

Sample Number

AE226 KH  
AE266

## Organics Analysis Data Sheet

(Page 1)

Laboratory Name: Aquatec, Inc.Case No: 6483Lab Sample ID No: 63447QC Report No: 19Sample Matrix: SoilContract No: 68-01-7020Data Release Authorized By: JoelDate Sample Received: 11-OCT-86

## Volatile Compounds

Concentration:  Low  Medium  (Circle One)Date Extracted/Prepared: -----Date Analyzed: 13-OCT-86Conc/Dil Factor: 2.083 pH 5.050Percent Moisture: (Not Decanted) 10.78

SDMS DocID 568257

Joel,  
Organics analysis  
results from Phase II  
surficial soil sampling.  
B.R.

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	6 B
67-64-1	Acetone	60 B
75-15-0	Carbon Disulfide	5 U
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	5 U
156-60-5	Trans-1,2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	10 U
71-55-6	1,1,1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U
75-27-4	Bromodichloromethane	5 U

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	6
79-34-5	1,1,2,2-Tetrachloroethane	5 U
108-88-3	Toluene	4 J
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 U

## Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides  $\geq 10$  ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Laboratory Name: Aquatec, Inc.

Case No: 6483

Sample Number

AE226

**Organics Analysis Data Sheet**

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63447  
(SS-8)

**Semivolatile Compounds**

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 19-OCT-86

Date Analyzed: 27-OCT-86

(Conc) Dil Factor: 13.52

Percent Moisture: (Decanted) 10.78

GPC Cleanup  Yes  No

Separatory Funnel Extraction  Yes

Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
108-95-2	Phenol	730 U
111-44-4	bis(-2-Chloroethyl)Ether	730 U
95-57-8	2-Chlorophenol	730 U
541-73-1	1, 3-Dichlorobenzene	730 U
106-46-7	1, 4-Dichlorobenzene	730 U
100-51-6	Benzyl Alcohol	730 U
95-50-1	1, 2-Dichlorobenzene	850
95-48-7	2-Methylphenol	730 U
39638-32-9	bis(2-chloroisopropyl)Ether	730 U
106-44-5	4-Methylphenol	730 U
621-64-7	N-Nitroso-Di-n-Propylamine	730 U
67-72-1	Hexachloroethane	730 U
98-95-3	Nitrobenzene	730 U
78-59-1	Isophorone	730 U
88-75-5	2-Nitrophenol	730 U
105-67-9	2, 4-Dimethylphenol	730 U
65-85-0	Benzoic Acid	3600 U
111-91-1	bis(-2-Chloroethoxy)Methane	730 U
120-83-2	2, 4-Dichlorophenol	730 U
120-82-1	1, 2, 4-Trichlorobenzene	1400
91-20-3	Naphthalene	340 J
106-47-8	4-Chloroaniline	730 U
87-68-3	Hexachlorobutadiene	730 U
59-50-7	4-Chloro-3-Methylphenol	730 U
91-57-6	2-Methylnaphthalene	260 J
77-47-4	Hexachlorocyclopentadiene	730 U
88-06-2	2, 4, 6-Trichlorophenol	730 U
95-95-4	2, 4, 5-Trichlorophenol	3600 U
91-58-7	2-Chloronaphthalene	730 U
88-74-4	2-Nitroaniline	3600 U
131-11-3	Dimethyl Phthalate	730 U
208-96-8	Acenaphthylene	270 J
99-09-2	3-Nitroaniline	3600 U

CAS Number		ug/l or (ug/Kg) (Circle One)
83-32-9	Acenaphthene	730 U
51-28-5	2, 4-Dinitrophenol	3600 U
100-02-7	4-Nitrophenol	3600 U
132-64-9	Dibenzofuran	180 J
121-14-2	2, 4-Dinitrotoluene	730 U
606-20-2	2, 6-Dinitrotoluene	730 U
84-66-2	Diethylphthalate	730 U
7005-72-3	4-Chlorophenyl-phenylether	730 U
86-73-7	Fluorene	730 U
100-01-6	4-Nitroaniline	3600 U
534-52-1	4, 6-Dinitro-2-Methylphenol	3600 U
86-30-6	N-Nitrosodiphenylamine(1)	730 U
101-55-3	4-Bromophenyl-phenylether	730 U
118-74-1	Hexachlorobenzene	730 U
87-86-5	Pentachlorophenol	3600 U
85-01-8	Phenanthrene	1000
120-12-7	Anthracene	240 J
84-74-2	Di-n-Butylphthalate	730 U
206-44-0	Fluoranthene	2800
129-00-0	Pyrene	2700
85-68-7	Butylbenzylphthalate	730 U
91-94-1	3, 3'-Dichlorobenzidine	1500 U
56-55-3	Benzo(a)Anthracene	1200
117-81-7	bis(2-Ethylhexyl)Phthalate	250 J
218-01-9	Chrysene	1900
117-84-0	Di-n-Octyl Phthalate	730 U
205-99-2	Benzo(b)Fluoranthene	1800
207-08-9	Benzo(k)Fluoranthene	1400
50-32-8	Benzo(a)Pyrene	1100
193-39-5	Indeno(1, 2, 3-cd)Pyrene	810
53-70-3	Dibenz(a, h)Anthracene	440 J
191-24-2	Benzo(g, h, i)Perylene	800

(1)-Cannot be separated from diphenylamine

Laboratory Name: Aquatec, Inc.

Sample Number  
AE226

Case No: 6483

63447  
(SS-8)

### Organics Analysis Data Sheet (Page 3)

#### Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

GPC Cleanup  Yes  No

Date Extracted/Prepared: 14-OCT-86

Separatory Funnel Extraction  Yes

Date Analyzed: 29-OCT-86

Continuous Liquid - Liquid Extraction  Yes

(Conc) Dil Factor: 0.1352

Percent Moisture: (Decanted) 10.78

CAS Number		ug/l or <u>(ug/Kg)</u> (Circle One)
319-84-6	Alpha-BHC	89 U
319-85-7	Beta-BHC	89 U
319-86-8	Delta-BHC	89 U
58-89-9	Gamma-BHC (Lindane)	89 U
76-44-8	Heptachlor	89 U
309-00-2	Aldrin	89 U
1024-57-3	Heptachlor Epoxide	89 U
959-98-8	Endosulfan I	89 U
60-57-1	Dieldrin	180 U
72-55-9	4,4'-DDE	180 U
72-20-8	Endrin	180 U
33213-65-9	Endosulfan II	180 U
72-54-8	4,4'-DDD	180 U
1031-07-8	Endosulfan Sulfate	180 U
50-29-3	4,4'-DDT	180 U
72-43-5	Methoxychlor	890 U
53494-70-5	Endrin Ketone	180 U
57-74-9	Chlordane	890 U
8001-35-2	Toxaphene	1800 U
12674-11-2	Aroclor-1016	890 U
11104-28-2	Aroclor-1221	890 U
11141-16-5	Aroclor-1232	890 U
53469-21-9	Aroclor-1242	890 U
12672-29-6	Aroclor-1248	890 U
11097-69-1	Aroclor-1254	1800 U
11096-82-5	Aroclor-1260	1800 U

$V_i$  = Volume of extract injected (ul)

$V_s$  = Volume of water extracted (ml)

$W_s$  = Weight of sample extracted (g)

$V_t$  = Volume of total extract (ul)

$V_s$  \_\_\_\_\_ or  $W_s$  30.30 \_\_\_\_\_  $V_t$  200000 \_\_\_\_\_  $V_i$  3.2 \_\_\_\_\_

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Laboratory Name: Aquatec, Inc.

Case No: 6483

Sample Number  
AE 226  
AE266

**Organics Analysis Data Sheet**  
 (Page 4)

63447  
 (SS-8)

**Tentatively Identified Compounds**

CAS Number	Compound Name	Fraction	RT or (Scan) Number	Estimated Concentration (ug/l or ug/kg)
1. 75-69-4	TRICHLOROFLUOROMETHANE	VO	138	12 J
2. —	unknown	BNA	358	760 JB
3. —	suspected aldol condensation product	BNA	437	6400 JB
4. —	unknown hydrocarbon	BNA	470	420 JB
5. —	unknown hydrocarbon	BNA	496	620 JB
6. —	unknown hydrocarbon	BNA	517	740 JB
7. —	unknown	BNA	782	1200 JB
8. —	unknown ester	BNA	878	430 J
9. —	trichlorobenzene isomer	BNA	1114	450 J
10. —	unknown polynuclear aromatic			
11. —	hydrocarbon	BNA	2046	420 J
12. —				
13. —	unknown	BNA	2148	600 J
14. —	unknown polynuclear			
15. —	aromatic hydrocarbon	BNA	2168	420 J
16. —	unknown hydrocarbon	BNA	2189	470 JB
17. —	unknown	BNA	2255	430 J
18. —	unknown	BNA	2262	720 J
19. —	unknown polynuclear			
20. —	aromatic hydrocarbon	BNA	2300	350 J
21. —	unknown hydrocarbon	BNA	2310	570 JB
22. —	unknown hydrocarbon	BNA	2421	490 JB
23. —	unknown polynuclear			
24. —	aromatic hydrocarbon	BNA	2429	450 J
25. —	unknown polynuclear			
26. —	aromatic hydrocarbon	BNA	2458	1400 J
27. —	unknown	BNA	2735	890 J
28. —				
29. —				
30. —				

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## Organics Analysis Data Sheet

(Page 1)

Laboratory Name: Aquatec, Inc.Case No: 6483Lab Sample ID No: 63448QC Report No: 19Sample Matrix: SoilContract No: 68-01-7020Data Release Authorized By: [Signature]Date Sample Received: 11-OCT-86

## Volatile Compounds

Concentration: (Low) Medium (Circle One)Date Extracted/Prepared: -----Date Analyzed: 14-OCT-86Conc/Dil Factor: 2.765 pH 7.850Percent Moisture: (Not Decanted) 13.47

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	14 U
74-83-9	Bromomethane	14 U
75-01-4	Vinyl Chloride	14 U
75-00-3	Chloroethane	14 U
75-09-2	Methylene Chloride	10 B
67-64-1	Acetone	51 B
75-15-0	Carbon Disulfide	7 U
75-35-4	1,1-Dichloroethene	7 U
75-34-3	1,1-Dichloroethane	7 U
156-60-5	Trans-1,2-Dichloroethene	7 U
67-66-3	Chloroform	7 U
107-06-2	1,2-Dichloroethane	7 U
78-93-3	2-Butanone	14 U
71-55-6	1,1,1-Trichloroethane	7 U
56-23-5	Carbon Tetrachloride	7 U
108-05-4	Vinyl Acetate	14 U
75-27-4	Bromodichloromethane	7 U

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1,2-Dichloropropane	7 U
10061-02-6	Trans-1,3-Dichloropropene	7 U
79-01-6	Trichloroethene	7 U
124-48-1	Dibromochloromethane	7 U
79-00-5	1,1,2-Trichloroethane	7 U
71-43-2	Benzene	7 U
10061-01-5	cis-1,3-Dichloropropene	7 U
110-75-8	2-Chloroethylvinylether	14 U
75-25-2	Bromoform	7 U
591-78-6	2-Hexanone	14 U
108-10-1	4-Methyl-2-Pentanone	14 U
127-18-4	Tetrachloroethene	7 U
79-34-5	1,1,2,2-Tetrachloroethane	7 U
108-88-3	Toluene	7 U
108-90-7	Chlorobenzene	7 U
100-41-4	Ethylbenzene	7 U
100-42-5	Styrene	7 U
	Total Xylenes	7 U

## Data Reporting Qualifiers

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J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides  $\geq 10$  ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Laboratory Name: Aquatec, Inc.

Case No: 6483

Sample Number  
AF782

## Organics Analysis Data Sheet (Page 2)

(63448)  
**(SS-6)**

### Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 19-OCT-86

Date Analyzed: 27-OCT-86

Conc Dil Factor: 12.98

Percent Moisture: (Decanted) 13.47

GPC Cleanup  Yes  No

Separatory Funnel Extraction  Yes

Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/l or <u>(ug/Kg)</u> (Circle One)
108-95-2	Phenol	760 U
111-44-4	bis(-2-Chloroethyl)Ether	760 U
95-57-8	2-Chlorophenol	760 U
541-73-1	1, 3-Dichlorobenzene	760 U
106-46-7	1, 4-Dichlorobenzene	760 U
100-51-6	Benzyl Alcohol	760 U
95-50-1	1, 2-Dichlorobenzene	760 U
95-48-7	2-Methylphenol	760 U
39638-32-9	bis(2-chloroisopropyl)Ether	760 U
106-44-5	4-Methylphenol	760 U
621-64-7	N-Nitroso-Di-n-Propylamine	760 U
67-72-1	Hexachloroethane	760 U
98-95-3	Nitrobenzene	760 U
78-59-1	Isophorone	760 U
88-75-5	2-Nitrophenol	760 U
105-67-9	2, 4-Dimethylphenol	760 U
65-85-0	Benzoic Acid	3700 U
111-91-1	bis(-2-Chloroethoxy)Methane	760 U
120-83-2	2, 4-Dichlorophenol	760 U
120-82-1	1, 2, 4-Trichlorobenzene	760 U
91-20-3	Naphthalene	760 U
106-47-8	4-Chloroaniline	760 U
87-68-3	Hexachlorobutadiene	760 U
59-50-7	4-Chloro-3-Methylphenol	760 U
91-57-6	2-Methylnaphthalene	760 U
77-47-4	Hexachlorocyclopentadiene	760 U
88-06-2	2, 4, 6-Trichlorophenol	760 U
95-95-4	2, 4, 5-Trichlorophenol	3700 U
91-58-7	2-Chloronaphthalene	760 U
88-74-4	2-Nitroaniline	3700 U
131-11-3	Dimethyl Phthalate	760 U
208-96-8	Acenaphthylene	760 U
99-09-2	3-Nitroaniline	3700 U

CAS Number		ug/l or <u>(ug/Kg)</u> (Circle One)
83-32-9	Acenaphthene	760 U
51-28-5	2, 4-Dinitrophenol	3700 U
100-02-7	4-Nitrophenol	3700 U
132-64-9	Dibenzofuran	760 U
121-14-2	2, 4-Dinitrotoluene	760 U
606-20-2	2, 6-Dinitrotoluene	760 U
84-66-2	Diethylphthalate	760 U
7005-72-3	4-Chlorophenyl-phenylether	760 U
86-73-7	Fluorene	760 U
100-01-6	4-Nitroaniline	3700 U
534-52-1	4, 6-Dinitro-2-Methylphenol	3700 U
86-30-6	N-Nitrosodiphenylamine(1)	760 U
101-55-3	4-Bromophenyl-phenylether	760 U
118-74-1	Hexachlorobenzene	760 U
87-86-5	Pentachlorophenol	3700 U
85-01-8	Phenanthrene	380 J
120-12-7	Anthracene	91 J
84-74-2	Di-n-Butylphthalate	120 J
206-44-0	Fluoranthene	800
129-00-0	Pyrene	740 J
85-68-7	Butylbenzylphthalate	760 U
91-94-1	3, 3'-Dichlorobenzidine	1500 U
56-55-3	Benzo(a)Anthracene	400 J
117-81-7	bis(2-Ethylhexyl)Phthalate	130 J
218-01-9	Chrysene	500 J
117-84-0	Di-n-Octyl Phthalate	760 U
205-99-2	Benzo(b)Fluoranthene	750 J
207-08-9	Benzo(k)Fluoranthene	760 U
50-32-8	Benzo(a)Pyrene	450 J
193-39-5	Indeno(1, 2, 3-cd)Pyrene	250 J
53-70-3	Dibenz(a, h)Anthracene	760 U
191-24-2	Benzo(g, h, i)Perylene	280

(1)-Cannot be separated from diphenylamine

000019

Laboratory Name: Aquatec, Inc.

Case No: 6483

Sample Number  
AF782

**Organics Analysis Data Sheet**  
(Page 2)

63448  
(SS-6)

**Semivolatile Compounds**

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 19-OCT-86

Date Analyzed: 27-OCT-86

Conc Dil Factor: 12.98

Percent Moisture: (Decanted) 13.47

GPC Cleanup  Yes  No

Separatory Funnel Extraction  Yes

Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
108-95-2	Phenol	760 U
111-44-4	bis(-2-Chloroethyl)Ether	760 U
95-57-8	2-Chlorophenol	760 U
541-73-1	1, 3-Dichlorobenzene	760 U
106-46-7	1, 4-Dichlorobenzene	760 U
100-51-6	Benzyl Alcohol	760 U
95-50-1	1, 2-Dichlorobenzene	760 U
95-48-7	2-Methylphenol	760 U
39638-32-9	bis(2-chloroisopropyl)Ether	760 U
106-44-5	4-Methylphenol	760 U
621-64-7	N-Nitroso-Di-n-Propylamine	760 U
67-72-1	Hexachloroethane	760 U
98-95-3	Nitrobenzene	760 U
78-59-1	Isophorone	760 U
88-75-5	2-Nitrophenol	760 U
105-67-9	2, 4-Dimethylphenol	760 U
65-85-0	Benzoic Acid	3700 U
111-91-1	bis(-2-Chloroethoxy)Methane	760 U
120-83-2	2, 4-Dichlorophenol	760 U
120-82-1	1, 2, 4-Trichlorobenzene	760 U
91-20-3	Naphthalene	760 U
106-47-8	4-Chloroaniline	760 U
87-68-3	Hexachlorobutadiene	760 U
59-50-7	4-Chloro-3-Methylphenol	760 U
91-57-6	2-Methylnaphthalene	760 U
77-47-4	Hexachlorocyclopentadiene	760 U
88-06-2	2, 4, 6-Trichlorophenol	760 U
95-95-4	2, 4, 5-Trichlorophenol	3700 U
91-58-7	2-Chloronaphthalene	760 U
88-74-4	2-Nitroaniline	3700 U
131-11-3	Dimethyl Phthalate	760 U
208-96-8	Acenaphthylene	760 U
99-09-2	3-Nitroaniline	3700 U

CAS Number		ug/l or (ug/Kg) (Circle One)
83-32-9	Acenaphthene	760 U
51-28-5	2, 4-Dinitrophenol	3700 U
100-02-7	4-Nitrophenol	3700 U
132-64-9	Dibenzofuran	760 U
121-14-2	2, 4-Dinitrotoluene	760 U
606-20-2	2, 6-Dinitrotoluene	760 U
84-66-2	Diethylphthalate	760 U
7005-72-3	4-Chlorophenyl-phenylether	760 U
86-73-7	Fluorene	760 U
100-01-6	4-Nitroaniline	3700 U
534-52-1	4, 6-Dinitro-2-Methylphenol	3700 U
86-30-6	N-Nitrosodiphenylamine(1)	760 U
101-55-3	4-Bromophenyl-phenylether	760 U
118-74-1	Hexachlorobenzene	760 U
87-86-5	Pentachlorophenol	3700 U
85-01-8	Phenanthrene	380 J
120-12-7	Anthracene	91 J
84-74-2	Di-n-Butylphthalate	120 J
206-44-0	Fluoranthene	800
129-00-0	Pyrene	740 J
85-68-7	Butylbenzylphthalate	760 U
91-94-1	3, 3'-Dichlorobenzidine	1500 U
56-55-3	Benzo(a)Anthracene	400 J
117-81-7	bis(2-Ethylhexyl)Phthalate	130 J
218-01-9	Chrysene	500 J
117-84-0	Di-n-Octyl Phthalate	760 U
205-99-2	Benzo(b)Fluoranthene	750 J
207-08-9	Benzo(k)Fluoranthene	760 U
50-32-8	Benzo(a)Pyrene	450 J
193-39-5	Indeno(1, 2, 3-cd)Pyrene	250 J
53-70-3	Dibenz(a, h)Anthracene	760 U
191-24-2	Benzo(g, h, i)Perylene	280

(1)-Cannot be separated from diphenylamine

000019

Laboratory Name: Aquatec, Inc.

Case No: 6483

Sample Number  
AF782

63448  
(55-6)

## Organics Analysis Data Sheet

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### Pesticide/PCBs

Concentration: Low Medium (Circle One)

GPC Cleanup  Yes  No

Date Extracted/Prepared: 14-OCT-86

Separatory Funnel Extraction  Yes

Date Analyzed: 29-OCT-86

Continuous Liquid - Liquid Extraction  Yes

Conc Dil Factor: 0.1298

Percent Moisture: (Decanted) 13.47

CAS Number		ug/l or <u>(ug/Kg)</u> (Circle One)
319-84-6	Alpha-BHC	92 U
319-85-7	Beta-BHC	92 U
319-86-8	Delta-BHC	92 U
58-89-9	Gamma-BHC (Lindane)	92 U
76-44-8	Heptachlor	92 U
309-00-2	Aldrin	92 U
1024-57-3	Heptachlor Epoxide	92 U
959-98-8	Endosulfan I	92 U
60-57-1	Dieldrin	180 U
72-55-9	4,4'-DDE	180 U
72-20-8	Endrin	180 U
33213-65-9	Endosulfan II	180 U
72-54-8	4,4'-DDD	180 U
1031-07-8	Endosulfan Sulfate	180 U
50-29-3	4,4'-DDT	180 U
72-43-5	Methoxychlor	920 U
53494-70-5	Endrin Ketone	180 U
57-74-9	Chlordane	920 U
8001-35-2	Toxaphene	1800 U
12674-11-2	Aroclor-1016	920 U
11104-28-2	Aroclor-1221	920 U
11141-16-5	Aroclor-1232	920 U
53469-21-9	Aroclor-1242	920 U
12672-29-6	Aroclor-1248	920 U
11097-69-1	Aroclor-1254	1800 U
11096-82-5	Aroclor-1260	1800 U

$V_i$  = Volume of extract injected (ul)  
 $V_s$  = Volume of water extracted (ml)  
 $W_s$  = Weight of sample extracted (g)  
 $V_t$  = Volume of total extract (ul)

$V_s$  \_\_\_\_\_ or  $W_s$  30       $V_t$  200000       $V_i$  3.2

000020



Laboratory Name: Aquatec, Inc.

Case No: 6483

Sample Number

AF782

63448

### Organics Analysis Data Sheet

(Page 4)

#### Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or (Scan) Number	Estimated Concentration (ug/l or (ug/kg))
1.	NO VOLATILE COMPOUNDS FOUND			
2. —	unknown	BNA	356	780 JB
3. —	suspected aldol condensation product	BNA	435	5700 JB
4. —	unknown hydrocarbon	BNA	469	430 JB
5. —	unknown hydrocarbon	BNA	495	630 JB
6. —	unknown hydrocarbon	BNA	515	790 JB
7. —	unknown	BNA	781	1200 JB
8. —	unknown hydrocarbon	BNA	2423	570 JB
9. —	unknown	BNA	2439	610 J
10. —	unknown polynuclear			
11. —	aromatic hydrocarbon	BNA	2460	410 J
12. —	unknown	BNA	2496	510 J
13. —	unknown	BNA	2532	450 J
14. —	unknown	BNA	2585	530 J
15. —	unknown	BNA	2653	1100 J
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

WE RECEIVED

000021

Sample Number

AF786

## Organics Analysis Data Sheet

(Page 1)

000028

Laboratory Name: York LabsCase No: 6572Lab Sample ID No: 0262001

QC Report No: \_\_\_\_\_

Sample Matrix: SoilContract No: 68-01-7157Data Release Authorized By: J. P. CaldwellDate Sample Received: 11/14/86

## Volatile Compounds (35)

Concentration: Low Medium (Circle One)Date Extracted/Prepared: 11/23/86Date Analyzed: 11/23/86Conc/Dil Factor: 4.0 pH 5.14Percent Moisture: (Not Decanted) 9.26TP-1 S-1

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	4000u
74-83-9	Bromomethane	4000u
75-01-4	Vinyl Chloride	4000u
75-00-3	Chloroethane	4000u
75-09-2	Methylene Chloride	8500
67-64-1	Acetone	4000u
75-15-0	Carbon Disulfide	2000u
75-35-4	1, 1-Dichloroethene	2000u
75-34-3	1, 1-Dichloroethane	2000u
156-60-5	Trans-1, 2-Dichloroethene	19000
67-66-3	Chloroform	2000u
107-06-2	1, 2-Dichloroethane	2000u
78-93-3	2-Butanone	2000u
71-55-6	1, 1, 1-Trichloroethane	2000u
56-23-5	Carbon Tetrachloride	2000u
108-05-4	Vinyl Acetate	2000u
75-27-4	Bromodichloromethane	2000u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	2000u
10061-02-6	Trans-1, 3-Dichloropropene	2000u
79-01-6	Trichloroethene	2000u
124-48-1	Dibromochloromethane	2000u
79-00-5	1, 1, 2-Trichloroethane	2000u
71-43-2	Benzene	2000u
10061-01-5	cis-1, 3-Dichloropropene	2000u
110-75-8	2-Chloroethylvinylether	4000u
75-25-2	Bromoform	2000u
108-10-1	4-Methyl-2-Pentanone	4000u
591-78-6	2-Hexanone	4000u
127-18-4	Tetrachloroethene	2000u
79-34-5	1, 1, 2, 2-Tetrachloroethane	2000u
108-88-3	Toluene	4100
108-90-7	Chlorobenzene	2000u
100-41-4	Ethylbenzene	70000
100-42-5	Styrene	2000u
	Total Xylenes	4500

## Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used.

Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- Value** If the result is a value greater than or equal to the detection limit, report the value
- U** Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample
- J** Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J) If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.
- C** This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides  $\geq 10$  ng/ul in the final extract should be confirmed by GC/MS.
- B** This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- Other** Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name: York Laboratories

Case No: EPA 6572

Sample Number  
**AF 786**

Organics Analysis Data Sheet  
(Page 2)

**000029**

Samivolatile Compounds (65)

Concentration: Low  **Medium**  (Circle One)  
 Date Extracted/Prepared 11/17/86  
 Date Analyzed: 11/21/86  
 Conc/Dil Factor: 1.0  
 Percent Moisture (Decanted) 9.26

GPC Cleanup  Yes  No  
 Separatory Funnel Extraction  Yes  
 Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	20000u
111-44-4	bis(2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylpheno!	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	↓ ↓
65-85-0	Benzoic Acid	96000u
111-91-1	bis(2-Chloroethoxy)Methane	20000u
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	↓ ↓
91-57-6	2-Methylnaphthalene	2000 J
77-47-4	Hexachlorocyclopentadiene	20000u
88-06-2	2, 4, 6-Trichlorophenol	20000u
95-95-4	2, 4, 5-Trichlorophenol	96000u
91-58-7	2-Chloronaphthalene	20000u
88-74-4	2-Nitroaniline	96000u
131-11-3	Dimethyl Phthalate	20000u
208-96-8	Acenaphthylene	20000u
99-09-2	3-Nitroaniline	96000u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20000u
51-28-5	2, 4-Dinitrophenol	96000u
100-02-7	4-Nitrophenol	96000u
132-64-9	Dibenzofuran	20000u
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	↓ ↓
100-01-6	4-Nitroaniline	96000u
534-52-1	4, 6-Dinitro-2-Methylphenol	96000u
86-30-6	N-Nitrosodiphenylamine (1)	20000u
101-55-3	4-Bromophenyl-phenylether	↓ ↓
118-74-1	Hexachlorobenzene	↓ ↓
87-86-5	Pentachlorophenol	96000u
85-01-8	Phenanthrene	1000 J
120-12-7	Anthracene	20000u
84-74-2	Di-n-Butylphthalate	20000u
206-44-0	Fluorenone	500 J
129-00-0	Pyrene	20000u
85-68-7	Butylbenzylphthalate	20000u
91-94-1	3, 3'-Dichlorobenzidine	40000u
56-55-3	Benzofluoranthrene	20000u
117-81-7	bis(2-Ethylhexyl)Phthalate	
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzofluoranthene	
207-08-9	Benzofluoranthene	
50-32-8	Benzofluoranthene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzofluoranthene	↓ ↓

(1) Cannot be separated from diphenylamine

Laboratory Name York Labs  
 Case No. 6572

Sample Number  
AF 786

Organics Analysis Data Sheet  
 (Page 3)

000030

Concentration: Low   Medium  
 Date Extracted/Prepared: \_\_\_\_\_  
 Date Analyzed: 12/6  
 Conc/Dil Factor: 1.0  
 Percent Moisture (decanted) \_\_\_\_\_

Test Pit Samples

Soil  action  Yes  
 Liquid Extraction  Yes

ORGANICS  
 ANALYSIS

CAS  
 Number

EX. Test Pit #1  
 Sample #1 =  
 TP-1 S-1

319-8		
319-8		
319-8		
58-89		
76-44		
309-0		
1024-57-3	Heptachlor Epoxide	120. u
959-98-8	Endosulfan I	120. u
60-57-1	Dieldrin	240. u
72-55-9	4, 4'-DDE	240. u
72-20-8	Endrin	240. u
33213-65-9	Endosulfan II	240. u
72-54-8	4, 4'-DDD	240. u
1031-07-8	Endosulfan Sulfate	240. u
50-29-3	4, 4'-DDT	240. u
72-43-5	Methoxychlor	1200. u
53494-70-5	Endrin Ketone	240. u
57-74-9	Chlordane	1200. u
8001-35-2	Toxaphene	2400. u
12674-11-2	Aroclor-1016	1200. u
11104-28-2	Aroclor-1221	1200. u
11141-16-5	Aroclor-1232	1200. u
53469-21-9	Aroclor-1242	1200. u
12672-29-6	Aroclor-1248	1200. u
11097-69-1	Aroclor-1254	2400. u
11096-82-5	Aroclor-1260	2400. u

$V_i$  = Volume of extract injected (ul)  
 $V_s$  = Volume of water extracted (ml)  
 $W_s$  = Weight of sample extracted (g)  
 $V_t$  = Volume of total extract (ul)

$V_s$  \_\_\_\_\_ or  $W_s$  1.00  $V_i$  1000.  $V_t$  4.0

Laboratory Name York Labs  
 Case No. 6572

Sample Number  
AF 786

Organics Analysis Data Sheet  
 (Page 3)

000030

Pesticide/PCBs (26)

Concentration: Low  **Medium**  (Circle One)  
 Date Extracted/Prepared: 11/22/86  
 Date Analyzed: 12/6/86  
 Conc/Dil Factor: 1.0  
 Percent Moisture (decanted) 7.41

GPC Cleanup  Yes  No  
 Separatory Funnel Extraction  Yes  
 Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	120. u
319-85-7	Beta-BHC	120. u
319-86-8	Delta-BHC	120. u
58-89-9	Gamma-BHC (Lindane)	120. u
76-44-8	Heptachlor	120. u
309-00-2	Aldrin	120. u
1024-57-3	Heptachlor Epoxide	120. u
959-98-8	Endosulfan I	120. u
60-57-1	Dieldrin	240. u
72-55-9	4, 4'-DDE	240. u
72-20-8	Endrin	240. u
33213-65-9	Endosulfan II	240. u
72-54-8	4, 4'-DDD	240. u
1031-07-8	Endosulfan Sulfate	240. u
50-29-3	4, 4'-DDT	240. u
72-43-5	Methoxychlor	1200. u
53494-70-5	Endrin Ketone	240. u
57-74-9	Chlordane	1200. u
8001-35-2	Toxaphene	2400. u
12674-11-2	Aroclor-1016	1200. u
11104-28-2	Aroclor-1221	1200. u
11141-16-5	Aroclor-1232	1200. u
53469-21-9	Aroclor-1242	1200. u
12672-29-6	Aroclor-1248	1200. u
11097-69-1	Aroclor-1254	2400. u
11096-82-5	Aroclor-1260	2400. u

$V_i$  = Volume of extract injected (ul)  
 $V_s$  = Volume of water extracted (ml)  
 $W_s$  = Weight of sample extracted (g)  
 $V_t$  = Volume of total extract (ul)

$V_s$  \_\_\_\_\_ or  $W_s$  1.00  $V_t$  1000.  $V_i$  4.0

Laboratory Name York Labs  
 Case No EPA 6572

Sample Number  
 AF 786

Organics Analysis Data Sheet  
 (Page 4)

Tentatively Identified Compounds

000031

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1. N/A	None detected	VOA		
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11. 123864	Acetic acid, butyl ester	BVA	5.97	41000
12. N/A	Unknown		6.54	12000
13. 100414	Benzene, ethyl-		7.02	68000
14. 629505	Tridecane		14.86	183000
15. 74645980	Dodecane, 2,7,10-trimethyl-		16.05	8500
16. 593453	Octadecane		16.39	8000
17. 54833486	Heptadecane, 2,6,10,15-tetramethyl-		17.32	12000
18. 544763	Hexadecane		17.87	17000
19. 128370	Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-		18.25	8000
20. 55045084	Dodecane, 2-methyl-6-propyl-		19.27	18000
21. 31295564	Dodecane, 2,6,11-trimethyl-		20.65	150000
22. 20071094	Benzene, 1,1'-(1,2-cyclobutanediyl)bis-, trans-		20.98	157000
23. N/A	Unknown, substituted benzene		21.198	123000
24. 7694306	Benzene, 1,1'-(1,2-cyclobutanediyl)bis-, cis-		21.64	374000
25. 629925	Nonadecane		21.79	106000
26. N/A	Unknown, hydrocarbon		21.92	89000
27. 7225641	Heptadecane, 9-octyl-		22.94	85000
28. N/A	Unknown, substituted benzene		28.79	34000
29. N/A	Unknown		29.73	39000
30. N/A	Unknown	V	29.814	61000

Organics Analysis Data Sheet  
(Page 1)

000126

 Laboratory Name: York Labs  
 Lab Sample ID No: 0262002  
 Sample Matrix: Soil  
 Data Release Authorized By: [Signature]

 Case No: 6572  
 QC Report No: \_\_\_\_\_  
 Contract No: 68-01-7157  
 Date Sample Received: 11/14/86

## Volatile Compounds

 Concentration: Low Medium (Circle One)  
 Date Extracted/Prepared: 11/23/86  
 Date Analyzed: 11/23/86  
 Conc/Dil Factor: 2.0 pH 5.20  
 Percent Moisture: (Not Decanted) 13.72
TP-6 S-1

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	2000u
74-83-9	Bromomethane	2000u
75-01-4	Vinyl Chloride	2000u
75-00-3	Chloroethane	2000u
75-09-2	Methylene Chloride	5,900
67-64-1	Acetone	2000u
75-15-0	Carbon Disulfide	1000u
75-35-4	1, 1-Dichloroethene	1000u
75-34-3	1, 1-Dichloroethane	1000u
156-60-5	Trans-1, 2-Dichloroethene	1000u
67-66-3	Chloroform	1,400
107-06-2	1, 2-Dichloroethane	1000u
78-93-3	2-Butanone	2000u
71-55-6	1, 1, 1-Trichloroethane	16,000
56-23-5	Carbon Tetrachloride	1000u
108-05-4	Vinyl Acetate	2000u
75-27-4	Bromodichloromethane	1000u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	1000u
10061-02-6	Trans-1, 3-Dichloropropene	1000u
79-01-6	Trichloroethene	36000
124-48-1	Dibromochloromethane	1000u
79-00-5	1, 1, 2-Trichloroethane	15,000
71-43-2	Benzene	1000u
10061-01-5	cis-1, 3-Dichloropropene	1000u
110-75-8	2-Chloroethylvinylether	2000u
75-25-2	Bromoform	1000u
108-10-1	4-Methyl-2-Pentanone	2000u
591-78-6	2-Hexanone	2000u
127-18-4	Tetrachloroethene	4,300
79-34-5	1, 1, 2, 2-Tetrachloroethane	1000u
108-88-3	Toluene	5,100
108-90-7	Chlorobenzene	1000u
100-41-4	Ethylbenzene	1000u
100-42-5	Styrene	1000u
	Total Xylenes	7,000

## Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- |  |   |
|--|---|
| <p><b>Value</b> If the result is a value greater than or equal to the detection limit, report the value</p> <p><b>U</b> Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample</p> <p><b>J</b> Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.</p> | <p><b>C</b> This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.</p> <p><b>B</b> This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.</p> <p><b>Other</b> Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.</p> |
|--|---|

Laboratory Name York Laboratories  
 Case No: EPA 6572

Sample Number  
AF 787

Organics Analysis Data Sheet  
 (Page 2)

000127

Semivolatile Compounds

Concentration: Low Medium (Circle One)  
 Date Extracted/Prepared 11/17/86  
 Date Analyzed: 11/21/86  
 Conc/Dil Factor: 1.0  
 Percent Moisture (Decanted) 13.72

GPC Cleanup  Yes  No  
 Separatory Funnel Extraction  Yes  
 Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	20000u
111-44-4	bis(2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	↓ ↓
95-50-1	1, 2-Dichlorobenzene	2600 J
95-48-7	2-Methylphenol	20000u
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylpheno!	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	↓ ↓
65-85-0	Benzoic Acid	96000u
111-91-1	bis(2-Chloroethoxy)Methane	20000u
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	↓ ↓
95-95-4	2, 4, 5-Trichlorophenol	96000u
91-58-7	2-Chloronaphthalene	26000u
88-74-4	2-Nitroaniline	96000u
131-11-3	Dimethyl Phthalate	20000u
208-96-8	Acenaphthylene	20000u
99-09-2	3-Nitroaniline	96000u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20000u
51-28-5	2, 4-Dinitrophenol	96000u
100-02-7	4-Nitrophenol	96000u
132-64-9	Dibenzofuran	20000u
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	↓ ↓
100-01-6	4-Nitroaniline	96000u
534-52-1	4, 6-Dinitro-2-Methylphenol	96000u
86-30-6	N-Nitrosodiphenylamine (1)	20000u
101-55-3	4-Bromophenyl-phenylether	↓ ↓
118-74-1	Hexachlorobenzene	↓ ↓
87-86-5	Pentachlorophenol	96000u
85-01-8	Phenanthrene	20000u
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	↓ ↓
91-94-1	3, 3'-Dichlorobenzidine	40000u
56-55-3	Benzo(a)Anthracene	20000u
117-81-7	bis(2-Ethylhexyl)Phthalate	
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	↓ ↓

(1) Cannot be separated from diphenylamine



Laboratory Name: York Labs  
 Case No: 6572

Sample Number  
AF 787

Organics Analysis Data Sheet  
 (Page 3)

000128

Pesticide/PCBs

Concentration: Low  Medium  (Circle One)  
 Date Extracted/Prepared: 11/22/86  
 Date Analyzed: 12/6/86  
 Conc/Dil Factor: 1.0  
 Percent Moisture (decanted): 15.3

GPC Cleanup  Yes  No  
 Separatory Funnel Extraction  Yes  
 Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/l or <u>ug/Kg</u> (Circle One)
319-84-6	Alpha-BHC	120. u
319-85-7	Beta-BHC	120. u
319-86-8	Delta-BHC	120. u
58-89-9	Gamma-BHC (Lindane)	120. u
76-44-8	Heptachlor	120. u
309-00-2	Aldrin	120. u
1024-57-3	Heptachlor Epoxide	120. u
959-98-8	Endosulfan I	120. u
60-57-1	Dieldrin	240. u
72-55-9	4, 4'-DDE	240. u
72-20-8	Endrin	240. u
33213-65-9	Endosulfan II	240. u
72-54-8	4, 4'-DDD	240. u
1031-07-8	Endosulfan Sulfate	240. u
50-29-3	4, 4'-DDT	240. u
72-43-5	Methoxychlor	1200. u
53494-70-5	Endrin Ketone	240. u
57-74-9	Chlordane	1200. u
8001-35-2	Toxaphene	2400. u
12674-11-2	Aroclor-1016	1200. u
11104-28-2	Aroclor-1221	1200. u
11141-16-5	Aroclor-1232	1200. u
53469-21-9	Aroclor-1242	1200. u
12672-29-6	Aroclor-1248	1200. u
11097-69-1	Aroclor-1254	2400. u
11096-82-5	Aroclor-1260	2400. u

$V_i$  = Volume of extract injected (ul)

$V_s$  = Volume of water extracted (ml)

$W_s$  = Weight of sample extracted (g)

$V_t$  = Volume of total extract (ul)

$V_s$  \_\_\_\_\_ or  $W_s$  1.05  $V_i$  1000.  $V_t$  4.0

Laboratory Name York Labs  
 Case No EPA 6572

Sample Number  
AF 787

Organics Analysis Data Sheet  
 (Page 4)

Tentatively Identified Compounds

000129

CAS Number	Compound Name	Fraction	RT or Scan Number Min.	Estimated Concentration (ug/l or ug/kg)
1. N/A	None detected	N/A		
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11. 123864	Acetic acid, butyl ester	BNA	5.97	69000
12. N/A	Unknown	BNA	6.54	20000
13. N/A	Unknown	BNA	18.00	116000
14. 128370	Phenol 2,6-bis(1,1-dimethylethyl)-4-methyl-	BNA	18.23	18000
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Sample Number

AF 788

## Organics Analysis Data Sheet

(Page 1)

000197

000002

KAB 12-2086

Laboratory Name: York LabsCase No: 6572Lab Sample ID No: 0262003

QC Report No: \_\_\_\_\_

Sample Matrix: SoilContract No: 68-01-7157Data Release Authorized By: J. P. CullDate Sample Received: 11/14/86

## Volatile Compounds

Concentration: Low Medium (Circle One)Date Extracted/Prepared: 11/22/86Date Analyzed: 11/22/86Conc/Dil Factor: 2.0 pH 4.49Percent Moisture: (Not Decanted) 10.51TP-8 S-1

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	2000u
74-83-9	Bromomethane	2000u
75-01-4	Vinyl Chloride	2000u
75-00-3	Chloroethane	2000u
75-09-2	Methylene Chloride	8800
67-64-1	Acetone	2000u
75-15-0	Carbon Disulfide	1000u
75-35-4	1, 1-Dichloroethene	1000u
75-34-3	1, 1-Dichloroethane	1000u
156-60-5	Trans-1, 2-Dichloroethene	1000u
67-66-3	Chloroform	1200
107-06-2	1, 2-Dichloroethane	1000u
78-93-3	2-Butanone	2000u
71-55-6	1, 1, 1-Trichloroethane	21000
56-23-5	Carbon Tetrachloride	1000u
108-05-4	Vinyl Acetate	2000u
75-27-4	Bromodichloromethane	1000u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	1000u
10061-02-6	Trans-1, 3-Dichloropropene	1000u
79-01-6	Trichloroethene	35000
124-48-1	Dibromochloromethane	1000u
79-00-5	1, 1, 2-Trichloroethane	1000u
71-43-2	Benzene	1000u
10061-01-5	cis-1, 3-Dichloropropene	1000u
110-75-8	2-Chloroethylvinylether	2000u
75-25-2	Bromoform	1000u
108-10-1	4-Methyl-2-Pentanone	2000u
591-78-6	2-Hexanone	2000u
127-18-4	Tetrachloroethene	26000
79-34-5	1, 1, 2, 2-Tetrachloroethane	1000u
108-88-3	Toluene	1700
108-90-7	Chlorobenzene	1000u
100-41-4	Ethylbenzene	3500
100-42-5	Styrene	2100
	Total Xylenes	2700

## Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- Value** If the result is a value greater than or equal to the detection limit, report the value
- U** Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample
- J** Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.
- C** This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides  $\geq 10$  ng/ul in the final extract should be confirmed by GC/MS.
- B** This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- Other** Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name York Laboratories  
 Case No: EPA 6572

Sample Number  
AF 788

Organics Analysis Data Sheet  
 (Page 2)

000003  
 KAB 12-20-86

Semivolatile Compounds

Concentration: Low  Medium (Circle One)  
 Date Extracted/Prepared 11/17/86  
 Date Analyzed: 11/21/86  
 Conc/Dil Factor: 1.0  
 Percent Moisture (Decanted) 10.51

GPC Cleanup  Yes  No  
 Separatory Funnel Extraction  Yes  
 Continuous Liquid - Liquid Extraction  Yes

CAS Number	Compound	ug/l or ug/Kg (Circle One)
108-95-2	Phenol	20000u
111-44-4	bis(2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	✓ ✓
65-85-0	Benzoic Acid	96000u
111-91-1	bis(2-Chloroethoxy)Methane	20000u
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	✓ ✓
95-95-4	2, 4, 5-Trichlorophenol	96000u
91-58-7	2-Chloronaphthalene	20000u
88-74-4	2-Nitroaniline	96000u
131-11-3	Dimethyl Phthalate	20000u
208-96-8	Acenaphthylene	20000u
99-09-2	3-Nitroaniline	96000u

CAS Number	Compound	ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20000u
51-28-5	2, 4-Dinitrophenol	96000u
100-02-7	4-Nitrophenol	96000u
132-64-9	Dibenzofuran	20000u
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	✓ ✓
100-01-6	4-Nitroaniline	96000u
534-52-1	4, 6-Dinitro-2-Methylphenol	96000u
86-30-6	N-Nitrosodiphenylamine (1)	20000u
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	✓ ✓
87-86-5	Pentachlorophenol	96000u
85-01-8	Phenanthrene	20000u
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
129-00-0	Pyrene	
85-68-7	Butybenzylphthalate	✓ ✓
91-94-1	3, 3'-Dichlorobenzidine	40000u
56-55-3	Benzo(a)Anthracene	20000u
117-81-7	bis(2-Ethylhexyl)Phthalate	1600J
218-01-9	Chrysene	20000u
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	✓ ✓

(1) Cannot be separated from diphenylamine

Laboratory Name York Labs  
 Case No. 6572

Sample Number  
AF 788

Organics Analysis Data Sheet  
 (Page 3)

~~000004~~  
 KMS 12-20-96

Pesticide/PCBs

Concentration: Low Medium (Circle One)  
 Date Extracted/Prepared: 11/22/86  
 Date Analyzed: 12/6/86  
 Conc/Dil Factor: 1.0  
 Percent Moisture (decanted) 10.53

GPC Cleanup  Yes  No 000198A  
 Separatory Funnel Extraction  Yes  
 Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	120. u
319-85-7	Beta-BHC	120. u
319-86-8	Delta-BHC	120. u
58-89-9	Gamma-BHC (Lindane)	120. u
76-44-8	Heptachlor	120. u
309-00-2	Aldrin	120. u
1024-57-3	Heptachlor Epoxide	120. u
959-98-8	Endosulfan I	120. u
60-57-1	Dieldrin	240. u
72-55-9	4, 4'-DDE	240. u
72-20-8	Endrin	240. u
33213-65-9	Endosulfan II	240. u
72-54-8	4, 4'-DDD	240. u
1031-07-8	Endosulfan Sulfate	240. u
50-29-3	4, 4'-DDT	240. u
72-43-5	Methoxychlor	1200. u
53494-70-5	Endrin Ketone	240. u
57-74-9	Chlordane	1200. u
8001-35-2	Toxaphene	2400. u
12674-11-2	Aroclor-1016	1200. u
11104-28-2	Aroclor-1221	1200. u
11141-16-5	Aroclor-1232	1200. u
53469-21-9	Aroclor-1242	1200. u
12672-29-6	Aroclor-1248	1200. u
11097-69-1	Aroclor-1254	2400. u
11096-82-5	Aroclor-1260	2400. u

- $V_i$  = Volume of extract injected (ul)
- $V_s$  = Volume of water extracted (ml)
- $W_s$  = Weight of sample extracted (g)
- $V_t$  = Volume of total extract (ul)

$V_s$  \_\_\_\_\_ or  $W_s$  1.01  $V_i$  1000.  $V_t$  4.0

Laboratory Name York Labs  
 Case No 6572

Sample Number

AF788

 Organics Analysis Data Sheet  
 (Page 4)

Tentatively Identified Compounds

~~000005~~  
 KAB 12-20-86

CAS Number	Compound Name	Fraction	RT or Scan Number Min	Estimated Concentration (ug/l or ug/kg)
1. N/A	Hydrocarbon (Unknown)	VOA	26.16	5400
2. N/A	Terpene isomer (Unknown)	VOA	30.11	4300
3. N/A	Hydrocarbon (Unknown)	VOA	31.11	28000
4. N/A	Hydrocarbon (Unknown)	VOA	33.22	3000
5. N/A	Hydrocarbon (Unknown)	VOA	34.06	3700
6. 123864	Acetic Acid, butyl ester	BNA	5.91	45000
7. N/A	Unknown		7.13	47000
8. N/A	Unknown		8.96	26000
9. 62108252	Decane, 2,6,7-trimethyl-		10.17	49000
10. N/A	Unknown		12.02	27000
11. 2958761	Naphthalene decahydro-2-methyl-		12.22	30000
12. 61142232	Cyclohexane, (2,2-dimethylcyclopentyl)-		13.09	114000
13. 6044719	Dodecane, 6-methyl-		13.46	69000
14. 54676390	Cyclohexane, 2-butyl-1,1,3-trimethyl		13.77	26000
15. 61142685	Cyclopentane, 1-hexyl-3-methyl-		13.97	29000
16. 62016346	Octane, 2,3,7-trimethyl-		14.38	92000
17. 13287213	Tridecane, 6-methyl-		15.08	37000
18. N/A	Unknown		15.56	40000
19. 74645980	Dodecane, 2,7,10-trimethyl-		15.95	36000
20. N/A	Unknown		16.30	23000
21. 62238113	Decane, 2,3,5-trimethyl-		16.35	22000
22. 55045073	Dodecane, 2-methyl-8-propyl-		17.22	68000
23. 80959335	Heptadecane, 7-methyl-		19.84	45000
24. 1795160	Cyclohexane, decyl-		20.05	410000/1000
25. 17302328	Nonane, 3,7-dimethyl-		20.60	46000
26.				
27.				
28.				
29.				
30.				

see 12/22/86

Sample Number

AF 789

Organics Analysis Data Sheet  
(Page 1)

000290

Laboratory Name: York LabsCase No: 6572Lab Sample ID No: 0262004

QC Report No: \_\_\_\_\_

Sample Matrix: SoilContract No: 68-01-7157Data Release Authorized By: J.P. CullDate Sample Received: 11/14/86

## Volatile Compounds

Concentration: Low Medium (Circle One)Date Extracted/Prepared: 11/23/86Date Analyzed: 11/23/86Conc/Dil Factor: 1.0 pH 5.04Percent Moisture: (Not Decanted) 19.17

TP-9 S-3

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	1000u
74-83-9	Bromomethane	1000u
75-01-4	Vinyl Chloride	1000u
75-00-3	Chloroethane	1000u
75-09-2	Methylene Chloride	5000
67-64-1	Acetone	1000u
75-15-0	Carbon Disulfide	500u
75-35-4	1, 1-Dichloroethene	500u
75-34-3	1, 1-Dichloroethane	500u
156-60-5	Trans-1, 2-Dichloroethene	500u
67-66-3	Chloroform	730
107-06-2	1, 2-Dichloroethane	500u
78-93-3	2-Butanone	1000u
71-55-6	1, 1, 1-Trichloroethane	2400
56-23-5	Carbon Tetrachloride	500u
108-05-4	Vinyl Acetate	1000u
75-27-4	Bromodichloromethane	500u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	500u
10061-02-6	Trans-1, 3-Dichloropropene	500u
79-01-6	Trichloroethene	3800
124-48-1	Dibromochloromethane	500u
79-00-5	1, 1, 2-Trichloroethane	500u
71-43-2	Benzene	330J
10061-01-5	cis-1, 3-Dichloropropene	500u
110-75-8	2-Chloroethylvinylether	100u
75-25-2	Bromoform	500u
108-10-1	4-Methyl-2-Pentanone	430J
591-78-6	2-Hexanone	100u
127-18-4	Tetrachloroethene	1400
79-34-5	1, 1, 2, 2-Tetrachloroethane	500u
108-88-3	Toluene	2300
108-90-7	Chlorobenzene	500u
100-41-4	Ethylbenzene	2000
100-42-5	Styrene	1200
	Total Xylenes	3000

## Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- Value** If the result is a value greater than or equal to the detection limit, report the value
- U** Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample
- J** Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.
- C** This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides  $\geq 10$  ng/l in the final extract should be confirmed by GC/MS.
- B** This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- Other** Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name: York Laboratories  
 Case No: EPA 6572

Sample Number  
AF 789

Organics Analysis Data Sheet  
 (Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)  
 Date Extracted/Prepared: 11/17/86  
 Date Analyzed: 11/21/86  
 Conc/Dil Factor: 1.0  
 Percent Moisture (Decanted): 19.17

GPC Cleanup  Yes  No  
 Separatory Funnel Extraction  Yes  
 Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	20000u
111-44-4	bis(2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	✓ ✓
95-50-1	1, 2-Dichlorobenzene	830 J
95-48-7	2-Methylphenol	20000u
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	✓ ✓
65-85-0	Benzoic Acid	96000u
111-91-1	bis(2-Chloroethoxy)Methane	20000u
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	✓ ✓
95-95-4	2, 4, 5-Trichlorophenol	96000u
91-58-7	2-Chloronaphthalene	20000u
88-74-4	2-Nitroaniline	96000u
131-11-3	Dimethyl Phthalate	20000u
208-96-8	Acenaphthylene	20000u
99-09-2	3-Nitroaniline	96000u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20000u
51-28-5	2, 4-Dinitrophenol	96000u
100-02-7	4-Nitrophenol	96000u
132-64-9	Dibenzofuran	20000u
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	✓ ✓
100-01-6	4-Nitroaniline	96000u
534-52-1	4, 6-Dinitro-2-Methylphenol	96000u
86-30-6	N-Nitrosodiphenylamine (1)	20000u
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	✓ ✓
87-86-5	Pentachlorophenol	96000u
85-01-8	Phenanthrene	20000u
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
129-00-0	Pyrene	
85-68-7	Burylbenzylphthalate	✓ ✓
91-94-1	3, 3'-Dichlorobenzidine	40000u
56-55-3	Benzo(a)Anthracene	20000u
117-81-7	bis(2-Ethylhexyl)Phthalate	1200 J
218-01-9	Chrysene	20000u
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	✓ ✓

(1) Cannot be separated from diphenylamine.



000292

Sample Number

AF 789

Laboratory Name: York LabsCase No: 6572

### Organics Analysis Data Sheet (Page 3)

#### Pesticide/PCBs

Concentration: Low  **Medium**  (Circle One)GPC Cleanup  Yes  NoDate Extracted/Prepared: 11/22/86Separatory Funnel Extraction  YesDate Analyzed: 12/6/86Continuous Liquid - Liquid Extraction  YesConc/Dil Factor: 1.0Percent Moisture (decanted) 21.17

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	120. u
319-85-7	Beta-BHC	120. u
319-86-8	Delta-BHC	120. u
58-89-9	Gamma-BHC (Lindane)	120. u
76-44-8	Heptachlor	120. u
309-00-2	Aldrin	120. u
1024-57-3	Heptachlor Epoxide	120. u
959-98-8	Endosulfan I	120. u
60-57-1	Dieldrin	240. u
72-55-9	4, 4'-DDE	240. u
72-20-8	Endrin	240. u
33213-65-9	Endosulfan II	240. u
72-54-8	4, 4'-DDD	240. u
1031-07-8	Endosulfan Sulfate	240. u
50-29-3	4, 4'-DDT	240. u
72-43-5	Methoxychlor	1200. u
53494-70-5	Endrin Ketone	240. u
57-74-9	Chlordane	1200. u
8001-35-2	Toxaphene	2400. u
12674-11-2	Aroclor-1016	1200. u
11104-28-2	Aroclor-1221	1200. u
11141-16-5	Aroclor-1232	1200. u
53469-21-9	Aroclor-1242	1200. u
12672-29-6	Aroclor-1248	1200. u
11097-69-1	Aroclor-1254	2400. u
11096-82-5	Aroclor-1260	2400. u

 $V_i$  = Volume of extract injected (ul) $V_s$  = Volume of water extracted (ml) $W_s$  = Weight of sample extracted (g) $V_t$  = Volume of total extract (ul)
 $V_s$  \_\_\_\_\_ or  $W_s$  1.05  $V_i$  1000.  $V_t$  4.0

Laboratory Name York Labs  
 Case No EPA 6572

Sample Number  
 AF789

Organics Analysis Data Sheet  
 (Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1. N/A	Unknown Hydrocarbon	V/A	23.13	1100
2. N/A	Unknown Terpene isomer	V/A	30.96	3900
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11. 123864	Acetic acid, butyl ester	BNA	5.97	74000
12. N/A	Unknown	BNA	6.54	22000
13. 128370	Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	BNA	18.15	19000
14. 20071094	Benzene, 1,1'-(1,2-cyclobutane diyl)bis-, trans-	BNA	21.58	9700
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Organics Analysis Data Sheet  
(Page 1)Laboratory Name: York LabsCase No: 6572 000363Lab Sample ID No: 0262005

QC Report No: \_\_\_\_\_

Sample Matrix: SoilContract No: 68-01-7157Data Release Authorized By: J. P. C. C. C.Date Sample Received: 11/14/86

## Volatile Compounds

Concentration: Low Medium (Circle One)Date Extracted/Prepared: 11/23/86Date Analyzed: 11/23/86Conc/Dil Factor: 40 pH 5.73Percent Moisture: (Not Decanted) 31.82TP-9 S-1

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	40000u
74-83-9	Bromomethane	40000u
75-01-4	Vinyl Chloride	40000u
75-00-3	Chloroethane	40000u
75-09-2	Methylene Chloride	20000u
67-64-1	Acetone	40000u
75-15-0	Carbon Disulfide	20000u
75-35-4	1, 1-Dichloroethene	20000u
75-34-3	1, 1-Dichloroethane	20000u
156-60-5	Trans-1, 2-Dichloroethene	20000u
67-66-3	Chloroform	50000
107-06-2	1, 2-Dichloroethane	20000u
78-93-3	2-Butanone	40000u
71-55-6	1, 1, 1-Trichloroethane	480000
56-23-5	Carbon Tetrachloride	20000u
108-05-4	Vinyl Acetate	40000u
75-27-4	Bromodichloromethane	20000u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	20000u
10061-02-6	Trans-1, 3-Dichloropropene	20000u
79-01-6	Trichloroethene	480000
124-48-1	Dibromochloromethane	20000u
79-00-5	1, 1, 2-Trichloroethane	20000u
71-43-2	Benzene	100000
10061-01-5	cis-1, 3-Dichloropropene	20000u
110-75-8	2-Chloroethylvinylether	40000u
75-25-2	Bromoform	20000u
108-10-1	4-Methyl-2-Pentanone	40000u
591-78-6	2-Hexanone	40000u
127-18-4	Tetrachloroethene	170000
79-34-5	1, 1, 2, 2-Tetrachloroethane	20000u
108-88-3	Toluene	290000
108-90-7	Chlorobenzene	370000
100-41-4	Ethylbenzene	200000
100-42-5	Styrene	690000
	Total Xylenes	930000

## Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- Value** If the result is a value greater than or equal to the detection limit, report the value
- U** Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample
- J** Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.
- C** This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides  $\geq 10$  ng/ul in the final extract should be confirmed by GC/MS.
- B** This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- Other** Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name York Laboratories  
 Case No: EPA 6572

Sample Number  
 AF 790

Organics Analysis Data Sheet  
 (Page 2)

Semivolatile Compounds

Concentration: Low  **Medium**  (Circle One)  
 Date Extracted/Prepared 11/17/86  
 Date Analyzed: 11/21/86  
 Conc/Dil Factor: 1.0  
 Percent Moisture (Decanted) 31.82

GPC Cleanup  Yes  No  
 Separatory Funnel Extraction  Yes  
 Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/lorug/Kg (Circle One)
108-95-2	Phenol	20000u
111-44-4	bis(2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	↓ ↓
106-46-7	1, 4-Dichlorobenzene	3300 J
100-51-6	Benzyl Alcohol	20000u
95-50-1	1, 2-Dichlorobenzene	81000
95-48-7	2-Methylphenol	20000u
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	:
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	↓ ↓
78-59-1	Isophorone	32000
88-75-5	2-Nitrophenol	20000u
105-67-9	2, 4-Dimethylphenol	20000u
65-85-0	Benzoic Acid	96000u
111-91-1	bis(2-Chloroethoxy)Methane	20000u
120-83-2	2, 4-Dichlorophenol	20000u
120-82-1	1, 2, 4-Trichlorobenzene	170000
91-20-3	Naphthalene	110000
106-47-8	4-Chloroaniline	20000u
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	↓ ↓
91-57-6	2-Methylnaphthalene	38000
77-47-4	Hexachlorocyclopentadiene	20000u
88-06-2	2, 4, 6-Trichlorophenol	20000u
95-95-4	2, 4, 5-Trichlorophenol	96000u
91-58-7	2-Chloronaphthalene	20000u
88-74-4	2-Nitroaniline	96000u
131-11-3	Dimethyl Phthalate	20000u
208-96-8	Acenaphthylene	9200 J
99-09-2	3-Nitroaniline	96000u

CAS Number		ug/lorug/Kg (Circle One)
83-32-9	Acenaphthene	2400 J
51-28-5	2, 4-Dinitrophenol	96000u
100-02-7	4-Nitrophenol	96000u
132-64-9	Dibenzofuran	20000u
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	↓ ↓
86-73-7	Fluorene	10000 J
100-01-6	4-Nitroaniline	96000u
534-52-1	4, 6-Dinitro-2-Methylphenol	96000u
86-30-6	N-Nitrosodiphenylamine (1)	20000u
101-55-3	4-Bromophenyl-phenylether	20000u
118-74-1	Hexachlorobenzene	13000 J
87-86-5	Pentachlorophenol	96000u
85-01-8	Phenanthrene	4400 0
120-12-7	Anthracene	4500 J
84-74-2	Di-n-Butylphthalate	52000
206-44-0	Fluoranthene	20000u
129-00-0	Pyrene	33000
85-68-7	Butylbenzylphthalate	20000
91-94-1	3, 3'-Dichlorobenzidine	40000u
56-55-3	Benzofluoranthene	6200 J
117-81-7	bis(2-Ethylhexyl)Phthalate	470000
218-01-9	Chrysene	20000u
117-84-0	Di-n-Octyl Phthalate	20000u
205-99-2	Benzo(b)Fluoranthene	3600 J
207-08-9	Benzo(k)Fluoranthene	20000u
50-32-8	Benzo(e)Pyrene	5100 J
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20000u
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	↓ ↓

(1) Cannot be separated from diphenylamine

Laboratory Name: York Labs  
Case No: 6572

Sample Number  
AF 790

Organics Analysis Data Sheet  
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)  
Date Extracted/Prepared: 11/22/86  
Date Analyzed: 12/6/86  
Conc/Dil Factor: 1.0  
Percent Moisture (decanted): 5.60

GPC Cleanup  Yes  No  
Separatory Funnel Extraction  Yes  
Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	120. u
319-85-7	Beta-BHC	120. u
319-86-8	Delta-BHC	120. u
58-89-9	Gamma-BHC (Lindane)	120. u
76-44-8	Heptachlor	120. u
309-00-2	Aldrin	120. u
1024-57-3	Heptachlor Epoxide	120. u
959-98-8	Endosulfan I	120. u
60-57-1	Dieldrin	240. u
72-55-9	4, 4'-DDE	240. u
72-20-8	Endrin	240. u
33213-65-9	Endosulfan II	240. u
72-54-8	4, 4'-DDD	240. u
1031-07-8	Endosulfan Sulfate	240. u
50-29-3	4, 4'-DDT	240. u
72-43-5	Methoxychlor	1200. u
53494-70-5	Endrin Ketone	240. u
57-74-9	Chlordane	1200. u
8001-35-2	Toxaphene	2400. u
12674-11-2	Aroclor-1016	1200. u
11104-28-2	Aroclor-1221	1200. u
11141-16-5	Aroclor-1232	1200. u
53469-21-9	Aroclor-1242	1200. u
12672-29-6	Aroclor-1248	1200. u
11097-69-1	Aroclor-1254	2400. u
11096-82-5	Aroclor-1260	2400. u

$V_i$  = Volume of extract injected (ul)  
 $V_s$  = Volume of water extracted (ml)  
 $W_s$  = Weight of sample extracted (g)  
 $V_t$  = Volume of total extract (ul)

$V_s$  \_\_\_\_\_ or  $W_s$  1.03  $V_t$  1000.  $V_i$  4.0

Laboratory Name York Labs  
 Case No EPA 6572

Sample Number  
 AF790

Organics Analysis Data Sheet  
 (Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1. N/A	None detected			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11. 100414	Benzene, ethyl-	BNA	6.80	155000
12. 95476	Benzene, 1,2-dimethyl-		6.97	236000
13. 629209	1,3,5,7-Cyclooctatetraene		7.45	440000
14. 61143	Benzene, 1-ethyl-2-methyl-		8.86	139000
15. N/A	Unknown		8.99	143000
16. 1120214	Undecane		9.54	166000
17. 124185	Decane		11.36	235000
18. 120221	Benzene, 1,2,4-trichloro-		12.89	134000
19. 275514	Azulene		13.03	162000
20. 629594	Tetradecane		16.08	133000
21. 544763	Hexadecane		18.93	202000
22. 629787	Heptadecane		20.34	252000
23. 1921700	Pentadecane, 2,6,10,14-tetramethyl-		20.43	175000
24. 7694306	Benzene, 4'-(1,2-cyclobutanediyl)bis-, cis-		20.74	197000
25. 645590	Benzene, propenenitrile		20.98	173000
26. 30071094	Benzene, 4'-(1,2-cyclobutanediyl)bis-, trans-		21.47	455000
27. 629925	Nonadecane		21.64	183000
28. 57103	Hexadecanoic acid		23.67	365000
29. 603112	1,2-Benzenedicarboxylic acid, 3-nitro-		29.31	181000
30. N/A	Unknown	✓	29.83	162000

## Organics Analysis Data Sheet

(Page 1)

Laboratory Name: York LabsCase No: 6572 000482Lab Sample ID No: 0267006

QC Report No: \_\_\_\_\_

Sample Matrix: SoilContract No: 68-01-7157Data Release Authorized By: J.P. CullDate Sample Received: 11/14/86

## Volatile Compounds

Concentration: Low Medium (Circle One)Date Extracted/Prepared: 11/23/86Date Analyzed: 11/23/86Conc/Dil Factor: 1.0 pH 5.22Percent Moisture: (Not Decanted) 15.17TP-9 S-2

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	1000u
74-83-9	Bromomethane	1000u
75-01-4	Vinyl Chloride	1000u
75-00-3	Chloroethane	1000u
75-09-2	Methylene Chloride	6500
67-64-1	Acetone	500u
75-15-0	Carbon Disulfide	500u
75-35-4	1, 1-Dichloroethene	500u
75-34-3	1, 1-Dichloroethane	500u
156-60-5	Trans-1, 2-Dichloroethene	500u
67-66-3	Chloroform	1100
107-06-2	1, 2-Dichloroethane	500u
78-93-3	2-Butanone	1000u
71-55-6	1, 1, 1-Trichloroethane	1800
56-23-5	Carbon Tetrachloride	500u
108-05-4	Vinyl Acetate	1000u
75-27-4	Bromodichloromethane	500u

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1, 2-Dichloropropane	500u
10061-02-6	Trans-1, 3-Dichloropropene	500u
79-01-6	Trichloroethene	6400
124-48-1	Dibromochloromethane	500u
79-00-5	1, 1, 2-Trichloroethane	500u
71-43-2	Benzene	630
10061-01-5	cis-1, 3-Dichloropropene	500u
110-75-8	2-Chloroethylvinylether	1000u
75-25-2	Bromoform	500u
108-10-1	4-Methyl-2-Pentanone	1000u
591-78-6	2-Hexanone	1000u
127-18-4	Tetrachloroethene	9500
79-34-5	1, 1, 2, 2-Tetrachloroethane	500u
108-88-3	Toluene	6200
108-90-7	Chlorobenzene	1300
100-41-4	Ethylbenzene	8800
100-42-5	Styrene	8100
	Total Xylenes	19000

## Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- |  |  |
|--|--|
| <p><b>Value</b> If the result is a value greater than or equal to the detection limit, report the value</p> <p><b>U</b> Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample</p> <p><b>J</b> Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.</p> | <p><b>C</b> This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides <math>\geq 10</math> ng/l in the final extract should be confirmed by GC/MS.</p> <p><b>B</b> This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.</p> <p><b>Other</b> Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.</p> |
|--|--|

Laboratory Name: York Laboratories  
 Case No: EPA 6572

Sample Number  
AF 791

Organics Analysis Data Sheet  
 (Page 2)

000483

Semivolatile Compounds

Concentration: Low  Medium (Circle One)  
 Date Extracted/Prepared 11/17/86  
 Date Analyzed: 11/24/86  
 Conc/Dil Factor: 1.0  
 Percent Moisture (Decanted) 15.17

GPC Cleanup  Yes  No  
 Separatory Funnel Extraction  Yes  
 Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	20000u
111-44-4	bis(2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	↓ ↓
78-59-1	Isophorone	1100 J
88-75-5	2-Nitrophenol	20000u
105-67-9	2, 4-Dimethylphenol	20000u
65-85-0	Benzoic Acid	96000u
111-91-1	bis(2-Chloroethoxy)Methane	20000u
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	↓ ↓
95-95-4	2, 4, 5-Trichlorophenol	96000u
91-58-7	2-Chloronaphthalene	20000u
88-74-4	2-Nitroaniline	96000u
131-11-3	Dimethyl Phthalate	20000u
208-96-8	Acenaphthylene	20000u
99-09-2	3-Nitroaniline	96000u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20000u
51-28-5	2, 4-Dinitrophenol	96000u
100-02-7	4-Nitrophenol	96000u
132-64-9	Dibenzofuran	20000u
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	↓ ↓
100-01-6	4-Nitroaniline	96000u
534-52-1	4, 6-Dinitro-2-Methylphenol	96000u
86-30-6	N-Nitrosodiphenylamine (1)	20000u
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	
85-01-8	Phenanthrene	
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	↓ ↓
91-94-1	3, 3'-Dichlorobenzidine	40000u
56-55-3	Benzo(a)Anthracene	20000u
117-81-7	bis(2-Ethylhexyl)Phthalate	↓ ↓
218-01-9	Chrysene	↓ ↓
117-84-0	Di-n-Octyl Phthalate	1900 J
205-99-2	Benzo(b)Fluoranthene	20000u
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	↓ ↓

(1) Cannot be separated from diphenylamine



Laboratory Name York Labs  
 Case No. 6572

Sample Number  
AF 791

000484

**Organics Analysis Data Sheet**  
 (Page 3)

**Pesticide/PCBs**

Concentration: Low  **Medium**  (Circle One)  
 Date Extracted/Prepared: 11/22/86  
 Date Analyzed: 12/6/86  
 Conc/Dil Factor: 1.0  
 Percent Moisture (decanted) 16.59

GPC Cleanup  Yes  No  
 Separatory Funnel Extraction  Yes  
 Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	120. u
319-85-7	Beta-BHC	120. u
319-86-8	Delta-BHC	120. u
58-89-9	Gamma-BHC (Lindane)	120. u
76-44-8	Heptachlor	120. u
309-00-2	Aldrin	120. u
1024-57-3	Heptachlor Epoxide	120. u
959-98-8	Endosulfan I	120. u
60-57-1	Dieldrin	240. u
72-55-9	4, 4'-DDE	240. u
72-20-8	Endrin	240. u
33213-65-9	Endosulfan II	240. u
72-54-8	4, 4'-DDD	240. u
1031-07-8	Endosulfan Sulfate	240. u
50-29-3	4, 4'-DDT	240. u
72-43-5	Methoxychlor	1200. u
53494-70-5	Endrin Ketone	240. u
57-74-9	Chlordane	1200. u
8001-35-2	Toxaphene	2400. u
12674-11-2	Aroclor-1016	1200. u
11104-28-2	Aroclor-1221	1200. u
11141-16-5	Aroclor-1232	1200. u
53469-21-9	Aroclor-1242	1200. u
12672-29-6	Aroclor-1248	1200. u
11097-69-1	Aroclor-1254	2400. u
11096-82-5	Aroclor-1260	2400. u

$V_i$  = Volume of extract injected (ul)  
 $V_s$  = Volume of water extracted (ml)  
 $W_s$  = Weight of sample extracted (g)  
 $V_t$  = Volume of total extract (ul)

$V_s$  \_\_\_\_\_ or  $W_s$  1.01  $V_i$  1000.  $V_t$  4.0

Laboratory Name York Labs  
 Case No EPA 6572

Sample Number  
AF 791

Organics Analysis Data Sheet  
 (Page 4)

000485

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	(R) or Scan Number Min	Estimated Concentration (ug/l or ug/kg)
1. N/A	Unknown Terpene isomer	VCA	31.00	13+14000
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11. 123814	Acetic acid, butyl ester	BNA	6.33	68000
12. N/A	Unknown		6.92	19000
13. N/A	Unknown		7.58	11000
14. N/A	Unknown		10.18	1700
15. N/A	Unknown		13.62	12000
16. 74630390	1-Undecene, 4-methyl-		18.13	2000
17. 630013	Hexacosane		19.43	2600
18. 630035	Nonacosane		20.66	2900
19. N/A	Unknown		20.74	2700
20. N/A	Unknown		21.08	2700
21. 20071094	Benzene, 1'-(1,2-cyclobutanediyl) bis-, trans-		21.69	7200
22. N/A	Unknown		21.84	2400
23. N/A	Unknown		24.01	2400
24. N/A	Unknown		29.75	5500
25.				
26.				
27.				
28.				
29.				
30.				

see 12/22/86

Sample Number  
AH106

Organics Analysis Data Sheet  
(Page 1)

000561

Laboratory Name: York Labs  
 Lab Sample ID No: (7 B5413) 0262007  
 Sample Matrix: Soil  
 Data Release Authorized By: [Signature]

Case No: 6572  
 QC Report No: \_\_\_\_\_  
 Contract No: 68-01-7157  
 Date Sample Received: 11/14/86

TP-5 S-1

Volatile Compounds

Concentration: Low Medium (Circle One)  
 Date Extracted/Prepared: 11/24/86  
 Date Analyzed: 11/24/86  
 Conc/Dil Factor: 200 pH 5.74  
 Percent Moisture: (Not Decanted) 19.39

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	20000u
74-83-9	Bromomethane	20000u
75-01-4	Vinyl Chloride	20000u
75-00-3	Chloroethane	20000u
75-09-2	Methylene Chloride	10000u
67-64-1	Acetone	20000u
75-15-0	Carbon Disulfide	10000u
75-35-4	1, 1-Dichloroethene	10000u
75-34-3	1, 1-Dichloroethane	10000u
156-60-5	Trans-1, 2-Dichloroethene	10000u
67-66-3	Chloroform	10000u
107-06-2	1, 2-Dichloroethane	10000u
78-93-3	2-Butanone	20000u
71-55-6	1, 1, 1-Trichloroethane	220000
56-23-5	Carbon Tetrachloride	10000u
108-05-4	Vinyl Acetate	20000u
75-27-4	Bromodichloromethane	10000u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	10000u
10061-02-6	Trans-1, 3-Dichloropropene	10000u
79-01-6	Trichloroethene	490,000
124-48-1	Dibromochloromethane	10000u
79-00-5	1, 1, 2-Trichloroethane	10000u
71-43-2	Benzene	10000u
10061-01-5	cis-1, 3-Dichloropropene	10000u
110-75-8	2-Chloroethylvinylether	20000u
75-25-2	Bromoform	10000u
108-10-1	4-Methyl-2-Pentanone	20000u
591-78-6	2-Hexanone	20000u
127-18-4	Tetrachloroethene	950,000
79-34-5	1, 1, 2, 2-Tetrachloroethane	10000u
108-88-3	Toluene	1,200,000
108-90-7	Chlorobenzene	10000u
100-41-4	Ethylbenzene	570,000
100-42-5	Styrene	3,800,000
	Total Xylenes	400,000

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- Value** If the result is a value greater than or equal to the detection limit, report the value
- U** Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample
- J** Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.
- C** This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.
- B** This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- Other** Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name York Laboratories  
 Case No: EPA 6572

Sample Number  
AH 106

Organics Analysis Data Sheet  
 (Page 2)

000562

Semivolatile Compounds

Concentration: Low Medium (Circle One)  
 Date Extracted/Prepared 11/17/86  
 Date Analyzed: 11/24/86  
 Conc/Dil Factor: 1.0  
 Percent Moisture (Decanted) 19.39

GPC Cleanup  Yes  No  
 Separatory Funnel Extraction  Yes  
 Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	20000u
111-44-4	bis(2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	↓ ↓
106-46-7	1, 4-Dichlorobenzene	3900 J
100-51-6	Benzyl Alcohol	20000u
95-50-1	1, 2-Dichlorobenzene	16000 J
95-48-7	2-Methylphenol	20000u
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	↓ ↓
78-59-1	Isophorone	2800 J
88-75-5	2-Nitrophenol	20000u
105-67-9	2, 4-Dimethylphenol	20000u
65-85-0	Benzoic Acid	96000u
111-91-1	bis(2-Chloroethoxy)Methane	20000u
120-83-2	2, 4-Dichlorophenol	20000u
120-82-1	1, 2, 4-Trichlorobenzene	44000
91-20-3	Naphthalene	4500 J
106-47-8	4-Chloroaniline	20000u
87-68-3	Hexachlorobutadiene	↓ ↓
59-50-7	4-Chloro-3-Methylphenol	↓ ↓
91-57-6	2-Methylnaphthalene	6400 J
77-47-4	Hexachlorocyclopentadiene	20000u
88-06-2	2, 4, 6-Trichlorophenol	20000u
95-95-4	2, 4, 5-Trichlorophenol	96000u
91-58-7	2-Chloronaphthalene	20000u
88-74-4	2-Nitroaniline	96000u
131-11-3	Dimethyl Phthalate	20000u
208-96-8	Acenaphthylene	20000u
99-09-2	3-Nitroaniline	96000u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20000u
51-28-5	2, 4-Dinitrophenol	96000u
100-02-7	4-Nitrophenol	96000u
132-64-9	Dibenzofuran	20000u
121-14-2	2, 4-Dinitrotoluene	↓ ↓
606-20-2	2, 6-Dinitrotoluene	↓ ↓
84-66-2	Diethylphthalate	2300 J
7005-72-3	4-Chlorophenyl-phenylether	20000u
86-73-7	Fluorene	20000u
100-01-6	4-Nitroaniline	96000u
534-52-1	4, 6-Dinitro-2-Methylphenol	96000u
86-30-6	N-Nitrosodiphenylamine (1)	20000u
101-55-3	4-Bromophenyl-phenylether	20000u
118-74-1	Hexachlorobenzene	2600 J
87-86-5	Pentachlorophenol	96000u
85-01-8	Phenanthrene	2400 J
120-12-7	Anthracene	20000u
84-74-2	Di-n-Butylphthalate	7500 J
206-44-0	Fluoranthene	20000u
129-00-0	Pyrene	↓ ↓
85-68-7	Butylbenzylphthalate	↓ ↓
91-94-1	3, 3'-Dichlorobenzidine	40000u
56-55-3	Benzo(a)Anthracene	20000u
117-81-7	bis(2-Ethylhexyl)Phthalate	14000 J
218-01-9	Chrysene	20000u
117-84-0	Di-n-Octyl Phthalate	5100 J
205-99-2	Benzo(b)Fluoranthene	20000u
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenzo(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	↓ ↓

(1) - Cannot be separated from diphenylamine

Laboratory Name: York Labs  
 Case No: 6572

Sample Number  
AH 106

Organics Analysis Data Sheet  
 (Page 3)

000563

Pesticide/PCBs

Concentration: Low  Medium  (Circle One)  
 Date Extracted/Prepared: 11/22/86  
 Date Analyzed: 12/6/86  
 Conc/Dil Factor: 1.0  
 Percent Moisture (decanted): 15.21

GPC Cleanup  Yes  No  
 Separatory Funnel Extraction  Yes  
 Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	120.4
319-85-7	Beta-BHC	120.4
319-86-8	Delta-BHC	120.4
58-89-9	Gamma-BHC (Lindane)	120.4
76-44-8	Heptachlor	120.4
309-00-2	Aldrin	1040.
1024-57-3	Heptachlor Epoxide	120.4
959-98-8	Endosulfan I	120.4
80-57-1	Dieldrin	240.4
72-55-9	4, 4'-DDE	240.4
72-20-8	Endrin	240.4
33213-65-9	Endosulfan II	240.4
72-54-8	4, 4'-DDD	240.4
1031-07-8	Endosulfan Sulfate	10.5
50-29-3	4, 4'-DDT	240.4
72-43-5	Methoxychlor	1200.4
53494-70-5	Endrin Ketone	240.4
57-74-9	Chlordane	1200.4
8001-35-2	Toxaphene	2400.4
12674-11-2	Aroclor-1016	1200.4
11104-28-2	Aroclor-1221	1200.4
11141-16-5	Aroclor-1232	1200.4
53469-21-9	Aroclor-1242	1200.4
12672-29-6	Aroclor-1248	1200.4
11097-69-1	Aroclor-1254	2400.4
11096-82-5	Aroclor-1260	2400.4

$V_i$  = Volume of extract injected (ul)  
 $V_s$  = Volume of water extracted (ml)  
 $W_s$  = Weight of sample extracted (g)  
 $V_t$  = Volume of total extract (ul)

$V_s$  \_\_\_\_\_ or  $W_s$  1.07  $V_t$  1000  $V_i$  4.0

Laboratory Name York Labs  
 Case No EPA 6572

Sample Number  
AH 106

Organics Analysis Data Sheet  
 (Page 4)

000564

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1. N/A	None detected	JOA		
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11. 127184	Ethane, tetrachloro-	BNA	6.28	106000
12. 123864	Acetic acid, butyl ester		6.33	38000
13. 100414	Benzene, ethyl-		7.43	125000
14. 95476	Benzene, 1,2-dimethyl-		7.59	641000
15. 629209	1,3,5,7-Cyclooctatetraene		8.10	615000
16. 108383	Benzene, 1,3-dimethyl-		8.13	41000
17. 632968	Benzene, 1-ethyl-4-methyl-		9.53	34000
18. 526738	Benzene, 1,2,3-trimethyl-		10.19	46000
19. N/A	Unknown		10.45	196000
20. 135013	Benzene, 1,2-diethyl-		11.23	66000
21. 141935	Benzene, 1,3-diethyl-		11.36	44000
22. N/A	Unknown		18.13	40000
23. 544763	Hexadecane		19.43	34000
24. 5504508	Tridecane, 6-propyl-		20.64	179000
25. 629787	Heptadecane		20.66	53000
26. 3694301	Benzene, 1,1'-(1,2-cyclobutanediyl)bis-, cis-		21.08	109000
27. 645590	Benzene propanenitrile		21.28	78000
28. 3071094	Benzene, 1,1'-(1,3-cyclobutanediyl)bis-, trans-		21.70	227000
29. N/A	Unknown		28.73	116000
30. N/A	Unknown	↓	29.74	158000

Organics Analysis Data Sheet  
(Page 1)

000655

Laboratory Name: York LabsCase No: 6572Lab Sample ID No: 0262008

QC Report No: \_\_\_\_\_

Sample Matrix: SoilContract No: 68-01-7157Data Release Authorized By: [Signature]Date Sample Received: 11/14/86

## Volatile Compounds

Concentration: Low Medium (Circle One)Date Extracted/Prepared: 11/23/86Date Analyzed: 11/23/86Conc/Dil Factor: 1.0 pH 5.79Percent Moisture: (Not Decanted) 27.15TP-4B S-1

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	1000u
74-83-9	Bromomethane	1000u
75-01-4	Vinyl Chloride	1000u
75-00-3	Chloroethane	1000u
75-09-2	Methylene Chloride	6500
67-64-1	Acetone	1000u
75-15-0	Carbon Disulfide	500u
75-35-4	1, 1-Dichloroethane	500u
75-34-3	1, 1-Dichloroethane	500u
156-60-5	Trans-1, 2-Dichloroethane	500u
67-66-3	Chloroform	1900
107-06-2	1, 2-Dichloroethane	500u
78-93-3	2-Butanone	1000u
71-55-6	1, 1, 1-Trichloroethane	1800
56-23-5	Carbon Tetrachloride	500u
108-05-4	Vinyl Acetate	1000u
75-27-4	Bromodichloromethane	500u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	500u
10061-02-6	Trans-1, 3-Dichloropropene	500u
79-01-6	Trichloroethene	10000
124-48-1	Dibromochloromethane	500u
79-00-5	1, 1, 2-Trichloroethane	500u
71-43-2	Benzene	500u
10061-01-5	cis-1, 3-Dichloropropene	500u
110-75-8	2-Chloroethylvinylether	1000u
75-25-2	Bromoform	500u
108-10-1	4-Methyl-2-Pentanone	1000u
591-78-6	2-Hexanone	1000u
127-18-4	Tetrachloroethene	6500
79-34-5	1, 1, 2, 2-Tetrachloroethane	500u
108-88-3	Toluene	2100
108-90-7	Chlorobenzene	500u
100-41-4	Ethylbenzene	1700
100-42-5	Styrene	1300
	Total Xylenes	1500

## Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- Value** If the result is a value greater than or equal to the detection limit, report the value
- U** Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample
- J** Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.
- C** This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.
- B** This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- Other** Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name: York Laboratories  
 Case No: EPA 6572

Sample Number  
 AH 107

Organics Analysis Data Sheet  
 (Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)  
 Date Extracted/Prepared 11/17/86  
 Date Analyzed: 12/02/86  
 Conc/Dil Factor: 1.0  
 Percent Moisture (Decanted) 27.15

GPC Cleanup  Yes  No  
 Separatory Funnel Extraction  Yes  
 Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/l or <u>ug/Kg</u> (Circle One)
108-95-2	Phenol	20000u
111-44-4	bis(2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylpheno:	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	↓ ↓
65-85-0	Benzoic Acid	96000u
111-91-1	bis(2-Chloroethoxy)Methane	20000u
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	↓ ↓
91-57-6	2-Methylnaphthalene	6800J
77-47-4	Hexachlorocyclopentadiene	20000u
88-06-2	2, 4, 6-Trichlorophenol	20000u
95-95-4	2, 4, 5-Trichlorophenol	96000u
91-58-7	2-Chloronaphthalene	20000u
88-74-4	2-Nitroaniline	96000u
131-11-3	Dimethyl Phthalate	20000u
208-96-8	Acenaphthylene	20000u
99-09-2	3-Nitroaniline	96000u

CAS Number		ug/l or <u>ug/Kg</u> (Circle One)
83-32-9	Acenaphthene	20000u
51-28-5	2, 4-Dinitrophenol	96000u
100-02-7	4-Nitrophenol	96000u
132-64-9	Dibenzofuran	20000u
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	↓ ↓
86-73-7	Fluorene	950J
100-01-6	4-Nitroaniline	96000u
534-52-1	4, 6-Dinitro-2-Methylphenol	96000u
86-30-6	N-Nitrosodiphenylamine (1)	20000u
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	↓ ↓
87-86-5	Pentachlorophenol	96000u
85-01-8	Phenanthrene	20000u
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	↓ ↓
91-94-1	3, 3'-Dichlorobenzidine	40000u
56-55-3	Benzo(a)Anthracene	20000u
117-81-7	bis(2-Ethylhexyl)Phthalate	
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	↓ ↓

(1) Cannot be separated from diphenylamine



Laboratory Name: York Labs  
 Case No: 6572

Sample Number  
AH 107

Organics Analysis Data Sheet  
 (Page 3)

000657

Pesticide/PCBs

Concentration: Low  Medium (Circle One)  
 Date Extracted/Prepared: 11/22/86  
 Date Analyzed: 12/7/86  
 Conc/Dil Factor: 1.0  
 Percent Moisture (decanted): 29.80

GPC Cleanup  Yes  No  
 Separatory Funnel Extraction  Yes  
 Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	120. u
319-85-7	Beta-BHC	120. u
319-86-8	Delta-BHC	120. u
58-89-9	Gamma-BHC (Lindane)	120. u
76-44-8	Heptachlor	120. u
309-00-2	Aldrin	120. u
1024-57-3	Heptachlor Epoxide	120. u
959-98-8	Endosulfan I	120. u
50-57-1	Dieldrin	240. u
72-55-9	4, 4'-DDE	240. u
72-20-8	Endrin	240. u
33213-65-9	Endosulfan II	240. u
72-54-8	4, 4'-DDD	240. u
1031-07-8	Endosulfan Sulfate	240. u
50-29-3	4, 4'-DDT	20. J
72-43-5	Methoxychlor	1200. u
53494-70-5	Endrin Ketone	240. u
57-74-9	Chlordane	1200.
8001-35-2	Toxaphene	<del>1200.</del> 2400. u
12674-11-2	Aroclor-1016	1200. u
11104-28-2	Aroclor-1221	1200. u
11141-16-5	Aroclor-1232	1200. u
53469-21-9	Aroclor-1242	1200. u
12672-29-6	Aroclor-1248	1200. u
11097-69-1	Aroclor-1254	2400. u
11096-82-5	Aroclor-1260	2400. u

MCC  
10/81

$V_i$  = Volume of extract injected (ul)  
 $V_s$  = Volume of water extracted (ml)  
 $W_s$  = Weight of sample extracted (g)  
 $V_t$  = Volume of total extract (ul)

$V_s$  \_\_\_\_\_ or  $W_s$  1.08  $V_t$  1000  $V_i$  4.0

Laboratory Name York Labs  
 Case No EPA 6572

Sample Number  
AH 107

Organics Analysis Data Sheet  
 (Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1. N/A	Unknown Hydrocarbon	VOA	23.20	580
2. N/A	Unknown	VOA	24.65	2800
3. N/A	Unknown Hydrocarbon	VOA	26.27	3000
4. N/A	Unknown Terpene	VOA	30.08	1900
5. N/A	Unknown Hydrocarbon	VOA	31.25	15000
6. N/A	Unknown Hydrocarbon	VOA	33.19	1800
7. N/A	Unknown	VOA	34.16	6700
8.				
9.				
10.				
11. 123864	Acetic acid, butyl ester	BNA	6.05	76000
12. 6044719	Dodecane, 6-methyl-		13.64	38000
13. 62016346	Octane, 2,3,7-trimethyl-		14.56	65000
14. 629505	Tridecane		14.97	36000
15. N/A	Unknown		15.75	44000
16. N/A	Unknown		15.92	57000
17. 31295564	Dodecane, 2,6,11-trimethyl-		16.12	95000
18. 629594	Tetradecane		16.44	79000
19. 54832836	1H-Indene, octahydro-2,2,4,4,7,7-hexamethyl, trans		17.17	58000
20. 54833486	Heptadecane, 2,6,10,15-tetramethyl-		17.31	102000
21. N/A	Unknown		17.69	70000
22. 62238124	Decane, 2,3,6-trimethyl-		17.81	92000
23. 544763	Hexadecane		19.10	81000
24. 20959335	Heptadecane, 7-methyl-		19.71	79000
25. 629787	Heptadecane		20.34	97000
26. 1921706	Pentadecane, 3,6,10,14-tetramethyl-		20.41	181000
27. 74645980	Dodecane, 2,7,10-trimethyl-	↓	21.61	101000
28.				
29.				
30.				

## Organics Analysis Data Sheet

(Page 1)

000759

Laboratory Name: York LabsCase No: 6572Lab Sample ID No: 0262009

QC Report No: \_\_\_\_\_

Sample Matrix: SoilContract No: 68-01-7157Data Release Authorized By: J. C. PaulDate Sample Received: 11/14/86

## Volatile Compounds

Concentration: Low Medium (Circle One)Date Extracted/Prepared: 11/23/86Date Analyzed: 11/23/86Conc/Dil Factor: 20 pH 5.85Percent Moisture: (Not Decanted) 22.17TP-4A S-1

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	20000u
74-83-9	Bromomethane	20000u
75-01-4	Vinyl Chloride	20000u
75-00-3	Chloroethane	20000u
75-09-2	Methylene Chloride	39000
67-64-1	Acetone	20000u
75-15-0	Carbon Disulfide	10000u
75-35-4	1, 1-Dichloroethene	10000u
75-34-3	1, 1-Dichloroethane	10000u
156-60-5	Trans-1, 2-Dichloroethene	10000u
67-66-3	Chloroform	10000u
107-06-2	1, 2-Dichloroethane	10000u
78-93-3	2-Butanone	20000u
71-55-6	1, 1, 1-Trichloroethane	140000
56-23-5	Carbon Tetrachloride	10000u
108-05-4	Vinyl Acetate	20000u
75-27-4	Bromodichloromethane	10000u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	10000u
10061-02-6	Trans-1, 3-Dichloropropene	10000u
79-01-6	Trichloroethene	140000
124-48-1	Dibromochloromethane	10000u
79-00-5	1, 1, 2-Trichloroethane	10000u
71-43-2	Benzene	10000u
10061-01-5	cis-1, 3-Dichloropropene	10000u
110-75-8	2-Chloroethylvinylether	20000u
75-25-2	Bromoform	10000u
108-10-1	4-Methyl-2-Pentanone	20000u
591-78-6	2-Hexanone	20000u
127-18-4	Tetrachloroethene	380000
79-34-5	1, 1, 2, 2-Tetrachloroethane	10000u
108-88-3	Toluene	10000u
108-90-7	Chlorobenzene	10000u
100-41-4	Ethylbenzene	100000
100-42-5	Styrene	10000u
	Total Xylenes	350000

## Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- V** If the result is a value greater than or equal to the detection limit, report the value
- U** Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample
- J** Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.
- C** This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.
- B** This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- Other** Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name York Laboratories  
 Case No: EPA 6572

Sample Number  
AH 108

Organics Analysis Data Sheet  
 (Page 2)

000760

Semivolatiles Compounds

Concentration: Low  Medium  (Circle One)  
 Date Extracted/Prepared 11/17/86  
 Date Analyzed: 11/24/86  
 Conc/Dil Factor: 1.0  
 Percent Moisture (Decanted) 22.17

GPC Cleanup  Yes  No  
 Separatory Funnel Extraction  Yes  
 Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	20000u
111-44-4	bis(2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	↓ ↓
95-50-1	1, 2-Dichlorobenzene	3800 J
95-48-7	2-Methylphenol	20000u
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	↓ ↓
65-85-0	Benzoic Acid	96000u
111-91-1	bis(2-Chloroethoxy)Methane	20000u
120-83-2	2, 4-Dichlorophenol	20000u
120-82-1	1, 2, 4-Trichlorobenzene	18000J
91-20-3	Naphthalene	8700J
106-47-8	4-Chloroaniline	20000u
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	↓ ↓
91-57-6	2-Methylnaphthalene	34000
77-47-4	Hexachlorocyclopentadiene	20000u
88-06-2	2, 4, 6-Trichlorophenol	20000u
95-95-4	2, 4, 5-Trichlorophenol	96000u
91-58-7	2-Chloronaphthalene	20000u
88-74-4	2-Nitroaniline	96000u
131-11-3	Dimethyl Phthalate	20000u
208-96-8	Acenaphthylene	20000u
99-09-2	3-Nitroaniline	96000u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20000u
51-28-5	2, 4-Dinitrophenol	96000u
100-02-7	4-Nitrophenol	96000u
132-64-9	Dibenzofuran	20000u
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	↓ ↓
86-73-7	Fluorene	4700 J
100-01-6	4-Nitroaniline	96000u
534-52-1	4, 6-Dinitro-2-Methylphenol	96000u
86-30-6	N-Nitrosodiphenylamine (1)	20000u
101-55-3	4-Bromophenyl-phenylether	20000u
118-74-1	Hexachlorobenzene	4200 J
87-86-5	Pentachlorophenol	96000u
85-01-8	Phenanthrene	7700 J
120-12-7	Anthracene	20000u
84-74-2	Di-n-Butylphthalate	1500 J
206-44-0	Fluoranthene	880 J
129-00-0	Pyrene	2500 J
85-68-7	Butylbenzylphthalate	6300 J
91-94-1	3, 3'-Dichlorobenzidine	40000u
56-55-3	Benzo(a)Anthracene	20000u
117-81-7	bis(2-Ethylhexyl)Phthalate	25000
218-01-9	Chrysene	20000u
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenzo(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	↓ ↓

(1) Cannot be separated from diphenylamine

Laboratory Name: York Labs  
 Case No: 6572

Sample Number  
AT 108

Organics Analysis Data Sheet  
 (Page 3)

000761

Pesticide/PCBs

Concentration: Low Medium (Circle One)  
 Date Extracted/Prepared: 11/22/86  
 Date Analyzed: 12/7/86  
 Conc/Dil Factor: 1.0  
 Percent Moisture (decanted) 19.90

GPC Cleanup  Yes  No  
 Separatory Funnel Extraction  Yes  
 Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	120.4
319-85-7	Beta-BHC	120.4
319-86-8	Delta-BHC	120.4
58-89-9	Gamma-BHC (Lindane)	120.4
76-44-8	Heptachlor	120.4
309-00-2	Aldrin	120.4
1024-57-3	Heptachlor Epoxide	120.4
959-98-8	Endosulfan I	120.4
60-57-1	Dieldrin	240.4
72-55-9	4,4'-DDE	240.4
72-20-8	Endrin	240.4
33213-65-9	Endosulfan II	240.4
72-54-8	4,4'-DDD	4400
1031-07-8	Endosulfan Sulfate	240.4
50-29-3	4,4'-DDT	240.4
72-43-5	Methoxychlor	1200.4
53494-70-5	Endrin Ketone	240.4
57-74-9	Chlordane	1200.4
8001-35-2	Toxaphene	2400.4
12674-11-2	Aroclor-1016	1200.4
11104-28-2	Aroclor-1221	1200.4
11141-16-5	Aroclor-1232	1200.4
53469-21-9	Aroclor-1242	1200.4
12672-29-6	Aroclor-1248	1200.4
11097-69-1	Aroclor-1254	2400.4
11096-82-5	Aroclor-1260	2400.4

$V_i$  = Volume of extract injected (ul)  
 $V_s$  = Volume of water extracted (ml)  
 $W_s$  = Weight of sample extracted (g)  
 $V_t$  = Volume of total extract (ul)

$V_s$  \_\_\_\_\_ or  $W_s$  1.01  $V_t$  1000  $V_i$  4.0

Laboratory Name York Labs  
 Case No EPA 6572

Sample Number  
AH108

Organics Analysis Data Sheet  
 (Page 4)

000762

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number Min.	Estimated Concentration (ug/l or ug/kg)
1. N/A	Unknown	JOA	28.52	480000
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11. 123864	Acetic acid, butyl ester	BNA	6.33	47000
12. 95476	Benzene, 1,2-dimethyl-		7.59	417000
13. 526738	Benzene, 1,2,3-trimethyl-		9.67	58000
14. 135013	Benzene, 1,2-diethyl-		11.25	280000
15. 141935	Benzene, 1,3-diethyl-		11.36	156000
16. 105055	Benzene, 1,4-diethyl-		11.49	62000
17. N/A	Unknown		13.13	34000
18. 62016346	Octane, 2,3,7-trimethyl-		14.88	85000
19. N/A	Unknown		15.46	80000
20. 90120	Naphthalene, 1-methyl-		15.84	41000
21. N/A	Unknown		16.08	34000
22. 74645980	Dodecane, 2,7,10-trimethyl-		16.44	94000
23. 575371	Naphthalene, 1,7-dimethyl-		17.20	44000
24. 573988	Naphthalene, 1,2-dimethyl-		17.43	63000
25. 55045108	Tridecane, 6-propyl-		17.64	84000
26. 54824043	Cyclohexane, 1-(cyclohexylmethyl)-2-methyl-, cis-		18.22	78000
27. 62108263	Decane, 2,6,8-trimethyl-		20.06	204000
28. 1921306	Pentadecane, 2,6,10,14-tetramethyl-		20.76	169000
29. 17302328	Nonane, 3,7-dimethyl-		21.31	87000
30. 54833486	Heptadecane, 2,6,10,14-tetramethyl-		21.97	98000

Organics Analysis Data Sheet  
(Page 1)

Laboratory Name: York Labs Case No: 6572  
 Lab Sample ID No: 0262010 QC Report No: \_\_\_\_\_  
 Sample Matrix: Water Contract No: 68-01-7157  
 Data Release Authorized By: J.P. Cull Date Sample Received: 11/14/86

## Volatile Compounds

Concentration: Low Medium (Circle One)  
 Date Extracted/Prepared: 11/17/86  
 Date Analyzed: 11/17/86  
 Conc/Dil Factor: 1.0 pH N/A  
 Percent Moisture: (Not Decanted) N/A

Field  
Blank

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	5U
67-64-1	Acetone	10U
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	5U
10061-02-6	Trans-1, 3-Dichloropropene	5U
79-01-6	Trichloroethene	5U
124-48-1	Dibromochloromethane	5U
79-00-5	1, 1, 2-Trichloroethane	5U
71-43-2	Benzene	5U
10061-01-5	cis-1, 3-Dichloropropene	5U
110-75-8	2-Chloroethylvinylether	10U
75-25-2	Bromoform	5U
108-10-1	4-Methyl-2-Pentanone	10U
591-78-6	2-Hexanone	10U
127-18-4	Tetrachloroethene	5U
79-34-5	1, 1, 2, 2-Tetrachloroethane	5U
108-88-3	Toluene	5U
108-90-7	Chlorobenzene	5U
100-41-4	Ethylbenzene	5U
100-42-5	Styrene	5U
	Total Xylenes	5U

## Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used.  
 Additional flags or footnotes explaining results are encouraged. However, the  
 definition of each flag must be explicit.

- Value** If the result is a value greater than or equal to the detection limit, report the value
- U** Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample
- J** Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.
- C** This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.
- B** This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- Other** Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name York Labs  
Case No 6572

Sample Number 000864  
AH109

Organics Analysis Data Sheet  
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. N/A	Non detected	VOA		
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
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25.				
26.				
27.				
28.				
29.				
30.				



SURESIM  
Test Pitting Samples -  
Results of Metals and  
Cyanide Analysis

DATA QUALIFIERS  
PAGE 2

000005

Lab Name: NANCO LABORATORIES, INC.  
Lab Address: Unity Street,  
Hopewell Junction, New York

VALUE - IF THE RESULT IS A VALUE GREATER THAN OR EQUAL TO THE INSTRUMENT DETECTION LIMIT BUT LESS THAN THE CONTRACT-REQUIRED DETECTION LIMIT, THE VALUE IS REPORTED IN BRACKETS ( i.e., [10]). THE ANALYTICAL METHOD USED IS INDICATED WITH P (FOR ICP), A (FOR FLAME AA) OR F (FOR FURNACE AA).

U - INDICATES ELEMENT WAS ANALYZED FOR BUT NOT DETECTED. REPORTED WITH THE INSTRUMENT DETECTION LIMIT VALUE (e.g., 10 U ).

E - INDICATES A VALUE ESTIMATED OR NOT REPORTED DUE TO THE PRESENCE OF INTERFERENCE.

s - INDICATES A VALUE DETERMINED BY METHOD OF STANDARD ADDITION.

N - INDICATES SPIKE SAMPLE RECOVERY IS NOT WITHIN CONTROL LIMITS.

\* - INDICATES DUPLICATE ANALYSIS IS NOT WITHIN CONTROL LIMITS.

+ - INDICATES THE CORRELATION COEFFICIENT FOR METHOD OF STANDARD ADDITION IS LESS THAN 0.995

M - INDICATES DUPLICATE INJECTION RESULTS EXCEEDED CONTROL LIMITS.

COMMENTS :

000006

INORGANIC ANALYSIS DATA SHEET  
FORM I

EPA SMPL NO. : MAD-766

PT-1 S-1

Lab Name : NANCO LABORATORIES, INC.

Case NO. : 6572

SOW NO. : 785

Lab Receipt Date : 11/14/86

Lab Sample ID: 6572-MAD-766-518

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION :      LOW \_\_\_\_\_      MEDIUM   X  MATRIX :    WATER \_\_\_\_\_      SOIL   X        SLUDGE \_\_\_\_\_ OTHER \_\_\_\_\_UG/L OR   MG/KG   DRY WEIGHT ( CIRCLE ONE )

1. ALUMINUM	1211 P	13. MAGNESIUM [	463 ]P
2. ANTIMONY	11 UPN	14. MANGANESE	59 PN
3. ARSENIC	11 FN	15. MERCURY	0.1 U C.V.
4. BARIUM	6 P	16. NICKEL	6 UP
5. BERYLLIUM	0.4 UP	17. POTASSIUM	211 UP
6. CADMIUM	1 UP	18. SELENIUM	1 UFN
7. CALCIUM [	358 ]P	19. SILVER	2 UPN
8. CHROMIUM	4 P	20. SODIUM	211 UP
9. COBALT	2 UP	21. THALLIUM	1 UF
10. COPPER	2 UP	22. VANADIUM	8 UP
11. IRON	2233 P	23. ZINC	12 P
12. LEAD	13 PN	PERCENT SOLIDS (%)	95.0
CYANIDE	0.1 U		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS : *This sample was of medium texture, containing root hairs and was brownish black in coloration.*

*Jean M. Connolly*  
LAB MANAGER

TP-6 S-1

INORGANIC ANALYSIS DATA SHEET  
FORM 1

000007

EPA SMPL NO. : MAD-767

Lab Name : NANCO LABORATORIES, INC.

Case NO. : 6572

SOW NO. : 785

Lab Receipt Date : 11/14/86

Lab Sample ID: 6572-MAD-767-518

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION : LOW \_\_\_\_\_ MEDIUM X

MATRIX : WATER \_\_\_\_\_ SOIL X SLUDGE \_\_\_\_\_ OTHER \_\_\_\_\_

UG/L OR MG/KG DRY WEIGHT ( CIRCLE ONE )

1. ALUMINUM	7933 P	13. MAGNESIUM	1169 P
2. ANTIMONY	11 UPN	14. MANGANESE	332 PN
3. ARSENIC	9 FN	15. MERCURY	0.1 U C.V.
4. BARIUM	34 P	16. NICKEL	24 P
5. BERYLLIUM	0.4 UP	17. POTASSIUM [	472 ]P
6. CADMIUM	1 UP	18. SELENIUM	1 UFN
7. CALCIUM [	989 ]P	19. SILVER	2 UPN
8. CHROMIUM	19 P	20. SODIUM	225 UP
9. COBALT [	8 ]P	21. THALLIUM	1 UF
10. COPPER	54 P	22. VANADIUM	16 P
11. IRON	24472 P	23. ZINC	168 P
12. LEAD	105 PN	PERCENT SOLIDS (%)	89.0
CYANIDE	0.1 U		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS : *This sample was of medium texture, containing root hairs and was brown in coloration.*

*Jean M. Connolly*  
LAB MANAGER

INORGANIC ANALYSIS DATA SHEET  
FORM I

EPA SMPL NO. : MAD-768

TP-8 S-1

Lab Name : NANCO LABORATORIES, INC.

Case NO. : 6572

SOW NO. : 785

Lab Receipt Date : 11/14/86

Lab Sample ID: 6572-MAD-768-518

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION :      LOW \_\_\_\_\_      MEDIUM   X  

MATRIX :      WATER \_\_\_\_\_      SOIL   X        SLUDGE \_\_\_\_\_ OTHER \_\_\_\_\_

UG/L OR   MG/KG   DRY WEIGHT ( CIRCLE ONE )

1. ALUMINUM	3596 P	13. MAGNESIUM [	593 ]P
2. ANTIMONY	11 UPN	14. MANGANESE	298 PN
3. ARSENIC	5 +FN	15. MERCURY	0.1 U C.V.
4. BARIUM	28 P	16. NICKEL	10 P
5. BERYLLIUM	0.4 UP	17. POTASSIUM	220 UP
6. CADMIUM	4 P	18. SELENIUM	5 UFN
7. CALCIUM [	264 ]P	19. SILVER	2 UPN
8. CHROMIUM	1211 P	20. SODIUM	220 UP
9. COBALT [	3 ]P	21. THALLIUM	1 UF
10. COPPER	660 P	22. VANADIUM	16 P
11. IRON	42286 P	23. ZINC	148 P
12. LEAD	149 PN	PERCENT SOLIDS (%)	91.0
CYANIDE	0.1 U		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS : *This sample was of medium texture, containing root hairs and was brown in coloration.*

*Jean M. Connolly*  
LAB MANAGER

INORGANIC ANALYSIS DATA SHEET  
FORM I

EPA SMPL NO. : MAD-769

TP-9 S-3

Lab Name : NANCO LABORATORIES, INC.

Case NO. : 6572

SOW NO. : 785

Lab Receipt Date : 11/14/86

Lab Sample ID: 6572-MAD-769-518

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION :      LOW \_\_\_\_\_      MEDIUM   X  

MATRIX :    WATER \_\_\_\_\_    SOIL   X      SLUDGE \_\_\_\_\_    OTHER \_\_\_\_\_

UG/L OR   MG/KG   DRY WEIGHT ( CIRCLE ONE )

1. ALUMINUM	3765 P	13. MAGNESIUM [	582 ]P
2. ANTIMONY	13 UPN	14. MANGANESE	367 PN
3. ARSENIC	7 FN	15. MERCURY	0.1 U C.V.
4. BARIUM	35 P	16. NICKEL [	9 ]P
5. BERYLLIUM	0.5 UP	17. POTASSIUM	253 UP
6. CADMIUM	4 P	18. SELENIUM	6 UFN
7. CALCIUM [	329 ]P	19. SILVER	3 UPN
8. CHROMIUM	1479 P	20. SODIUM	253 UP
9. COBALT [	3 ]P	21. THALLIUM	1 UF
10. COPPER	877 P	22. VANADIUM	18 P
11. IRON	48608 P	23. ZINC	184 P
12. LEAD	144 PN	PERCENT SOLIDS (%)	79.0
CYANIDE	0.1 U		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS : *This sample was of medium texture, containing root hairs and was brown in coloration.*

*Jean M. Connolly*  
LAB MANAGER

TP-9 S-1

INORGANIC ANALYSIS DATA SHEET  
FORM I

000010

EPA SMPL NO. : MAD-770

Lab Name : NANCO LABORATORIES, INC.

Case NO. : 6572

SOW NO. : 785

Lab Receipt Date : 11/14/86

Lab Sample ID: 6572-MAD-770-518

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION :      LOW \_\_\_\_\_      MEDIUM   X  

MATRIX :    WATER \_\_\_\_\_      SOIL   X        SLUDGE \_\_\_\_\_ OTHER \_\_\_\_\_

UG/L OR   MG/KG   DRY WEIGHT ( CIRCLE ONE )

1. ALUMINUM	2896 P	13. MAGNESIUM [	652 ]P
2. ANTIMONY	11 UPN	14. MANGANESE	63 PN
3. ARSENIC	11 FN	15. MERCURY	0.8 C.V.
4. BARIUM	449 P	16. NICKEL	12 P
5. BERYLLIUM	0.4 UP	17. POTASSIUM [	261 ]P
6. CADMIUM	2 P	18. SELENIUM	5 UFN
7. CALCIUM [	761 ]P	19. SILVER	2 UPN
8. CHROMIUM	15 P	20. SODIUM	217 UP
9. COBALT [	3 ]P	21. THALLIUM	1 UF
10. COPPER	73 P	22. VANADIUM	15 P
11. IRON	13957 P	23. ZINC	1231 P
12. LEAD	682 PN	PERCENT SOLIDS (%)	92.0
CYANIDE	0.5		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS : *This sample was coarse in texture, containing root hairs and was brown in coloration.*

*Jean M. Connolly*  
LAB MANAGER

000011

INORGANIC ANALYSIS DATA SHEET  
FORM 1

EPA SMPL NO. : MAD-771

TP-9 S-2

Lab Name : NANCO LABORATORIES, INC.

Case NO. : 6572

SOW NO. : 785

Lab Receipt Date : 11/14/86

Lab Sample ID: 6572-MAD-771-518

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION : LOW \_\_\_\_\_ MEDIUM X

MATRIX : WATER \_\_\_\_\_ SOIL X SLUDGE \_\_\_\_\_ OTHER \_\_\_\_\_

UG/L OR (MG/KG) DRY WEIGHT ( CIRCLE ONE )

1. ALUMINUM	4856 P	13. MAGNESIUM	1459 P
2. ANTIMONY	12 UPN	14. MANGANESE	61 PN
3. ARSENIC	3 +FN	15. MERCURY	0.1 U C.V.
4. BARIUM	42 P	16. NICKEL	[ 9 ]P
5. BERYLLIUM	0.5 UP	17. POTASSIUM	[ 471 ]P
6. CADMIUM	1 UP	18. SELENIUM	1 UFN
7. CALCIUM	[ 541 ]P	19. SILVER	2 UPN
8. CHROMIUM	11 P	20. SODIUM	235 UP
9. COBALT	2 UP	21. THALLIUM	1 UF
10. COPPER	7 P	22. VANADIUM	9 UP
11. IRON	5074 P	23. ZINC	130 P
12. LEAD	34 PN	PERCENT SOLIDS (%)	85.0
CYANIDE	0.1 U		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS : *This sample was coarse in texture, containing root hairs and was brown in coloration.*

*Jean M. Connolly*  
LAB MANAGER

INORGANIC ANALYSIS DATA SHEET  
FORM I

000012

EPA SMPL NO. : MAD-772

Lab Name : NANCO LABORATORIES, INC.

Case NO. : 6572

SOW NO. : 785

Lab Receipt Date : 11/14/86

Lab Sample ID: 6572-MAD-772-518

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION :      LOW \_\_\_\_\_      MEDIUM   X  

MATRIX :      WATER \_\_\_\_\_      SOIL   X        SLUDGE \_\_\_\_\_      OTHER \_\_\_\_\_

UG/L OR   MG/KG   DRY WEIGHT ( CIRCLE ONE )

1. ALUMINUM	2219 P	13. MAGNESIUM	235 UP
2. ANTIMONY	12 UPN	14. MANGANESE	27 PN
3. ARSENIC	10 FN	15. MERCURY	0.7 C.V.
4. BARIUM	60 P	16. NICKEL	14 P
5. BERYLLIUM	0.5 UP	17. POTASSIUM	235 UP
6. CADMIUM	2 P	18. SELENIUM	1 UFN
7. CALCIUM	I 1176 IP	19. SILVER	2 UPN
8. CHROMIUM	6 P	20. SODIUM	235 UP
9. COBALT	2 UP	21. THALLIUM	1 UF
10. COPPER	165 P	22. VANADIUM	9 UP
11. IRON	7941 P	23. ZINC	133 P
12. LEAD	42 PN	PERCENT SOLIDS (%)	85.0
CYANIDE	1.3		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS : *this sample was coarse in texture, containing root hairs and was black in coloration.*

*Jean M. Connolly*  
LAB MANAGER



INORGANIC ANALYSIS DATA SHEET  
FORM I

EPA SMPL NO. : MAD-773

Lab Name : NANCO LABORATORIES, INC.

Case NO. : 6572

SOW NO. : 785

Lab Receipt Date : 11/14/86

Lab Sample ID: 6572-MAD-773-518

## ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION :      LOW \_\_\_\_\_      MEDIUM   X  

MATRIX :      WATER \_\_\_\_\_      SOIL   X        SLUDGE \_\_\_\_\_ OTHER \_\_\_\_\_

UG/L OR   MG/KG   DRY WEIGHT ( CIRCLE ONE )

1. ALUMINUM	14630 P	13. MAGNESIUM [	932 ]P
2. ANTIMONY	14 UPN	14. MANGANESE	86 PN
3. ARSENIC	4 +FN	15. MERCURY	0.1 U C.V.
4. BARIUM	40 P	16. NICKEL	14 P
5. BERYLLIUM	0.5 UP	17. POTASSIUM	274 UP
6. CADMIUM	1 UP	18. SELENIUM	1 UFN
7. CALCIUM	2548 P	19. SILVER	3 UPN
8. CHROMIUM	14 P	20. SODIUM	274 UP
9. COBALT [	5 ]P	21. THALLIUM	1 UF
10. COPPER	9 P	22. VANADIUM [	13 ]P
11. IRON	5548 P	23. ZINC	687 P
12. LEAD	64 PN	PERCENT SOLIDS (%)	73.0
CYANIDE	0.1 U		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS : *This sample was coarse in texture, containing sticks & twigs and was black in coloration.*

*Jean M. Connolly*  
LAB MANAGER

INORGANIC ANALYSIS DATA SHEET  
FORM I

000014

EPA SMPL NO. : MAD-774

TP-4A S-1

Lab Name : NANCO LABORATORIES, INC.

Case NO. : 6572

SOW NO. : 785

Lab Receipt Date : 11/14/86

Lab Sample ID: 6572-MAD-774-518

MADE IN  
DEC

B

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION : LOW \_\_\_\_\_ MEDIUM X

MATRIX : WATER \_\_\_\_\_ SOIL X SLUDGE \_\_\_\_\_ OTHER \_\_\_\_\_

UG/L OR MG/KG DRY WEIGHT ( CIRCLE ONE )

1. ALUMINUM	5167 P	13. MAGNESIUM	1558 P
2. ANTIMONY	12 UPN	14. MANGANESE	89 PN
3. ARSENIC	9 SFN	15. MERCURY	2.9 C.V.
4. BARIUM	60 P	16. NICKEL	21 P
5. BERYLLIUM	0.5 UP	17. POTASSIUM [	605 ]P
6. CADMIUM	1 UP	18. SELENIUM	2 FN
7. CALCIUM	2279 P	19. SILVER	2 UPN
8. CHROMIUM	81 P	20. SODIUM	233 UP
9. COBALT [	3 ]P	21. THALLIUM	1 UF
10. COPPER	237 P	22. VANADIUM	13 P
11. IRON	9535 P	23. ZINC	335 P
12. LEAD	80 PN	PERCENT SOLIDS (%)	86.0
CYANIDE	0.3		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS : *This sample was coarse in texture, containing sticks & chips and was black in coloration.*

*Jean M. Connolly*  
LAB MANAGER

## Organics Analysis Data Sheet

(Page 1)

Laboratory Name: Aquatec, Inc.Case No: 6517Lab Sample ID No: 63862QC Report No: 21Sample Matrix: SoilContract No: 68-01-7020Data Release Authorized By: [Signature]Date Sample Received: 25-OCT-86

## Volatile Compounds

Concentration: Low Medium (Circle One)Date Extracted/Prepared: 30-OCT-86Date Analyzed: 31-OCT-86Conc/Dil Factor: 5445.0 pH 5.450Percent Moisture: (Not Decanted) 22.40

CAS Number		ug/l or <u>(ug/Kg)</u> (Circle One)
74-87-3	Chloromethane	44000 U
74-83-9	Bromomethane	44000 U
75-01-4	Vinyl Chloride	44000 U
75-00-3	Chloroethane	44000 U
75-09-2	Methylene Chloride	86000 B
67-64-1	Acetone	44000 U
75-15-0	Carbon Disulfide	22000 U
75-35-4	1,1-Dichloroethene	22000 U
75-34-3	1,1-Dichloroethane	22000 U
156-60-5	Trans-1,2-Dichloroethene	22000 U
67-66-3	Chloroform	16000 J
107-06-2	1,2-Dichloroethane	110000
78-93-3	2-Butanone	44000 U
71-55-6	1,1,1-Trichloroethane	990000
56-23-5	Carbon Tetrachloride	22000 U
108-05-4	Vinyl Acetate	44000 U
75-27-4	Bromodichloromethane	22000 U

CAS Number		ug/l or <u>(ug/Kg)</u> (Circle One)
78-87-5	1,2-Dichloropropane	22000 U
10061-02-6	Trans-1,3-Dichloropropene	22000 U
79-01-6	Trichloroethene	1100000
124-48-1	Dibromochloromethane	22000 U
79-00-5	1,1,2-Trichloroethane	20000 J
71-43-2	Benzene	13000 J
10061-01-5	cis-1,3-Dichloropropene	22000 U
110-75-8	2-Chloroethylvinylether	44000 U
75-25-2	Bromoform	22000 U
591-78-6	2-Hexanone	44000 U
108-10-1	4-Methyl-2-Pentanone	44000 U
127-18-4	Tetrachloroethene	500000
79-34-5	1,1,2,2-Tetrachloroethane	22000 U
108-88-3	Toluene	230000 B
108-90-7	Chlorobenzene	99000
100-41-4	Ethylbenzene	170000
100-42-5	Styrene	960000
	Total Xylenes	240000

## Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides  $\geq 10$  ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000018

Laboratory Name: Aquatec, Inc.

Case No: 6517

Sample Number

AF783

63862

## Organics Analysis Data Sheet

(Page 2)

### Semivolatile Compounds

Concentration: Low  Medium  (Circle One)

Date Extracted/Prepared: 28-OCT-86

Date Analyzed: 30-OCT-86

Conc Dil Factor: 0.4051

Percent Moisture: (Decanted) 22.40

GPC Cleanup  Yes  No

Separatory Funnel Extraction  Yes

Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
108-95-2	Phenol	24000 U
111-44-4	bis(-2-Chloroethyl)Ether	24000 U
95-57-8	2-Chlorophenol	24000 U
541-73-1	1, 3-Dichlorobenzene	24000 U
106-46-7	1, 4-Dichlorobenzene	24000 U
100-51-6	Benzyl Alcohol	24000 U
95-50-1	1, 2-Dichlorobenzene	54,000
95-48-7	2-Methylphenol	24000 U
39638-32-9	bis(2-chloroisopropyl)Ether	24000 U
106-44-5	4-Methylphenol	24000 U
621-64-7	N-Nitroso-Di-n-Propylamine	24000 U
67-72-1	Hexachloroethane	24000 U
98-95-3	Nitrobenzene	24000 U
78-59-1	Isophorone	18,000 J
88-75-5	2-Nitrophenol	24000 U
105-67-9	2, 4-Dimethylphenol	24000 U
65-85-0	Benzoic Acid	120000 U
111-91-1	bis(-2-Chloroethoxy)Methane	24000 U
120-83-2	2, 4-Dichlorophenol	24000 U
120-82-1	1, 2, 4-Trichlorobenzene	7600 J
91-20-3	Naphthalene	8700 J
106-47-8	4-Chloroaniline	24000 U
87-68-3	Hexachlorobutadiene	24000 U
59-50-7	4-Chloro-3-Methylphenol	24000 U
91-57-6	2-Methylnaphthalene	24000 U
77-47-4	Hexachlorocyclopentadiene	24000 U
88-06-2	2, 4, 6-Trichlorophenol	24000 U
95-95-4	2, 4, 5-Trichlorophenol	120000 U
91-58-7	2-Chloronaphthalene	24000 U
88-74-4	2-Nitroaniline	120000 U
131-11-3	Dimethyl Phthalate	24000 U
208-96-8	Acenaphthylene	24000 U
99-09-2	3-Nitroaniline	120000 U

CAS Number		ug/l or (ug/Kg) (Circle One)
83-32-9	Acenaphthene	24000 U
51-28-5	2, 4-Dinitrophenol	120000 U
100-02-7	4-Nitrophenol	120000 U
132-64-9	Dibenzofuran	24000 U
121-14-2	2, 4-Dinitrotoluene	24000 U
606-20-2	2, 6-Dinitrotoluene	24000 U
84-66-2	Diethylphthalate	24000 U
7005-72-3	4-Chlorophenyl-phenylether	24000 U
86-73-7	Fluorene	24000 U
100-01-6	4-Nitroaniline	120000 U
534-52-1	4, 6-Dinitro-2-Methylphenol	120000 U
86-30-6	N-Nitrosodiphenylamine(1)	15,000 J
101-55-3	4-Bromophenyl-phenylether	24000 U
118-74-1	Hexachlorobenzene	24000 U
87-86-5	Pentachlorophenol	120000 U
85-01-8	Phenanthrene	24000 U
120-12-7	Anthracene	24000 U
84-74-2	Di-n-Butylphthalate	3600 J
206-44-0	Fluoranthene	24000 U
129-00-0	Pyrene	24000 U
85-68-7	Butylbenzylphthalate	24000 U
91-94-1	3, 3'-Dichlorobenzidine	49000 U
56-55-3	Benzo(a)Anthracene	24000 U
117-81-7	bis(2-Ethylhexyl)Phthalate	9500 J
218-01-9	Chrysene	24000 U
117-84-0	Di-n-Octyl Phthalate	24000 U
205-99-2	Benzo(b)Fluoranthene	24000 U
207-08-9	Benzo(k)Fluoranthene	24000 U
50-32-8	Benzo(a)Pyrene	24000 U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	24000 U
53-70-3	Dibenz(a, h)Anthracene	24000 U
191-24-2	Benzo(g, h, i)Perylene	24000 U

(1)-Cannot be separated from diphenylamine 000019

Laboratory Name: Aquatec, Inc.

Sample Number

Case No: 6517

AF783

63862

### Organics Analysis Data Sheet

(Page 3)

#### Pesticide/PCBs

Concentration: Low  Medium (Circle One)

GPC Cleanup  Yes  No

Date Extracted/Prepared: 28-OCT-86

Separatory Funnel Extraction  Yes

Date Analyzed: 07-NOV-86

Continuous Liquid - Liquid Extraction  Yes

Conc Dil Factor: 0.0156

Percent Moisture: (Decanted) 22.40

CAS Number		ug/l or <u>(ug/Kg)</u> (Circle One)
319-84-6	Alpha-BHC	770 U
319-85-7	Beta-BHC	770 U
319-86-8	Delta-BHC	770 U
58-89-9	Gamma-BHC (Lindane)	770 U
76-44-8	Heptachlor	770 U
309-00-2	Aldrin	770 U
1024-57-3	Heptachlor Epoxide	770 U
959-98-8	Endosulfan I	770 U
60-57-1	Dieldrin	1500 U
72-55-9	4,4'-DDE	1500 U
72-20-8	Endrin	1500 U
33213-65-9	Endosulfan II	1500 U
72-54-8	4,4'-DDD	1500 U
1031-07-8	Endosulfan Sulfate	1500 U
50-29-3	4,4'-DDT	1500 U
72-43-5	Methoxychlor	7700 U
53494-70-5	Endrin Ketone	1500 U
57-74-9	Chlordane	7700 U
8001-35-2	Toxaphene	15000 U
12674-11-2	Aroclor-1016	7700 U
11104-28-2	Aroclor-1221	7700 U
11141-16-5	Aroclor-1232	7700 U
53469-21-9	Aroclor-1242	7700 U
12672-29-6	Aroclor-1248	7700 U
11097-69-1	Aroclor-1254	15000 U
11096-82-5	Aroclor-1260	15000 U

$V_i$  = Volume of extract injected (ul)

$V_s$  = Volume of water extracted (ml)

$W_s$  = Weight of sample extracted (g)

$V_t$  = Volume of total extract (ul)

$V_s$  \_\_\_\_\_ or  $W_s$  1.0058  $V_t$  50000  $V_i$  3.2

000020

Laboratory Name: Aquatec, Inc.

Case No: 6517

Sample Number  
**AF783**

63862

**Organics Analysis Data Sheet**  
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or (Scan) Number	Estimated Concentration (ug/l or ug/kg)
1. 76-13-1	Freon TF	VO	212	170,000 J
2. —	unknown	VO	644	49,000 J
3.				
4.				
5.				
6. —	Methylethylbenzene isomer	BNA	647	16,000 J
7. 129-18-5	Decane	BNA	789	45,000 J
8. —	Diethylbenzene isomer	BNA	877	300,000 J
9. —	Diethylbenzene isomer	BNA	886	160,000 J
10. —	Diethylbenzene isomer	BNA	896	38,000 J
11. —	Unknown hydrocarbon	BNA	946	32,000 J
12. —	Unknown	BNA	1344	41,000 J
13. —	Unknown hydrocarbon	BNA	1410	16,000 J
14. —	Unknown hydrocarbon	BNA	1506	25,000 J
15. —	Unknown hydrocarbon	BNA	1597	25,000 J
16. —	Bis-1,1'-(1,2-cyclobutanediyl)benzene	BNA	1621	47,000 J
17. —	Unknown	BNA	1637	37,000 J
18. —	Bis-1,1'-(1,2-cyclobutanediyl)benzene isomer	BNA	1667	120,000 J
19. —	Unknown hydrocarbon	BNA	1683	19,000 J
20. —	Unknown hydrocarbon	BNA	1765	14,000 J
21. —	Unknown	BNA	2186	82,000 J
22. —	Unknown	BNA	2252	79,000 J
23. —	Unknown	BNA	2260	120,000 J
24. —	Unknown	BNA	2265	28,000 J
25. —	Unknown	BNA	2269	38,000 J
26.				
27.				
28.				
29.				
30.				

000021

Sample Number

AF784

MW406 (S-5)

## Organics Analysis Data Sheet

(Page 1)

Laboratory Name: Aquatec, Inc.Case No: 6517Lab Sample ID No: 63945QC Report No: 21Sample Matrix: SoilContract No: 68-01-7020Data Release Authorized By: [Signature]Date Sample Received: 29-OCT-86

## Volatile Compounds

Concentration: Low (Medium) (Circle One)Date Extracted/Prepared: 30-OCT-86Date Analyzed: 31-OCT-86Conc/Dil Factor: 591.2 pH 3.45Percent Moisture: (Not Decanted) 22.88

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	4700 U
74-83-9	Bromomethane	4700 U
75-01-4	Vinyl Chloride	4700 U
75-00-3	Chloroethane	4700 U
75-09-2	Methylene Chloride	24000 B
67-64-1	Acetone	170000 B
75-15-0	Carbon Disulfide	2400 U
75-35-4	1,1-Dichloroethene	2400 U
75-34-3	1,1-Dichloroethane	2400 U
156-60-5	Trans-1,2-Dichloroethene	2400 U
67-66-3	Chloroform	2400 U
107-06-2	1,2-Dichloroethane	12000
78-93-3	2-Butanone	110000 B
71-55-6	1,1,1-Trichloroethane	2400
56-23-5	Carbon Tetrachloride	2400 U
108-05-4	Vinyl Acetate	4700 U
75-27-4	Bromodichloromethane	2400 U

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1,2-Dichloropropane	2400 U
10061-02-6	Trans-1,3-Dichloropropene	2400 U
79-01-6	Trichloroethene	2000 J
124-48-1	Dibromochloromethane	2400 U
79-00-5	1,1,2-Trichloroethane	610 J
71-43-2	Benzene	2500
10061-01-5	cis-1,3-Dichloropropene	2400 U
110-75-8	2-Chloroethylvinylether	4700 U
75-25-2	Bromoform	2400 U
591-78-6	2-Hexanone	4700 U
108-10-1	4-Methyl-2-Pentanone	4700 U
127-18-4	Tetrachloroethene	2400 U
79-34-5	1,1,2,2-Tetrachloroethane	2400 U
108-88-3	Toluene	3500 B
108-90-7	Chlorobenzene	2400 U
100-41-4	Ethylbenzene	2400 U
100-42-5	Styrene	2400 U
	Total Xylenes	1800 J

## Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides  $\geq 10$  ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000022

Laboratory Name: Aquatec, Inc.

Sample Number

Case No: 6517

AF784

63945

Organics Analysis Data Sheet  
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

GPC Cleanup  Yes  No

Date Extracted/Prepared: 30-OCT-86

Separatory Funnel Extraction  Yes

Date Analyzed: 03-NOV-86

Continuous Liquid - Liquid Extraction  Yes

Conc Dil Factor: 11.65

Percent Moisture: (Decanted) 22.88

CAS Number		ug/l or (ug/Kg) (Circle One)
108-95-2	Phenol	850 U
111-44-4	bis(-2-Chloroethyl)Ether	850 U
95-57-8	2-Chlorophenol	850 U
541-73-1	1, 3-Dichlorobenzene	850 U
106-46-7	1, 4-Dichlorobenzene	850 U
100-51-6	Benzyl Alcohol	850 U
95-50-1	1, 2-Dichlorobenzene	850 U
95-48-7	2-Methylphenol	850 U
39638-32-9	bis(2-chloroisopropyl)Ether	850 U
106-44-5	4-Methylphenol	850 U
621-64-7	N-Nitroso-Di-n-Propylamine	850 U
67-72-1	Hexachloroethane	850 U
98-95-3	Nitrobenzene	850 U
78-59-1	Isophorone	180 J
88-75-5	2-Nitrophenol	850 U
105-67-9	2, 4-Dimethylphenol	850 U
65-85-0	Benzoic Acid	2200
111-91-1	bis(-2-Chloroethoxy)Methane	850 U
120-83-2	2, 4-Dichlorophenol	850 U
120-82-1	1, 2, 4-Trichlorobenzene	850 U
91-20-3	Naphthalene	850 U
106-47-8	4-Chloroaniline	850 U
87-68-3	Hexachlorobutadiene	850 U
59-50-7	4-Chloro-3-Methylphenol	850 U
91-57-6	2-Methylnaphthalene	850 U
77-47-4	Hexachlorocyclopentadiene	850 U
88-06-2	2, 4, 6-Trichlorophenol	850 U
95-95-4	2, 4, 5-Trichlorophenol	4100 U
91-58-7	2-Chloronaphthalene	850 U
88-74-4	2-Nitroaniline	4100 U
131-11-3	Dimethyl Phthalate	850 U
208-96-8	Acenaphthylene	850 U
99-09-2	3-Nitroaniline	4100 U

CAS Number		ug/l or (ug/Kg) (Circle One)
83-32-9	Acenaphthene	850 U
51-28-5	2, 4-Dinitrophenol	4100 U
100-02-7	4-Nitrophenol	4100 U
132-64-9	Dibenzofuran	850 U
121-14-2	2, 4-Dinitrotoluene	850 U
606-20-2	2, 6-Dinitrotoluene	850 U
84-66-2	Diethylphthalate	850 U
7005-72-3	4-Chlorophenyl-phenylether	850 U
86-73-7	Fluorene	850 U
100-01-6	4-Nitroaniline	4100 U
534-52-1	4, 6-Dinitro-2-Methylphenol	4100 U
86-30-6	N-Nitrosodiphenylamine(1)	850 U
101-55-3	4-Bromophenyl-phenylether	850 U
118-74-1	Hexachlorobenzene	850 U
87-86-5	Pentachlorophenol	4100 U
85-01-8	Phenanthrene	850 U
120-12-7	Anthracene	850 U
84-74-2	Di-n-Butylphthalate	850 U
206-44-0	Fluoranthene	850 U
129-00-0	Pyrene	850 U
85-68-7	Butylbenzylphthalate	850 U
91-94-1	3, 3'-Dichlorobenzidine	1700 U
56-55-3	Benzo(a)Anthracene	850 U
117-81-7	bis(2-Ethylhexyl)Phthalate	850 U
218-01-9	Chrysene	850 U
117-84-0	Di-n-Octyl Phthalate	850 U
205-99-2	Benzo(b)Fluoranthene	850 U
207-08-9	Benzo(k)Fluoranthene	850 U
50-32-8	Benzo(a)Pyrene	850 U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	850 U
53-70-3	Dibenz(a, h)Anthracene	850 U
191-24-2	Benzo(g, h, i)Perylene	850 U

(1)-Cannot be separated from diphenylamine 000023



Laboratory Name: Aquatec, Inc.

Case No: 6517

Sample Number

AF784

63945

## Organics Analysis Data Sheet

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### Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

GPC Cleanup  Yes  No

Date Extracted/Prepared: 30-OCT-86

Separatory Funnel Extraction  Yes

Date Analyzed: 07-NOV-86

Continuous Liquid - Liquid Extraction  Yes

(Conc) Dil Factor: 0.1165

Percent Moisture: (Decanted) 22.88

CAS Number		ug/l or <u>(ug/Kg)</u> (Circle One)
319-84-6	Alpha-BHC	100 U
319-85-7	Beta-BHC	100 U
319-86-8	Delta-BHC	100 U
58-89-9	Gamma-BHC (Lindane)	100 U
76-44-8	Heptachlor	100 U
309-00-2	Aldrin	100 U
1024-57-3	Heptachlor Epoxide	100 U
959-98-8	Endosulfan I	100 U
60-57-1	Dieldrin	210 U
72-55-9	4,4'-DDE	210 U
72-20-8	Endrin	210 U
33213-65-9	Endosulfan II	210 U
72-54-8	4,4'-DDD	210 U
1031-07-8	Endosulfan Sulfate	210 U
50-29-3	4,4'-DDT	210 U
72-43-5	Methoxychlor	1000 U
53494-70-5	Endrin Ketone	210 U
57-74-9	Chlordane	1000 U
8001-35-2	Toxaphene	2100 U
12674-11-2	Aroclor-1016	1000 U
11104-28-2	Aroclor-1221	1000 U
11141-16-5	Aroclor-1232	1000 U
53469-21-9	Aroclor-1242	1000 U
12672-29-6	Aroclor-1248	1000 U
11097-69-1	Aroclor-1254	2100 U
11096-82-5	Aroclor-1260	2100 U

$V_i$  = Volume of extract injected (ul)

$V_s$  = Volume of water extracted (ml)

$W_s$  = Weight of sample extracted (g)

$V_t$  = Volume of total extract (ul)

000024

$V_s$  \_\_\_\_\_ or  $W_s$  30.20 \_\_\_\_\_  $V_t$  200000 \_\_\_\_\_  $V_i$  3.2 \_\_\_\_\_

Laboratory Name: Aquatec, Inc.

Case No: 6517

Sample Number  
**AF 784**

**63945**

**Organics Analysis Data Sheet**  
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or (Scan) Number	Estimated Concentration (ug/l or ug/kg)
1. —	unknown hydrocarbon	VO	61	4,600 J
2.				
3.				
4.				
5.				
6. <u>68-12-2</u>	<u>N,N-dimethylformamide</u>	<u>BNA</u>	<u>505</u>	<u>73000 J</u>
7. <u>109-06-06</u>	<u>2-methylpyridine</u>	<u>BNA</u>	<u>580</u>	<u>2900 J</u>
8. <u>100-71-0</u>	<u>2-ethylpyridine</u>	<u>BNA</u>	<u>779</u>	<u>4000 J</u>
9. —	<u>Unknown</u>	<u>BNA</u>	<u>787</u>	<u>6400 J</u>
10. <u>67-71-0</u>	<u>Sulfolane</u>	<u>BNA</u>	<u>812</u>	<u>1100 J</u>
11. <u>100-69-6</u>	<u>2-ethylpyridine</u>	<u>BNA</u>	<u>837</u>	<u>18000 J</u>
12. <u>100-52-7</u>	<u>Benzaldehyde</u>	<u>BNA</u>	<u>884</u>	<u>1100 J</u>
13. —	<u>Unknown</u>	<u>BNA</u>	<u>906</u>	<u>1300 J</u>
14. —	<u>Unknown</u>	<u>BNA</u>	<u>948</u>	<u>2800 J</u>
15. —	<u>Unknown</u>	<u>BNA</u>	<u>954</u>	<u>3500 J</u>
16. <u>872-50-4</u>	<u>1-methyl-2-pyrrolidine</u>	<u>BNA</u>	<u>1006</u>	<u>1800 J</u>
17. —	<u>Adichlorocyclohexane isomer</u>	<u>BNA</u>	<u>1052</u>	<u>1100 J</u>
18. —	<u>Unknown</u>	<u>BNA</u>	<u>1139</u>	<u>700 J</u>
19. —	<u>Unknown</u>	<u>BNA</u>	<u>1164</u>	<u>620 J</u>
20. —	<u>Unknown</u>	<u>BNA</u>	<u>1242</u>	<u>1400 J</u>
21. <u>102-82-9</u>	<u>N,N-dibutyl-1-butamine</u>	<u>BNA</u>	<u>1253</u>	<u>2900 J</u>
22. —	<u>Dichloroacetylene isomer</u>	<u>BNA</u>	<u>1387</u>	<u>1100 J</u>
23. —	<u>Unknown</u>	<u>BNA</u>	<u>1528</u>	<u>2500 J</u>
24. —	<u>Unknown</u>	<u>BNA</u>	<u>1602</u>	<u>870 J</u>
25. —	<u>Unknown</u>	<u>BNA</u>	<u>1918</u>	<u>6100 J</u>
26.				
27.				
28.				
29.				
30.				

000025

## Organics Analysis Data Sheet

(Page 1)

Laboratory Name: Aquatec, Inc.Case No: 6517Lab Sample ID No: 63946QC Report No: 21Sample Matrix: SoilContract No: 68-01-7020Data Release Authorized By: [Signature]Date Sample Received: 29-OCT-86

## Volatile Compounds

Concentration: Low (Medium) (Circle One)Date Extracted/Prepared: 30-OCT-86Date Analyzed: 31-OCT-86Conc/Dil Factor: 943.6 pH         Percent Moisture: (Not Decanted) 27.96

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	7500 U
74-83-9	Bromomethane	7500 U
75-01-4	Vinyl Chloride	7500 U
75-00-3	Chloroethane	7500 U
75-09-2	Methylene Chloride	48000 B
67-64-1	Acetone	200000 B
75-15-0	Carbon Disulfide	3800 U
75-35-4	1,1-Dichloroethene	3800 U
75-34-3	1,1-Dichloroethane	3800 U
156-60-5	Trans-1,2-Dichloroethene	3800 U
67-66-3	Chloroform	4100
107-06-2	1,2-Dichloroethane	3800 U
78-93-3	2-Butanone	260000 B
71-55-6	1,1,1-Trichloroethane	3800 U
56-23-5	Carbon Tetrachloride	3800 U
108-05-4	Vinyl Acetate	7500 U
75-27-4	Bromodichloromethane	3800 U

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1,2-Dichloropropane	3800 U
10061-02-6	Trans-1,3-Dichloropropene	3800 U
79-01-6	Trichloroethene	4000
124-48-1	Dibromochloromethane	3800 U
79-00-5	1,1,2-Trichloroethane	13000
71-43-2	Benzene	8500
10061-01-5	cis-1,3-Dichloropropene	3800 U
110-75-8	2-Chloroethylvinylether	7500 U
75-25-2	Bromoform	3800 U
591-78-6	2-Hexanone	7500 U
108-10-1	4-Methyl-2-Pentanone	8300
127-18-4	Tetrachloroethene	1200 J
79-34-5	1,1,2,2-Tetrachloroethane	5900
108-88-3	Toluene	6400
108-90-7	Chlorobenzene	3800 U
100-41-4	Ethylbenzene	3800 U
100-42-5	Styrene	3800 U
	Total Xylenes	3800 U

## Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides  $\geq 10$  ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000026

Laboratory Name: Aquatec, Inc.

Case No: 6517

Sample Number

AF785

63946

## Organics Analysis Data Sheet

(Page 2)

### Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 30-OCT-86

Date Analyzed: 03-NOV-86

(Conc) Dil Factor: 10.84

Percent Moisture: (Decanted) 27.96

GPC Cleanup  Yes  No

Separatory Funnel Extraction  Yes

Continuous Liquid - Liquid Extraction  Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
108-95-2	Phenol	1900
111-44-4	bis(-2-Chloroethyl)Ether	910 U
95-57-8	2-Chlorophenol	910 U
541-73-1	1, 3-Dichlorobenzene	910 U
106-46-7	1, 4-Dichlorobenzene	910 U
100-51-6	Benzyl Alcohol	910 U
95-50-1	1, 2-Dichlorobenzene	910 U
95-48-7	2-Methylphenol	910 U
39638-32-9	bis(2-chloroisopropyl)Ether	910 U
106-44-5	4-Methylphenol	910 U
621-64-7	N-Nitroso-Di-n-Propylamine	910 U
67-72-1	Hexachloroethane	910 U
98-95-3	Nitrobenzene	910 U
78-59-1	Isophorone	2300
88-75-5	2-Nitrophenol	910 U
105-67-9	2, 4-Dimethylphenol	910 U
65-85-0	Benzoic Acid	8900
111-91-1	bis(-2-Chloroethoxy)Methane	910 U
120-83-2	2, 4-Dichlorophenol	910 U
120-82-1	1, 2, 4-Trichlorobenzene	910 U
91-20-3	Naphthalene	910 U
106-47-8	4-Chloroaniline	910 U
87-68-3	Hexachlorobutadiene	910 U
59-50-7	4-Chloro-3-Methylphenol	910 U
91-57-6	2-Methylnaphthalene	910 U
77-47-4	Hexachlorocyclopentadiene	910 U
88-06-2	2, 4, 6-Trichlorophenol	910 U
95-95-4	2, 4, 5-Trichlorophenol	4400 U
91-58-7	2-Chloronaphthalene	910 U
88-74-4	2-Nitroaniline	4400 U
131-11-3	Dimethyl Phthalate	910 U
208-96-8	Acenaphthylene	910 U
99-09-2	3-Nitroaniline	4400 U

CAS Number		ug/l or (ug/Kg) (Circle One)
83-32-9	Acenaphthene	910 U
51-28-5	2, 4-Dinitrophenol	4400 U
100-02-7	4-Nitrophenol	4400 U
132-64-9	Dibenzofuran	910 U
121-14-2	2, 4-Dinitrotoluene	910 U
606-20-2	2, 6-Dinitrotoluene	910 U
84-66-2	Diethylphthalate	910 U
7005-72-3	4-Chlorophenyl-phenylether	910 U
86-73-7	Fluorene	910 U
100-01-6	4-Nitroaniline	4400 U
534-52-1	4, 6-Dinitro-2-Methylphenol	4400 U
86-30-6	N-Nitrosodiphenylamine(1)	910 U
101-55-3	4-Bromophenyl-phenylether	910 U
118-74-1	Hexachlorobenzene	910 U
87-86-5	Pentachlorophenol	4400 U
85-01-8	Phenanthrene	910 U
120-12-7	Anthracene	910 U
84-74-2	Di-n-Butylphthalate	910 U
206-44-0	Fluoranthene	910 U
129-00-0	Pyrene	910 U
85-68-7	Butylbenzylphthalate	910 U
91-94-1	3, 3'-Dichlorobenzidine	1800 U
56-55-3	Benzo(a)Anthracene	910 U
117-81-7	bis(2-Ethylhexyl)Phthalate	910 U
218-01-9	Chrysene	910 U
117-84-0	Di-n-Octyl Phthalate	910 U
205-99-2	Benzo(b)Fluoranthene	910 U
207-08-9	Benzo(k)Fluoranthene	910 U
50-32-8	Benzo(a)Pyrene	910 U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	910 U
53-70-3	Dibenz(a, h)Anthracene	910 U
191-24-2	Benzo(g, h, i)Perylene	910 U

(1)-Cannot be separated from diphenylamine 000027

Laboratory Name: Aquatec, Inc.

Case No: 6517

Sample Number  
AF785

63946

### Organics Analysis Data Sheet

(Page 3)

#### Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

GPC Cleanup  Yes  No

Date Extracted/Prepared: 30-OCT-86

Separatory Funnel Extraction  Yes

Date Analyzed: 17-NOV-86

Continuous Liquid - Liquid Extraction  Yes

(Conc) Dil Factor: 0.1084

Percent Moisture: (Decanted) 27.96

CAS Number		ug/l or <u>(ug/Kg)</u> (Circle One)
319-84-6	Alpha-BHC	110 U
319-85-7	Beta-BHC	110 U
319-86-8	Delta-BHC	110 U
58-89-9	Gamma-BHC (Lindane)	110 U
76-44-8	Heptachlor	110 U
309-00-2	Aldrin	110 U
1024-57-3	Heptachlor Epoxide	110 U
959-98-8	Endosulfan I	110 U
60-57-1	Dieldrin	220 U
72-55-9	4,4'-DDE	220 U
72-20-8	Endrin	220 U
33213-65-9	Endosulfan II	220 U
72-54-8	4,4'-DDD	220 U
1031-07-8	Endosulfan Sulfate	220 U
50-29-3	4,4'-DDT	220 U
72-43-5	Methoxychlor	1100 U
53494-70-5	Endrin Ketone	220 U
57-74-9	Chlordane	1100 U
8001-35-2	Toxaphene	2200 U
12674-11-2	Aroclor-1016	1100 U
11104-28-2	Aroclor-1221	1100 U
11141-16-5	Aroclor-1232	1100 U
53469-21-9	Aroclor-1242	1100 U
12672-29-6	Aroclor-1248	1100 U
11097-69-1	Aroclor-1254	2200 U
11096-82-5	Aroclor-1260	2200 U

$V_i$  = Volume of extract injected (ul)

$V_s$  = Volume of water extracted (ml)

$W_s$  = Weight of sample extracted (g)

$V_t$  = Volume of total extract (ul)

000028

$V_s$  \_\_\_\_\_ or  $W_s$  30.10 \_\_\_\_\_  $V_t$  200000 \_\_\_\_\_  $V_i$  3.2 \_\_\_\_\_

Laboratory Name: Aquatec, Inc.

Case No: 6517

Sample Number  
**AF785**

**Organics Analysis Data Sheet**  
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or (Scan) Number	Estimated Concentration (ug/l or ug/kg)
1. —	unknown	VO	144	5700 J
2. 123-19-3	2-heptanone	VO	497	14,000 J
3. 109-99-9	tetrahydrofuran	VO	182	4,900 J
4. —				
5. —				
6. 1615-79-9	2,4-pentadienenitrile	BNA	374	78,000 J
7. 68-12-2	N,N-dimethylformamide	BNA	527	200,000 J
8. 67-68-5	Dimethylsulfoxide	BNA	640	960 J
9. —	Adel condensation product	BNA	666	10,000 JB
10. —	Unknown alkane	BNA	716	2100 JB
11. 110-43-0	2 heptanone	BNA	758	5500 J
12. 108-94-1	Cyclohexanone	BNA	763	3600 J
13. —	Unknown	BNA	791	9200 J
14. 100-52-7	Benzaldehyde	BNA	884	770 J
15. —	Unknown	BNA	995	22,000 J
16. 872-50-4	1-methyl-2-pyrrolidinone	BNA	1014	2100 J
17. —	Unknown	BNA	1019	940 J
18. 1824-81-3	6-methyl-2-pyridinamine	BNA	1057	870 J
19. 149-57-5	2-ethylhexanoic acid	BNA	1135	530 J
20. 112-34-5	2-(2-butoxyethoxy)ethanol	BNA	1213	10,000 J
21. 102-82-9	N,N-dibutyl-1-butanamine	BNA	1236	62,000 J
22. —	Unknown	BNA	1708	1500 J
23. —	Unknown	BNA	1725	980 J
24. —	Unknown	BNA	1746	810 J
25. —	Unknown	BNA	1801	850 J
26. —				
27. —				
28. —				
29. —				
30. —				

000029

U. S. EPA Contract Laboratory Program  
 Sample Management Office  
 P.O. Box 918 - Alexandria, VA 22313  
 703/557-2490 FTS: B-557-2490

EPA Sample No.:  
 MA5763

MW 405

Date: 11/26/86

INORGANIC ANALYSIS DATA SHEET

LAB NAME: CAMBRIDGE Analytical Associates      CASE NO. Case 6517  
 SOW NO.: 785  
 LAB SAMPLE ID. NO.: 6610150-01      GC REPORT NO. 6610150

Elements Identified and Measured

Concentration:      Low              Medium         
 Matrix: Water        Soil              Sludge             Other       

mg/Kg dry weight

1	Aluminum	4670	P	13	Magnesium	1490	P
2	Antimony	15U	F	14	Manganese	53	F
3	Arsenic	3.5*	F	15	Mercury	0.10N	
4	Barium	12U	P	16	Nickel	7.1U	P
5	Beryllium	1.3UN	P	17	Potassium	[770]	P
6	Cadmium	1.3U	F	18	Selenium	1.3U	F
7	Calcium	[922]	P	19	Silver	2.5UN	P
8	Chromium	7.2	P	20	Sodium	[210]	P
9	Cobalt	10U	P	21	Thallium	2.5U	F
10	Copper	8.9	P	22	Vanadium	[7.3]	P
11	Iron	5170	P	23	Zinc	12	P
12	Lead	4.0	F	24			

Cyanide      Percent solids (%)      78

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

*Sample description:*

*Sandy, watery, yellow-brown, Medium, no artifacts*

Lab Manager *Hauim Chader*

0003

U. S. EPA Contract Laboratory Program  
 Sample Management Office  
 P.O. Box 318 - Alexandria, VA 22313  
 703/557-2490 FTS: 8-557-2490

EPA Sample No.:  
 MAD784

*MW 406 (S-5)*

Date: 11/25/86

INORGANIC ANALYSIS DATA SHEET

LAB NAME: CAMBRIDGE Analytical Associates      CASE NO. Case 6517  
 SDW NO.: 785  
 LAB SAMPLE ID. NO.: 8510168-01      QC REPORT NO. 8510168

Elements Identified and Measured

Concentration:      Low       Medium   
 Matrix: Water       Soil       Sludge       Other

mg/Kg dry weight

1	Aluminum	9060	F	13	Magnesium	2280	F
2	Antimony	150 <sup>u</sup>	F	14	Manganese	137 <sup>e</sup>	F
3	Arsenic	5.2 *	F	15	Mercury	0.10N	
4	Barium	[30]	P	16	Nickel	17	F
5	Beryllium	1.20N	F	17	Potassium	1490	F
6	Cadmium	1.30	F	18	Selenium	1.30	F
7	Calcium	18111 <sup>e</sup>	F	19	Silver	2.50N	F
8	Chromium	317	P	20	Sodium	[152]	F
9	Cobalt	10.00	P	21	Thallium	2.50	F
10	Copper	320	P	22	Vanadium	15	F
11	Iron	10000 <sup>e</sup>	P	23	Zinc	33 <sup>e</sup>	F
12	Lead	3.0 S <del>7.25</del>	F	24			

Cyanide      1.4 u      Percent solids (%)      75

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

*Sample description:*

*Sandy, watery, yellow-brown, medium, no artifacts*

Lab Manager *David H. Choler*



U. S. EPA Contract Laboratory Program  
 Sample Management Office  
 P.O. Box 818 - Alexandria, VA 22313  
 703/557-2490 FTS: 8-557-2490

EPA Sample No. MAD765

*MW-412 (S-8)*

Date: 11/25/86

INORGANIC ANALYSIS DATA SHEET

LAB NAME: CAMBRIDGE Analytical Associates CASE NO. Case 6817  
 SQW NO.: 795  
 LAB SAMPLE ID. NO.: 8610168-22 QC REPORT NO. 8610168

Elements Identified and Measured

Concentration: Low  Medium  Other   
 Matrix: Water  Soil  Sludge  Other

mg/Kg dry weight

1	Aluminum	12600	P	13	Magnesium	3590	P
2	Antimony	160 <sup>✓</sup> <sub>✓</sub>	F	14	Manganese	234 <sup>✓</sup> <sub>✓</sub>	F
3	Arsenic	6.2 <sup>+</sup>	F	15	Mercury	0.10UN	
4	Barium	[46]	F	16	Nickel	19	F
5	Beryllium	1.4UN	P	17	Potassium	2580	F
6	Cadmium	1.4U	F	18	Selenium	1.4U	F
7	Calcium	1860 <sup>✓</sup> <sub>✓</sub>	P	19	Silver	2.9UN	F
8	Chromium	18	P	20	Sodium	[459]	F
9	Cobalt	11U	P	21	Thallium	2.7U	F
10	Copper	15	P	22	Vanadium	24	F
11	Iron	16100 <sup>✓</sup> <sub>✓</sub>	F	23	Zinc	41 <sup>✓</sup> <sub>✓</sub>	F
12	Lead	<del>2.75</del> 7.00 <sup>✓</sup> <sub>✓</sub>	F	24			

Cyanide 1.4 u Percent solids (%) 71

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

*yellow-brown - fine clay - no artifacts*

Lab Manager *Maureen Chuder*