



(415) 429-8088
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Of Northern California

February 6, 1990

Dear Gil Wistar

Please enclosed find a copy of lab results for soil and water analyses located at 5175 Broadway, Oakland, CA.

If there is any further question please feel free to contact us.

Sincerely,

TANK PROTECT ENGINEERING

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

Client : Tank Protect Engineering
Address : 2821 Whipple Road
City : Union City, CA 94587
Attn. : Marc Zomorodi

Anametrix W.O.#: 9001082
Date Received : 01/11/90
Purchase Order#: N/A
Project No. : 0110901
Date Released : 01/22/90

Anametrix I.D.	Sample I.D.	Matrix	Date Sampled	Method	Date Extract	Date Analyzed	Inst I.D.
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RESULTS

9001082-01	L1,2,3,4	WATER	01/10/90	TPH		01/12/90	N/A
9001082-02	S-1-W	SOIL	01/10/90	TPH	01/11/90	01/18/90	N/A
9001082-03	S-2-N	SOIL	01/10/90	TPH		01/12/90	N/A
9001082-04	S-3-N	SOIL	01/10/90	TPH		01/12/90	N/A
9001082-05	S-3-S	SOIL	01/10/90	TPH		01/12/90	N/A
9001082-06	S-4-N	SOIL	01/10/90	TPH		01/12/90	N/A
9001082-07	S-4-S	SOIL	01/10/90	TPH		01/16/90	N/A
9001082-02	S-1-W	SOIL	01/10/90	8010		01/17/90	HP15

QUALITY ASSURANCE (QA)

15B0117H01	METHOD BLANK	SOIL	N/A	8010		01/17/90	HP15
9001082-02	S-1-W	SOIL	01/10/90	SPIKE	01/11/90	01/18/90	N/A

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 0110901 L1,2,3,4
 Matrix : WATER
 Date sampled : 01/10/90
 Date anl.TPHg: 01/12/90
 Date ext.TPHd: N/A
 Date anl.TPHd: N/A

Anamatrix I.D. : 9001082-01
 Analyst : CB
 Supervisor : TC
 Date released : 01/22/90
 Date ext. TOG : N/A
 Date anl. TOG : N/A

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
71-43-2	Benzene	50	53
108-88-3	Toluene	50	ND
100-41-4	Ethylbenzene	50	ND
1330-20-7	Total Xylenes	100	810
	TPH as Gasoline	2500	6900

ND - Below reporting limit.

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.

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

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 0110901 S-1-W
 Matrix : SOIL
 Date sampled : 01/10/90
 Date anl.TPHg: 01/12/90
 Date ext.TPHd: 01/11/90
 Date anl.TPHd: 01/18/90

Anamatrix I.D. : 9001082-02
 Analyst : CB
 Supervisor : TC
 Date released : 01/22/90
 Date ext. TOG : 01/11/90
 Date anl. TOG : 01/11/90

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	5	ND
108-88-3	Toluene	5	ND
100-41-4	Ethylbenzene	5	ND
1330-20-7	Total Xylenes	5	ND
	TPH as Gasoline	1000	ND
	TPH as Diesel	10000	ND
	Total Oil & Grease	30000	ND

- 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.
 TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following either EPA Method 3510 or 3550.
 TOG - Total Oil & Grease is determined by Standard Method 503E.
 BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

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

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 0110901 S-2-N
 Matrix : SOIL
 Date sampled : 01/10/90
 Date anl.TPHg: 01/12/90
 Date ext.TPHd: N/A
 Date anl.TPHd: N/A

Anamatrix I.D. : 9001082-03
 Analyst : *CB*
 Supervisor : *TC*
 Date released : 01/22/90
 Date ext. TOG : N/A
 Date anl. TOG : N/A

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	5000	ND
108-88-3	Toluene	5000	ND
100-41-4	Ethylbenzene	5000	13000
1330-20-7	Total Xylenes	5000	15000
	TPH as Gasoline	100000	970000

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.

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

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 0110901 S-3-N
 Matrix : SOIL
 Date sampled : 01/10/90
 Date anl.TPHg: 01/12/90
 Date ext.TPHd: N/A
 Date anl.TPHd: N/A

Anametrix I.D. : 9001082-04
 Analyst : CD
 Supervisor : TC
 Date released : 01/22/90
 Date ext. TOG : N/A
 Date anl. TOG : N/A

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	1000	ND
108-88-3	Toluene	1000	ND
100-41-4	Ethylbenzene	1000	ND
1330-20-7	Total Xylenes	1000	ND
	TPH as Gasoline	20000	120000

- 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.

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

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 0110901 S-3-S
 Matrix : SOIL
 Date sampled : 01/10/90
 Date anl.TPHg: 01/12/90
 Date ext.TPHd: N/A
 Date anl.TPHd: N/A

Anametrix I.D. : 9001082-05
 Analyst : CB
 Supervisor : JC
 Date released : 01/22/90
 Date ext. TOG : N/A
 Date anl. TOG : N/A

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	5000	ND
108-88-3	Toluene	5000	ND
100-41-4	Ethylbenzene	5000	ND
1330-20-7	Total Xylenes	5000	14000
	TPH as Gasoline	100000	930000

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.

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

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 0110901 S-4-N
 Matrix : SOIL
 Date sampled : 01/10/90
 Date anl.TPHg: 01/12/90
 Date ext.TPHd: N/A
 Date anl.TPHd: N/A

Anamatrix I.D. : 9001082-06
 Analyst : *CP*
 Supervisor : *TC*
 Date released : 01/22/90
 Date ext. TOG : N/A
 Date anl. TOG : N/A

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	50	ND
108-88-3	Toluene	50	ND
100-41-4	Ethylbenzene	50	ND
1330-20-7	Total Xylenes	50	130
	TPH as Gasoline	1000	12000

- 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.

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

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 0110901 S-4-S
 Matrix : SOIL
 Date sampled : 01/12/90
 Date anl.TPHg: 01/16/90
 Date ext.TPHd: N/A
 Date anl.TPHd: N/A

Anamatrix I.D. : 9001082-07
 Analyst : *mk*
 Supervisor : *FC*
 Date released : 01/22/90
 Date ext. TOG : N/A
 Date anl. TOG : N/A

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	200	ND
108-88-3	Toluene	200	ND
100-41-4	Ethylbenzene	200	ND
1330-20-7	Total Xylenes	200	800
	TPH as Gasoline	4000	55000

- 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.

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

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

Sample I.D. : 0110901 S-1-W
Matrix : SOIL
Date sampled : 01/10/90
Date analyzed: 01/17/90
Dilution : NONE

Anamatrix I.D. : 9001082-02
Analyst : ARL
Supervisor : CP
Date released : 01/22/90
Instrument ID : HP15

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%	62%

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. : METHOD BLANK
Matrix : SOIL
Date sampled : N/A
Date analyzed: 01/17/90
Dilution : NONE

Anamatrix I.D. : 15B0117H01
Analyst : ARL
Supervisor : C
Date released : 01/22/90
Instrument ID : HP15

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	1.3
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%	90%

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.

TOTAL EXTRACTABLE HYDROCARBON MATRIX SPIKE REPORT
 EPA METHOD 3510 WITH GC/FID
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 0110901 S-1-W
 Matrix : SOIL
 Date sampled : 01/10/90
 Date extracted: 01/11/90
 Date analyzed : 01/18/90

Anamatrix I.D. : 9001082-02
 Analyst : CB
 Supervisor : TC
 Date Released : 01/22/90

COMPOUND	SPIKE AMT. (UG/G)	MS (UG/G)	%REC MS	MSD (UG/G)	%REC MSD	RPD	%REC LIMITS
Diesel	83	73	88%	58	70%	23%	32-93

* Limits established by Anamatrix, Inc.