

**ANAMETRIX, INC.**

LABORATORY SERVICES

ENVIRONMENTAL • ANALYTICAL CHEMISTRY

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

John Adams  
Pacific Environmental Group, Inc.  
1601 Civic Center Dr., Ste. 202  
Santa Clara, CA 95050

June 20, 1988  
Work Order Number 8806100  
Date Received 06/17/88  
Project No. 330-06.03

Dear Mr. Adams:

Two soil samples were received for analysis of volatiles by GC/MS, using the following EPA method(s):

ANAMETRIX I.D.	SAMPLE I.D.	METHOD(S)
8806100-01	330-06.03 W05-NE	8240
-02	" W05-SW	"

**RESULTS**

See enclosed data sheets, Pages 2 thru 3.

**EXTRA COMPOUNDS**

See enclosed data sheets, Pages 4 thru 5.

**QUALITY ASSURANCE REPORTS**

See enclosed data sheet, Page 6.

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

Sincerely,



Burt Sutherland  
Laboratory Director

BWS/lm

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 624/8240

ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 330-06.03 W00-NE  
 Matrix : SOIL  
 Date sampled : 06-14-88  
 Date analyzed: 06-18-88  
 Dilut. factor: 100

Anamatrix I.D. : 8806100-01  
 Analyst : *WJ*  
 Supervisor : *BWS*  
 Date released : 06-20-88  
 Instrument ID : F1

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
74-87-3	* Chloromethane	1000	BRL
75-01-4	* Vinyl Chloride	1000	BRL
74-83-9	* Bromomethane	1000	BRL
75-00-3	* Chloroethane	1000	BRL
75-69-4	* Trichlorofluoromethane	500	BRL
75-35-4	* 1,1-Dichloroethene	500	BRL
76-13-1	# Trichlorotrifluoroethane	500	BRL
67-64-1	**Acetone	2000	BRL
75-15-0	**Carbondisulfide	500	BRL
75-09-2	* Methylene Chloride	500	BRL
156-60-5	* Trans-1,2-Dichloroethene	500	BRL
75-34-3	* 1,1-Dichloroethane	500	BRL
78-93-3	**2-Butanone	2000	BRL
156-59-2	* Cis-1,2-Dichloroethene	500	BRL
67-66-3	* Chloroform	500	BRL
71-55-6	* 1,1,1-Trichloroethane	500	BRL
56-23-5	* Carbon Tetrachloride	500	BRL
71-43-2	* Benzene	500	2100
107-06-2	* 1,2-Dichloroethane	500	BRL
79-01-6	* Trichloroethene	500	BRL
78-87-5	* 1,2-Dichloropropane	500	BRL
75-27-4	* Bromodichloromethane	500	BRL
110-75-8	* 2-Chloroethylvinylether	500	BRL
108-05-4	**Vinyl Acetate	1000	BRL
10061-02-6	* Trans-1,3-Dichloropropene	500	BRL
108-10-1	**4-Methyl-2-Pentanone	1000	BRL
108-88-3	* Toluene	500	14000
10061-01-5	* cis-1,3-Dichloropropene	500	BRL
79-00-5	* 1,1,2-Trichloroethane	500	BRL
127-18-4	* Tetrachloroethene	500	BRL
591-78-6	**2-Hexanone	1000	BRL
124-48-1	* Dibromochloromethane	500	BRL
108-90-7	* Chlorobenzene	500	BRL
100-41-4	* Ethylbenzene	500	5900
1330-20-7	**Total Xylenes	500	37000
100-42-5	**Styrene	500	BRL
75-25-2	* Bromoform	500	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	500	BRL
541-73-1	* 1,3-Dichlorobenzene	500	BRL
106-46-7	* 1,4-Dichlorobenzene	500	BRL
95-50-1	* 1,2-Dichlorobenzene	500	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	111%
2037-26-5	Toluene-d8	76-131%	107%
460-00-4	p-Bromofluorobenzene	74-116%	101%

\* A Method 624 priority pollutant compound (Federal Register, 10/26/84)  
 \*\* A compound on the U.S. EPA CLP Hazardous Substance List (HSL)  
 # A compound added by Anamatrix, Inc. BRL : Below reporting limit.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 624/8240

ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 330-06.03 W-1-SW Anamatrix I.D. : 8806100-02  
 Matrix : SOIL Analyst : LN  
 Date sampled : 06-14-88 Supervisor : BWS  
 Date analyzed: 06-18-88 Date released : 06-20-88  
 Dilut. factor: 100 Instrument ID : F1

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
74-87-3	* Chloromethane	1000	BRL
75-01-4	* Vinyl Chloride	1000	BRL
74-83-9	* Bromomethane	1000	BRL
75-00-3	* Chloroethane	1000	BRL
75-69-4	* Trichlorofluoromethane	500	BRL
75-35-4	* 1,1-Dichloroethene	500	BRL
76-13-1	# Trichlorotrifluoroethane	500	BRL
67-64-1	**Acetone	2000	BRL
75-15-0	**Carbendisulfide	500	BRL
75-09-2	* Methylene Chloride	500	BRL
156-60-5	* Trans-1,2-Dichloroethene	500	BRL
75-34-3	* 1,1-Dichloroethane	500	BRL
78-93-3	**2-Butanone	2000	BRL
156-59-2	* Cis-1,2-Dichloroethene	500	BRL
67-66-3	* Chloroform	500	BRL
71-55-6	* 1,1,1-Trichloroethane	500	BRL
56-23-5	* Carbon Tetrachloride	500	BRL
71-43-2	* Benzene	500	1700
107-06-2	* 1,2-Dichloroethane	500	BRL
79-01-6	* Trichloroethene	500	BRL
78-87-5	* 1,2-Dichloropropane	500	BRL
75-27-4	* Bromodichloromethane	500	BRL
110-75-8	* 2-Chloroethylvinylether	500	BRL
108-05-4	**Vinyl Acetate	1000	BRL
10061-02-6	* Trans-1,3-Dichloropropene	500	BRL
108-10-1	**4-Methyl-2-Pentanone	1000	BRL
108-88-3	* Toluene	500	13000
10061-01-5	* cis-1,3-Dichloropropene	500	BRL
79-00-5	* 1,1,2-Trichloroethane	500	BRL
127-18-4	* Tetrachloroethene	500	BRL
591-78-6	**2-Hexanone	1000	BRL
124-48-1	* Dibromochloromethane	500	BRL
108-90-7	* Chlorobenzene	500	BRL
100-41-4	* Ethylbenzene	500	7100
1330-20-7	**Total Xylenes	500	45000
100-42-5	**Styrene	500	BRL
75-25-2	* Bromoform	500	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	500	BRL
541-73-1	* 1,3-Dichlorobenzene	500	BRL
106-46-7	* 1,4-Dichlorobenzene	500	BRL
95-50-1	* 1,2-Dichlorobenzene	500	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	119%
2037-26-5	Toluene-d8	76-131%	107%
460-00-4	p-Bromofluorobenzene	74-116%	112%

\* A Method 624 priority pollutant compound (Federal Register, 10/26/84)  
 \*\* A compound on the U.S. EPA CLP Hazardous Substance List (HSL)  
 # A compound added by Anamatrix, Inc. BRL : Below reporting limit.

ORGANICS ANALYSIS DATA SHEET - TENTATIVELY IDENTIFIED COMPOUNDS

ANAMETRIX, INC. (408) 432-818

Sample I.D. : 330-06.03 W05-NE      Anamatrix I.D. : 8806100-01  
 Matrix : SOIL      Analyst : *LN*  
 Date Sampled : 06-14-88      Supervisor : *BWS*  
 Analyzed VOA : 06-18-88      Date Released : 06-20-88  
 Dilution VOA : 1:100  
 Analyzed SV : NA  
 Dilution SV : NA

Volatile Fraction				Det.	Amt.
CAS #	Scan#	Compound Name	Limit	ppb	Found
				ppb	ppb
1	111-84-2	808	nonane	500	10000
2	124-18-5	1080	decane	500	17000
3	611-14-3	1108	1-ethyl-2-methylbenzene	500	20000
4	95-63-6	1194	1,2,4-trimethylbenzene	500	23000
5	1758-88-9	1353	2-ethyl-1,4-dimethylbenzene	500	8900
6				500	
7				500	
8				500	
9				500	
10				500	

  

Semivolatile Fraction				Det.	Amt.
CAS #	Scan#	Compound Name	Limit	ppb	Found
				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.

ORGANICS ANALYSIS DATA SHEET - TENTATIVELY IDENTIFIED COMPOUNDS  
 ANAMETRIX, INC. (408) 432-8111

Sample I.D. : 330-06.03 W05-SW      Anametrix I.D. : 8806100-02  
 Matrix : SOIL      Analyst : ARL  
 Date Sampled : 06-14-88      Supervisor : BWS  
 Analyzed VOA : 06-18-88      Date Released : 06-20-88  
 Dilution VOA : 1:100  
 Analyzed SV : NA  
 Dilution SV : NA

	CAS #	Scan#	Volatile Fraction Compound Name	Det. Limit ppb	Amt. Found ppb
1	111-84-2	813	nonane	5	12000
2	124-18-5	1083	decane	5	14000
3	611-14-3	1112	1-ethyl-2-methylbenzene	5	18000
4	95-63-6	1197	1,2,4-trimethylbenzene	5	25000
5	1758-88-9	1356	2-ethyl-1,4-dimethylbenzene	5	8500
6				5	
7				5	
8				5	
9				5	
10				5	

  

	CAS #	Scan#	Semivolatile Fraction Compound Name	Det. Limit ppb	Amt. Found 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 - EPA METHOD 624/8240

ANAMETRIX, INC. (408) 432-8192

Sample I.D. : METHOD BLANK Anamatrix I.D. : 1CB0618V000  
 Matrix : SOIL Analyst : LM  
 Date sampled : NA Supervisor : BLS  
 Date analyzed: 06-18-88 Date released : 06-20-88  
 Dilut. factor: NONE Instrument ID : F1

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	112%
2037-26-5	Toluene-d8	76-131%	110%
460-00-4	p-Bromofluorobenzene	74-116%	107%

\* A Method 624 priority pollutant compound (Federal Register, 10/26/84)  
 \*\* A compound on the U.S. EPA CLP Hazardous Substance List (HSL)  
 # A compound added by Anamatrix, Inc. BRL : Below reporting limit.