U
75-01-4	* Vinyl Chloride	7		U
75-00-3	* Chloroethane	7		U
75-09-2	* Methylene Chloride	2		U
67-64-1	**Acetone	10		U
79-69-4	* Trichlorofluoromethane	2		U
75-15-0	**Carbondisulfide	2		U
75-35-4	* 1,1-Dichloroethene	2		U
75-34-3	* 1,1-Dichloroethane	2		U
156-60-5	* Trans-1,2-Dichloroethene	2		U
156-59-2	* Cis-1,2-Dichloroethene	2		U
67-66-3	* Chloroform	2		U
76-13-1	# Trichlorotrifluoroethane	2		U
107-06-2	* 1,2-Dichloroethane	2		U
78-93-3	**2-Butanone	10		U
71-55-6	* 1,1,1-Trichloroethane	2		U
56-23-5	* Carbon Tetrachloride	2		U
108-05-4	**Vinyl Acetate	10		U
75-27-4	* Bromodichloromethane	2		U
78-87-5	* 1,2-Dichloropropane	2		U
10061-02-6	* Trans-1,3-Dichloropropene	2		U
79-01-6	* Trichloroethene	2		U
124-48-1	* Dibromochloromethane	2		U
79-00-5	* 1,1,2-Trichloroethane	2		U
71-43-2	* Benzene	2		U
10061-01-5	* cis-1,3-Dichloropropene	2		U
110-75-8	* 2-Chloroethylvinylether	2		U
75-25-2	* Bromoform	2		U
591-78-6	**2-Hexanone	10		U
108-10-1	**4-Methyl-2-Pentanone	10		U
127-18-4	* Tetrachloroethene	2		U
79-34-5	* 1,1,2,2-Tetrachloroethane	2		U
108-88-3	* Toluene	2		U
108-90-7	* Chlorobenzene	2		U
100-41-4	* Ethylbenzene	2		U
100-42-5	**Styrene	2		U
	**Total Xylenes	2		U
541-73-1	* 1,3-Dichlorobenzene	2		U
95-50-1	* 1,2-Dichlorobenzene	2		U
106-46-7	* 1,4-Dichlorobenzene	2		U

- \* A 624/8240 approved compound (Federal Register, 10/26/84)
- \*\* A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
- # A compound added by Anamatrix, Inc.

For reporting purposes, the following qualifiers (Q) are used:  
 + : A value greater than or equal to the method detection limit.  
 U : The compound was analyzed for but was not detected.

SOIL VOLATILE/SEMIVOLATILE SURROGATE RECOVERY SUMMARY

ANAMETRIX WORKORDER# : 8706061  
 CLIENT PROJECT# : 308-TP147

SUPERVISOR : PG  
 ANALYST : AM

#	SAMPLE ID	VO1 (DCE)	VO2 (TOL)	VO3 (BFB)	A1 (2FP)	A2 (PHL)	A3 (TBP)	BN1 (NBZ)	BN2 (FBH)	BN3 (TPH)	TOTAL OUT
01	TP-147-D	103	109	113							0
02	TP-147-F	97	96	79							0
03											
04											
05											
06											
07											
08											
09											
10											
11											
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30											

ANAMETRIX PERCENT RECOVERY LIMITS  
 (generated from sample data)

VO1 (DCE)	= 1,2-DICHLOROETHANE-D4	84-125%
VO2 (TOL)	= TOLUENE-D8	78-130%
VO3 (BFB)	= 4-BROMOFLUOROBENZENE	70-118%
A1 (2FP)	= 2-FLUOROPHENOL	24-82%
A2 (PHL)	= PHENOL-D5	27-94%
A3 (TBP)	= 2,4,6-TRIBROMOPHENOL	31-118%
BN1 (NBZ)	= NITROBENZENE-D5	21-75%
BN2 (FBH)	= 2-FLUOROBIPHENYL	29-87%
BN3 (TPH)	= TERPHENYL-D14	31-127%

Campbell, CA 95008  
 408/374-9116

Attention: FRANK

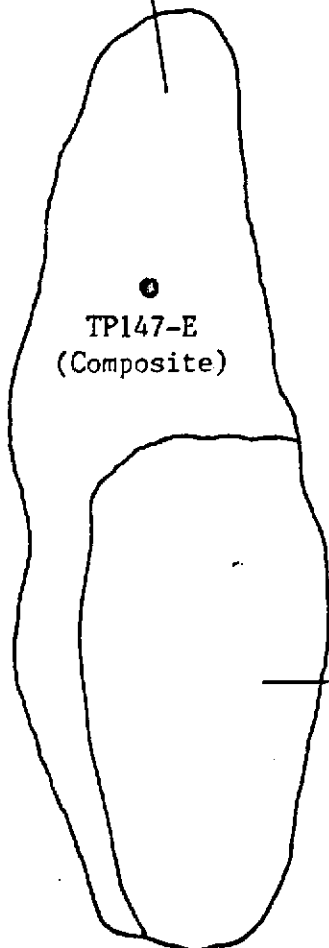
(Laboratory Name)

CHAIN OF CUSTODY RECORD

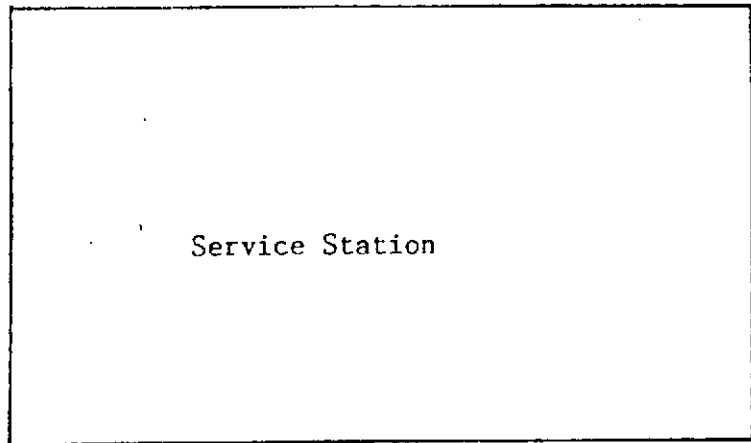
PROJ. NO.		Site Name & Address				NO. OF CON- TAINERS	Analyses Requested					REMARKS						
308-TP147		2896 CASTRO VALLEY BLVD.					TVH & BIX *	TEH *	VOC - EPA 8240 *	TOC EPA 503E *								
SAMPLERS: <i>(Signature)</i> <i>Frank Smith</i>																		
Sample No.	DATE	TISE	SOIL	Water	Location of Sample													
TP147 A1	4/14/87		X			1	X					Gasoline						
TP147 A2	"		X			1	X					"						
TP147 B1	"		X			1	X					"						
TP147 B2	"		X			1	X					"						
TP147 C1	"		X			1	X					"						
TP147 C2	"		X			1	X					"						
TP147 D	"		X			1	X	X	X			WASTE OIL						
TP147 E	"		X			1	X					Gasoline						
TP147 F	"		X			1	X	X	X			WASTE OIL						
Retrieved by: <i>(Signature)</i> <i>Frank Smith</i>		Date / Time 4/17/87 1100	Received by: <i>(Signature)</i> <i>M. Harrison</i>		Retrieved by: <i>(Signature)</i>		Date / Time	Received by: <i>(Signature)</i>										
Retrieved by: <i>(Signature)</i>		Date / Time	Received by: <i>(Signature)</i>		Retrieved by: <i>(Signature)</i>		Date / Time	Received by: <i>(Signature)</i>										
Retrieved by: <i>(Signature)</i>		Date / Time	Received for Laboratory by: <i>(Signature)</i>		Date / Time	Remarks: * Per RWQCB Guidelines												



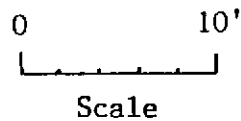
Soil excavated from around gasoline tanks



TP147-E  
(Composite)



Service Station

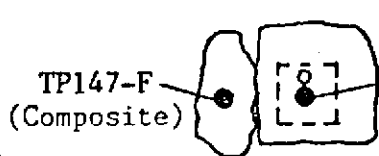


Scale

N

○ Fill point

● Sample location



300 gal. waste oil

TP147-F  
(Composite)

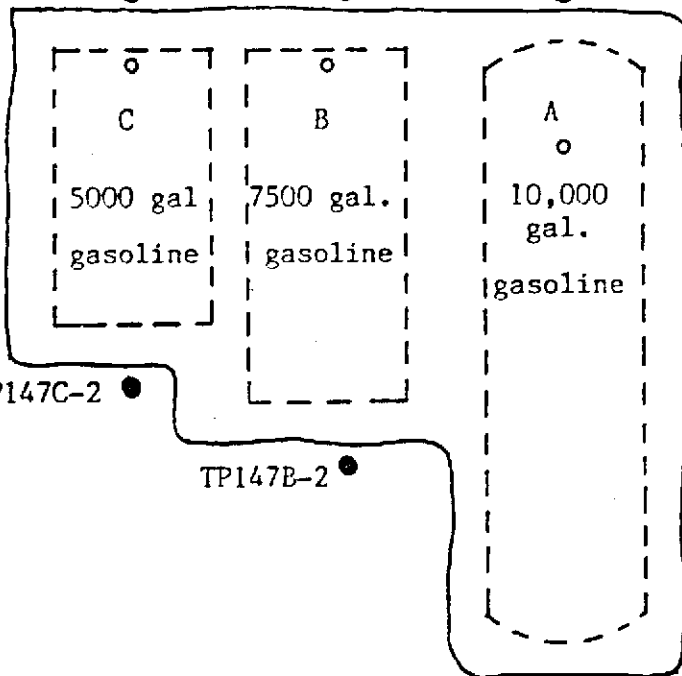
TP147-D

TP147C-1

TP147B-1

TP147A-1

Soil excavated from above gasoline tanks



C

B

A

5000 gal.  
gasoline

7500 gal.  
gasoline

10,000  
gal.  
gasoline

TP147C-2

TP147B-2

TP147A-2

60'

Anita Avenue

2896 Castro Valley Boulevard  
Castro Valley, CA

Castro Valley Boulevard