81860

SAMPLE: ET983RE

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852-8

QC REPORT NO.: 243 ANALYST: CEB DATAFILE: EU08036C11A

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
4367-34-3	PROPANOIC ACID, 2-METHYL-, 3-HYDROXY-2,4,	928	882	23 JB
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1566		41 J

J = ESTIMATED VALUE - A 1:1 RESPONSE FACTOR IS ASSUMED

B = COMPOUND DETECTED IN QC BLANK

EM445RE

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: SPECTRIX / HOUSTON
Case No: 7852
Lab Sample ID No: 870803609A
QC Report No: 243
Sample Matrix: WATER
Contract No: 68-01-7149
Data Release Authorized By:
Date Sample Received: 08/11/87

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 09/09/87
Date Analyzed: 10/9/87
Conc/Dil Factor: 1.0 pH —
Percent Moisture: —
Percent Moisture (Decanted): —

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

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

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 actions. (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)

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.

SPECTRIX QC# 7852-5-8

Laboratory Name: SPECTRIX
Case No: 7852-

Sample Number
EM445RE

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 09/09/87
Date Analyzed: 10/01/87
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction _✓_ Yes

CAS Number		ug/L	
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
3[illegible]-32-9	bis(2-Chloroisopropyl)Ether	10	U
10[illegible]-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
1[illegible]-67-9	2,4-Dimethylphenol	10	U
6[illegible]35-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	50	U

CAS Number		ug/L	
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	3	J
218-01-9	Chrysene	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from diphenylamine

oratory Name SPECTRIX HOUSTON

se No 62-01-6798, 6865 7149

Sample Number
EM445RG

Organics Analysis Data Sheet SPECTRIX D.C. No. 7852-5-8
(Page 3)

OVER
AGE
ONLY

Pesticide/PCBs

ncentration. (Low) Medium (Circle One)

te Extracted/Prepared 09/09/87

te Analyzed. 10/01/87

inc/Dil Factor 1.0

ercent Moisture (decanted) —

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

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 _____ V_t _____ V_i _____

No. 68-01-7149

EM445RE

VER PAGE NLY

Organics Analysis Data Sheet
(Page 4)

SPECTRIX DC # 7852-5-8

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
	SEARCH NOT REQUIRED	✓		

Form 1, Part 3

SAMPLE: EM445RE

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852-8

QC REPORT NO.: 243 ANALYST: CEB DATAFILE: EU08036C09A

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	927		21 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1046		4 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1137		19 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1283		6 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1339		4 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1590		5 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	2163		7 J

J = ESTIMATED VALUE - A 1:1 RESPONSE FACTOR IS ASSUMED

SPECTRIX DC # 7852-2-2

ET984RE

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: SPECTRIX / HOUSTON

Case No: 7852

Lab Sample ID No: 8708036 12A

QC Report No: 243

Sample Matrix: WATER

Contract No: 68-01-7149

Data Release Authorized By:

Date Sample Received: 08/11/87

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 09/09/87

Date Analyzed: 10/01/87

Conc/Dil Factor: 1.0 pH —

Percent Moisture: —

Percent Moisture (Decanted): —

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

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

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 actions. (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.

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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.

SPECTRIX QC # 7852-5-8

Laboratory Name: SPECTRIX
Case No: 7852-

Sample Number
ET984RE

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 09/09/87
Date Analyzed: 10/01/87
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction _/_ Yes

CAS Number		ug/L		CAS Number		ug/L	
108-95-2	Phenol	10	U	83-32-9	Acenaphthene	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U	51-28-5	2,4-Dinitrophenol	50	U
95-57-8	2-Chlorophenol	10	U	100-02-7	4-Nitrophenol	50	U
541-73-1	1,3-Dichlorobenzene	10	U	132-64-9	Dibenzofuran	10	U
106-46-7	1,4-Dichlorobenzene	10	U	121-14-2	2,4-Dinitrotoluene	10	U
100-51-6	Benzyl Alcohol	10	U	606-20-2	2,6-Dinitrotoluene	10	U
95-50-1	1,2-Dichlorobenzene	10	U	84-66-2	Diethylphthalate	10	U
95-48-7	2-Methylphenol	10	U	7005-72-3	4-Chlorophenyl-phenylether	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U	86-73-7	Fluorene	10	U
106-44-5	4-Methylphenol	10	U	100-10-6	4-Nitroaniline	50	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U	534-52-1	4,6-Dinitro-2-Methylphenol	50	U
67-72-1	Hexachloroethane	10	U	86-30-6	N-Nitrosodiphenylamine (1)	10	U
98-95-3	Nitrobenzene	10	U	101-55-3	4-Bromophenyl-phenylether	10	U
78-59-1	Isophorone	10	U	118-74-1	Hexachlorobenzene	10	U
88-75-5	2-Nitrophenol	10	U	87-86-5	Pentachlorophenol	50	U
105-67-9	2,4-Dimethylphenol	10	U	85-01-8	Phenanthrene	10	U
65-85-0	Benzoic Acid	50	U	120-12-7	Anthracene	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U	84-74-2	Di-n-Butylphthalate	10	U
120-83-2	2,4-Dichlorophenol	10	U	206-44-0	Fluoranthene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U	129-00-0	Pyrene	10	U
91-20-3	Naphthalene	10	U	85-68-7	Butylbenzylphthalate	10	U
106-47-8	4-Chloroaniline	10	U	91-94-1	3,3'-Dichlorobenzidine	20	U
87-68-3	Hexachlorobutadiene	10	U	56-55-3	Benzo(a)Anthracene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U	117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
91-57-6	2-Methylnaphthalene	10	U	218-01-9	Chrysene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U	117-84-0	Di-n-Octyl Phthalate	10	U
88-06-2	2,4,6-Trichlorophenol	10	U	205-99-2	Benzo(b)Fluoranthene	10	U
95-95-4	2,4,5-Trichlorophenol	50	U	207-08-9	Benzo(k)Fluoranthene	10	U
91-58-7	2-Chloronaphthalene	10	U	50-32-8	Benzo(a)Pyrene	10	U
88-74-4	2-Nitroaniline	50	U	193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
131-11-3	Dimethyl Phthalate	10	U	53-70-3	Dibenz(a,h)Anthracene	10	U
208-96-8	Acenaphthylene	10	U	191-24-2	Benzo(g,h,i)Perylene	10	U
99-09-2	3-Nitroaniline	50	U				

(1) - Cannot be separated from diphenylamine

Laboratory Name SPECTRIX HOUSTON

Case No 68-01-6798, 6868 7149

Sample Number ET984RE

OVER PAGE ONLY

Organics Analysis Data Sheet (Page 3)

SPECTRIX D.C. No. 7852-5-

Pesticide/PCBs

Concentration. Low Medium (Circle One)

Date Extracted/Prepared 09/09/87

Date Analyzed. 10/01/87

Conc/Dil Factor 1.0

Percent Moisture (decanted) —

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

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 _____ V_t _____ V_i _____

No: 68-01-7149

Sample Number: ET984RE

VER PAGE NLY

Organics Analysis Data Sheet
(Page 4)

SPECTRIX DC# 7852-5-8

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
	SEARCH NOT REQUIRED	✓		

Form 1, Part B

SAMPLE: ET984RE

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

QC REPORT NO.: 243 ANALYST: CEB DATAFILE: EU08036C12A

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
76-2	ETHANOL, 2-BUTOXY-	350	779	6 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	687		4 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	760		4 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	802		6 J
105-60-2	CAPROLACTAM	891	921	3200 J
7-34-3	PROPANOIC ACID, 2-METHYL-, 3-HYDROXY-2,4,	941	788	8 JB
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1193		7 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1576		94 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	2384		100 J

J = ESTIMATED VALUE - A 1:1 RESPONSE FACTOR IS ASSUMED

B = COMPOUND DETECTED IN QC BLANK

SPECTRIX DC = 7852-3-5

ET985RE

Organics Analysis Data Sheet
(Page 1)

oratory Name: SPECTRIX / HOUSTON

Case No: 7852

ab Sample ID No: 870803 IA 06A

QC Report No: 243

Sample Matrix: WATER

Contract No: 68-D1-7149

Data Release Authorized By: TTD

Date Sample Received: 08/11/87

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 09/09/87

Date Analyzed: 10/01/87

Conc/Dil Factor: 1.0 pH —

Percent Moisture: —

Percent Moisture (Decanted): —

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

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

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 actions. (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)

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.

SPECTRIX DC # 7852-5-8

Laboratory Name: SPECTRIX
Case No: 7852-

Sample Number
E1985RE

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 09/09/87
Date Analyzed: 10/01/87
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction _✓_ Yes

CAS Number		ug/L	
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	50	U

CAS Number		ug/L	
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	37	B
218-01-9	Chrysene	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from diphenylamine

Laboratory Name SPECTRIX HOUSTON

Case No 68-01-6798, 5265 [illegible] (7149)

Sample Number ET985RE

OVER PAGE ONLY

Organics Analysis Data Sheet
(Page 3)

SPECTRIX D.C. No. 7852-54

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared 09/09/87

Date Analyzed 10/01/87

Conc/Dil Factor 1.0

Percent Moisture (decanted) —

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

V_e = 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 _____ V_t _____ V_e _____

No. 6801-7149

ET98SRE

VER PAGE NLY

Organics Analysis Data Sheet
(Page 4)

SPECTRIX DC # 7852-5-8

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	SEARCH NOT REQUIRED	✓		
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

SAMPLE: ET985RE

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852-8

QC REPORT NO.: 243 ANALYST: CEB DATAFILE: EU08036C06A

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	639		7 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	803		4 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	828		4 J
05-60-2	CAPROLACTAM	864	912	1500 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1569		68 J

J = ESTIMATED VALUE - A 1:1 RESPONSE FACTOR IS ASSUMED

SPECTRIX DC # 7852-5-8

Sample Number
ET987EC

Organics Analysis Data Sheet
(Page 1)

ıoratory Name: SPECTRIX / HOUSTON
Case No: 7852
ab Sample ID No: 870803613A
QC Report No: 243
Sample Matrix: WATER
Contract No: 68-01-7149
Data Release Authorized By: [illegible]
Date Sample Received: 08/11/87

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 09/09/87
Date Analyzed: 10/02/87
Conc/Dil Factor: 1.0 pH —
Percent Moisture: —
Percent Moisture (Decanted): —

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

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

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 actions. (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)

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.

SPECTRIX DC# 7852-S-8

Laboratory Name: SPECTRIX
Case No: 7852-

Sample Number
ET987RE

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 09/09/87
Date Analyzed: 10/02/87
Conc/Dil Factor: 1.
Pa nt Moisture: (Decanted)

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction _/_ Yes

CAS Number		ug/L	
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether .	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene . . .	10	U
106-46-7	1,4-Dichlorobenzene . . .	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene . . .	10	U
95-48-7	2-Methylphenol	10	U
1-32-9	bis(2-Chloroisopropyl)Ether	10	U
06-44-5	4-Methylphenol	10	U
21-64-7	N-Nitroso-Di-n-Propylamine	10	U
-72-1	Hexachloroethane	10	U
-95-3	Nitrobenzene	10	U
-59-1	Isophorone	10	U
-5	2-Nitrophenol	10	U
	2,4-Dimethylphenol	10	U
	Benzoic Acid	50	U
	bis(2-Chloroethoxy)Methane	10	U
	2,4-Dichlorophenol	10	U
	1,2,4-Trichlorobenzene . .	10	U
	Naphthalene	10	U
	Chloroaniline	10	U
	achlorobutadiene . . .	10	U
	loro-3-Methylphenol .	10	U
	-methylnaphthalene . . .	10	U
	achlorocyclopentadiene	10	U
	6-Trichlorophenol . .	10	U
	Trichlorophenol . .	50	U
	ronaphthalene . . .	10	U
	aniline	50	U
	Phthalate	10	U
	lene	10	U
	ine	50	U

CAS Number		ug/L	
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	4	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate . . .	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate . . .	10	U
91-94-1	3,3'-Dichlorobenzidine . .	20	U
56-55-3	Benzo(a)Anthracene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2	J
218-01-9	Chrysene	10	U
117-84-0	Di-n-Octyl Phthalate . . .	10	U
205-99-2	Benzo(b)Fluoranthene . . .	10	U
207-08-9	Benzo(k)Fluoranthene . . .	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene . .	10	U
53-70-3	Dibenz(a,h)Anthracene . .	10	U
191-24-2	Benzo(g,h,i)Perylene . . .	10	U

om diphenylamine

Form I

Laboratory Name SPECTRIX HOUSTON

Case No 68-01-6798, 5685 7149

Sample Number ET987RE

OVER PAGE ONLY

Organics Analysis Data Sheet (Page 3) SPECTRIX D.C. No. 7852-5-8

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 09/09/87

Date Analyzed 10/02/87

Conc/Dil Factor 1.0

Percent Moisture (decanted) —

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

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 _____ V_t _____ V_i _____

No 6E01-7149

Sample Number
ET987RE

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PAGE
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Organics Analysis Data Sheet
(Page 4)

SPECTRIX DC# 7852-5-8

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
	SEARCH NOT REQUIRED	✓		
0.				
2.				
3.				
4.				
5				
6.				
7.				
18.				
19.				
20				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

SAMPLE: ET987RE

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852-8

QC REPORT NO.: 243 ANALYST: CEB DATAFILE: EU08036C13A

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	634		21 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	677		9 J
112-34-5	ETHANOL, 2-(2-BUTOXYETHOXY)-	754	825	16 J
105-60-2	CAPROLACTAM	898	924	2900 J
74367-34-5	PROPANOIC ACID, 2-METHYL-, 3-HYDROXY-2,4,	946	876	35 JB
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1084		8 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1285		33 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1450		7 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1482		24 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1591		65 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1630		32 J

J = ESTIMATED VALUE - A 1:1 RESPONSE FACTOR IS ASSUMED

B = COMPOUND DETECTED IN QC BLANK

SPECTRIX DC # 7552-5-8

Sample Number
ET988 RE

Organics Analysis Data Sheet
(Page 1)

oratory Name: SPECTRIX / HOUSTON
Case No: 7852
ab Sample ID No: 8708036 14A
QC Report No: 243
Sample Matrix: WATER
Contract No: 68-01-7149
Data Release Authorized By: TTD
Date Sample Received: 08/11/87

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 09/09/87
Date Analyzed: 10/02/87
Conc/Dil Factor: 1.0 pH —
Percent Moisture: —
Percent Moisture (Decanted): —

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

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

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 actions. (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

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.

SPECTRIX DC # 7852-5-8

Laboratory Name: SPECTRIX
Case No: 7852-

Sample Number
E7988RE

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 09/09/87
Date Analyzed: 10/02/87
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction _✓_ Yes

CAS Number		ug/L		CAS Number		ug/L	
108-95-2	Phenol	10	U	83-32-9	Acenaphthene	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U	51-28-5	2,4-Dinitrophenol	50	U
95-57-8	2-Chlorophenol	10	U	100-02-7	4-Nitrophenol	50	U
541-73-1	1,3-Dichlorobenzene	10	U	132-64-9	Dibenzofuran	10	U
106-46-7	1,4-Dichlorobenzene	10	U	121-14-2	2,4-Dinitrotoluene	10	U
100-51-6	Benzyl Alcohol	10	U	606-20-2	2,6-Dinitrotoluene	10	U
95-50-1	1,2-Dichlorobenzene	10	U	84-66-2	Diethylphthalate	10	U
95-48-7	2-Methylphenol	10	U	7005-72-3	4-Chlorophenyl-phenylether	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	10	U	86-73-7	Fluorene	10	U
106-44-5	4-Methylphenol	10	U	100-10-6	4-Nitroaniline	50	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U	534-52-1	4,6-Dinitro-2-Methylphenol	50	U
67-72-1	Hexachloroethane	10	U	86-30-6	N-Nitrosodiphenylamine (1)	10	U
98-95-3	Nitrobenzene	10	U	101-55-3	4-Bromophenyl-phenylether	10	U
78-59-1	Isophorone	10	U	118-74-1	Hexachlorobenzene	10	U
88-75-5	2-Nitrophenol	10	U	87-86-5	Pentachlorophenol	50	U
105-67-9	2,4-Dimethylphenol	10	U	85-01-8	Phenanthrene	10	U
65-85-0	Benzoic Acid	50	U	120-12-7	Anthracene	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U	84-74-2	Di-n-Butylphthalate	10	U
120-83-2	2,4-Dichlorophenol	10	U	206-44-0	Fluoranthene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U	129-00-0	Pyrene	10	U
91-20-3	Naphthalene	10	U	85-68-7	Butylbenzylphthalate	10	U
106-47-8	4-Chloroaniline	10	U	91-94-1	3,3'-Dichlorobenzidine	20	U
87-68-3	Hexachlorobutadiene	10	U	56-55-3	Benzo(a)Anthracene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U	117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
91-57-6	2-Methylnaphthalene	10	U	218-01-9	Chrysene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U	117-84-0	Di-n-Octyl Phthalate	10	U
88-06-2	2,4,6-Trichlorophenol	10	U	205-99-2	Benzo(b)Fluoranthene	10	U
95-95-4	2,4,5-Trichlorophenol	50	U	207-08-9	Benzo(k)Fluoranthene	10	U
91-58-7	2-Chloronaphthalene	10	U	50-32-8	Benzo(a)Pyrene	10	U
88-74-4	2-Nitroaniline	50	U	193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
131-11-3	Dimethyl Phthalate	10	U	53-70-3	Dibenz(a,h)Anthracene	10	U
208-96-8	Acenaphthylene	10	U	191-24-2	Benzo(g,h,i)Perylene	10	U
99-09-2	3-Nitroaniline	50	U				

(1) - Cannot be separated from diphenylamine

Laboratory Name SPECTRIX HOUSTON

Case No 68-01-6798, 5669 [illegible] 7149

Sample Number ET988RE

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Organics Analysis Data Sheet
(Page 3)

SPECTRIX O.C. No. 7852-5-6

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 09/09/87

Date Analyzed 10/02/87

Conc/Dil Factor 1.0

Percent Moisture (decanted) —

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

V_t = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_i = Volume of total extract (ul)

V_s _____ or W_s _____ V_i _____ V_t _____

No 6E01-7149

Sample Number
ET988RE

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PAGE
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Organics Analysis Data Sheet
(Page 4)

SPECTRIX DC# 7852-5-8

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	SEARCH NOT REQUIRED	V		
2.				
3.				
4.				
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SAMPLE: ET988RE

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852-8

GC REPORT NO.: 243 ANALYST: CEB DATAFILE: EU08036C14A

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	758		9 J
105-60-2	CAPROLACTAM	891	860	3200 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	947		14 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1083		13 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1294		16 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1484		11 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1576		75 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	2367		35 J

J = ESTIMATED VALUE - A 1:1 RESPONSE FACTOR IS ASSUMED

SPECTRIX DC = 7552-5-8

ET989RE

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: SPECTRIX / HOUSTON

Case No: 7852

Lab Sample ID No: 8708036 36A

QC Report No: 243

Sample Matrix: WATER

Contract No: 68-01-7149

Data Release Authorized By: TTD

Date Sample Received: 08/11/87

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 09/09/87

Date Analyzed: 10/02/87

Conc/Dil Factor: 1.0 pH —

Percent Moisture: —

Percent Moisture (Decanted): —

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

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

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 actions. (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)

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.

SPECTRIX DC# 7852-5-8

Laboratory Name: SPECTRIX
Case No: 7852-

Sample Number
ETSB3KE

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 09/09/87
Date Analyzed: 10/02/87
Conc/Dil Factor: 1.
P ent Moisture: (Decanted)

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction _✓_ Yes

CAS Number		ug/L		CAS Number		ug/L	
108-95-2	Phenol	10	U	83-32-9	Acenaphthene	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U	51-28-5	2,4-Dinitrophenol	50	U
95-57-8	2-Chlorophenol	10	U	100-02-7	4-Nitrophenol	50	U
541-73-1	1,3-Dichlorobenzene	10	U	132-64-9	Dibenzofuran	10	U
106-46-7	1,4-Dichlorobenzene	10	U	121-14-2	2,4-Dinitrotoluene	10	U
100-51-6	Benzyl Alcohol	10	U	606-20-2	2,6-Dinitrotoluene	10	U
95-50-1	1,2-Dichlorobenzene	10	U	84-66-2	Diethylphthalate	10	U
95-48-7	2-Methylphenol	10	U	7005-72-3	4-Chlorophenyl-phenylether	10	U
3 3-32-9	bis(2-Chloroisopropyl)Ether	10	U	86-73-7	Fluorene	10	U
10 44-5	4-Methylphenol	10	U	100-10-6	4-Nitroaniline	50	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U	534-52-1	4,6-Dinitro-2-Methylphenol	50	U
67-72-1	Hexachloroethane	10	U	86-30-6	N-Nitrosodiphenylamine (1)	10	U
98-95-3	Nitrobenzene	10	U	101-55-3	4-Bromophenyl-phenylether	10	U
78-59-1	Isophorone	10	U	118-74-1	Hexachlorobenzene	10	U
8 75-5	2-Nitrophenol	10	U	87-86-5	Pentachlorophenol	50	U
1 -67-9	2,4-Dimethylphenol	10	U	85-01-8	Phenanthrene	10	U
65-85-0	Benzoic Acid	50	U	120-12-7	Anthracene	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U	84-74-2	Di-n-Butylphthalate	10	U
120-83-2	2,4-Dichlorophenol	10	U	206-44-0	Fluoranthene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U	129-00-0	Pyrene	10	U
91-20-3	Naphthalene	10	U	85-68-7	Butylbenzylphthalate	10	U
106-47-8	4-Chloroaniline	10	U	91-94-1	3,3'-Dichlorobenzidine	20	U
87-68-3	Hexachlorobutadiene	10	U	56-55-3	Benzo(a)Anthracene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U	117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
91-57-6	2-Methylnaphthalene	10	U	218-01-9	Chrysene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U	117-84-0	Di-n-Octyl Phthalate	10	U
88-06-2	2,4,6-Trichlorophenol	10	U	205-99-2	Benzo(b)Fluoranthene	10	U
95-95-4	2,4,5-Trichlorophenol	50	U	207-08-9	Benzo(k)Fluoranthene	10	U
91-58-7	2-Chloronaphthalene	10	U	50-32-8	Benzo(a)Pyrene	10	U
88-74-4	2-Nitroaniline	50	U	193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
131-11-3	Dimethyl Phthalate	10	U	53-70-3	Dibenz(a,h)Anthracene	10	U
208-96-8	Acenaphthylene	10	U	191-24-2	Benzo(g,h,i)Perylene	10	U
99-09-2	3-Nitroaniline	50	U				

(1) - Cannot be separated from diphenylamine

oratory Name SPECTRIX HOUSTON

se No 68-01-6798, 6863 7149

Sample Number
ET989RE

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Organics Analysis Data Sheet
(Page 3)

SPECTRIX D.C. No. 7852-5-8

Pesticide/PCBs

ncentration. Low Medium (Circle One)

te Extracted/Prepared 09/09/87

te Analyzed. 10/02/87

ne/Dil Factor 1.0

ercent Moisture (decanted) —

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

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 _____ V_i _____ V_t _____

No. 6E01-7149

ET989RE

VER PAGE ONLY

Organics Analysis Data Sheet
(Page 4)

SPECTRIX DC# 7852-5-8

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.				
2.				
3.	SEARCH NOT REQUIRED	✓		
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
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29.				
30.				

SAMPLE: ET989RE

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852-8

QC REPORT NO.: 243 ANALYST: CEB DATAFILE: EU08036C36A

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
105-60-2	CAPROLACTAM	950	923	9700 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1199		29 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1608		310 J

J = ESTIMATED VALUE - A 1:1 RESPONSE FACTOR IS ASSUMED

SPECTRIX DC = 7852-2-6

ET990RE

Organics Analysis Data Sheet
(Page 1)

oratory Name: SPECTRIX / HOUSTON

Case No: 7852

ab Sample ID No: 87080365A

QC Report No: 243

Sample Matrix: WATER

Contract No: 68-D1-7149

Data Release Authorized By:

Date Sample Received: 08/11/87

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 09/09/87

Date Analyzed: 10/02/87

Conc/Dil Factor: 1.0 pH —

Percent Moisture: —

Percent Moisture (Decanted): —

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

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

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 actions. (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)

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.

SPECTRIX DC#7852-5-6

Laboratory Name: SPECTRIX
Case No: 7852-

Sample Number
ET990KE

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 09/09/87
Date Analyzed: 10/02/87
Conc/Dil Factor: 1.
Pe[illegible]nt Moisture: (Decanted)

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction _✓_ Yes

CAS Number		ug/L		CAS Number		ug/L	
108-95-2	Phenol	10	U	83-32-9	Acenaphthene	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U	51-28-5	2,4-Dinitrophenol	50	U
95-57-8	2-Chlorophenol	10	U	100-02-7	4-Nitrophenol	50	U
541-73-1	1,3-Dichlorobenzene	10	U	132-64-9	Dibenzofuran	10	U
106-46-7	1,4-Dichlorobenzene	10	U	121-14-2	2,4-Dinitrotoluene	10	U
100-51-6	Benzyl Alcohol	10	U	606-20-2	2,6-Dinitrotoluene	10	U
95-50-1	1,2-Dichlorobenzene	10	U	84-66-2	Diethylphthalate	10	U
95-48-7	2-Methylphenol	10	U	7005-72-3	4-Chlorophenyl-phenylether	10	U
3[illegible]-32-9	bis(2-Chloroisopropyl)Ether	10	U	86-73-7	Fluorene	10	U
10[illegible]-44-5	4-Methylphenol	10	U	100-10-6	4-Nitroaniline	50	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U	534-52-1	4,6-Dinitro-2-Methylphenol	50	U
67-72-1	Hexachloroethane	10	U	86-30-6	N-Nitrosodiphenylamine (1)	10	U
98-95-3	Nitrobenzene	10	U	101-55-3	4-Bromophenyl-phenylether	10	U
78-59-1	Isophorone	10	U	118-74-1	Hexachlorobenzene	10	U
8[illegible]-5-5	2-Nitrophenol	10	U	87-86-5	Pentachlorophenol	50	U
1[illegible]-67-9	2,4-Dimethylphenol	10	U	85-01-8	Phenanthrene	10	U
65-85-0	Benzoic Acid	50	U	120-12-7	Anthracene	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U	84-74-2	Di-n-Butylphthalate	10	U
120-83-2	2,4-Dichlorophenol	10	U	206-44-0	Fluoranthene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U	129-00-0	Pyrene	10	U
91-20-3	Naphthalene	10	U	85-68-7	Butylbenzylphthalate	10	U
106-47-8	4-Chloroaniline	10	U	91-94-1	3,3'-Dichlorobenzidine	20	U
87-68-3	Hexachlorobutadiene	10	U	56-55-3	Benzo(a)Anthracene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U	117-81-7	bis(2-Ethylhexyl)Phthalate	4	J
91-57-6	2-Methylnaphthalene	10	U	218-01-9	Chrysene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U	117-84-0	Di-n-Octyl Phthalate	10	U
88-06-2	2,4,6-Trichlorophenol	10	U	205-99-2	Benzo(b)Fluoranthene	10	U
95-95-4	2,4,5-Trichlorophenol	50	U	207-08-9	Benzo(k)Fluoranthene	10	U
91-58-7	2-Chloronaphthalene	10	U	50-32-8	Benzo(a)Pyrene	10	U
88-74-4	2-Nitroaniline	50	U	193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
131-11-3	Dimethyl Phthalate	10	U	53-70-3	Dibenz(a,h)Anthracene	10	U
208-96-8	Acenaphthylene	10	U	191-24-2	Benzo(g,h,i)Perylene	10	U
99-09-2	3-Nitroaniline	50	U				

(1) - Cannot be separated from diphenylamine

oratory Name SPECTRIX HOUSTON

se No 62-01-6798, 6865 7149

Sample Number ET990RE

SPECTRIX D.C. No. 7852-58

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

ncentration. Low Medium (Circle One)

te Extracted/Prepared 09/09/87

te Analyzed. 10/02/87

inc/Dil Factor 1.0

rcent Moisture (decanted) —

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

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 _____ V_t _____ V_i _____

No: 68D1-7149

ER PAGE NLY

ET990 RE

Organics Analysis Data Sheet
(Page 4)

SPECTRIX DC# 7852-5-8

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.				
2.				
3.	SEARCH NOT REQUIRED	✓		
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

SAMPLE: ET990RE

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852-8

QC REPORT NO.: 243 ANALYST: CEB DATAFILE: EU08036C15A

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
8 -69-8	BICYCLO[4.1.0]HEPTANE, 7,7-DICHLORO-	676	791	11 J
105-60-2	CAPROLACTAM	854	906	850 J
74367-34-3	PROPANOIC ACID, 2-METHYL-, 3-HYDROXY-2,4,	932	887	5 JB
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1284		9 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1340		5 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1570		81 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	2383		15 J

J = ESTIMATED VALUE - A 1:1 RESPONSE FACTOR IS ASSUMED

B = COMPOUND DETECTED IN QC BLANK

SPECTRIX SC = 1552-5-6

ET992RE

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: SPECTRIX / HOUSTON

Case No: 7852

Lab Sample ID No: 870803608A

QC Report No: 243

Sample Matrix: WATER

Contract No: 68-01-7149

Data Release Authorized By:

Date Sample Received: 08/11/87

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 09/09/87

Date Analyzed: 10/01/87

Conc/Dil Factor: 1.0 pH —

Percent Moisture: —

Percent Moisture (Decanted): —

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

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

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 actions. (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)

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.

SPECTRIX DC# 7852-5-8

Laboratory Name: SPECTRIX
Case No: 7852-

Sample Number
ST992RE

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 09/09/87
Date Analyzed: 10/01/87
Dr /Dil Factor: 1.
Percent Moisture: (Decanted)

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction _✓_ Yes

CAS Number		ug/L	
108-95-2	Phenol	2	J
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
3[illegible]-32-9	bis(2-Chloroisopropyl)Ether	10	U
1[illegible]-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
8[illegible]5-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	50	U

CAS Number		ug/L	
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	8	J
218-01-9	Chrysene	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from diphenylamine

oratory Name SPECTRIX HOUSTON

se No 68-01-6798, 5663 [illegible] 7149

Sample Number
ET992RE

OVER PAGE ONLY

Organics Analysis Data Sheet
(Page 3)

SPECTRIX D.C. No. 7852-58

Pesticide/PCBs

ncentration. Low Medium (Circle One)

GPC Cleanup ☐Yes ☐No

ate Extracted/Prepared 09/09/87

Separatory Funnel Extraction ☐Yes

ate Analyzed. 10/01/87

Continuous Liquid - Liquid Extraction ☐Yes

onc/Dil Factor 1.0

ercent Moisture (decanted) —

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

V_t = 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 _____ V_t _____ V_t _____

No. 68-01-7149

ET992RE

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PAGE
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Organics Analysis Data Sheet
(Page 4)

SPECTRIX DC# 7852-5-8

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
	SEARCH NOT REQUIRED	✓		

Form 1, Part B

SAMPLE: ET992RE

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852-8

QC REPORT NO.: 243 ANALYST: CEB DATAFILE: EU08036C08A

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	258		8 J
111-76-2	ETHANOL, 2-BUTOXY-	353	837	5 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	757		8 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	788		5 J
74367-34-3	PROPANOIC ACID, 2-METHYL-, 3-HYDROXY-2,4,	927	909	24 JB
	BENZOPHENONE	1138		28 J

J = ESTIMATED VALUE - A 1:1 RESPONSE FACTOR IS ASSUMED

B = COMPOUND DETECTED IN QC BLANK

SPECTRIX DC# 7852-5-8

Sample Number
INSTRUMENT

DL 4000

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: SPECTRIX HOUSTON

Case No: 7852

Lab Sample ID No:

QC Report No: 243

Sample Matrix: WATER

Contract No: 68-01-7149

Data Release Authorized By: TTD

Date Sample Received:

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 9-15-96

Conc/Dil Factor: pH

Percent Moisture: (Not Decanted)

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	1.8
74-83-9	Bromomethane	1.1
75-01-4	Vinyl Chloride	1.5
75-00-3	Chloroethane	2.1
75-09-2	Methylene Chloride	4.1
67-64-1	Acetone	1.5
75-15-0	Carbon Disulfide	1.1
75-35-4	1,1-Dichloroethene	1.3
75-34-3	1,1-Dichloroethane	1.6
156-60-5	Trans-1,2-Dichloroethene	.83
67-66-3	Chloroform	.78
107-06-2	1,2-Dichloroethane	1.6
78-93-3	2-Butanone	1.1
71-55-6	1,1,1-Trichloroethane	.84
56-23-5	Carbon Tetrachloride	1.9
108-05-4	Vinyl Acetate	5.1
75-27-4	Bromodichloromethane	1.4

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	1.3
10061-02-6	Trans-1,3-Dichloropropene	1.5
79-01-6	Trichloroethene	2.6
124-48-1	Dibromochloromethane	1.3
79-00-5	1,1,2-Trichloroethane	1.7
71-43-2	Benzene	1.4
10061-01-5	cis-1,3-Dichloropropene	1.2
110-75-8	2-Chloroethylvinylether	1.8
75-25-2	Bromoform	1.4
108-10-1	4-Methyl-2-Pentanone	1.9
591-78-6	2-Hexanone	1.8
127-18-4	Tetrachloroethene	.75
79-34-5	1,1,2,2-Tetrachloroethane	2.2
108-88-3	Toluene	.70
108-90-7	Chlorobenzene	.89
100-41-4	Ethylbenzene	.74
100-42-5	Styrene	.89
	Total Xylenes	.71

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.

INST : 4530

Laboratory Name SPECTRIX HOUSTON

Case No: 68-01-6798, 6865, 7018, 7149

Sample Number
INSTRUMENT DL

Organics Analysis Data Sheet
(Page 2)

SPECTRIX D.C. No. 7852-5 -8

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc./Dil Factor: _____

Percent Moisture (Decanted) 110

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	7.9
111-44-4	bis(2-Chloroethyl)Ether	7.9
95-57-8	2-Chlorophenol	10
541-73-1	1,3-Dichlorobenzene	6.0
106-46-7	1,4-Dichlorobenzene	7.9
100-51-6	Benzyl Alcohol	13
95-50-1	1,2-Dichlorobenzene	9.6
95-48-7	2-Methylphenol	6.2
39638-32-9	bis(2-chloroisopropyl)Ether	5.2
106-44-5	4-Methylphenol	7.5
621-64-7	N-Nitroso-Di-n-Propylamine	1.7
67-72-1	Hexachloroethane	14
98-95-3	Nitrobenzene	4.6
78-59-1	Isophorone	1.7
88-75-5	2-Nitrophenol	1.7
105-67-9	2,4-Dimethylphenol	1.7
65-85-0	Benzoic Acid	11
111-91-1	bis(2-Chloroethoxy)Methane	0
120-83-2	2,4-Dichlorophenol	3.5
120-82-1	1,2,4-Trichlorobenzene	0
91-20-3	Naphthalene	0
106-47-8	4-Chloroaniline	45
87-68-3	Hexachlorobutadiene	3.5
59-50-7	4-Chloro-3-Methylphenol	4.6
91-57-6	2-Methylnaphthalene	4.6
77-47-4	Hexachlorocyclopentadiene	3.5
88-06-2	2,4,6-Trichlorophenol	1.7
95-95-4	2,4,5-Trichlorophenol	9.6
91-58-7	2-Chloronaphthalene	1.7
88-74-4	2-Nitroaniline	3.0
131-11-3	Dimethyl Phthalate	1.7
208-96-8	Acenaphthylene	1.7
99-09-2	3-Nitroaniline	13

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	1.7
51-28-5	2,4-Dinitrophenol	8.7
100-02-7	4-Nitrophenol	6.0
132-64-9	Dibenzofuran	1.7
121-14-2	2,4-Dinitrotoluene	5.2
606-20-2	2,6-Dinitrotoluene	3.5
84-66-2	Diethylphthalate	3.0
7005-72-3	4-Chlorophenyl-phenylether	1.7
86-73-7	Fluorene	3.0
100-01-6	4-Nitroaniline	18
534-52-1	4,6-Dinitro-2-Methylphenol	1.7
86-30-6	N-Nitrosodiphenylamine (1)	3.0
101-55-3	4-Bromophenyl-phenylether	1.7
118-74-1	Hexachlorobenzene	1.7
87-86-5	Pentachlorophenol	1.7
85-01-8	Phenanthrene	1.7
120-12-7	Anthracene	5.2
84-74-2	Di-n-Butylphthalate	0
206-44-0	Fluoranthene	3.0
129-00-0	Pyrene	4.6
85-68-7	Butylbenzylphthalate	1.7
91-94-1	3,3'-Dichlorobenzidine	10
56-55-3	Benzo(a)Anthracene	1.7
117-81-7	bis(2-Ethylhexyl)Phthalate	3
218-01-9	Chrysene	1.7
117-84-0	Di-n-Octyl Phthalate	7.5
205-99-2	Benzo(b)Fluoranthene	6.2
207-08-9	Benzo(k)Fluoranthene	6.2
50-32-8	Benzo(a)Pyrene	1.7
193-39-5	Indeno(1,2,3-cd)Pyrene	9.0
53-70-3	Dibenz(a,h)Anthracene	7.9
191-24-2	Benzo(g,h,i)Perylene	9.0

(1)-Cannot be separated from diphenylamine

INST: 4530

Laboratory Name SPECTRIX HOUSTON

Case No 68-01-6798, 6865, 7018, 7149

Sample Number
GC/MS D.L.

Organics Analysis Data Sheet
(Page 3)

SPECTRIX D.C. No. #78525-8

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc/Dil Factor: _____

Percent Moisture (decanted) TTD

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	6.9
319-85-7	Beta-BHC	6.9
319-86-8	Delta-BHC	3.5
58-89-9	Gamma-BHC (Lindane)	3.0
76-44-8	Heptachlor	6.9
309-00-2	Aldrin	3.0
1024-57-3	Heptachlor Epoxide	3.5
959-98-8	Endosulfan I	8.7
60-57-1	Dieldrin	11
72-55-9	4,4'-DDE	7.9
72-20-8	Endrin	17
33213-65-9	Endosulfan II	4.6
72-54-8	4,4'-DDD	4.6
1031-07-8	Endosulfan Sulfate	7.5
50-29-3	4,4'-DDT	6.2
72-43-5	Methoxychlor	17
53494-70-5	Endrin Ketone	30
57-74-9	Chlordane	40
8001-35-2	Toxaphene	7.5
12674-11-2	Aroclor-1016	14
11104-28-2	Aroclor-1221	41
11141-16-5	Aroclor-1232	15
53469-21-9	Aroclor-1242	26
12672-29-6	Aroclor-1248	18
11097-69-1	Aroclor-1254	270
11096-82-5	Aroclor-1260	66

V_t = 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 _____ V_i _____ V_t _____

Sample Number
5100 DL.

Organics Analysis Data Sheet
(Page 1)

SPECTRIX D.C. No. 7852-5

Laboratory Name: SPECTRIX HOUSTON

Case No: 7852

Lab Sample ID No:

QC Report No: 243

Sample Matrix: WATER / SOIL

Contract No: 68-01-6798, 6865, 7018, 7149

Data Release Authorized By: TTO

Date Sample Received:

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed:

Conc/Dil Factor: pH

Percent Moisture: (Not Decanted)

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	11
74-83-9	Bromomethane	11
75-01-4	Vinyl Chloride	16
75-00-3	Chloroethane	8.0
75-09-2	Methylene Chloride	8.2
67-64-1	Acetone	6.8
75-15-0	Carbon Disulfide	9.3
75-35-4	1, 1-Dichloroethene	3.4
75-34-3	1, 1-Dichloroethane	3.9
156-60-5	Trans-1, 2-Dichloroethene	3.9
67-66-3	Chloroform	3.3
107-06-2	1, 2-Dichloroethane	4.4
78-93-3	2-Butanone	7.5
71-55-6	1, 1, 1-Trichloroethane	3.7
56-23-5	Carbon Tetrachloride	3.4
108-05-4	Vinyl Acetate	4.4
75-27-4	Bromodichloromethane	3.9

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	3.7
10061-02-6	Trans-1, 3-Dichloropropene	4.9
79-01-6	Trichloroethene	2.6
124-48-1	Dibromochloromethane	3.7
79-00-5	1, 1, 2-Trichloroethane	3.4
71-43-2	Benzene	4.2
10061-01-5	cis-1, 3-Dichloropropene	3.3
110-75-8	2-Chloroethylvinylether	3.7
75-25-2	Bromoform	3.4
591-78-6	4-Methyl-2-Pentanone	7.8
108-10-1	2-Hexanone	3.3
127-18-4	Tetrachloroethene	3.7
79-34-5	1, 1, 2, 2-Tetrachloroethane	2.5
108-88-3	Toluene	3.4
108-90-7	Chlorobenzene	1.5
100-41-4	Ethylbenzene	4.4
100-42-5	Styrene	3.4
	Total Xylenes	4.4

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 SPECTRIX HOUSTON

Case No 68-01-7149

Sample Number
5100 D.L.

Organics Analysis Data Sheet
(Page 2)

SPECTRIX DC # 7852-5-8

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc./Dil Factor: _____

Percent Moisture (Decanted) _____

GPC Cleanup ☐Yes ☐No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

TTO

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	12
111-44-4	bis(-2-Chloroethyl)Ether	3.9
95-57-8	2-Chlorophenol	9.0
541-73-1	1 3-Dichlorobenzene	2.0
106-46-7	1 4-Dichlorobenzene	2.0
100-51-6	Benzyl Alcohol	30
95-50-1	1 2-Dichlorobenzene	2.0
-48-7	2-Methylphenol	12
39638-32-9	bis(2-chloroisopropyl)Ether	3.9
106-44-5	4-Methylphenol	9.0
621-64-7	N-Nitroso-Di-n-Propylamine	12
67-72-1	Hexachloroethane	2.0
98-95-3	Nitrobenzene	3.0
8-59-1	Isophorone	3.0
88-75-5	2-Nitrophenol	12
105-67-9	2. 4-Dimethylphenol	3.0
65-85-0	Benzoic Acid	3.9
111-91-1	bis(-2-Chloroethoxyl)Methane	3.0
120-83-2	2. 4-Dichlorophenol	4.2
120-82-1	1. 2. 4-Trichlorobenzene	3.0
91-20-3	Naphthalene	2.0
106-47-8	4-Chloroaniline	3.0
87-68-3	Hexachlorobutadiene	3.0
59-50-7	4-Chloro-3-Methylphenol	12
91-57-6	2-Methylnaphthalene	3.9
77-47-4	Hexachlorocyclopentadiene	21
88-06-2	2. 4. 6-Trichlorophenol	2.0
95-95-4	2. 4. 5-Trichlorophenol	3.9
91-58-7	2-Chloronaphthalene	3.0
88-74-4	2-Nitroaniline	72
131-11-3	Dimethyl Phthalate	2.0
208-96-8	Acenaphthylene	4.2
99-09-2	3-Nitroaniline	2.0

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	2.0
51-28-5	2. 4-Dinitrophenol	15
100-02-7	4-Nitrophenol	21
132-64-9	Dibenzofuran	2.0
121-14-2	2 4-Dinitrotoluene	6.0
606-20-2	2 5-Dinitrotoluene	6.0
84-66-2	Diethylphthalate	6.0
7005-72-3	4-Chlorophenyl-phenylether	2.0
86-73-7	Fluorene	2.0
100-01-6	4-Nitroaniline	21
534-52-1	4. 6-Dinitro-2-Methylphenol	17
86-30-6	N-Nitrosodiphenylamine (1)	72
101-55-3	4-Bromophenyl-phenylether	7.5
118-74-1	Hexachlorobenzene	9.6
87-86-5	Pentachlorophenol	18
85-01-8	Phenanthrene	3.9
120-12-7	Anthracene	3.0
84-74-2	Di-n-Butylphthalate	3.9
206-44-0	Fluoranthene	6.0
129-00-0	Pyrene	6.6
85-68-7	Butylbenzylphthalate	9.3
91-94-1	3. 3'-Dichlorobenzidine	66
56-55-3	Benzo(a)Anthracene	6.0
117-81-7	bis(2-Ethylhexyl)Phthalate	14
218-01-9	Chrysene	7.2
117-84-0	Di-n-Octyl Phthalate	9.0
205-99-2	Benzo(b)Fluoranthene	11
207-08-9	Benzo(k)Fluoranthene	11
50-32-8	Benzo(a)Pyrene	17
193-39-5	Indeno(1. 2. 3-cd)Pyrene	21
53-70-3	Dibenzo(a h)Anthracene	14
191-24-2	Benzo(g h i)Perylene	13

(1)-Cannot be separated from diphenylamine

Laboratory Name: SPECTRIX HOUSTON

Case No: 68-01-6798, 6865, 7018, (149)

Sample Number
5100 D.L.

Organics Analysis Data Sheet
(Page 3)

SPECTRIX D.C. No. 7852-5-8

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc/Dil Factor: _____

Percent Moisture (decanted) _____

GPC Cleanup ☐Yes ☐No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

TTO

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	18
319-85-7	Beta-BHC	13
319-86-8	Delta-BHC	18
58-89-9	Gamma-BHC (Lindane)	12
76-44-8	Heptachlor	15
309-00-2	Aldrin	12
1024-57-3	Heptachlor Epoxide	18
959-98-8	Endosulfan I	12
60-57-1	Dieldrin	15
72-55-9	4,4'-DDE	11
72-20-8	Endrin	12
33213-65-9	Endosulfan II	11
72-54-8	4,4'-DDD	8
1031-07-8	Endosulfan Sulfate	14
50-29-3	4,4'-DDT	14
72-43-5	Methoxychlor	14
53494-70-5	Endrin Ketone	10
57-74-9	Chlordane	195
8001-35-2	Toxaphene	300
12674-11-2	Aroclor-1016	60
11104-28-2	Aroclor-1221	84
11141-16-5	Aroclor-1232	196
53469-21-9	Aroclor-1242	100
12672-29-6	Aroclor-1248	100
11097-69-1	Aroclor-1254	114
11096-82-5	Aroclor-1260	71

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 _____ V_t _____ V_i _____

SPECTRIX DC# 7852-5-8

Sample Number
INSTRUMENT DL
5100 EF

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: SPECTRIX HOUSTON

Case No: 7852

Lab Sample ID No:

QC Report No: 243

Sample Matrix:

Contract No: 68-01-6798, 6865, 7018, 7149

Data Release Authorized By: TTO

Date Sample Received:

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 12/8/86

Conc/Dil Factor: pH

Percent Moisture: (Not Decanted)

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.5
74-83-9	Bromomethane	4.8
75-01-4	Vinyl Chloride	7.2
75-00-3	Chloroethane	5.7
75-09-2	Methylene Chloride	5.4
67-64-1	Acetone	6.6
75-15-0	Carbon Disulfide	5.1
75-35-4	1, 1-Dichloroethene	6.2
75-34-3	1, 1-Dichloroethane	6.6
156-60-5	Trans-1, 2-Dichloroethene	3.9
67-66-3	Chloroform	5.1
107-06-2	1, 2-Dichloroethane	2.4
78-93-3	2-Butanone	6.3
71-55-6	1, 1, 1-Trichloroethane	5.1
56-23-5	Carbon Tetrachloride	4.5
108-05-4	Vinyl Acetate	7.2
75-27-4	Bromodichloromethane	3.6

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	5.1
10061-02-6	Trans-1, 3-Dichloropropene	3.3
79-01-6	Trichloroethene	4.5
124-48-1	Dibromochloromethane	3.9
79-00-5	1, 1, 2-Trichloroethane	4.2
71-43-2	Benzene	3.9
10061-01-5	cis-1, 3-Dichloropropene	3.0
110-75-8	2-Chloroethylvinylether	3.3
75-25-2	Bromoform	2.7
591-78-6	4-Methyl-2-Pentanone	3.6
108-10-1	2-Hexanone	4.2
127-18-4	Tetrachloroethene	5.1
79-34-5	1, 1, 2, 2-Tetrachloroethane	6.3
108-88-3	Toluene	4.5
108-90-7	Chlorobenzene	6.6
100-41-4	Ethylbenzene	4.2
100-42-5	Styrene	4.2
	Total Xylenes	39

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

INST ID: 3400

Laboratory Name SPECTRIX HOUSTON

Case No 68-01-6798, 6865, 7018, 7140

Sample Number
GC D.L.

Organics Analysis Data Sheet
(Page 3)

SPECTRIX D.C. No. 7852-5-8

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: 5/14/85

Conc/Dil Factor: _____

Percent Moisture (decanted) _____

GPC Cleanup ☐Yes ☐No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

TTO

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.02
319-85-7	Beta-BHC	0.04
319-86-8	Delta-BHC	0.04
58-89-9	Gamma-BHC (Lindane)	0.01
76-44-8	Heptachlor	0.01
309-00-2	Aldrin	0.01
1024-57-3	Heptachlor Epoxide	0.02
959-98-8	Endosulfan I	0.02
60-57-1	Dieldrin	0.02
72-55-9	4,4'-DDE	0.03
72-20-8	Endrin	0.04
33213-65-9	Endosulfan II	0.07
72-54-8	4,4'-DDD	0.02
1031-07-8	Endosulfan Sulfate	0.12
50-29-3	4,4'-DDT	0.07
72-43-5	Methoxychlor	0.22
53494-70-5	Endrin Ketone	0.05
57-74-9	Chlordane	0.06
8001-35-2	Toxaphene	1.4
12674-11-2	Aroclor-1016	0.37
11104-28-2	Aroclor-1221	0.20
11141-16-5	Aroclor-1232	0.61
53469-21-9	Aroclor-1242	0.18
12672-29-6	Aroclor-1248	0.49
11097-69-1	Aroclor-1254	0.10
11096-82-5	Aroclor-1260	0.38

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 _____ V_t _____ V_i _____

Laboratory Name SPECTRIX HOUSTON

Case No 68-01-6798, 6865, 7013, 7130

GC 6000

Sample Number
GC D.L.

Organics Analysis Data Sheet
(Page 3)

SPECTRIX D.C. No. 7852-5-8

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: 9/29/84

Conc/Dil Factor: _____

Percent Moisture (decanted) _____

GPC Cleanup ☐Yes ☐No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

TO

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.003
319-85-7	Beta-BHC	0.006
319-86-8	Delta-BHC	0.005
58-89-9	Gamma-BHC (Lindane)	0.003
76-44-8	Heptachlor	0.009
309-00-2	Aldrin	0.0001
1024-57-3	Heptachlor Epoxide	0.005
959-98-8	Endosulfan I	0.004
60-57-1	Dieldrin	0.03
72-55-9	4,4'-DDE	0.008
72-20-8	Endrin	0.004
33213-65-9	Endosulfan II	0.02
72-54-8	4,4'-DDD	0.02
1031-07-8	Endosulfan Sulfate	0.13
50-29-3	4,4'-DDT	0.17
72-43-5	Methoxychlor	2.26
53494-70-5	Endrin Ketone	0.003
57-74-9	Chlordane	0.01
8001-35-2	Toxaphene	0.16
12674-11-2	Aroclor-1016	0.01
11104-28-2	Aroclor-1221	0.02
11141-16-5	Aroclor-1232	0.01
53469-21-9	Aroclor-1242	0.02
12672-29-6	Aroclor-1248	0.003
11097-69-1	Aroclor-1254	0.03
11096-82-5	Aroclor-1260	0.08

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 _____ V_t _____ V_i _____

Sample Number
INSTRUMENT D.L

Organics Analysis Data Sheet
(Page 1)

SPECTRIX D.C. No. 7852-5-8 50C

Laboratory Name: SPECTRIX HOUSTON

Case No: 7852

Lab Sample ID No:

QC Report No: 243

Sample Matrix:

Contract No: 68-01-6798, 6865, 7018, 7149

Data Release Authorized By: TTD

Date Sample Received:

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 6/17/87

Conc/Dil Factor: pH

Percent Moisture: (Not Decanted)

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	2.9
74-83-9	Bromomethane	2.9
75-01-4	Vinyl Chloride	8.3
75-00-3	Chloroethane	2.9
75-09-2	Methylene Chloride	2.9
67-64-1	Acetone	2.4
75-15-0	Carbon Disulfide	7.1
75-35-4	1, 1-Dichloroethene	8.8
75-34-3	1, 1-Dichloroethane	3.9
156-60-5	Trans-1, 2-Dichloroethene	4.5
67-66-3	Chloroform	1.7
107-06-2	1, 2-Dichloroethane	1.7
78-93-3	2-Butanone	3.8
71-55-6	1, 1, 1-Trichloroethane	6.2
56-23-5	Carbon Tetrachloride	9.3
108-05-4	Vinyl Acetate	1.7
75-27-4	Bromodichloromethane	0

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	0
10061-02-6	Trans-1, 3-Dichloropropene	0
79-01-6	Trichloroethene	4.5
124-48-1	Dibromochloromethane	1.7
79-00-5	1, 1, 2-Trichloroethane	0
71-43-2	Benzene	2.9
10061-01-5	cis-1, 3-Dichloropropene	0
110-75-8	2-Chloroethylvinylether	1.5
75-25-2	Bromoform	3.5
591-78-6	4-Methyl-2-Pentanone	4.5
108-10-1	2-Hexanone	3.5
127-18-4	Tetrachloroethene	8.8
79-34-5	1, 1, 2, 2-Tetrachloroethane	0
108-88-3	Toluene	2.9
108-90-7	Chlorobenzene	2.9
100-41-4	Ethylbenzene	5.2
100-42-5	Styrene	1.7
	Total Xylenes	2.9

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 SPECTRIX-HOUSTON

Case No. 68-01-7149

Sample Number
INST DL. 4510

Organics Analysis Data Sheet
(Page 2)

SPECTRIX D.C. No. TB52-5

Semivolatile Compounds TTO

Concentration Low Medium (Circle One)

Date Extracted/Prepared

Date Analyzed 08-05-87

Conc./Dil Factor

Percent Moisture (Decanted)

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	1.34
111-44-4	bis(2-Chloroethyl)Ether	2.12
95-57-8	2-Chlorophenol	3.29
541-73-1	1,3-Dichlorobenzene	2.00
106-46-7	1,4-Dichlorobenzene	2.00
100-51-6	Benzyl Alcohol	2.51
95-50-1	1,2-Dichlorobenzene	1.64
95-48-7	2-Methylphenol	2.51
108-32-9	bis(2-chloroisopropyl)Ether	1.64
106-44-5	4-Methylphenol	2.68
621-64-7	N-Nitroso-Di-n-Propylamine	4.02
67-72-1	Hexachloroethane	2.00
98-95-3	Nitrobenzene	1.64
78-59-1	Isophorone	1.64
88-75-5	2-Nitrophenol	2.00
105-67-9	2,4-Dimethylphenol	1.34
65-85-0	Benzoic Acid	4.02
111-91-1	bis(2-Chloroethoxy)Methane	1.64
120-83-2	2,4-Dichlorophenol	1.64
120-82-1	1,2,4-Trichlorobenzene	2.00
91-20-3	Naphthalene	2.00
106-47-8	4-Chloroaniline	10.94
87-68-3	Hexachlorobutadiene	1.64
59-50-7	4-Chloro-3-Methylphenol	1.64
91-57-6	2-Methylnaphthalene	1.34
77-47-4	Hexachlorocyclopentadiene	13.85
88-06-2	2,4,6-Trichlorophenol	1.64
95-95-4	2,4,5-Trichlorophenol	2.00
91-58-7	2-Chloronaphthalene	2.00
88-74-4	2-Nitroaniline	1.34
131-11-3	Dimethyl Phthalate	2.00
208-96-8	Acenaphthylene	2.00
99-09-2	3-Nitroaniline	3.00

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	2.00
51-28-5	2,4-Dinitrophenol	11.50
100-02-7	4-Nitrophenol	4.24
132-64-9	Dibenzofuran	1.34
121-14-2	2,4-Dinitrotoluene	2.51
606-20-2	2,6-Dinitrotoluene	2.12
84-66-2	Diethylphthalate	1.34
7005-72-3	4-Chlorophenyl-phenylether	2.00
86-73-7	Fluorene	3.00
100-01-6	4-Nitroaniline	14.94
534-52-1	4,6-Dinitro-2-Methylphenol	4.55
86-30-6	N-Nitrosodiphenylamine (1)	2.68
101-55-3	4-Bromophenyl-phenylether	4.00
118-74-1	Hexachlorobenzene	1.64
87-86-5	Pentachlorophenol	3.91
85-01-8	Phenanthrene	1.64
120-12-7	Anthracene	2.00
84-74-2	Di-n-Butylphthalate	1.64
206-44-0	Fluoranthene	1.00
129-00-0	Pyrene	3.00
85-68-7	Butylbenzylphthalate	2.68
91-94-1	3,3'-Dichlorobenzidine	3.91
56-55-3	Benzo(a)Anthracene	1.34
117-81-7	bis(2-Ethylhexyl)Phthalate	1.64
218-01-9	Chrysene	1.64
117-84-0	Di-n-Octyl Phthalate	1.34
205-99-2	Benzo(b)Fluoranthene	1.64
207-08-9	Benzo(k)Fluoranthene	1.34
50-32-8	Benzo(a)Pyrene	1.34
193-39-5	Indeno(1,2,3-cd)Pyrene	1.64
53-70-3	Dibenzo(a,h)Anthracene	2.51
191-24-2	Benzo(g,h,i)Perylene	1.34

(1)-Cannot be separated from diphenylamine

Laboratory Name SPECTRIX-HOUSTON

Case No 68-01-7149

Sample Number
INST D.L. 4510

Organics Analysis Data Sheet
(Page 3)

~~Sector~~ D.C. No. ~~7852-5-8~~ 770

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc/Dil Factor: _____

Percent Moisture (decanted) _____

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	7.55
319-85-7	Beta-BHC	3.46
319-86-8	Delta-BHC	1.73
58-89-9	Gamma-BHC (Lindane)	5.20
76-44-8	Heptachlor	13.53
309-00-2	Aldrin	1.73
1024-57-3	Heptachlor Epoxide	5.20
959-98-8	Endosulfan I	6.24
60-57-1	Dieldrin	1.73
72-55-9	4, 4'-DDE	3.00
72-20-8	Endrin	14.18
33213-65-9	Endosulfan II	3.46
72-54-8	4, 4'-DDD	1.73
1031-07-8	Endosulfan Sulfate	3.00
50-29-3	4, 4'-DDT	19.29
72-43-5	Methoxychlor	78.77
53494-70-5	Endrin Ketone	25.51
57-74-9	Chlordane	112.95
8001-35-2	Toxaphene	99.69
12674-11-2	Aroclor-1016	11.73
11104-28-2	Aroclor-1221	21.0
11141-16-5	Aroclor-1232	11.73
53469-21-9	Aroclor-1242	30.0
12672-29-6	Aroclor-1248	11.73
11097-69-1	Aroclor-1254	45.80
11096-82-5	Aroclor-1260	52.00

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 _____ V_t _____ V_i _____

ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

Date Received for Review 10/7/87 Date Review Completed 10/7/87
To: Tom Pach.
From: Brenda R. Jones
Subject: HCD

PAN: IL014/QAQ Case # 7852

Sample Description

Organics (VOA, ABN, Pest/PCB)		Inorganics (Metals, Cyanide)	
#	Low Soil	#	Low Soil
	Low Water	19	Low Water
	Drinking Water		Drinking Water
	Other		Other

Project Data Status _____ Completed!!

_____ Incomplete, awaiting: _____

FIT Data Review Findings:

_____ Compounds were detected in sample(s); see enclosed Chemical Evaluation Form.

Book No. 6 Page No. 261

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CHICAGO, ILLINOIS

CHEMICAL EVALUATION FORM

SITE NAME: 4CD PAN# FIL014IQAQ DATE: 10/7/87

CASE # 7852 UNITS- ug/l REVIEWER: BJ2 J

TOX/ PERS	COMPOUND	CRDL	3-5xCRDL	MEU 991	993	997				
	ALUMINUM									
	ANTIMONY									
	ARSENIC	10		17.6						
	BARIUM									
	BERYLLIUM									
	CADMIUM									
	CHROMIUM									
	COBALT									
	COPPER									
	LEAD	5			9.23					
	MERCURY									
	NICKEL									
	SELENIUM									
	SILVER	10				9				
	THALLIUM									
	TIN									
	VANADIUM									
	ZINC									
	CYANIDE									

ecology and environment, inc.

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International Specialists in the Environment

MEMORANDUM

DATE: 10/7/87

TO: File

FROM: Brenda Robbins Jones BRJ

SUBJECT: HCD

PAN #: FIL0141 CASE #: 7852

The reviewer of this inorganic/~~organic~~ data package correctly notes that spike recoveries for the ~~compounds~~/elements listed below are all biased low and should be considered estimated (i.e. qualified with a J). However, the data, at worst, underestimates the actual concentrations found in the sample.

It is my opinion that this data is usable for HRS purposes.

99N:5X

	Spike Recovery
Lead	59%

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 10.6.87

SUBJECT: Review of Region V CLP Data Received for Review on 9-18-87

FROM: Curtis Ross, Director (5SCRL)
Central Regional Laboratory Jay Thurker

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TO: Data User: FIT

We have reviewed the data for the following case(s).

SITE NAME: HOD LANDFILL SMO case No. 7852

EPA Data Set No. SF4311 No. of Samples: 19 D.U./Activity Numbers Y905 / C72100

CRL No. 87FP16503 - S17, R01 - R03, D05

SMO Traffic No. MEU982 - 993 MEU995 - 1000 MEM081

CLP Laboratory: SPECTRIX Hrs. Required for Review: 5

Following are our findings: This review covers 19 water samples analyzed for metals and cyanide.
Serial dilution showed interference for Zn, Mg. All Zn, Mg data are estimated.
Spike recoveries for Pb (59%), Hg (62%), Te (70%) are low. Detection limits for Pb, Te, Hg should be elevated. All Pb, Hg, Te are estimated.

Ada Levin
10.6.87

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications noted above.
( ) Data are preliminary - pending verification by Contractor Laboratory.
( ) Data are unacceptable.

cc: Duane Geuder, Quality Assurance Officer, EPA Support Services
James Petty, Chief Quality Assurance Research, EMSL, Las Vegas

EPA FORM 1320-6 (Rev. 5/87)

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SF4311

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LABORATORY: SPECTRIX-HOUSTON
DOC CONT NO: 7852-05-07
LAB NO: 8709035,-052
QC REPORT NO: 138
CONTRACT NO: 68-01-7067

CASE 7852
TABLE OF CONTENTS

		PAGE
SECTION I	Narrative	2
SECTION II	Sample Data Summary Package and QC	22
	Sample Numbers:	
	MEU982	
	MEU983	
	MEU984	
	MEU985	
	MEU986	
	MEU987	
	MEU988	
	MEU989	
	MEU990	
	MEU991	
	MEU992	
	MEU993	
	MEU995	
	MEU996	
	MEU997	
	MEU998	
	MEU999	
	MEU1000	
	MEM081	
SECTION III	Digestion/Distillation Logs	58
SECTION IV	Analytical Raw Data	67

9/16/87

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U.S. EPA Contract Laboratory Program
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703/557-2490 FTS: 8-557-2490

Spectrix D.C. Control# 7852-05-06

Date 9-14-87

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name Spectrix-Houston

Case No. 7852

SOW No. 784

Q.C. Report No. 138

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
MEU985	8708035-02A,02B	MEU990	8708035-13A,13B
MEU 986	" -05A,05B	✓ 991	" -14A,14B
✓ 992	" -06A,06B	✓ 993	" -15A,15B
MEM081	" -07A,07B	✓ 989	" -16A,16B
MEU 982	" -08A,08B	✓ 995	" -17A,17B
✓ 983	" -09A,09B	✓ 996	" -18A,18B
✓ 984	" -10A,10B	✓ 997	" -19A,19B
✓ 987	" -11A,11B	✓ 998	" -20A,20B
✓ 988	" -12A,12B	✓ 999	" -21A,21B
		✓ 1000	9708052-01A,01B

Comments: Please note the additional IDL enclosed for Ba λ= 455.403. Sample MEU998 has a flag "A" for Fe which denotes an approximation based on the first CV of 3-pairs of replicates.

ICP Interelement and background corrections applied? Yes ✓ No ____.

If yes, corrections applied before ✓ or after ____ generation of raw data.

Footnotes:

NR - not required by contract at this time

Form I:

Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP/Flame AA) or F (for furnace).

U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

s - Indicates value determined by Method of Standard Addition.

R - 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

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Spectrix D.C. Control #7852-05-0(

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
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703/557-2490 FTS: 8-557-2490

EPA Sample No.
MEU985

Date 9-14-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Spectrix-Houston CASE NO. 7852
SOW NO. 784
LAB SAMPLE ID. NO. 8708035-02A,02B QC REPORT NO. 138

Elements Identified and Measured

Concentration: Low ✓ Medium ____
Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	78U	P	13.	Magnesium	52000 E J	P
2.	Antimony	50U	P	14.	Manganese	68	P
3.	Arsenic	10U	F	15.	Mercury	0.2U R UJ	CV
4.	Barium	[88]	P	16.	Nickel	22U	P
5.	Beryllium	2U	P	17.	Potassium	[1320]	P
6.	Cadmium	5U	P	18.	Selenium	5U	F
7.	Calcium	113000	P	19.	Silver	8U	P
8.	Chromium	9U	P	20.	Sodium	52700	P
9.	Cobalt	20U	P	21.	Thallium	10U R UJ	F
10.	Copper	9U	P	22.	Tin	38U	P
11.	Iron	1240	P	23.	Vanadium	11U	P
12.	Lead	5U R UJ	F	24.	Zinc	110 E UJ	P
Cyanide		10U	~~Color~~	Percent Solids (%)			—

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: ____

Lab Manager Candace Friday for Ken Elondu

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Spectrix D.C. Control # 7852-05-0(

Form I

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EPA Sample No. MEU986

Date 9-14-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Spectrix - Houston CASE NO. 7852

SOW NO. 784

LAB SAMPLE ID. NO. 8708035-05A,05B QC REPORT NO. 138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	[89]	P	13.	Magnesium	36500 E J	P
2.	Antimony	50U	P	14.	Manganese	25	P
3.	Arsenic	10U	F	15.	Mercury	0.2U R UJ	CV
4.	Barium	[70]	P	16.	Nickel	22U	P
5.	Beryllium	2U	P	17.	Potassium	[710]	P
6.	Cadmium	5U	P	18.	Selenium	5U	F
7.	Calcium	45000	P	19.	Silver	8U	P
8.	Chromium	9U	P	20.	Sodium	29200	P
9.	Cobalt	20U	P	21.	Thallium	10U R UJ	F
10.	Copper	9U	P	22.	Tin	38U	P
11.	Iron	110	P	23.	Vanadium	11U	P
12.	Lead	5U R UJ	F	24.	Zinc	55 E J	P
	Cyanide	10U	Color		Percent Solids (%)	—	

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: ____

Lab Manager Candace Friday
for Ken Elondu

000027

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Spectrix Q.C. Control # 7852-05-06

Form I

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EPA Sample No. MEU992

Date 9-14-87

~~INORGANIC ANALYSIS~~ DATA SHEET

LAB NAME Spectrix - Houston CASE NO. 7852

SOW NO. 784

LAB SAMPLE ID. NO. 8708035-06A,06B QC REPORT NO. 138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	78U	P	13.	Magnesium	340U EJ	P
2.	Antimony	50U	P	14.	Manganese	4U	P
3.	Arsenic	10U	F	15.	Mercury	0.2U R UJ	CV
4.	Barium	26U	P	16.	Nickel	22U	P
5.	Beryllium	2U	P	17.	Potassium	410U	P
6.	Cadmium	5U	P	18.	Selenium	5U	F
7.	Calcium	310U	P	19.	Silver	8U	P
8.	Chromium	9U	P	20.	Sodium	250U	P
9.	Cobalt	20U	P	21.	Thallium	10U R UJ	F
10.	Copper	9U	P	22.	Tin	38U	P
11.	Iron	43U	P	23.	Vanadium	11U	P
12.	Lead	5U R UJ	F	24.	Zinc	[10] EJ	P
	Cyanide	10U	CEOC		Percent Solids (%)		—

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: ____

Lab Manager Candace Lindsay for Ken Elondu

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Spectrix D.C. Control # 7852-05-06

Form I

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EPA Sample No. MEA081

Date 9-14-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Spectrix - Houston CASE NO. 7852

SOW NO. 784

LAB SAMPLE ID. NO. 8708035-07A,07B QC REPORT NO. 138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	78U	P	13.	Magnesium	340U E ✓	P
2.	Antimony	50U	P	14.	Manganese	4U	P
3.	Arsenic	10U	F	15.	Mercury	0.2U R ✓ J	CV
4.	Barium	26U	P	16.	Nickel	22U	P
5.	Beryllium	2U	P	17.	Potassium	410U	P
6.	Cadmium	5U	P	18.	Selenium	5U	F
7.	Calcium	310U	P	19.	Silver	8U	P
8.	Chromium	9U	P	20.	Sodium	250U	P
9.	Cobalt	20U	P	21.	Thallium	10U R ✓ J	F
10.	Copper	9U	P	22.	Tin	38U	P
11.	Iron	43U	P	23.	Vanadium	11U	P
12.	Lead	5U R ✓ J	F	24.	Zinc	[9] E ✓ J	P

Cyanide 10U Percent Solids (%) —

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:

Lab Manager Candace Friday for Ken Evanden

000029

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Spectrix D.C. Control # 7852-05-06

Form I

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EPA Sample No. MEU982

Date 9-14-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Spectrix - Houston CASE NO. 7852

SOW NO. 784

LAB SAMPLE ID. NO. 8708035-08A,08B QC REPORT NO. 138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	78U	P	13.	Magnesium	36500 E J	P
2.	Antimony	50U	P	14.	Manganese	226	P
3.	Arsenic	10U	F	15.	Mercury	0.2U R UJ	CV
4.	Barium	[38]	P	16.	Nickel	22U	P
5.	Beryllium	2U	P	17.	Potassium	[630]	P
6.	Cadmium	5U	P	18.	Selenium	5U	F
7.	Calcium	74100	P	19.	Silver	8U	P
8.	Chromium	9U	P	20.	Sodium	14400	P
9.	Cobalt	20U	P	21.	Thallium	10U R UJ	F
10.	Copper	9U	P	22.	Tin	38U	P
11.	Iron	270	P	23.	Vanadium	11U	P
12.	Lead	5U R UJ	F	24.	Zinc	42 E J	P

Cyanide 10U Color Percent Solids (%) —

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: ____

Lab Manager Candace Quiday for Ken Elorde

000030

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Spectrix D.C. Control # 7852-05-06

Form I

U.S. EPA Contract Laboratory Program
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703/557-2490 FTS: 8-557-2490

EPA Sample No. MEU983

Date 9-14-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Spectrix - Houston CASE NO. 7852

SOW NO. 784

LAB SAMPLE ID. NO. 8708035-09A,09B QC REPORT NO. 138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	78U	P	13.	Magnesium	38300 EJ	P
2.	Antimony	50U	P	14.	Manganese	55	P
3.	Arsenic	10U	F	15.	Mercury	0.2U R UJ CV	
4.	Barium	[91]	P	16.	Nickel	22U	P
5.	Beryllium	2U	P	17.	Potassium	[2230]	P
6.	Cadmium	5U	P	18.	Selenium	5U	F
7.	Calcium	61700	P	19.	Silver	8U	P
8.	Chromium	9U	P	20.	Sodium	37500	P
9.	Cobalt	20U	P	21.	Thallium	10U R UJ	F
10.	Copper	9U	P	22.	Tin	38U	P
11.	Iron	270	P	23.	Vanadium	11U	P
12.	Lead	5U R UJ	F	24.	Zinc	31 EJ	P
Cyanide		10U	Color	Percent Solids (%)			—

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: ____

000031

Lab Manager Candace Friday for Ken Evanden

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Spectrix O.C. Control # 7852-05-06

Form I

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Sample Management Office
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EPA Sample No. MEU984

Date 9-14-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Spectrix - Houston CASE NO. 7852

SOW NO. 784

LAB SAMPLE ID. NO. 8708035-10A,10B QC REPORT NO. 138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	78U	P	13.	Magnesium	38000 EJ	P
2.	Antimony	50U	P	14.	Manganese	84	P
3.	Arsenic	10U	F	15.	Mercury	0.2U R UJ	CV
4.	Barium	[50]	P	16.	Nickel	22U	P
5.	Beryllium	2U	P	17.	Potassium	[2020]	P
6.	Cadmium	5U	P	18.	Selenium	5U	F
7.	Calcium	89100	P	19.	Silver	8U	P
8.	Chromium	9U	P	20.	Sodium	79200	P
9.	Cobalt	20U	P	21.	Thallium	10U R UJ	F
10.	Copper	9U	P	22.	Tin	38U	P
11.	Iron	1090	P	23.	Vanadium	11U	P
12.	Lead	5U R UJ	F	24.	Zinc	38 EJ	P
Cyanide		10U	Color	Percent Solids (%)			—

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:

000032

Lab Manager Candace Friday for Ken Evanda

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Spectrix D.C. Control # 7852-05-06

Form I

U.S. EPA Contract Laboratory Program
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703/557-2490 FTS: 8-557-2490

EPA Sample No. MEU987

Date 9-14-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Spectrix - Houston CASE NO. 7852

SOW NO. 784

LAB SAMPLE ID. NO. B708035-11A,11B QC REPORT NO. 138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	78U	P	13.	Magnesium	18300 EJ	P
2.	Antimony	50U	P	14.	Manganese	11	P
3.	Arsenic	10U	F	15.	Mercury	0.2U R UJ CV	
4.	Barium	26U	P	16.	Nickel	22U	P
5.	Beryllium	2U	P	17.	Potassium	[1300]	P
6.	Cadmium	5U	P	18.	Selenium	5U	F
7.	Calcium	20300	P	19.	Silver	8U	P
8.	Chromium	9U	P	20.	Sodium	54900	P
9.	Cobalt	20U	P	21.	Thallium	10U R UJ	F
10.	Copper	9U	P	22.	Tin	38U	P
11.	Iron	43U	P	23.	Vanadium	11U	P
12.	Lead	5U R UJ	F	24.	Zinc	24 EJ	P

Cyanide 10U Color Percent Solids (%) —

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:

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Lab Manager Candace Friday
for Ken Elender

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EPA Sample No. MEU988

Date 9-14-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Spectrix - Houston CASE NO. 7852

SOW NO. 784

LAB SAMPLE ID. NO. 8708035-12A,12B QC REPORT NO. 138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	78U	P	13.	Magnesium	53100 E J	P
2.	Antimony	50U	P	14.	Manganese	113	P
3.	Arsenic	10U	F	15.	Mercury	0.2U R UJ	CV
4.	Barium	[72]	P	16.	Nickel	22U	P
5.	Beryllium	2U	P	17.	Potassium	[290]	P
6.	Cadmium	5U	P	18.	Selenium	5U	F
7.	Calcium	118000	P	19.	Silver	8U	P
8.	Chromium	9U	P	20.	Sodium	21800	P
9.	Cobalt	20U	P	21.	Thallium	10U R UJ	F
10.	Copper	9U	P	22.	Tin	38U	P
11.	Iron	1080	P	23.	Vanadium	11U	P
12.	Lead	5U R UJ	F	24.	Zinc	61 E J	P
Cyanide		10U	Color	Percent Solids (%)			—

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: ____

000034

Lab Manager: Andrew Sliday for Ken Crondin

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EPA Sample No. MEU990

Date 9-14-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Spectrix - Houston CASE NO. 7852

SOW NO. 784

LAB SAMPLE ID. NO. 8708035-13A,13B QC REPORT NO. 138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	78U	P	13.	Magnesium	28400 EJ	P
2.	Antimony	50U	P	14.	Manganese	31	P
3.	Arsenic	10U	F	15.	Mercury	0.2U R UJ	CV
4.	Barium	[56]	P	16.	Nickel	22U	P
5.	Beryllium	2U	P	17.	Potassium	[1740]	P
6.	Cadmium	5U	P	18.	Selenium	5U	F
7.	Calcium	47000	P	19.	Silver	8U	P
8.	Chromium	9U	P	20.	Sodium	42800	P
9.	Cobalt	20U	P	21.	Thallium	10U R UJ	F
10.	Copper	9U	P	22.	Tin	38U	P
11.	Iron	43U	P	23.	Vanadium	11U	P
12.	Lead	5U R UJ	F	24.	Zinc	28 EJ	P

Cyanide 10U Color Percent Solids (%) —

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:

000035

Lab Manager Candace Friday for Ken Crondu

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EPA Sample No. MEU991

Date 9-14-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Spectrix - Houston CASE NO. 7852

SOW NO. 784

LAB SAMPLE ID. NO. 8708035-14A,14B QC REPORT NO. 138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	78U	P	13.	Magnesium	87500 E J	P
2.	Antimony	50U	P	14.	Manganese	208	P
3.	Arsenic	17.6	F	15.	Mercury	0.2U R UJ	CV
4.	Barium	[53]	P	16.	Nickel	22U	P
5.	Beryllium	2U	P	17.	Potassium	[4300]	P
6.	Cadmium	5U	P	18.	Selenium	5U	F
7.	Calcium	99200	P	19.	Silver	8U	P
8.	Chromium	9U	P	20.	Sodium	81500	P
9.	Cobalt	20U	P	21.	Thallium	10U R UJ	F
10.	Copper	9U	P	22.	Tin	38U	P
11.	Iron	230	P	23.	Vanadium	11U	P
12.	Lead	5U R UJ	F	24.	Zinc	41 E J	P

Cyanide 10U Color Percent Solids (%) —

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:

000036

Lab Manager Candace Friday for Ken Evanden

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EPA Sample No. MEU993

Date 9-14-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Spectrix - Houston CASE NO. 7852

SOW NO. 784

LAB SAMPLE ID. NO. 8708035-15A,15B QC REPORT NO. 138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	78U	P	13.	Magnesium	52200 EJ	P
2.	Antimony	50U	P	14.	Manganese	101	P
3.	Arsenic	10U	F	15.	Mercury	0.2U R UJ	CV
4.	Barium	[63]	P	16.	Nickel	22U	P
5.	Beryllium	2U	P	17.	Potassium	[110]	P
6.	Cadmium	5U	P	18.	Selenium	5U	F
7.	Calcium	110000	P	19.	Silver	8U	P
8.	Chromium	9U	P	20.	Sodium	20700	P
9.	Cobalt	20U	P	21.	Thallium	10U R UJ	F
10.	Copper	9U	P	22.	Tin	38U	P
11.	Iron	190	P	23.	Vanadium	11U	P
12.	Lead	9.23 R UJ	F	24.	Zinc	40 EJ	P
	Cyanide	10U	Color		Percent Solids (%)	—	

hand lead calculation to Randy E. Rau 5 Oct. 87

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:

000037

Lab Manager Candace Dudley for Ken Crowder

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EPA Sample No. MEU989

Date 9-14-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Spectrix - Houston CASE NO. 7852

SOW NO. 784

LAB SAMPLE ID. NO. 8708035-16A,16B QC REPORT NO. 138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	78U	P	13.	Magnesium	40600 EJ	P
2.	Antimony	50U	P	14.	Manganese	42	P
3.	Arsenic	10U	F	15.	Mercury	0.2U ex R UJ	CV
4.	Barium	[32]	P	16.	Nickel	22U	P
5.	Beryllium	2U	P	17.	Potassium	[1700]	P
6.	Cadmium	5U	P	18.	Selenium	5U	F
7.	Calcium	57200	P	19.	Silver	8U	P
8.	Chromium	9U	P	20.	Sodium	30100	P
9.	Cobalt	20U	P	21.	Thallium	10U R UJ	F
10.	Copper	9U	P	22.	Tin	38U	P
11.	Iron	43U	P	23.	Vanadium	11U	P
12.	Lead	5U R UJ	F	24.	Zinc	28 EJ	P
Cyanide		10U	Color	Percent Solids (%)			—

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.

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Lab Manager: Candace Friday for Ken Evanden

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Date 9-14-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Spectrix - Houston CASE NO. 7852

SOW NO. 784

LAB SAMPLE ID. NO. 8708035-17A,17B QC REPORT NO. 138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	78U	P	13.	Magnesium	96300 E J	P
2.	Antimony	50U	P	14.	Manganese	51	P
3.	Arsenic	10U	F	15.	Mercury	0.2U R UJ	CV
4.	Barium	[167]	P	16.	Nickel	22U	P
5.	Beryllium	2U	P	17.	Potassium	[850]	P
6.	Cadmium	5U	P	18.	Selenium	5U	F
7.	Calcium	105000	P	19.	Silver	8U	P
8.	Chromium	9U	P	20.	Sodium	19900	P
9.	Cobalt	20U	P	21.	Thallium	10U R UJ	F
10.	Copper	9U	P	22.	Tin	38U	P
11.	Iron	6890	P	23.	Vanadium	11U	P
12.	Lead	5U R UJ	F	24.	Zinc	3110 E J	P

Cyanide 10U Color Percent Solids (%) —

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:

000039

Lab Manager Candace Ziday
for Ken Cronan

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EPA Sample No. MEU996

Date 9-14-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Spectrix - Houston CASE NO. 7852

SOW NO. 784

LAB SAMPLE ID. NO. 8708035-18A,18B QC REPORT NO. 138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	78U	P	13.	Magnesium	51900EJ	P
2.	Antimony	50U	P	14.	Manganese	71	P
3.	Arsenic	10U	F	15.	Mercury	0.2U RVJCV	
4.	Barium	[114]	P	16.	Nickel	22U	P
5.	Beryllium	2U	P	17.	Potassium	[9400]	P
6.	Cadmium	5U	P	18.	Selenium	5U	F
7.	Calcium	126000	P	19.	Silver	8U	P
8.	Chromium	9U	P	20.	Sodium	57400	P
9.	Cobalt	20U	P	21.	Thallium	10U RVJ	F
10.	Copper	9U	P	22.	Tin	38U	P
11.	Iron	3010	P	23.	Vanadium	11U	P
12.	Lead	5U RVJ	F	24.	Zinc	78 EJ	P
Cyanide		10U	Color	Percent Solids (%)		—	

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:

000040

Lab Manager: Candace Friday for Ken Evonden

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EPA Sample No. MEU997

Date 9-14-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Spectrix - Houston CASE NO. 7852

SOW NO. 784

LAB SAMPLE ID. NO. 8708035-19A,19B QC REPORT NO. 138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	78U	P	13.	Magnesium	146000 E J	P
2.	Antimony	50U	P	14.	Manganese	193	P
3.	Arsenic	10U	F	15.	Mercury	0.2U R UJ	CV
4.	Barium	[38]	P	16.	Nickel	22U	P
5.	Beryllium	2U	P	17.	Potassium	[2140]	P
6.	Cadmium	5U	P	18.	Selenium	5U	F
7.	Calcium	349000	P	19.	Silver	[9]	P
8.	Chromium	9U	P	20.	Sodium	28000	P
9.	Cobalt	20U	P	21.	Thallium	10U R UJ	F
10.	Copper	9U	P	22.	Tin	38U	P
11.	Iron	8920	P	23.	Vanadium	11U	P
12.	Lead	5U R UJ	F	24.	Zinc	52 E J	P

Cyanide 10U Color Percent Solids (%) —

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:

000041

Lab Manager: Claudia Zuiday for Ken Brondu

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EPA Sample No. MEU998

Date 9-14-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Spectrix - Houston CASE NO. 7852

SOW NO. 784

LAB SAMPLE ID. NO. 8708035-20A,20B QC REPORT NO. 138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	78U	P	13.	Magnesium	43800 EJ	P
2.	Antimony	50U	P	14.	Manganese	108	P
3.	Arsenic	10U	F	15.	Mercury	0.2U R UJ	CV
4.	Barium	[38]	P	16.	Nickel	22U	P
5.	Beryllium	2U	P	17.	Potassium	410U	P
6.	Cadmium	5U	P	18.	Selenium	5U	F
7.	Calcium	107000	P	19.	Silver	8U	P
8.	Chromium	9U	P	20.	Sodium	[3610]	P
9.	Cobalt	20U	P	21.	Thallium	10U R UJ	F
10.	Copper	9U	P	22.	Tin	38U	P
11.	Iron	150 A	P	23.	Vanadium	11U	P
12.	Lead	5U R UJ	F	24.	Zinc	3340 EJ	P
Cyanide		10U	Color	Percent Solids (%)			—

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: Note Fe flagged w/an A to represent an approximation based on the first CV of 3 pairs of replicates.

000042

Lab Manager: Candace Ridgway for Ken Evanda

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Spectrix O.C. Control # 7852-05-06

Form I

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EPA Sample No. MEU999

Date 9-14-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Spectrix - Houston CASE NO. 7852

SOW NO. 784

LAB SAMPLE ID. NO. 8708035-21A,21B QC REPORT NO. 138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	78U	P	13.	Magnesium	52900 EJ	P
2.	Antimony	50U	P	14.	Manganese	30	P
3.	Arsenic	10U	F	15.	Mercury	0.2U R UJ	CV
4.	Barium	[143]	P	16.	Nickel	22U	P
5.	Beryllium	2U	P	17.	Potassium	[1600]	P
6.	Cadmium	5U	P	18.	Selenium	5U	F
7.	Calcium	76800	P	19.	Silver	8U	P
8.	Chromium	9U	P	20.	Sodium	24500	P
9.	Cobalt	20U	P	21.	Thallium	10U R UJ	F
10.	Copper	9U	P	22.	Tin	38U	P
11.	Iron	1760	P	23.	Vanadium	11U	P
12.	Lead	5U R UJ	F	24.	Zinc	359 EJ	P

Cyanide 10U Colorc Percent Solids (%) —

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:

000043

Lab Manager: Candace Quiday for Ken Brooks

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Spectrix D.C. Control # 7852-05-06

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EPA Sample No. MEU1000

Date 9-14-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Spectrix - Houston CASE NO. 7852

SOW NO. 784

LAB SAMPLE ID. NO. 8708052-01A,01B QC REPORT NO. 138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	78U	P	13.	Magnesium	340U EJ	P
2.	Antimony	50U	P	14.	Manganese	4U	P
3.	Arsenic	10U	F	15.	Mercury	0.2U R UJ	CV
4.	Barium	26U	P	16.	Nickel	22U	P
5.	Beryllium	2U	P	17.	Potassium	410U	P
6.	Cadmium	5U	P	18.	Selenium	5U	F
7.	Calcium	310U	P	19.	Silver	8U	P
8.	Chromium	9U	P	20.	Sodium	250U	P
9.	Cobalt	20U	P	21.	Thallium	10U R UJ	F
10.	Copper	9U	P	22.	Tin	38U	P
11.	Iron	43U	P	23.	Vanadium	11U	P
12.	Lead	5U R UJ	F	24.	Zinc	9U EJ	P
Cyanide		10U Color		Percent Solids (%)		—	

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:

000044

Lab Manager: Candace Sidey for Ken Crowder

QC EXCEPTION SUMMARY REPORT

CASE # 7852
DATA SET # 4311
LAB Q.C. # 138
DATE: 10.5.87

SITE HOOLE
LAB SPECTRIX
REVIEWED BY [illegible]

MATRIX: IPW
CONC. : 1PL

WATER SAMPLE SPK. MEVP85
WATER SAMPLE DUP.
SOIL SAMPLE SPK.
SOIL SAMPLE DUP.

	OVERALL CASE QC									MATRIX SPECIFIC QC						SAMPLE SPECIFIC QC		FIELD QC			REGIONAL QC			OTHER COMMENTS
	Holding Time	Cal Blanks	Ind Calcer	Contin. Calcer	Prep Blk AQ	Prep Blk SOL	ICS %R	ICS %R AQ	ICS %R SOL	Sol Dup RPD	Sol Spk. %R	AQ Dup RPD	AQ Spk. %R	Ser Dilu AQ	Ser Dilu SOL	GFAA Dup	GFAA Spike	Blank	Dup RPD	Spike %R	Stand Blank	Stand Spike %R	Spike Sample RPD	
Aluminum																								
Antimony																								
Arsenic																								
Barium																								
Beryllium																								
Cadmium																								
Calcium																								
Chromium																								
Cobalt																								
Copper																								
Iron																								
Lead													59											
Magnesium														X										
Manganese																								
Mercury													62											
Nickel																								
Potassium																								
Selenium																								
Silver																								
Sodium																								
Thallium													70											
Tin																								
Vanadium																								
Zinc														X										
Cyanide																								

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Spectrix Q.C. Control # 7852-05-05

Form III A

Q. C. Report No. 138

BLANKS

LAB NAME Spex/Hon

CASE NO. 7852

DATE 9-14-87

UNITS µg/L

Matrix Water

Preparation Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank 1	2
Metals:							
1. Aluminum	78u	78u	78u	78u	78u	[80]	
2. Antimony	50u	50u	50u	50u	50u	50u	
3. Arsenic	4u	4u	[4.1]	4u	4u	4u	
4. Barium	26u	26u	26u	26u	26u	26u	
5. Beryllium	2u	2u	2u	2u	2u	2u	
6. Cadmium	5u	5u	5u	5u	5u	5u	
7. Calcium	310u	310u	310u	310u	310u	310u	
8. Chromium	9u	9u	9u	9u	9u	9u	
9. Cobalt	20u	20u	20u	20u	20u	20u	
10. Copper	9u	9u	9u	9u	9u	9u	
11. Iron	43u	43u	43u	43u	43u	43u	
12. Lead	2u	2u	2u	2u	2u	2u	
13. Magnesium	340u	340u	340u	340u	340u	340u	
14. Manganese	4u	4u	4u	4u	4u	4u	
15. Mercury	0.2u	0.2u	0.2u	0.2u	—	0.2u	
16. Nickel	22u	22u	22u	22u	22u	22u	
17. Potassium	410u	410u	410u	410u	410u	410u	
18. Selenium	2u	[4.2]	2u	[3.7]	2u	2u	
19. Silver	8u	8u	8u	8u	8u	8u	
20. Sodium	250u	250u	250u	250u	250u	250u	
21. Thallium	2u	2u	2u	2u	2u	2u	
22. Tin	38u	38u	38u	38u	38u	38u	
23. Vanadium	11u	11u	11u	11u	11u	11u	
24. Zinc	9u	9u	9u	9u	9u	[11]	
Other:							
Cyanide	10u	10u	10u	10u	10u	10u	

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Spectrix O.C. Control # 7852-05-05

Form III B

Q. C. Report No. 138

BLANKS

LAB NAME Spex/Hou

CASE NO. 7852

DATE 9-14-87

UNITS ug/L

Matrix Water

Preparation Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank 1	2
Metals:							
1. Aluminum		78u	78u				
2. Antimony		—	—				
3. Arsenic		4u	4u				
4. Barium		26u	—				
5. Beryllium		—	—				
6. Cadmium		—					
7. Calcium		310u					
8. Chromium		—					
9. Cobalt							
10. Copper							
11. Iron							
12. Lead		2u	2u	2u	[2.2]		
13. Magnesium		340u	340u	—			
14. Manganese							
15. Mercury							
16. Nickel							
17. Potassium							
18. Selenium		2u	2u	2u	2u		
19. Silver		8u	8u				
20. Sodium							
21. Thallium		2u	2u	2u	2u		
22. Tin							
23. Vanadium							
24. Zinc							
Other:							
Cyanide							

000051

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7852-05-05
Spectrix Q.C. Control #

Form III C
Q. C. Report No. 138
BLANKS

LAB NAME Spex / Hou
DATE 9-14-87

CASE NO. 7852
UNITS ug/L

Matrix Water

Preparation Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank 1	2
Metals:							
1. Aluminum							
2. Antimony							
3. Arsenic							
4. Barium							
5. Beryllium							
6. Cadmium							
7. Calcium							
8. Chromium							
9. Cobalt							
10. Copper							
11. Iron							
12. Lead		2u	—	—			
13. Magnesium							
14. Manganese							
15. Mercury							
16. Nickel							
17. Potassium							
18. Selenium							
19. Silver							
20. Sodium							
21. Thallium							
22. Tin							
23. Vanadium							
24. Zinc							
Other:							
Cyanide							

000052

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Form V

Q. C. Report No. 138 7852-05-05

SPIKE SAMPLE RECOVERY

LAB NAME Spex / Hou

DATE 9-14-87

CASE NO. 7852

EPA Sample No. MEU985

Lab Sample ID No. 8708035-04A,04C

Units µg/L

Matrix Water

Compound	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R[1]	
Metals:						
1. Aluminum	75-125	2230	78u	2000	112	
2. Antimony	-	574	50u	500	115	
3. Arsenic	-	24.8	10u	20	124	
4. Barium	-	1940	[88]	2000	92.6	
5. Beryllium	-	50	2u	50	100	
6. Cadmium	-	47	5u	50	94.0	
7. Calcium	-	209000	113000	100000	96.0	
8. Chromium	-	182	9u	200	91.0	
9. Cobalt	-	481	20u	500	96.2	
10. Copper	-	248	9u	250	99.2	
11. Iron	-	2140	1240	1000	90.0	
12. Lead	-	11.8	5u	20	59.0	R
13. Magnesium	-	111000	52000	50000	118	
14. Manganese	-	269	68	200	100	
15. Mercury	-	0.62	0.2u	1.0	62.0	R
16. Nickel	-	390	22u	400	97.5	
17. Potassium	-	49700	[320]	50000	96.8	
18. Selenium	-	12.1	5u	10	121	
19. Silver	-	54	8u	50	108	
20. Sodium	-	148000	52700	100000	95.3	
21. Thallium	-	35.1	10u	50	70.2	R
22. Tin	-	411	38u	400	103	
23. Vanadium	-	509	11u	500	102	
24. Zinc	-	322	110	200	106	
Other:						
-						
Cyanide	-	98.8	10u	100	98.8	

[1] %R = [(SSR - SR)/SA] x 100

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Form VI

Q. C. Report No. 138

DC # 7852-05-05

DUPLICATES

LAB NAME Spex/Hou

DATE 9-14-87

CASE NO. 7852

EPA Sample No. MEU985

Lab Sample ID No. 8709035-09A,03B

Units ug/L

Matrix Water

Compound	Control Limit[1]	Sample(S)	Duplicate(D)	RPD[2]
Metals:				
1. Aluminum		78U	[186]	NC
2. Antimony		50U	50U	NC
3. Arsenic		10U	10U	NC
4. Barium		[88]	[86]	NC
5. Beryllium		2U	2U	NC
6. Cadmium		5U	5U	NC
7. Calcium		113000	118000	4.33
8. Chromium		9U	9U	NC
9. Cobalt		20U	20U	NC
10. Copper		9U	9U	NC
11. Iron		1240	1220	1.63
12. Lead		5U	5U	NC
13. Magnesium		52000	57500	10.0
14. Manganese		68	76	11.1
15. Mercury		0.2U	0.2U	NC
16. Nickel		22U	22U	NC
17. Potassium		[320]	[170]	NC
18. Selenium		5U	5U	NC
19. Silver		8U	8U	NC
20. Sodium		52700	54400	3.18
21. Thallium		10U	10U	NC
22. Tin		38U	38U	NC
23. Vanadium		11U	11U	NC
24. Zinc		110	118	7.02
Other:				
Cyanide		10U	10U	NC

* Out of Control

[1] To be added at a later date.

[2] RPD = {|S - D|/((S + D)/2)} x 100

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Form VII

Q.C. Report No. 138 7852-05-05

INSTRUMENT DETECTION LIMITS AND

LABORATORY CONTROL SAMPLE

LAB NAME Spex/Hou CASE NO. 7852

DATE 9-14-87 LCS UNITS ug/L mg/kg (Circle One)

Compound	Required Detection Limits (CRDL)-ug/l	Instrument Detection Limits (IDL)-ug/l ICP/AA	Furnace	Lab Control Sample True	Found	%R
Metals:						
1. Aluminum	200	78		1980	1930	97.5
2. Antimony	60	50		1090	979	89.9
3. Arsenic	10		4	62.0	63.0	102
4. Barium	200	26		1980	1650	83.3
5. Beryllium	5	2		481	470	97.7
6. Cadmium	5	5		489	453	92.6
7. Calcium	5000	310		49800	43800	88.0
8. Chromium	10	9		506	456	90.1
9. Cobalt	50	20		474	457	96.4
10. Copper	25	9		542	486	89.7
11. Iron	100	43		1990	1730	86.9
12. Lead	5		2	63.0	64.1	102
13. Magnesium	5000	340		25000	25100	100
14. Manganese	15	4		513	480	93.6
15. Mercury	0.2 CV	0.15		5.2	4.98	95.8
16. Nickel	40	28		496	466	94.0
17. Potassium	5000	410		50200	45300	90.2
18. Selenium	5		2	25.0	28.0 S	112
19. Silver	10	8		509	502	98.6
20. Sodium	5000	250		50700	47200	93.1
21. Thallium	10		2	25.0	23.6	94.4
22. Tin	40	38		1000	1030	103
23. Vanadium	50	11		511	487	95.3
24. Zinc	20	9		3100	2720	87.7
Other:						
Cyanide	10	NR		500	460	92.0

000056

SPECIAL ANALYTICAL SERVICES
DETECTION LIMITS

Drinking Water Samples

SAS DRINKING WATER
INORGANIC DETECTION LIMITS

JANUARY 1986

PARAMETER	PROCEDURE	DETECTION LIMITS	RANGE	UNITS
ALUMINUM	ICP	80	80 TO 1,000,000	ug/L
ANTIMONY	FURNACE	2	2 TO 30	ug/L
ARSENIC	FURNACE	2	2 TO 30	ug/L
BARIUM	ICP	6	6 TO 20,000	ug/L
BERYLLIUM	ICP	1	1 TO 20,000	ug/L
CADMIUM	ICP	10	10 TO 20,000	ug/L
CADMIUM	FURNACE	0.2	0.2 TO 2	ug/L
CALCIUM	ICP	0.5	0.5 TO 1,000	mg/L
CHROMIUM	ICP	8	8 TO 20,000	ug/L
COBALT	ICP	6	6 TO 20,000	ug/L
COPPER	ICP	6	6 TO 20,000	ug/L
IRON	ICP	80	80 TO 1,000,000	ug/L
LEAD	FURNACE	2	2 TO 30	ug/L
LEAD	ICP	70	70 TO 20,000	ug/L
LITHIUM	ICP	10	10 TO 20,000	ug/L
MAGNESIUM	ICP	0.1	0.1 TO 200	mg/L
MANGANESE	ICP	5	5 TO 20,000	ug/L
MERCURY	COLD VAPOR	0.1	0.1 TO 2	ug/L
MOLYBDENUM	ICP	150	15 TO 20,000	ug/L
NICKEL	ICP	15	15 TO 20,000	ug/L
POTASSIUM	ICP	2	2 TO 1,000	mg/L
SELENIUM	FURNACE	2	2 TO 30	ug/L
SILVER	ICP	6	6 TO 10,000	ug/L
SODIUM	ICP	1	1 TO 30	mg/L
STRONTIUM	ICP	10	10 TO 20,000	ug/L
THALLIUM	FURNACE	2	2 TO 30	ug/L
TITANIUM	ICP	25	25 TO 20,000	ug/L
TIN	ICP	40	40 TO 20,000	ug/L
VANADIUM	ICP	5	5 TO 20,000	ug/L
YTTRIUM	ICP	5	5 TO 20,000	ug/L
ZINC	ICP	40	40 TO 1,000,000	ug/L
CYANIDE	AA	8	8 TO 200	ug/L

NOTE: THE ABOVE LIST MAY OR MAY NOT CONTAIN COMPOUNDS THAT ARE ROUTINELY ANALYZED AT CRL FOR LOW LEVEL DETECTION LIMITS FOR DRINKING WATER.

ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

Date Received for Review 10/01 Date Review Completed 10/05/87

To: Tom Pachowicz
From: Zena Gold-Kaufman
Subject: HOD Lndfl

PAN: IL0141 Case # 7852/3048E

Sample Description

Organics (VOA, ABN, Pest/PCB)		Inorganics (Metals, Cyanide)	
#	Low Soil	#	Low Soil
	Low Water		Low Water
	Drinking Water	10	Drinking Water
	Other		Other

Project Data Status _____ Completed!!

_____ Incomplete, awaiting: _____

FIT Data Review Findings:

Field blank showed contamination for ~~vanc~~ Thallium. All Cu data and Tl data J.

✓ Compounds were detected in sample(s); see enclosed Chemical Evaluation Form.

Book No. 6 Page No. 262

8/13

recycled paper

ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

Date Received for Review 10/01 Date Review Completed 10/05/87

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Organics (VOA, ABN, Pest/PCB)		Inorganics (Metals, Cyanide)	
#	Low Soil	#	Low Soil
	Low Water		Low Water
	Drinking Water	10	Drinking Water
	Other		Other

Project Data Status _____ Completed!!

_____ Incomplete, awaiting: _____

FIT Data Review Findings:

Field blank showed contamination for ~~vare~~ Thallium. All Cu data and Tl data J.

✓ Compounds were detected in sample(s); see enclosed Chemical Evaluation Form.

Book No. 6 Page No. 262

8/13

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

RECEIVED OCT 01 1987

DATE: 9.28.87

SUBJECT: Review of Region V CLP Data
Received for Review on September 1, 1987

FROM: Curtis Ross, Director (5SCRL)
Central Regional Laboratory Jay Thakker

TO: Data User: FIT

We have reviewed the data for the following case(s).

SITE NAME: HOD Landfill SMO case No. 7852SAS3048E

EPA Data Set No. SF4311 No. of Samples: 10 D.U./Activity Numbers Y905/C72100

CRL No. 87FP16S18 - D25, R04

SMO Traffic No. MEU 330 - 339

CLP Laboratory: Chemtech Hrs. Required for Review: 1

Following are our findings: This review covers 10 low water samples analyzed for metals and cyanide.
Field blank (MEU338) showed contamination for TC. Duplicate analysis gave high RPD for Tr. All TC data are estimated.
Initial Calibration Blank and Continuing Calibration Blanks gave high readings for Cu. All Cu data higher than IDL are estimate
All other QC audits are acceptable.

Joe Lerin

9.28.87

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications noted above.
( ) Data are preliminary - pending verification by Contractor Laboratory.
( ) Data are unacceptable.

cc: Duane Geuder, Quality Assurance Officer, EPA Support Services
James Petty, Chief Quality Assurance Research, EMSL, Las Vegas

A FORM 1320-6 (Rev. 5/87)

ecology and environment, inc.
CHICAGO, ILLINOIS

CHEMICAL EVALUATION FORM

SITE NAME: HOD PAN# ILO141 DATE: 10/4/87

CASE # 7852 | 30486 UNITS- µg/l REVIEWER: [illegible]

TOX/ PERS	COMPOUND	CRQL	3-5xCRQL	MEU 330	MEU 331	MEU 332	MEU 333	334	335	336
	ALUMINUM									
	ANTIMONY									
	ARSENIC									
	BARIUM									
	BERYLLIUM									
	CADMIUM									
	CHROMIUM	8	40		11.6				[9.4]	
	COBALT								486	
	COPPER J	6	30		10.7J				176J	19.4J
	LEAD									
	MERCURY									
	NICKEL									
	SELENIUM									
	SILVER									
	THALLIUM J	2	10	4.87J	4.25J	3.91J	5.3J	5.76J	4 J	
	TIN									
	VANADIUM									
	ZINC									
	CYANIDE									

ecology and environment, inc.
CHICAGO, ILLINOIS

CHEMICAL EVALUATION FORM

SITE NAME: HOD PAN# 120141 DATE: 10/4/87

CASE # 7852/3048E UNITS- µg/l REVIEWER: ZCC

TOX/ PERS	COMPOUND	CRDL	3-5xCRDL	337	338	339				
	Copper J			[9.4]J						
	Thallium J			8.9J	4.85J	3.5J				

WA85-J839 - AMENDMENT THREE (3)
U.S. EPA Contract Laboratory Program
ample Management Office
O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

Date 8/24/87

RECEIVED OCT 01 1987

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US EPA SEP 28 1987 REGIONAL LAB. STREET ILLINOIS 60605

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name Chemtech Consulting Group Case No. 7852/3048E
DW No. 785 Q.C. Report No. G2-952

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
MEU 330	G2-952-01	MEU 338	G2-952-09
331	-02	339	-10
332	-03		
333	-04		
334	-05		
335	-06		
336	-07		
337	-08		

Comments:

interelement and background corrections applied? Yes X No ____
If yes, corrections applied before X or after ____ generation of raw data.

Footnotes:

NR - Not required by contract at this time
Form I:
Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract-required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP), A (for Flame AA) or F (for Furnace AA).
U - Indicates element was analyzed for but not detected. Report with the instrument detection limit value (e.g., 10U).
E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.
S - Indicates 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.

Indicate method used: P for ICP; A for Flame AA and F for Furnace.

Form I

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. MEU 330

Date 8/28/87

RECEIVED OCT 01 1987

INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group

CASE NO. 7852/3048E

SOW NO. 785

Lab Receipt Date 8/17/87

LAB SAMPLE ID. NO. G2-952-01

QC REPORT NO. G2-952

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	100U	P	13.	Magnesium	46200	P
2.	Antimony	3U	FS	14.	Manganese	18.2	P
3.	Arsenic	2U	FS	15.	Mercury	0.2U	
4.	Barium	238	P	16.	Nickel	14U	P
5.	Beryllium	4U	P	17.	Potassium	[1120]	A
6.	Cadmium	0.5U	FS	18.	Selenium	2U	FS
7.	Calcium	73600	P	19.	Silver	5U	P
8.	Chromium	9U	P	20.	Sodium	53000	P
9.	Cobalt	7U	P	21.	Thallium	4.87 [1.87]	FS * J
10.	Copper	9U	P	22.	Vanadium	8U	P
11.	Iron	2540	P	23.	Zinc	206	P
12.	Lead	2U	FS		Percent Solids (%)		
	Cyanide	10U					

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: Color: Before- Colorless After- Colorless. Clarity: Clear

Lab Manager: [signature]

Form I

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. MEU 331

Date 8/28/87

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INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group

CASE NO. 7852/3048E

SOW NO. 785

Lab Receipt Date 8/17/87

LAB SAMPLE ID. NO. G2-952-02

QC REPORT NO. G2-952

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	100U	P	13.	Magnesium	14200	P
2.	Antimony	3UFS		14.	Manganese	[7.5]	P
3.	Arsenic	2U	FS	15.	Mercury	0.2U	
4.	Barium	113 ~~[142]~~	P	16.	Nickel	14U	P
5.	Beryllium	4U	P	17.	Potassium	[817]	A
6.	Cadmium	0.5U	FS	18.	Selenium	2U	FS
7.	Calcium	33400	P	19.	Silver	5U	P
8.	Chromium	11.6	P	20.	Sodium	49000	P
9.	Cobalt	7U	P	21.	Thallium	~~4.5~~ [4.25]	FS *
10.	Copper	10.7 ~~[10.7]~~	P	22.	Vanadium	8U	P
11.	Iron	552	P	23.	Zinc	[17.6]	P
12.	Lead	2U	FS		Percent Solids (%)		
	Cyanide	10U					

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: Color: Before- Colorless After- Colorless Clarity: Clear

Lab Manager: [signature]

Form I

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. MEU 332

Date 8/28/87

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INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group

CASE NO. 7852/3048E

SOW NO. 785

Lab Receipt Date 8/17/87

LAB SAMPLE ID. NO. G2-952-03

QC REPORT NO. G2-952

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	100U	P	13.	Magnesium	14800	P
2.	Antimony	3U	FS	14.	Manganese	6U	P
3.	Arsenic	2U	FS	15.	Mercury	0.2U	
4.	Barium	129 [129]	P	16.	Nickel	14U	P
5.	Beryllium	4U	P	17.	Potassium	[585]	A
6.	Cadmium	0.5U	FS	18.	Selenium	2U	FS
7.	Calcium	32400	P	19.	Silver	5U	P
8.	Chromium	9U	P	20.	Sodium	49400	P
9.	Cobalt	7U	P	21.	Thallium	3.9 [3.9]	FS *
10.	Copper	9U	P	22.	Vanadium	8U	P
11.	Iron	539	P	23.	Zinc	1090	P
12.	Lead	2.45 [2.45]	FS		Percent Solids (%)		
	Cyanide	10U					

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: Color: Before- Colorless After- Colorless. Clarity: Clear

Lab Manager [signature]

Form I

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. MEU 333

Date 8/28/87

RECEIVED OCT 01 1987

INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group

CASE NO. 7852/3048E

SOW NO. 785

Lab Receipt Date 8/17/87

LAB SAMPLE ID. NO. G2-952-04

QC REPORT NO. G2-952

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	100U	P	13.	Magnesium	16300	P
2.	Antimony	3U	FS	14.	Manganese	6U	P
3.	Arsenic	2U	FS	15.	Mercury	0.2U	
4.	Barium	40U	P	16.	Nickel	14U	P
5.	Beryllium	4U	P	17.	Potassium	580U	A
6.	Cadmium	0.5U	FS	18.	Selenium	2U	FS
7.	Calcium	26200	P	19.	Silver	5U	P
8.	Chromium	9U	P	20.	Sodium	57300	P
9.	Cobalt	7U	P	21.	Thallium	5.3	FS*J
10.	Copper	9U	P	22.	Vanadium	8U	P
11.	Iron	175	P	23.	Zinc	41.6	P
12.	Lead	2U	FS		Percent Solids (%)		
	Cyanide	10U					

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: Color: Before- Colorless After- Colorless Clarity: Clear

Lab Manager: [signature]

Form I

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. MEU 334

Date 8/24/87

RECEIVED OCT 01 1987

INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group
CASE NO. 7852/3048E
SOW NO. 785
Lab Receipt Date 8/17/87
LAB SAMPLE ID. NO. G2-952-05
QC REPORT NO. G2-952

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	100U	P	13.	Magnesium	16400	P
2.	Antimony	3U	FS	14.	Manganese	6U	P
3.	Arsenic	2U	FS	15.	Mercury	0.2U	
4.	Barium	53 ~~23~~ [633]	P	16.	Nickel	14U	P
5.	Beryllium	4U	P	17.	Potassium	500U	A
6.	Cadmium	0.5U	FS	18.	Selenium	2U	FS
7.	Calcium	25800	P	19.	Silver	5U	P
8.	Chromium	9U	P	20.	Sodium	58900	P
9.	Cobalt	7U	P	21.	Thallium	5.76	FS *U
10.	Copper	9U	P	22.	Vanadium	8U	P
11.	Iron	175	P	23.	Zinc	34.6	P
12.	Lead	2U	FS		Percent Solids (%)		
	Cyanide	10U					

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: Color: Before- Colorless After- Colorless. Clarity: Clear

Lab Manager [signature]

TFB Amend. One

Form I

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. MEU 335

Date 8/28/87

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INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group

CASE NO. 7852/3048E

SOW NO. 785

Lab Receipt Date 8/17/87

LAB SAMPLE ID. NO. G2-952-06

QC REPORT NO. G2-952

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	100U	P	13.	Magnesium	18100	P
2.	Antimony	3U	FS	14.	Manganese	6U	P
3.	Arsenic	2U	FS	15.	Mercury	0.2U	
4.	Barium	40U	P	16.	Nickel	14U	P
5.	Beryllium	4U	P	17.	Potassium	15993	A
6.	Cadmium	0.5U	FS	18.	Selenium	2U	FS
7.	Calcium	22300	P	19.	Silver	5U	P
8.	Chromium	19.47	P	20.	Sodium	56600	P
9.	Cobalt	7U	P	21.	Thallium	4.8 B43	F S-*
10.	Copper	17.6 17.6	P	22.	Vanadium	8U	P
11.	Iron	198	P	23.	Zinc	26.6	P
12.	Lead	2U	FS		Percent Solids (%)		
	Cyanide	10U					

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: Color: Before- Colorless After- Colorless. Clarity: Clear

Lab Manager [signature]

TFB Amend. One

Form I

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. MEU 336

Date 8/28/87

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INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group

CASE NO. 7852/3048E

SOW NO. 785

Lab Receipt Date 8/17/87

LAB SAMPLE ID. NO. G2-952-07

QC REPORT NO. G2-952

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	100 U	P	13.	Magnesium	42100	P
2.	Antimony	3U	F S	14.	Manganese	24.8	P
3.	Arsenic	2U	F S	15.	Mercury	0.2U	
4.	Barium	[147.6]	P	16.	Nickel	14U	P
5.	Beryllium	4U	P	17.	Potassium	[575]	A
6.	Cadmium	0.5U	F S	18.	Selenium	2U	F S
7.	Calcium	65600	P	19.	Silver	5U	P
8.	Chromium	9U	P	20.	Sodium	25000	P
9.	Cobalt	7U	P	21.	Thallium	3U	F S *
10.	Copper	19.9 [10.43]	P	22.	Vanadium	8U	P
11.	Iron	370	P	23.	Zinc	503	P
12.	Lead	2U	F S		Percent Solids (%)		
	Cyanide	10U					

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: Color: Before- Colorless After- Colorless Clarity: Clear

Lab Manager [signature]

TFB Amend. One

Form I

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. MEU 337

Date 8/28/87

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INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group

CASE NO. 7852/3048E

SOW NO. 785

Lab Receipt Date 8/17/87

LAB SAMPLE ID. NO. G2-952-08

QC REPORT NO. G2-952

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	100 U	P	13.	Magnesium	24600	P
2.	Antimony	3U	FS	14.	Manganese	[8.6]	P
3.	Arsenic	2U	FS	15.	Mercury	0.2U	
4.	Barium	57.1 [57.4]	P	16.	Nickel	14U	P
5.	Beryllium	4U	P	17.	Potassium	[614]	A
6.	Cadmium	0.5U	FS	18.	Selenium	2U	FS
7.	Calcium	35100	P	19.	Silver	5U	P
8.	Chromium	9U	P	20.	Sodium	44600	P
9.	Cobalt	7U	P	21.	Thallium	8.91	FS * J
10.	Copper	[9.4]	P J	22.	Vanadium	8U	P
11.	Iron	564	P	23.	Zinc	[7.9]	P
12.	Lead	2U	FS		Percent Solids (%)		
	Cyanide	10 U					

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: Color: Before- Colorless After- Colorless. Clarity: Clear

Lab Manager [signature]

Form I

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. MEU 338

Date 8/28/87

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INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group
CASE NO. 7852/3048E
SOW NO. 785
Lab Receipt Date 8/17/87
LAB SAMPLE ID. NO. G2-952-09
QC REPORT NO. G2-952

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	100U	P	13.	Magnesium	244U	P
2.	Antimony	3U	FS	14.	Manganese	6U	P
3.	Arsenic	2U	FS	15.	Mercury	0.2U	
4.	Barium	40U	P	16.	Nickel	14U	P
5.	Beryllium	4U	P	17.	Potassium	500U	A
6.	Cadmium	0.5U	FS	18.	Selenium	2U	FS
7.	Calcium	740U	P	19.	Silver	5U	P
8.	Chromium	9U	P	20.	Sodium	85U	P
9.	Cobalt	7U	P	21.	Thallium	4.5 [0.85]	FS*
10.	Copper	9U	P	22.	Vanadium	8U	P
11.	Iron	100U	P	23.	Zinc	7U	P
12.	Lead	2U	FS		Percent Solids (%)		
	Cyanide	10U					

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: Color: Before- Colorless After- Colorless. Clarity: Clear

Lab Manager: [signature]

Form I

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. MEU 339

Date 8/28/87

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INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group

CASE NO. 7852/3048E

SOW NO. 785

Lab Receipt Date 8/17/87

LAB SAMPLE ID. NO. G2-952-10

QC REPORT NO. G2-952

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	100U	P	13.	Magnesium	24800	P
2.	Antimony	3U	FS	14.	Manganese	[8.6]	P
3.	Arsenic	2U	FS	15.	Mercury	0.2U	
4.	Barium	[53]	P	16.	Nickel	14U	P
5.	Beryllium	4U	P	17.	Potassium	[512]	A
6.	Cadmium	0.5U	FS	18.	Selenium	2U	FS
7.	Calcium	35300	P	19.	Silver	5U	P
8.	Chromium	9U	P	20.	Sodium	45100	P
9.	Cobalt	7U	P	21.	Thallium	3.5 [3.5]	P S.*U
10.	Copper	9U	P	22.	Vanadium	8U	P
11.	Iron	564	P	23.	Zinc	7U	P
12.	Lead	2U	FS		Percent Solids (%)		
	Cyanide	10U					

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: Color: Before- Colorless After- Colorless Clarity: Clear

Lab Manager [signature]

TFB Amend. One

WA85-J839 - AMENDMENT THREE (3)

Form III

Q. C. Report No. 152

BLANKS

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LAB NAME Chemtech Consulting Group

DATE 8/28/87 EM

CASE NO. 7852/304RE

UNITS ug/L

Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank[1] Matrix: water ug/L	Matrix: 2
Metals:							
1. Aluminum	100 U	100U	100U	100U	100U	100U	
2. Antimony	3 U	3U	3U	3U		3U	
3. Arsenic	2 U	2U	2U	2U			
4. Barium	40 U	40U	40U	40U	40U	40U	
5. Beryllium	4 U	4U	4U	4U	4U	4U	
6. Cadmium	0.5 U	0.5U	0.5U	0.5U			
7. Calcium	740 U	740U	740U	740U	740U	740U	
8. Chromium	9 U	9U	9U	9U	9U	9U	
9. Cobalt	7 U	7U	7U	7U	7U	7U	
10. Copper	~~[6]~~ 8 GM	9U	~~[5]~~	9U	9U	[9.4]	
11. Iron	100 U	100U	100U	100U	100U	100U	
12. Lead	2 U	2U	2U	2U	2U		
13. Magnesium	344 U	344U	344U	344U	344U	344U	
14. Manganese	6 U	6U	6U	6U	6U	6U	
15. Mercury	0.2 U	0.2U	0.2U			0.2U	
16. Nickel	14 U	14U	14U	14U	14U	14U	
17. Potassium	500 U	500U	500U	500U		500U	
18. Selenium	2 U	2U	2U	2U	2U		
19. Silver	5 U	5U	5U	5U	5U	5U	
20. Sodium	385 U	385U	385U	385U	385U	385U	
21. Thallium	3 U	3U	3U	3U			
22. Vanadium	8 U	8U	8U	8U	8U	8U	
23. Zinc	7 U	7U	7U	7U	7U	7U	
Other: LEAD(P)	20 U	20U	20U	20U	20U	20U	
Cyanide	10U	10U	10U			10U	

[1] Reporting Units: aqueous.

WA85-J839 - AMENDMENT THREE (3)

RECEIVED

Form III

Q. C. Report No. 952

BLANKS

LAB NAME Chemtech Consulting Group

DATE 8/28/87 EM

CASE NO. 7852/30486

UNITS ug/L

Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank[1] Matrix: 1	Matrix: 2
Metals:							
1. Aluminum	U						
2. Antimony	U						
3. Arsenic	U						
4. Barium	U						
5. Beryllium	U						
6. Cadmium	U						
7. Calcium	U						
8. Chromium	U						
9. Cobalt	U						
10. Copper	U						
11. Iron	U						
12. Lead	U						
13. Magnesium	U						
14. Manganese	U						
15. Mercury	U						
16. Nickel	U						
17. Potassium	U						
18. Selenium	U	2U					
19. Silver	U						
20. Sodium	U						
21. Thallium	U						
22. Vanadium	U						
23. Zinc	U						
Other:							
Cyanide							

[1] Reporting Units: aqueous, ug/L; solid, mg/kg

IFB Amend. One

Form V

Q. C. Report No. 952

SPIKE SAMPLE RECOVERY

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LAB NAME Chemtech Consulting Group

DATE 8/28/87 EH

CASE NO. 7852/3048E

EPA Sample No. MEU-331

Lab Sample ID No. 752-02

Units ug/L

Matrix Low WATER

Compound	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R[1]
Metals:					
1. Aluminum	75-125	2020	100U	2000	101
2. Antimony	-			500	
3. Arsenic	-			20	
4. Barium	-	2150	[112]	2000	102
5. Beryllium	-	54	4U	50	108
6. Cadmium	-			50	
7. Calcium	-			—	
8. Chromium	-	214	12	200	101
9. Cobalt	-	511	7U	500	102
10. Copper	-	250	[11]	250	96
11. Iron	-	1580	552	1000	103
12. Lead	-			20	
13. Magnesium	-			—	
14. Manganese	-	214	[2.5]	200	103
15. Mercury	-	1.10	0.2U	1.0	110
16. Nickel	-	417	14U	400	104
17. Potassium	-			—	
18. Selenium	-			10	
19. Silver	-	45	5U	50	90
20. Sodium	-			—	
21. Thallium	-			50	
22. Vanadium	-	519	8U	500	104
23. Zinc	-	234	[18]	200	108
Other: LEAD(P)		488	20U	500	98
Cyanide	-	96	10U	100	96

[1] %R = [(SSR - SR)/SA] x 100

"N" - out of control

"NR" - Not required

Comments: _____

Form V

Q. C. Report No. 952

SPIKE SAMPLE RECOVERY

LAB NAME Chemtech Consulting Group

DATE 8/28/87 EH

CASE NO. 7852 / 30486

EPA Sample No. MEU 1321

Lab Sample ID No. 952-

Units ug/L

Matrix LOW WATER

Compound	Control Limit % R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R[1]
Metals:					
1. Aluminum	75-125			2000	
2. Antimony	-			500	
3. Arsenic	-			20	
4. Barium	-			2000	
5. Beryllium	-			50	
6. Cadmium	-			50	
7. Calcium	-	79300	33400	50000	92
8. Chromium	-			200	
9. Cobalt	-			500	
10. Copper	-			250	
11. Iron	-			1000	
12. Lead	-			20	
13. Magnesium	-	36700	14200	25000	90
14. Manganese	-			200	
15. Mercury	-			1.0	
16. Nickel	-			400	
17. Potassium	-	21600	18173	20000	104
18. Selenium	-			10	
19. Silver	-			50	
20. Sodium	-	94200	49000	50000	90
21. Thallium	-			50	
22. Vanadium	-			500	
23. Zinc	-			200	
Other: Lead(P)	-			500	
	-				
Cyanide	-				

[1] %R = [(SSR - SR)/SA] x 100

"N" - out of control

"NR" - Not required

Comments:

Form VI

Q. C. Report No. 952

DUPLICATES

LAB NAME Chemtech Consulting Group

DATE 8/28/87

CASE NO. 7852/3048E

EPA Sample No. MEU-330

Lab Sample ID No. 952-01

Units ug/L

Matrix LOW WATER

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Compound	Control Limit[1]	Sample(S)	Duplicate(D)	RPD[2]
Metals:				
1. Aluminum		100U	100U	NC
2. Antimony		3U	3U	NC
3. Arsenic		2U	2U	NC
4. Barium	± 200	238	229	3.8
5. Beryllium		4U	4U	NC
6. Cadmium		0.5U	0.5U	NC
7. Calcium	± 20%	73600	73800	0.3
8. Chromium		9U	9U	NC
9. Cobalt		7U	7U	NC
10. Copper		9U	9U	NC
11. Iron	±20%	2540	2640	3.9
12. Lead		2U	2U	NC
13. Magnesium	±20%	46200	46600	0.9
14. Manganese	± 15	18	20	10
15. Mercury		0.2U	0.2U	NC
16. Nickel		14U	14U	NC
17. Potassium		[1120]	[1120]	NC
18. Selenium		2U	2U	NC
19. Silver		5U	5U	NC
20. Sodium	± 20%	53000	53700	1.3
21. Thallium		4.97 [~~0.87~~]	8.33	52 ~~NC~~*
22. Vanadium		8U	8U	NC
23. Zinc	±20%	206	206	0.0
Other: LEAD(P)		20U	20U	NC
Cyanide		10U	10U	NC

* Out of Control

[1] To be added at a later date.

[2] RPD = [|S - D|/((S + D)/2)] x 100

NC - Non calculable RPD due to value(s) less than CRDL

Form VII

Q.C. Report No. 952

INSTRUMENT DETECTION LIMITS AND

LABORATORY CONTROL SAMPLE.

LAB NAME Chemtech Consulting Group CASE NO. 7852/3048E DATE 8/28/87

RECEIVED OCT 01 1987

Compound	Required Detection Limits (CRDL)-ug/l	Instrument Detection Limits (IDL)-ug/l ICP/AA ID# ICAP 6000	Instrument Detection Limits (IDL)-ug/l Furnace ID# 1234	Lab Control Sample ug/L ug/kg (circle one) True	Found	%R
Metals:						
1. Aluminum	~~200~~ 100 55	100		990	953	96
2. Antimony	60	33		545		
3. Arsenic	~~10~~ 5 ~~B~~		-/6/3/2	49		
4. Barium	~~200~~ 50 ~~B~~	40		990	977	99
5. Beryllium	5	4		240	253	105
6. Cadmium	5	4		244		
7. Calcium	~~5000~~ 1000 ~~B~~	740		24900	24200	97
8. Chromium	10	9		253	257	102
9. Cobalt	~~50~~ 10 ~~B~~	7		237	247	104
10. Copper	~~25~~ 10 ~~B~~	~~4~~ 9 ~~B~~		271	287	106
11. Iron	100	100		995	1040	104
12. Lead	5		-/2/2/2	49		
13. Magnesium	~~5000~~ 1000 ~~B~~	344		12500	12400	99
14. Manganese	~~15~~ 10 ~~B~~	6		256	257	100
15. Mercury	0.2	0.2		1.0	1.08	108
16. Nickel	~~40~~ 20 ~~B~~	~~8~~ 14 ~~B~~		248	243	98
17. Potassium	~~5000~~ 2000 ~~B~~	500*		10000	10200	102
18. Selenium	5		-2/2/2	98		
19. Silver	~~10~~ 5 ~~B~~	~~5~~ ~~B~~		254	238	94
20. Sodium	~~5000~~ 1000 ~~B~~	~~1045~~ 385 ~~B~~		25350	24600	97
21. Thallium	~~10~~ 3 ~~B~~		8/3/4/2	49		
22. Vanadium	~~50~~ 10 ~~B~~	~~12~~ 8 ~~B~~		256	248	97
23. Zinc	20	7		1550	1520	98
Other: Lead B		20		2255	2340	104
Cyanide	10	NR	NR	100	112	112

NR - Not required

AA ID # 1. Hitachi
2. P.E. 30/30
3. P.E. 5000
4. P.E. 30/30 Z

* Hitachi Elan

SPECIAL ANALYTICAL SERVICES
DETECTION LIMITS

Drinking Water Samples

SPECIAL ANALYTICAL SERVICES DRINKING WATER
VOLATILE DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT IN REAGENT WATER
BENZENE	71-43-2	1.5 ug/L
BROMODICHLOROMETHANE	75-27-4	1.5
BROMOFORM	75-25-2	1.5
BROMOMETHANE	74-83-9	10
CARBON TETRACHLORIDE	56-23-5	1.5
CHLOROBENZENE	108-90-7	1.5
CHLOROETHANE	75-00-3	1.5
2-CHLOROETHYL VINYL ETHER	110-75-8	1.5
CHLOROFORM	67-66-3	1.5
CHLOROMETHANE	74-87-3	10
DIBROMOCHLOROMETHANE	124-48-1	1.5
1,1-DICHLOROETHANE	75-34-3	1.5
1,2-DICHLOROETHANE	107-06-2	1.5
1,1-DICHLOROETHENE	75-35-4	1.5
trans-1,2-DICHLOROETHENE	156-60-5	1.5
1,2-DICHLOROPROPANE	78-87-5	1.5
cis-1,3-DICHLOPROPROPENE	10061-01-5	2
trans-1,3-DICHLOROPROPENE	10061-02-6	1
ETHYL BENZENE	100-41-4	1.5
METHYLENE CHLORIDE *	75-09-2	1
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.5
TETRACHLOROETHENE	127-18-4	1.5
TOLUENE *	108-88-3	1.5
1,1,1-TRICHLOROETHANE	71-55-6	1.5
1,1,2-TRICHLOROETHANE	79-00-5	1.5
TRICHLOROETHENE	79-01-6	1.5
VINYL CHLORIDE	75-01-4	10
ACROLEIN	107-02-8	100
ACETONE *	67-64-1	75
ACRYLONITRILE	107-13-1	50
CARBON DISULFIDE	75-15-0	3
2-BUTANONE	78-93-3	(50)
VINYL ACETATE	108-05-4	15
4-METHYL-2-PENTANONE	108-10-1	(3)
2-HEXANONE	519-78-6	(50)
STYRENE	100-42-5	1
m-XYLENE	108-38-3	2
o-XYLENE **	95-47-6	
p-XYLENE **	106-42-3	2.5 **

* Common Laboratory Solvents.
Blank Limit is 5x Method Detection Limit.
( ) Values in parentheses are estimates.
Actual values are being determined at this time
** The o-Xylene and p-xylene are reported as a total of the two.

SAS DRINKING WATER
SEMI-VOLATILES DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT	BLANK LIMIT
ANILINE	62-53-3	1.5 ug/L	3 ug/L
BIS(2-CHLOROETHYL)ETHER	111-44-4	1.5	3
PHENOL	108-95-2	2	4
2-CHLOROPHENOL	95-57-8	2	4
1,3-DICHLOROBENZENE	541-73-1	2	4
1,4-DICHLOROBENZENE	106-46-7	2	4
1,2-DICHLOROBENZENE	95-50-1	2.5	5
BENZYL ALCOHOL	100-51-6	2	4
BIS(2-CHLOROISOPROPYL) ETHER	39638-32-9	2.5	5
2-METHYLPHENOL	95-48-7	1	2
HEXACHLOROETHANE	67-72-1	2	4
N-NITROSODIPROPYLAMINE	621-64-7	1.5	3
NITROBENZENE	98-95-3	2.5	5
4-METHYLPHENOL	106-44-5	1	2
ISOPHORONE	78-59-1	2.5	5
2-NITROPHENOL	88-75-5	2	4
2,4-DIMETHYLPHENOL	105-67-9	2	4
BIS(2-CHLOROETHOXY)METHANE	111-91-1	2.5	5
2,4-DICHLOROPHENOL	120-83-2	2	4
1,2,4-TRICHLOROBENZENE	120-82-1	2	4
NAPHTHALENE	91-20-3	2	4
4-CHLOROANILINE	106-47-8	2	4
HEXACHLOROBUTADIENE	87-68-3	2.5	5
BENZOIC ACID	65-85-0	(30)	(60)
2-METHYLNAPTHALENE	91-57-6	2	4
4-CHLORO-3-METHYLPHENOL	59-50-7	1.5	3
HEXACHLOROCYCLOPENTADIENE	77-47-4	2	4
2,4,6-TRICHLOROPHENOL	88-06-2	1.5	3
2,4,5-TRICHLOROPHENOL	95-95-4	1.5	3
2-CHLORONAPTHALENE	91-58-7	1.5	3
ACENAPTHYLENE	208-96-8	1.5	3
DIMETHYL PHTHALATE	131-11-3	1.5	3
2,6-DINITROTOLUENE	606-20-2	1	2
ACENAPHTHENE	83-32-9	1.5	3
3-NITROANILINE	99-09-2	2.5	5
DIBENZOFURAN	132-64-9	1	2
2,4-DINITROPHENOL	51-28-5	(15)	(30)
2,4-DINITROTOLUENE	121-14-2	1	2

Cont.

SAS DRINKING WATER
SEMI-VOLATILE DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT	BLANK LIMIT
FLUORENE	86-73-7	1 ug/L	2 ug/L
4-NITROPHENOL	100-02-7	1.5	3
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	1	2
DIETHYL PHTHALATE	84-66-2	1	2
4,6-DINITRO-2-METHYLPHENOL	534-52-1	(15)	(30)
1,2-DIPHENYLHYDRAZINE	122-66-7	1	2
N-NITROSODIPHENYLAMINE *	86-30-6		
DIPHENYLAMINE *	122-39-4	1.5	3
4-NITROANILINE	100-01-6	3	6
4-BROMOPHENYL PHENYL ETHER	101-55-3	1.5	3
HEXACHLOROBENZENE	118-74-1	1.5	3
PENTACHLOROPHENOL	87-86-5	2	4
PHENANTHRENE	85-01-8	1	2
ANTHRACENE	120-12-7	2.5	5
DI-n-BUTYL PHTHALATE	84-74-2	2	4
FLUORANTHENE	206-44-0	1.5	3
PYRENE	129-00-0	1.5	3
BUTYL BENZYL PHTHALATE	85-68-7	3.5	7
CHRYSENE **	218-01-9		
BENZO(a)ANTHRACENE **	56-55-3	1.5	3
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	1	2
DI-n-OCTYL PHTHALATE	117-84-0	1.5	3
BENZO(b)FLUORANTHENE ***	205-99-2		
BENZO(k)FLUORANTHENE ***	207-08-9	1.5	3
BENZO(a)PYRENE	50-32-8	2	4
INDENO(1,2,3-cd)PYRENE	193-39-5	3.5	7
DIBENZO(a,h)ANTHRACENE	53-70-3	2.5	5
BENZO(g,h,i)PERYLENE	191-24-2	4	8
2-NITROANILINE	88-74-4	1	2

* These two parameters are reported as a total.
** These two parameters are reported as a total.
*** These two parameters are reported as a total.

( ) Values in Paranentheses are estimates.of theALUES ARE BEING
The actual values are being determined at this time.

NOTE: Limits are for reagent water.

SAS DRINKING WATER
PESTICIDE AND PCB DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT
ALDRIN	309-00-2	0.005 ug/L
alpha BHC	319-84-6	(0.010)
beta BHC	319-85-7	(0.005)
delta BHC	319-86-8	(0.005)
gama BHC(LINDANE)	58-89-9	0.005
CHLORDANE	57-74-9	(0.020)
4,4'-DDD	72-54-8	(0.020)
4,4'-DDE	72-55-9	(0.005)
4,4'-DDT	50-29-3	0.020
DIELDRIN	60-57-1	0.010
ENDOSULFAN I	959-98-8	0.010
ENDOSULFAN II	33213-65-9	0.010
ENDOSULFAN SULFATE	1031-07-8	(0.10)
ENDRIN	72-20-8	0.010
ENDRIN ALDEHYDE	7421-93-4	(0.030)
ENDRIN KETONE	53494-70-5	(0.030)
HEPTACHLOR	76-44-8	0.030
HEPTACHLOR EPOXIDE	1024-57-3	0.005
4,4'-METHOXYCHLOR	72-43-5	0.020
TOXAPHENE	8001-35-2	(0.25)
PCB-1242	53469-21-9	(0.10)
PCB-1248	12672-29-6	(0.10)
PCB-1254	11097-69-1	(0.10)
PCB-1260	11096-82-5	(0.10)

( ) Values in parentheses are estimates.
Actual values are being determined at this time.

NOTE: Limits are for reagent water.

ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

RECEIVED SEP 2 8 1987

Date Received for Review 28 Sept. 87 Date Review Completed 5 Oct. 87
To: Tom Pachowicz
From: Brenda R. Jones
Subject: HOD Landfill

PAN: IL014/QAQ Case # 7852/3048E

Sample Description

Organics (VOA, ABN, Pest/PCB)		Inorganics (Metals, Cyanide)	
#	Low Soil	#	Low Soil
	Low Water		Low Water
10	Drinking Water		Drinking Water
	Other		Other

Project Data Status _____ Completed!!

✓✓ Incomplete, awaiting: _____

FIT Data Review Findings:

No semivolatile analysis for sample ET330.

_____ Compounds were detected in sample(s); see enclosed Chemical Evaluation Form.

Book No. 6 Page No. 261

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

RECEIVED SEP 2 8 1987

DATE: 9/24/87

SUBJECT: Review of Region V CLP Data
Received for Review on September 3, 1987

FROM: Curtis Ross, Director (5SCRL) Patrick J. Chenelle for
Central Regional Laboratory

TO: Date User: FIT

We have reviewed the data for the following case(s).

SITE NAME Hod Landfill SMO Case No. 7852/SAS3048E

EPA DATA SET NO. SF4311 No. OF SAMPLES 10 D.U./ACTIVITY NUMBERS Y905/C72100

CRL No.: 87FP16S18 to 87FP16D25

SMO Traffic No. ET330-335 EK741-744

CLP Laboratory: Cal Hrs. Required for Review: 10 hours
PAN# IL0394

Following are our findings.

See attached review.

Reviewed by: Edna Field Kaufman

Telephone: 312-663-9415

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications noted above.
( ) Data are preliminary - pending verification by contractor lab.
( ) Data are unacceptable.

cc: Duane Geuder, Quality Assurance Officer, EPA Support Services.
James Petty, Chief Quality Assurance Research, EMSL, Las Vegas

RECEIVED SEP 28 1987

HOD Landfill
Case # 7852/3048E

This case covers 10 drinking waters analyzed under SAS requirements for lower detection limits and fast turnaround times. Sample EK743 is the blank. Samples EK744 and EK742 are duplicates of one another. The laboratory reports that sample ET330 was confused with sample ET539 when originally extracted. The laboratory recognized the error when there was no sample left to repeat the analyses. The pesticide QA/QC shows several results outside the recommended window; however, the lab was unable to determine if it was a matrix problem since all the sample had been used.

A. Holding Times: Acceptable.

B. Surrogates: Acceptable.

C. MS/MSD: Acceptable.
Recoveries:
Pest: 10 out of 12, outside QC limits 9 of these are low; therefore, data may be biased low and/or detection limits may be elevated.

RPD:
Pest: 2 out 6, outside QC limits

D. Method Blank: Acceptable.
Common lab artifacts were detected below the CRDL. These include:
Acetone
2-Butanone
No SV or pesticide compounds were found in the blank.

Z.C.
9/28/87

E. Calibrations: Acceptable.
Some compounds were outside specification with respect to RF %RSD and/or %D. These compounds are so noted on the calibration outlier form.

F. Tuning: Acceptable.

G. Pesticides: Acceptable.
Linearity - acceptable.
DBC Shift - acceptable.
DDT retention time - greater than 12 minutes - acceptable.

ZCK
9/23/87

USER INFORMATION SHEET FOR HOD LANDFILL

Case #7852/3048E PAN# IL0141

Sample	TCL Compounds	TIC Compounds
ET330	Common lab artifacts SVs not analyzed	None
ET331	Common lab artifacts	VOA: None SV: Solvent
ET332	Common lab artifacts	VOA: None SV: Solvent impurity
ET333	Common lab artifacts	VOA: None SV: Solvent impurity
ET334	No VOA or pesticide detected Diethylphthalate 3 ug/l (CRDL = 1 ug/l)	VOA: None SV: 3 TICs - 1 solvent solvent impurity
ET335	No VOA or pesticides detected Di-n-Butylphthalate 3 ug/l (CRDL - 2.0 ug/l)	VOA: None SV: 4 TICs
EK741	No TCL compounds detected	VOA: None SV: 5 TICs - 1 solvent impurity
EK742	No TCL compounds detected	VOA: None SV: 5 TICs - 1 solvent
EK743	Common lab artifact Toluene 1 ug/l (CRDL = 1 mg/l)	VOA: Trichlorofluoro methane 6 TICs including 1 solvent impurity

RECEIVED SEP 2 8 1987

Sample	TCL Compounds	TIC Compounds
EK744	No TCL compounds detected	VOA: None SV: 2 TICs - 1 solvent impurity

Toluene was detected at 1 ug/l (CRDL = 1 ug/l) in Sample EK743 which is the blank. Phthalates were detected in ET334 and 335. The semivolatiles were not run for sample ET330.

ZCK
9/23/87

24P:4W(2)

RECEIVED SEP 2 8 1987

In Reference to Case No(s):

[illegible]

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM
Telephone Record Log

Date of Call: Sept. 22 1987

Laboratory Name: Enviro Chem Lab

Lab Contact: [illegible]

Region: V

Regional Contact: [illegible]

Call Initiated By: ✓ Laboratory ___ Region

In reference to data for the following sample number(s):

EK 743 – [illegible] volatile organics

Summary of Questions/Issues Discussed: VOA

[illegible] the data form [illegible] data [illegible] and discrepancies as 1 [illegible] contained the [illegible] the data was taken as from the computer that was [illegible] the [illegible] the RIC and the actual mass spectra [illegible] this was [illegible] the data form [illegible]

Summary of Resolution:

[illegible]

Signature ___ Date ___

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

RECEIVED SEP 2 8 1987

Case: 7852/SAS 3048E

Contractor: CAL

TENTATIVELY IDENTIFIED COMPOUNDS WATCH ASSESSMENT

NOTE: Reviewer should note directly on Organic Analysis Data Sheet (OADS) those matches that in his opinion (based on contract criteria) are unreasonable.

CRITERIA

(1) Relative intensities of major ions (>10%) reference spectrum should be present in the sample spectrum.

(2) Relative intensities of major ions in sample spectrum should agree to within ± 20% of reference spectrum intensities.

(3) Molecular ions present in reference spectrum should be present in sample spectrum.

(4) Ions present in sample spectrum, but not in reference spectrum should be reviewed for possible background contamination or presence of coeluting interferences.

(5) Ions present in reference spectrum, but not in the sample spectrum should be reviewed for possible subtraction from the sample spectrum because of background contamination or coeluting interferences.

(6) If, in the reviewer's opinion, no valid identification can be made the compound should be labelled as "unknown" and the initials and date of the reviewer placed on the OADS.

Reviewer's Initials/Date: Zina Hold-Kaufman 9/28/87

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS

RECEIVED SEP 2 8 1987

CASE/SAS # 7852/3048E CONTRACTOR CAL

Instrument #	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/21			8/21 1007											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Chloromethane															
Bromomethane															
Vinyl Chloride															
Chloroethane															
Methylene Chloride															
Acetone															
Carbon Disulfide															
1,1-Dichloroethane															
1,1-Dichloroethene															
Trans-1,2-Dichloroethene															
Chloroform															
2-Butanone	.023		J/R	.022		J/R									
1,2-Dichloroethane															
1,1,1-Trichloroethane															
Carbon Tetrachloride															
Vinyl Acetate															
Bromodichloromethane															
1,2-Dichloropropane															
Trans-1,3-Dichloropropene															
Trichloroethene															
Dibromochloromethane															
1,1,2-Trichloroethane															
Benzene															
cis-1,3-Dichloropropene															
2-Chloroethylvinylether															
Bromoform															
4-Methyl-2-Pentanone															
2-Hexanone															
Tetrachloroethene															
1,1,2,2-Tetrachloroethane															
Toluene															
Chlorobenzene															
Ethylbenzene															
Styrene															
m-Xylene															
o/p-Xylene															

AFFECTED SAMPLES:

VOA HIGH
FT 333
FK 742
FK 743
FK 744

Reviewer's Initials/Date: ZGF 9/15/87

* These flags should be applied to the analytes on the sample data sheets.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS

RECEIVED SEP 2 8 1987

CASE/SAS # 7852/3048E

CONTRACTOR CAL

Instrument #	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/20			8/20 1035											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Chloromethane															
Bromomethane															
Vinyl Chloride															
Chloroethane															
Methylene Chloride															
Acetone															
Carbon Disulfide															
1,1-Dichloroethane															
1,1-Dichloroethene															
Trans-1,2-Dichloroethene															
Chloroform															
2-Butanone	.022		J/R	.023		J/R									
1,2-Dichloroethane															
1,1,1-Trichloroethane															
Carbon Tetrachloride															
Vinyl Acetate															
Bromodichloromethane															
1,2-Dichloropropane															
Trans-1,3-Dichloropropene															
Trichloroethene															
Dibromochloromethane															
1,1,2-Trichloroethane															
Benzene															
cis-1,3-Dichloropropene															
2-Chloroethylvinylether															
Bromoform															
4-Methyl-2-Pentanone															
2-Hexanone															
Tetrachloroethene															
1,1,2,2-Tetrachloroethane															
Toluene															
Chlorobenzene															
Ethylbenzene															
Styrene															
m-Xylene															
o/p-Xylene															

AFFECTED SAMPLES:

VOA BLANK
FT 330
FT 331
FT 332
FT 333
FT 334
FT 335
FK 741

Reviewer's Initials/Date: ZGF 9/15/87

* These flags should be applied to the analytes on the sample data sheets.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

RECEIVED SEP 2 8 1987

CASE/SAS # 7852 / 3048 E CONTRACTOR CAL

Instrument #	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/29			8/29 1020			8/30 1203								
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol															
bis(-2-Chloroethyl)Ether															
2-Chlorophenol															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
Benzyl Alcohol															
1,2-Dichlorobenzene															
2-Methylphenol															
bis(2-chloroisopropyl)Ether															
4-Methylphenol															
N-Nitroso-Di-n-Propylamine															
Hexachloroethane															
Nitrobenzene															
Isophorone															
2-Nitrophenol															
2,4-Dimethylphenol															
Benzoic Acid															
bis(2-Chloroethoxy)Methane															
2,4-Dichlorophenol															
1,2,4-Trichlorobenzene															
Naphthalene															
4-Chloroaniline															
Hexachlorobutadiene															
4-Chloro-3-Methylphenol															
2-Methylnaphthalene															
Hexachlorocyclopentadiene															
2,4,6-Trichlorophenol															
2,4,5-Trichlorophenol															
2-Chloronaphthalene															
2-Nitroaniline															
Dimethyl Phthalate															
Acenaphthylene															
3-Nitroaniline															
Acenaphthene															
2,4-Dinitrophenol															
4-Nitrophenol					341	J		324	J						
Dibenzofuran															

AFFECTED SAMPLES:

ET 331	ET 334
ET 332	ET 335
ET 333	ET 741
	ET 742
	ET 743
	ET 744

Reviewer Initials/Date: ZCK 9/15/87

* These flags should be applied to the analytes on the sample data sheets.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
Page 2

RECEIVED SEP 2 8 1987

CASE/SAS # 7852/3048E CONTRACTOR CAL

Instrument #	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/29/87			8/29 1020			8/30 1203								
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
2,4-Dinitrotoluene															
2,6-Dinitrotoluene															
Diethylphthalate															
4-Chlorophenyl-phenylether															
Fluorene															
4-Nitroaniline															
4,6-Dinitro-2-Methylphenol															
N-Nitrosodiphenylamine															
4-Bromophenyl-phenylether															
Hexachlorobenzene															
Pentachlorophenol															
Phenanthrene															
Anthracene															
Di-n-Butylphthalate															
Fluoranthene															
Pyrene															
Butylbenzylphthalate															
Benzo(a)Anthracene															
bis(2-Ethylhexyl)Phthalate															
Chrysene															
Di-n-Octyl Phthalate															
Benzo(b)Fluoranthene															
Benzo(k)Fluoranthene															
Benzo(a)Pyrene															
Indeno(1,2,3-cd)Pyrene															
Dibenz(a,h)Anthracene															
Benzo(g,h,i) Perylene															

SEE PAGE 1 FOR AFFECTED SAMPLES.

* These flags should be applied to the analytes on the sample data sheets.

Reviewer's Initials/Date: ZLK 9/30/87

RECEIVED SEP 2 8 1987

Enseco

RECEIVED
SEP 03 1987
US EPA CENTRAL REGIONAL LAB.
SE... K STREET
CHICAGO, ILLINOIS 60605

SF 4311

September 2, 1987

Joan Fisk
U.S. EPA
Hazardous Waste Investigation
401 M Street, SW
Washington, DC 20460

Dear Ms. Fisk:

Enclosed are data summary sheets and documentation for samples and QA/QC comprising case 7852/3048E of Contract 68-01-7140. These samples were received 8/14/87 and logged in under the following Enseco-Cal Lab numbers:

Enseco-Cal Lab Number	Sample I.D.
30856-1	ET 330
30856-2	ET 331
30856-3	ET 332
30856-4	ET 333
30856-5	ET 334
30856-6	ET 335
30856-7	EK 741
30856-8	EK 742
30856-9	EK 743
30856-10	EK 744

2544 Industrial Boulevard
West Sacramento, California 95691
916/372-1393 Facsimile; 916/372-1059

RECEIVED SEP 2 8 1987

The samples were analyzed as low concentration water samples for low detection limits on a 15 day turnaround. Sample 30856-1 (ET 330) was confused with sample 30788-1 (ET 539) when originally extracted. After a careful examination of the extraction logs, the sample was correctly identified. This sample had the QA/QC assigned to it and these extracts could not be clearly identified. Since all of the sample was used in the original extraction, there was no sample to repeat the analyses. Furthermore, as these are low detection limit waters with a history of being clean, we decided to use blank water for the QA/QC. The results are enclosed.

The pesticide QA/QC shows several results outside the recommended windows, but again, since all the sample was used a matrix problem could not be confirmed.

This report was checked for contractual compliance, assembled, paginated then printed and assembled by a Kodak copier/assembler. Each copy has been checked for completeness. This check may miss some individual pages. Please request by page number if any page is missing.

If you have any questions, please give us a call.

Sincerely,

Michael W. Orbanosky
Director of GC/MS Services

Ben N. Buechler
Director of Chromatography

Michael S. Filigenzi
GC/MS Supervisor

Karin S. Yee
Data Specialist

Enseco

RECEIVED SEP 2 8 1987

Case 7852/3048E

Enseco-Cal I.D.	EPA I.D.	ug/L (ppb) Found Aniline
30856-2	ET 331	10 U
30856-3	ET 332	10 U
30856-4	ET 333	10 U
30856-5	ET 334	10 U
30856-6	ET 335	10 U
30856-7	EK 741	10 U
30856-8	EK 742	10 U
30856-9	EK 743	10 U
30856-10	EK 744	10 U
30856-MB	Method Blank	10 U
30856-MBMS	Method Blank MS	10 U
30856-MBMSD	Method Blank MSD	10 U

Enseco-Cal I.D.	EPA I.D.	ug/L (ppb) Found Acrolein	Acrylonitrile
30856-1	ET 330	100 U	50 U
30856-2	ET 331	100 U	50 U
30856-3	ET 332	100 U	50 U
30856-4	ET 333	100 U	50 U
30856-5	ET 334	100 U	50 U
30856-6	ET 335	100 U	50 U
30856-7	EK 741	100 U	50 U
30856-8	EK 742	100 U	50 U
30856-9	EK 743	100 U	50 U
30856-10	EK 744	100 U	50 U
30856-10MS	EK 744MS	100 U	50 U
30856-10MSD	EK 744MSD	100 U	50 U
VBK9870820	VOA Blank	100 U	13 J
VBK9870821	VOA Blank	100 U	6 J

Sample Number
F4

LABORATORY INSTRUMENT DETECTION LIMITS

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: California Analytical Laboratories, Inc.

Case No: 7582/3048E

Lab Sample ID No: _____

QC Report No: _____

Sample Matrix: _____

Contract No: 68-01-6958, 68-01-6965, 68-01-7140, 68-01-7147

Data Release Authorized By: _____

Date Sample Received: _____

Volatile Compounds

Concentration: _____

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc/Dil Factor: _____

Percent Moisture: _____

Percent Moisture (Decanted): _____

RECEIVED SEP 2 8 198

CAS Number		NG
74-87-3	Chloromethane	48
74-83-9	Bromomethane	22
75-01-4	Vinyl Chloride	23
75-00-3	Chloroethane	19
75-09-2	Methylene Chloride	6.0
67-64-1	Acetone	8.5
75-15-0	Carbon Disulfide	7.4
75-35-4	1,1-Dichloroethene	7.9
75-34-3	1,1-Dichloroethane	8.7
156-60-5	Trans-1,2-Dichloroethene	7.5
67-66-3	Chloroform	7.7
107-06-2	1,2-Dichloroethane	10
78-93-3	2-Butanone	4.6
71-55-6	1,1,1-Trichloroethane	6.0
56-23-5	Carbon Tetrachloride	4.1
108-05-4	Vinyl Acetate	4.1
75-27-4	Bromodichloromethane	2.3

CAS Number		NG
78-87-5	1,2-Dichloropropane	8.1
10061-02-6	Trans-1,3-Dichloropropene	8.3
79-01-6	Trichloroethene	4.4
124-48-1	Dibromochloromethane	2.1
79-00-5	1,1,2-Trichloroethane	4.4
71-43-2	Benzene	6.5
10061-01-5	cis-1,3-Dichloropropene	8.2
110-75-8	2-Chloroethylvinylether	3.1
75-25-2	Bromoform	2.4
108-10-1	4-Methyl-2-Pentanone	9.7
591-78-6	2-Hexanone	10
127-18-4	Tetrachloroethene	4.9
79-34-5	1,1,2,2-Tetrachloroethane	6.2
108-88-3	Toluene	4.9
108-90-7	Chlorobenzene	3.7
100-41-4	Ethylbenzene	2.1
100-42-5	Styrene	3.3
	Total Xylenes	2.9

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 actions. (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 10ug/l and a concentration of 3ug/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 ≥ 10ng/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.

NA Not Analyzed
See cover letter
NR Not Required
S Spiked Compound

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:

Sample Number
F10

Organics Analysis Data Sheet
(Page 2)

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Semivolatile Compounds

Concentration: _____

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc/DiL Factor: _____

GPC Cleanup: _____

Separatory Funnel Extraction: _____

Continuous Liquid - Liquid Extraction: _____

CAS Number		NG
108-95-2	Phenol	1.7
111-44-4	bis(-2-Chloroethyl)Ether	1.9
95-57-8	2-Chlorophenol	1.7
541-73-1	1,3-Dichlorobenzene	1.8
106-46-7	1,4-Dichlorobenzene	1.8
100-51-6	Benzyl Alcohol	1.2
95-50-1	1,2-Dichlorobenzene	1.7
95-48-7	2-Methylphenol	1.4
39638-32-9	bis(2-chloroisopropyl)Ether	1.9
106-44-5	4-Methylphenol	1.1
621-64-7	N-Nitroso-Di-n-Propylamine	1.7
67-72-1	Hexachloroethane	1.7
98-95-3	Nitrobenzene	1.8
78-59-1	Isophorone	1.8
88-75-5	2-Nitrophenol	1.8
105-67-9	2,4-Dimethylphenol	1.5
65-85-0	Benzoic Acid	0
111-91-1	bis(-2-Chloroethoxy)Methane	1.2
120-83-2	2,4-Dichlorophenol	1.2
120-82-1	1,2,4-Trichlorobenzene	2.1
91-20-3	Naphthalene	1.9
106-47-8	4-Chloroaniline	1.4
87-68-3	Hexachlorobutadiene	2.0
59-50-7	4-Chloro-3-Methylphenol	2.0
91-57-6	2-Methylnaphthalene	1.7
77-47-4	Hexachlorocyclopentadiene	2.5
88-06-2	2,4,6-Trichlorophenol	1.7
95-95-4	2,4,5-Trichlorophenol	3.5
91-58-7	2-Chloronaphthalene	1.7
88-74-4	2-Nitroaniline	3.8
131-11-3	Dimethyl Phthalate	1.7
208-96-8	Acenaphthylene	1.5
99-09-2	3-Nitroaniline	3.6

CAS Number		NG
83-32-9	Acenaphthene	1.7
51-28-5	2,4-Dinitrophenol	2.5
100-02-7	4-Nitrophenol	3.4
132-64-9	Dibenzofuran	1.7
121-14-2	2,4-Dinitrotoluene	1.7
606-20-2	2,6-Dinitrotoluene	1.6
84-66-2	Diethylphthalate	1.7
7005-72-3	4-Chlorophenyl-phenylether	1.8
86-73-7	Fluorene	1.5
100-01-6	4-Nitroaniline	4.6
534-52-1	4,6-Dinitro-2-Methylphenol	3.2
86-30-6	N-Nitrosodiphenylamine(1)	2.6
101-55-3	4-Bromophenyl-phenylether	1.8
118-74-1	Hexachlorobenzene	1.8
87-86-5	Pentachlorophenol	4.9
85-01-8	Phenanthrene	1.7
120-12-7	Anthracene	1.9
84-74-2	Di-n-Butylphthalate	1.6
206-44-0	Fluoranthene	1.7
129-00-0	Pyrene	1.9
85-68-7	Butylbenzylphthalate	1.6
91-94-1	3,3'-Dichlorobenzidine	0.0
56-55-3	Benzo(a)Anthracene	1.7
117-81-7	bis(2-Ethylhexyl)Phthalate	2.1
218-01-9	Chrysene	1.8
117-84-0	Di-n-Octyl Phthalate	1.4
205-99-2	Benzo(b)Fluoranthene	3.0
207-08-9	Benzo(k)Fluoranthene	3.0
50-32-8	Benzo(a)Pyrene	1.4
193-39-5	Indeno(1,2,3-cd)Pyrene	1.4
53-70-3	Dibenz(a,h)Anthracene	1.4
191-24-2	Benzo(g,h,i)Perylene	1.5

(1) - Cannot be separated from diphenylamine

Laboratory Name CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No

Sample Number
GC6

LABORATORY INSTRUMENT DETECTION LIMITS

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Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: _____ GPC Cleanup: _____

Date Extracted/Prepared: _____ Separatory Funnel Extraction: _____

Date Analyzed: _____ Continuous Liquid - Liquid Extraction: _____

Conc/Dil Factor: _____

CAS Number		PQ (On Column)
319-84-6	Alpha-BHC	5
319-85-7	Beta-BHC	5
319-86-8	Delta-BHC	5
58-89-9	Gamma-BHC (Lindane)	5
76-2020-8	Heptachlor	5
309-00-10	Aldrin	5
801020-57-3	Heptachlor Epoxide	5
959-98-8	Endosulfan I	10
60-57-1	Dieldrin	10
710-55-9	20,20'-DDE	10
710-100-8	Endrin	10
331013-65-8	Endosulfan II	10
72-520-8	20,20'-DDD	20
1031-07-8	Endosulfan Sulfate	20
50-29-3	20,20'-DDT	20
72-203-8	Methoxychlor	100
8320920-70-5	Endrin Ketone	20
57-720-8	Chlordane	100
8001-35-2	Toxaphene	1000
126720-11-2	Aroclor-1016	100
11104-28-2	Aroclor-1221	100
11141-16-5	Aroclor-1232	100
53469-21-9	Aroclor-1242	100
12672-29-6	Aroclor-1248	100
11097-69-1	Aroclor-1254	100
11096-82-5	Aroclor-1260	100

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 = NR V_t = V_i =

WATER SURROGATE PERCENT RECOVERY SUMMARY

CASE NO.: 7852/3048E CONTRACT LABORATORY: CALIFORNIA ANALYTICAL LABS CONTRACTR NO. :68-01-7140 DATA PREP/RELEASE BY:

SMO TRAFFIC NO.	VOLATILE			SEMI-VOLATILE						PESTICIDE
	TOLUENE D8 (88-110)	BFB (86-115)	1,2 DICHLORO ETHANE D4 (76-114)	NITRO-BENZENE D5 (36-114)	2-FLUORO BIPHENYL (43-116)	TERPHENYL D14 (33-141)	PHENOL-D5 (10-94)	2-FLUORO-PHENOL (21-100)	2,4,6 TRIBROMO-PHENOL (10-123)	DIBUTYL-CHLORENDATE (24-154)**
ET 330	104	106	99	NR	NR	NR	NR	NR	NR	75
ET 331	100	101	98	53	94	108	37	46	43	88
ET 332	102	103	105	39	66	72	25	32	25	94
ET 333	100	97	88	41	70	72	23	33	32	89
ET 334	104	108	115	41	81	82	30	47	48	86
ET 335	101	104	112	45	74	84	28	43	46	84
EK 741	102	103	117	44	80	91	30	45	43	76
EK 742	104	106	94	50	86	100	30	47	45	99
EK 743	100	102	89	51	81	93	25	40	36	80
EK 744	98	104	97	38	66	72	21	33	28	85
* EK 744 MS	95	100	91	NR	NR	NR	NR	NR	NR	NR
EK 744 MSD	96	101	95	NR	NR	NR	NR	NR	NR	NR
VBK9870820	99	100	96	NR	NR	NR	NR	NR	NR	NR
VBK9870821	99	102	87	NR	NR	NR	NR	NR	NR	NR
30856MB	NR	NR	NR	48	73	81	23	30	36	76
METHOD BLANK MS	NR	NR	NR	47	79	88	24	35	40	NR
METHOD BLANK MSD	NR	NR	NR	48	76	92	31	45	45	NR
ET 330 MS	NR	NR	NR	NR	NR	NR	NR	NR	NR	DL
ET 330 MSD	NR	NR	NR	NR	NR	NR	NR	NR	NR	DL

* VALUES ARE OUUTSIDE OF CONTRACT REQUIRED QC LIMITS

** ADVISORY LIMITS ONLY

VOLATILES: 0 OUT OF 48 : OUTSIDE OF QC LIMITS
SEMI-VOLATILES: 0 OUT OF 78 : OUTSIDE OF QC LIMITS
PESTICIDES: 0 OUT OF 13 : OUTSIDE OF QC LIMITS

COMMENTS:

RECEIVED SEP 28 1987

3

WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

CASE NO.: 7852/3084E CONTRACTOR ENSECO - CAL LAB CONTRACT NO.68-01-7140

FRACTION	COMPOUND	CONC.SPIKE ADDED(ug/L) SPIKE	DUPLICATE	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	%RPD	QC LIMITS* RPD	RECOVERY
VOA	1,1-Dichloroethene	10	10	0	8.6	86	8.7	87	1	14	61-145
SMO	Trichloroethene	10	10	0	8.6	86	8.3	83	4	14	71-120
SAMPLE NO.	Chlorobenzene	10	10	0	8.9	89	9	90	1	13	75-130
	Toluene	10	10	0	8.4	84	8.2	82	2	13	76-125
EK 744	Benzene	10	10	0	8.6	86	8.2	82	5	11	76-127
B/N	1,2,4-Trichlorobenzene	20	20	0	11.4	57	13.1	66	15	28	39-98
SMO	Acenaphthene	20	20	0	16.4	82	18	90	9	31	46-118
SAMPLE NO.	2,4-Dinitrotoluene	20	20	0	7.9	40	9.3	47	16	38	24-96
	Pyrene	20	20	0	17.2	86	18.7	94	9	31	26-127
	N-Nitrosodi-n-Propylamine	20	20	0	10.2	51	10.8	54	6	38	41-116
METHOD BLANK	1,4-Dichlorobenzene	20	20	0	11.8	59	14.4	72	20	28	36-97
ACID	Pentachlorophenol	40	40	0	18	45	20.8	52	14	50	9-103
SMO	Phenol	40	40	0	9.6	24	12.2	31	25	42	12-89
SAMPLE NO.	2-Chlorophenol	40	40	0	23.4	58	28.4	71	20	40	27-123
	4-Chloro-3-Methylphenol	40	40	0	20.4	51	24.8	62	19	42	23-97
METHOD BLANK	4-Nitrophenol	40	40	0	0	0 *	0	0 *	0	50	10-80
PEST	Lindane	0.02	0.02	0	0.007	35 *	0.0061	31 *	14	15	56-123
SMO	Heptachlor	0.02	0.02	0	0	0 *	0	0 *	0	20	40-131
SAMPLE NO.	Aldrin	0.02	0.02	0	0	0 *	0	0 *	0	22	40-120
	Dieldrin	0.05	0.05	0	0.0197	39 *	0.0164	33 *	15	18	52-126
	Endrin	0.05	0.05	0	0.0224	45 *	0.0174	35 *	25 *	21	56-121
ET 330	4,4-DDT	0.05	0.05	0	0.07	160 *	0.0171	34 *	121 *	27	38-127

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* ASTERISKED VALUES ARE OUTSIDE QC LIMITS

RPD: VOAs 0 out of 5 ; outside QC limits
B/Ns 0 out of 6 ; outside QC limits
ACID 0 out of 5 ; outside QC limits
PEST 2 out of 6 ; outside QC limits

RECOVERY: VOAs 0 out of 10 ; outside QC limits
B/Ns 0 out of 12 ; outside QC limits
ACID 0 out of 10 ; outside QC limits
PEST 2 out of 12 ; outside QC limits

Comments:

FORM III

7/85

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4

METHOD BLANK SUMMARY

CASE NO. 7852/3048E REGION: 5 CONTRACTOR: ENSECO - CALIFORNIA ANALYTICAL LABS,INC CONTRACT NO. 68-01-7140

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL.TIC OR UNKNOWN)	CONC.	UNITS	CRDL
VBK9870820	8/20/87	VOA	WATER	LOW	F9	67-64-1	ACETONE	1	UG/L	10
VBK9870821	8/21/87	VOA	WATER	LOW	F9	67-64-1	ACETONE	1	UG/L	10
						78-93-3	2-BUTANONE	1	UG/L	10
30856MB	8/29/87	ABN	WATER	LOW	F10	-	NO ABN COMPOUNDS	-	-	-
30856MB	8/25/87	PEST	WATER	LOW	GC6	-	NO PESTICIDES FOUND	-	-	-

COMMENTS:

FORM IV 7/85

5

RECEIVED SEP 28 1987

87FP16518

Sample Number
ET 330

Organics Analysis Data Sheet
(Page 1)

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Laboratory Name: ENSECO CAL LAB

Case No: 7852/3048E

Lab Sample ID No: 30856-1

QC Report No: 3048E

Sample Matrix: WATER

Contract No: 68-01-7140

Data Release Authorized By:

Date Sample Received: 8/14/87

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/20/87

Date Analyzed: 8/20/87

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

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

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

NA Not Analyzed
See cover letter
NR Not Required.
S Spiked Compound

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:7855/3048E

Sample Number
ET 330

Organics Analysis Data Sheet
(Page 3)

RECEIVED SEP 2 8 1987

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 8/19/87

Date Analyzed: 8/26/87

Conc/Dil Factor: 5

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
319-84-6	Alpha-BHC	0.050 U
319-85-7	Beta-BHC	0.025 U
319-86-8	Delta-BHC	0.025 U
58-89-9	Gamma-BHC (Lindane)	0.025 U
76-44-8	Heptachlor	0.150 U
309-00-2	Aldrin	0.025 U
1024-57-3	Heptachlor Epoxide	0.0050 U
959-98-8	Endosulfan I	0.010 U
60-57-1	Dieldrin	0.010 U
72-55-9	4,4'-DDE	0.0050 U
72-20-8	Endrin	0.010 U
33213-65-9	Endosulfan II	0.010 U
72-54-8	4,4'-DDD	0.020 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.020 U
72-43-5	Methoxychlor	0.020 U
53494-70-5	Endrin Ketone	0.030 U
57-74-9	Chlordane	0.020 U
8001-35-2	Toxaphene	0.25 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.10 U
12672-29-6	Aroclor-1248	0.10 U
11097-69-1	Aroclor-1254	0.10 U
11096-82-5	Aroclor-1260	0.10 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 =989 or W_s =NR V_t = 25000 V_i = 5

Prepared by:

ENSLCU

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Laboratory Name Cal Labs

Case No 7852/3048E

Sample Number ET 330

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.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

87FP16519

Sample Number
ET 331

Organics Analysis Data Sheet
(Page 1)

RECEIVED SEP 2 8 1987

Laboratory Name: ENSECO CAL LAB

Case No: 7852/3048E

Lab Sample ID No: 30856-2

QC Report No: 3048E

Sample Matrix: WATER

Contract No: 68-01-7140

Data Release Authorized By:

Date Sample Received: 8/14/87

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/20/87

Date Analyzed: 8/20/87

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

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

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

NA Not Analyzed
See cover letter.
NR Not Required
S Spiked Compound.

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:7852/3048E

Sample Number
ET 331

Organics Analysis Data Sheet
(Page 2)

RECEIVED SEP 2 8 1987

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/19/87

Date Analyzed: 8/29/87

Conc/DiL Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
108-95-2	Phenol	1.0 U
111-44-4	bis(-2-Chloroethyl)Ether	1.0 U
95-57-8	2-Chlorophenol	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
100-51-6	Benzyl Alcohol	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
95-48-7	2-Methylphenol	1.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	1.0 U
106-44-5	4-Methylphenol	1.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	1.0 U
67-72-1	Hexachloroethane	1.0 U
98-95-3	Nitrobenzene	1.0 U
78-59-1	Isophorone	1.0 U
88-75-5	2-Nitrophenol	1.0 U
105-67-9	2,4-Dimethylphenol	1.0 U
65-85-0	Benzoic Acid	20 U
111-91-1	bis(-2-Chloroethoxy)Methane	1.0 U
120-83-2	2,4-Dichlorophenol	1.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0 U
91-20-3	Naphthalene	1.0 U
106-47-8	4-Chloroaniline	1.0 U
87-68-3	Hexachlorobutadiene	1.0 U
59-50-7	4-Chloro-3-Methylphenol	1.0 U
91-57-6	2-Methylnaphthalene	1.0 U
77-47-4	Hexachlorocyclopentadiene	1.0 U
88-06-2	2,4,6-Trichlorophenol	1.0 U
95-95-4	2,4,5-Trichlorophenol	1.0 U
91-58-7	2-Chloronaphthalene	1.0 U
88-74-4	2-Nitroaniline	5.0 U
131-11-3	Dimethyl Phthalate	1.0 U
208-96-8	Acenaphthylene	1.0 U
99-09-2	3-Nitroaniline	5.0 U

CAS Number		ug/L
83-32-9	Acenaphthene	1.0 U
51-28-5	2,4-Dinitrophenol	15 U
100-02-7	4-Nitrophenol	15 U
132-64-9	Dibenzofuran	1.0 U
121-14-2	2,4-Dinitrotoluene	1.0 U
606-20-2	2,6-Dinitrotoluene	1.0 U
84-66-2	Diethylphthalate	1.0 U
7005-72-3	4-Chlorophenyl-phenylether	1.0 U
86-73-7	Fluorene	1.0 U
100-01-6	4-Nitroaniline	5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15 U
86-30-6	N-Nitrosodiphenylamine(1)	1.5 U
101-55-3	4-Bromophenyl-phenylether	1.5 U
118-74-1	Hexachlorobenzene	1.5 U
87-86-5	Pentachlorophenol	2.0 U
85-01-8	Phenanthrene	1.0 U
120-12-7	Anthracene	2.5 U
84-74-2	Di-n-Butylphthalate	2.0 U
206-44-0	Fluoranthene	1.5 U
129-00-0	Pyrene	1.5 U
85-68-7	Butylbenzylphthalate	3.5 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	1.5 U
117-81-7	bis(2-Ethylhexyl)Phthalate	1.0 U
218-01-9	Chrysene	1.5 U
117-84-0	Di-n-Octyl Phthalate	1.5 U
205-99-2	Benzo(b)Fluoranthene	1.5 U
207-08-9	Benzo(k)Fluoranthene	1.5 U
50-32-8	Benzo(a)Pyrene	2.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	3.5 U
53-70-3	Dibenz(a,h)Anthracene	2.5 U
191-24-2	Benzo(g,h,i)Perylene	4.0 U

(1) - Cannot be separated from Diphenylamine

Prepared by: _____

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No: 7855/3048E

Sample Number
ET 331

Organics Analysis Data Sheet
(Page 3)

RECEIVED SEP 2 8 1987

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 8/19/87

Date Analyzed: 8/26/87

Conc/Dil Factor: 4

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
319-84-6	Alpha-BHC	0.040 U
319-85-7	Beta-BHC	0.020 U
319-86-8	Delta-BHC	0.020 U
58-89-9	Gamma-BHC (Lindane)	0.020 U
76-44-8	Heptachlor	0.12 U
309-00-2	Aldrin	0.020 U
1024-57-3	Heptachlor Epoxide	0.0050 U
959-98-8	Endosulfan I	0.010 U
60-57-1	Dieldrin	0.010 U
72-55-9	4,4'-DDE	0.0050 U
72-20-8	Endrin	0.010 U
33213-65-9	Endosulfan II	0.010 U
72-54-8	4,4'-DDD	0.020 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.020 U
72-43-5	Methoxychlor	0.020 U
53494-70-5	Endrin Ketone	0.030 U
57-74-9	Chlordane	0.020 U
8001-35-2	Toxaphene	0.25 U
12674-11-2	Aroclor-1016	0.40 U
11104-28-2	Aroclor-1221	0.40 U
11141-16-5	Aroclor-1232	0.40 U
53469-21-9	Aroclor-1242	0.10 U
12672-29-6	Aroclor-1248	0.10 U
11097-69-1	Aroclor-1254	0.10 U
11096-82-5	Aroclor-1260	0.10 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 = 992 or W_s = NR V_t = 20000 V_i = 5

CLF: 11/14/85 Form I Prepared by: 7/85

RECEIVED SEP 2 8 1987

ORGANICS ANALYSIS DATA SHEET
Page 4
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name CAL Case No. 7852/3048E Sample No ET 331

GC Report No. 3048E Lab Sample No. 3085602AB

Probability that Identification is Correct
A= HIGH B= MODERATE C= UNKNOWN D= SOLVENT IMPURITY, see VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	Estimated CONC J VALUE
1	108-88-3	BENZENE, METHYL-	A/BN	244	966	20 3 UG/L

	COMPOUND NAME	PROBABILITY		COMMENTS
1	BENZENE, METHYL-	1. A-D	1	

No VOA Compounds Found

FORM 1, PART B

RECEIVED SEP 2 8 1987

87FP16 520

Sample Number
ET 332

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENSECO CAL LAB

Case No: 7852/3048E

Lab Sample ID No: 30856-3

QC Report No: 3048E

Sample Matrix: WATER

Contract No: 68-01-7140

Data Release Authorized By:

Date Sample Received: 8/14/87

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/20/87

Date Analyzed: 8/20/87

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

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

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

NA Not Analyzed.
See cover letter.
NR Not Required.
S Spiked Compound.

Prepared by:

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC. RECEIVED SEP 2 8 1987
Case No: 7852/3048E

Sample Number
ET 332

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/19/87

Date Analyzed: 8/29/87

Conc/Dil. Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
108-95-2	Phenol	1.0 U
111-44-4	bis(-2-Chloroethyl)Ether	1.0 U
95-57-8	2-Chlorophenol	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
100-51-6	Benzyl Alcohol	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
95-48-7	2-Methylphenol	1.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	1.0 U
106-44-5	4-Methylphenol	1.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	1.0 U
67-72-1	Hexachloroethane	1.0 U
98-95-3	Nitrobenzene	1.0 U
78-59-1	Isophorone	1.0 U
88-75-5	2-Nitrophenol	1.0 U
105-67-9	2,4-Dimethylphenol	1.0 U
65-85-0	Benzoic Acid	20 U
111-91-1	bis(-2-Chloroethoxy)Methane	1.0 U
120-83-2	2,4-Dichlorophenol	1.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0 U
91-20-3	Naphthalene	1.0 U
106-47-8	4-Chloroaniline	1.0 U
87-68-3	Hexachlorobutadiene	1.0 U
59-50-7	4-Chloro-3-Methylphenol	1.0 U
91-57-6	2-Methylnaphthalene	1.0 U
77-47-4	Hexachlorocyclopentadiene	1.0 U
88-06-2	2,4,6-Trichlorophenol	1.0 U
95-95-4	2,4,5-Trichlorophenol	1.0 U
91-58-7	2-Chloronaphthalene	1.0 U
88-74-4	2-Nitroaniline	5.0 U
131-11-3	Dimethyl Phthalate	1.0 U
208-96-8	Acenaphthylene	1.0 U
99-09-2	3-Nitroaniline	5.0 U

CAS Number		ug/L
83-32-9	Acenaphthene	1.0 U
51-28-5	2,4-Dinitrophenol	15 U
100-02-7	4-Nitrophenol	15 U
132-64-9	Dibenzofuran	1.0 U
121-14-2	2,4-Dinitrotoluene	1.0 U
606-20-2	2,6-Dinitrotoluene	1.0 U
84-66-2	Diethylphthalate	1.0 U
7005-72-3	4-Chlorophenyl-phenylether	1.0 U
86-73-7	Fluorene	1.0 U
100-01-6	4-Nitroaniline	5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15 U
86-30-6	N-Nitrosodiphenylamine(1)	1.5 U
101-55-3	4-Bromophenyl-phenylether	1.5 U
118-74-1	Hexachlorobenzene	1.5 U
87-86-5	Pentachlorophenol	2.0 U
85-01-8	Phenanthrene	1.0 U
120-12-7	Anthracene	2.5 U
84-74-2	Di-n-Butylphthalate	2.0 U
206-44-0	Fluoranthene	1.5 U
129-00-0	Pyrene	1.5 U
85-68-7	Butylbenzylphthalate	3.5 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	1.5 U
117-81-7	bis(2-Ethylhexyl)Phthalate	1.0 U
218-01-9	Chrysene	1.5 U
117-84-0	Di-n-Octyl Phthalate	1.5 U
205-99-2	Benzo(b)Fluoranthene	1.5 U
207-08-9	Benzo(k)Fluoranthene	1.5 U
50-32-8	Benzo(a)Pyrene	2.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	3.5 U
53-70-3	Dibenz(a,h)Anthracene	2.5 U
191-24-2	Benzo(g,h,i)Perylene	4.0 U

(1) - Cannot be separated from diphenylamine

Prepared by:

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No: 7855/3048E

Sample Number
ET 332

Organics Analysis Data Sheet
(Page 3)

RECEIVED SEP 2 8 1987

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 8/19/87

Date Analyzed: 8/26/87

Conc/Dil Factor: 4

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
319-84-6	Alpha-BHC	0.040 U
319-85-7	Beta-BHC	0.020 U
319-86-8	Delta-BHC	0.020 U
58-89-9	Gamma-BHC (Lindane)	0.020 U
76-44-8	Heptachlor	0.12 U
309-00-2	Aldrin	0.020 U
1024-57-3	Heptachlor Epoxide	0.0050 U
959-98-8	Endosulfan I	0.010 U
60-57-1	Dieldrin	0.010 U
72-55-9	4,4'-DDE	0.0050 U
72-20-8	Endrin	0.010 U
33213-65-9	Endosulfan II	0.010 U
72-54-8	4,4'-DDD	0.020 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.020 U
72-43-5	Methoxychlor	0.020 U
53494-70-5	Endrin Ketone	0.030 U
57-74-9	Chlordane	0.020 U
8001-35-2	Toxaphene	0.25 U
12674-11-2	Aroclor-1016	0.40 U
11104-28-2	Aroclor-1221	0.40 U
11141-16-5	Aroclor-1232	0.40 U
53469-21-9	Aroclor-1242	0.10 U
12672-29-6	Aroclor-1248	0.10 U
11097-69-1	Aroclor-1254	0.10 U
11096-82-5	Aroclor-1260	0.10 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 =910 or W_s =NR V_t = 20000 V_i = 5

Prepared by:

CLF: 11/14/85 Form I 7/85

RECEIVED SEP 2 8 1987

ORGANICS ANALYSIS DATA SHEET
Page 4
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CAL Case No. 7852/3048E Sample No. ET 332

QC Report No. 3048E Lab Sample No. 3085603AB

Probability that Identification is Correct:
A= HIGH B= MODERATE C= UNKNOWN D= SOLVENT IMPURITY, see VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	Estimated CONC. J VALUE
1	~~544-25-2~~	~~1,3,5-CYCLOHEPTATRIENE~~ Toluene	A/BN	242	945	20 0 UG/L

	COMPOUND NAME	PROBABILITY	COMMENTS
1.	~~1,3,5-CYCLOHEPTATRIENE~~ Toluene	1. A+D	1.

No VOA Compounds Found

FORM 1, PART B

87FP16S21

RECEIVED SEP 2 8 1987

Sample Number
ET 333

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENSECO CAL LAB

Case No: 7852/3048E

Lab Sample ID No: 30856-4

QC Report No: 3048E

Sample Matrix: WATER

Contract No: 68-01-7140

Data Release Authorized By:

Date Sample Received: 8/14/87

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/21/87

Date Analyzed: 8/21/87

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

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

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

NA Not Analyzed.
See cover letter.
NR Not Required.
S Spiked Compound.

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:7852/3048E

RECEIVED SEP 2 8 1987

Sample Number
ET 333

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/19/87

Date Analyzed: 8/29/87

Conc/DiL Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
108-95-2	Phenol	1.0 U
111-44-4	bis(-2-Chloroethyl)Ether	1.0 U
95-57-8	2-Chlorophenol	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
100-51-6	Benzyl Alcohol	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
95-48-7	2-Methylphenol	1.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	1.0 U
106-44-5	4-Methylphenol	1.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	1.0 U
67-72-1	Hexachloroethane	1.0 U
98-95-3	Nitrobenzene	1.0 U
78-59-1	Isophorone	1.0 U
88-75-5	2-Nitrophenol	1.0 U
105-67-9	2,4-Dimethylphenol	1.0 U
65-85-0	Benzoic Acid	20 U
111-91-1	bis(-2-Chloroethoxy)Methane	1.0 U
120-83-2	2,4-Dichlorophenol	1.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0 U
91-20-3	Naphthalene	1.0 U
106-47-8	4-Chloroaniline	1.0 U
87-68-3	Hexachlorobutadiene	1.0 U
59-50-7	4-Chloro-3-Methylphenol	1.0 U
91-57-6	2-Methylnaphthalene	1.0 U
77-47-4	Hexachlorocyclopentadiene	1.0 U
88-06-2	2,4,6-Trichlorophenol	1.0 U
95-95-4	2,4,5-Trichlorophenol	1.0 U
91-58-7	2-Chloronaphthalene	1.0 U
88-74-4	2-Nitroaniline	5.0 U
131-11-3	Dimethyl Phthalate	1.0 U
208-96-8	Acenaphthylene	1.0 U
99-09-2	3-Nitroaniline	5.0 U

CAS Number		ug/L
83-32-9	Acenaphthene	1.0 U
51-28-5	2,4-Dinitrophenol	15 U
100-02-7	4-Nitrophenol	15 U
132-64-9	Dibenzofuran	1.0 U
121-14-2	2,4-Dinitrotoluene	1.0 U
606-20-2	2,6-Dinitrotoluene	1.0 U
84-66-2	Diethylphthalate	1.0 U
7005-72-3	4-Chlorophenyl-phenylether	1.0 U
86-73-7	Fluorene	1.0 U
100-01-6	4-Nitroaniline	5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15 U
86-30-6	N-Nitrosodiphenylamine(1)	1.5 U
101-55-3	4-Bromophenyl-phenylether	1.5 U
118-74-1	Hexachlorobenzene	1.5 U
87-86-5	Pentachlorophenol	2.0 U
85-01-8	Phenanthrene	1.0 U
120-12-7	Anthracene	2.5 U
84-74-2	Di-n-Butylphthalate	2.0 U
206-44-0	Fluoranthene	1.5 U
129-00-0	Pyrene	1.5 U
85-68-7	Butylbenzylphthalate	3.5 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	1.5 U
117-81-7	bis(2-Ethylhexyl)Phthalate	1.0 U
218-01-9	Chrysene	1.5 U
117-84-0	Di-n-Octyl Phthalate	1.5 U
205-99-2	Benzo(b)Fluoranthene	1.5 U
207-08-9	Benzo(k)Fluoranthene	1.5 U
50-32-8	Benzo(a)Pyrene	2.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	2.5 U
53-70-3	Dibenz(a,h)Anthracene	2.5 U
191-24-2	Benzo(g,h,i)Perylene	4.0 U

(1) - Cannot be separated from Diphenylamine

Prepared by: _____

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No.:7855/3048E

RECEIVED SEP 2 8 1987

Sample Number
ET 333

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 8/19/87

Date Analyzed: 8/26/87

Conc/Dil Factor: 4

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
319-84-6	Alpha-BHC	0.040 U
319-85-7	Beta-BHC	0.020 U
319-86-8	Delta-BHC	0.020 U
58-89-9	Gamma-BHC (Lindane)	0.020 U
76-44-8	Heptachlor	0.12 U
309-00-2	Aldrin	0.020 U
1024-57-3	Heptachlor Epoxide	0.0050 U
959-98-8	Endosulfan I	0.010 U
60-57-1	Dieldrin	0.010 U
72-55-9	4,4'-DDE	0.0050 U
72-20-8	Endrin	0.010 U
33213-65-9	Endosulfan II	0.010 U
72-54-8	4,4'-DDD	0.020 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.020 U
72-43-5	Methoxychlor	0.020 U
53494-70-5	Endrin Ketone	0.030 U
57-74-9	Chlordane	0.020 U
8001-35-2	Toxaphene	0.25 U
12674-11-2	Aroclor-1016	0.40 U
11104-28-2	Aroclor-1221	0.40 U
11141-16-5	Aroclor-1232	0.40 U
53469-21-9	Aroclor-1242	0.10 U
12672-29-6	Aroclor-1248	0.10 U
11097-69-1	Aroclor-1254	0.10 U
11096-82-5	Aroclor-1260	0.10 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 = 1020 or W_s = NR V_t = 20000 V_i = 5

CLF: 11/14/85 Form I Prepared by: 7/85

RECEIVED SEP 2 8 1987

ORGANICS ANALYSIS DATA SHEET
Page 4
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name CAL Case No. 7852/3048E Sample No. ET 333

QC Report No. 3048E Lab Sample No. 3085604AB

Probability that Identification is Correct:
A= HIGH B= MODERATE C= UNKNOWN D= SOLVENT IMPURITY, see VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	Estimated CONC J VALUE
1	108-88-3	BENZENE, METHYL-	A/BN	246	965	16.7 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. BENZENE, METHYL-	1 A+D	1.

No VOA Compounds Found

FORM 1, PART B

RECEIVED SEP 2 8 1987

87FP16522

Sample Number
ET 334

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENSECO CAL LAB

Case No: 7852/3048E

Lab Sample ID No: 30856-5

QC Report No: 3048E

Sample Matrix: WATER

Contract No: 68-01-7140

Data Release Authorized By:

Date Sample Received: 8/14/87

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/20/87

Date Analyzed: 8/20/87

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

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

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

NA Not Analyzed.
See cover letter.
NR Not Required.
S Spiked Compound.

CLF: 11/14/85 Form I Prepared by: EV 10/85

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, RECEIVED SEP 2 8 1987
Case No:7852/3048E

Sample Number
ET 334

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/19/87

Date Analyzed: 8/30/87

Conc/DiL Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
108-95-2	Phenol	1.0 U
111-44-4	bis(-2-Chloroethyl)Ether	1.0 U
95-57-8	2-Chlorophenol	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
100-51-6	Benzyl Alcohol	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
95-48-7	2-Methylphenol	1.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	1.0 U
106-44-5	4-Methylphenol	1.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	1.0 U
67-72-1	Hexachloroethane	1.0 U
98-95-3	Nitrobenzene	1.0 U
78-59-1	Isophorone	1.0 U
88-75-5	2-Nitrophenol	1.0 U
105-67-9	2,4-Dimethylphenol	1.0 U
65-85-0	Benzoic Acid	20 U
111-91-1	bis(-2-Chloroethoxy)Methane	1.0 U
120-83-2	2,4-Dichlorophenol	1.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0 U
91-20-3	Naphthalene	1.0 U
106-47-8	4-Chloroaniline	1.0 U
87-68-3	Hexachlorobutadiene	1.0 U
59-50-7	4-Chloro-3-Methylphenol	1.0 U
91-57-6	2-Methylnaphthalene	1.0 U
77-47-4	Hexachlorocyclopentadiene	1.0 U
88-06-2	2,4,6-Trichlorophenol	1.0 U
95-95-4	2,4,5-Trichlorophenol	1.0 U
91-58-7	2-Chloronaphthalene	1.0 U
88-74-4	2-Nitroaniline	5.0 U
131-11-3	Dimethyl Phthalate	1.0 U
208-96-8	Acenaphthylene	1.0 U
99-09-2	3-Nitroaniline	5.0 U

CAS Number		ug/L
83-32-9	Acenaphthene	1.0 U
51-28-5	2,4-Dinitrophenol	15 U
100-02-7	4-Nitrophenol	15 U
132-64-9	Dibenzofuran	1.0 U
121-14-2	2,4-Dinitrotoluene	1.0 U
606-20-2	2,6-Dinitrotoluene	1.0 U
84-66-2	Diethylphthalate	3
7005-72-3	4-Chlorophenyl-phenylether	1.0 U
86-73-7	Fluorene	1.0 U
100-01-6	4-Nitroaniline	5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15 U
86-30-6	N-Nitrosodiphenylamine(1)	1.5 U
101-55-3	4-Bromophenyl-phenylether	1.5 U
118-74-1	Hexachlorobenzene	1.5 U
87-86-5	Pentachlorophenol	2.0 U
85-01-8	Phenanthrene	1.0 U
120-12-7	Anthracene	2.5 U
84-74-2	Di-n-Butylphthalate	2.0 U
206-44-0	Fluoranthene	1.5 U
129-00-0	Pyrene	1.5 U
85-68-7	Butylbenzylphthalate	3.5 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	1.5 U
117-81-7	bis(2-Ethylhexyl)Phthalate	1.0 U
218-01-9	Chrysene	1.5 U
117-84-0	Di-n-Octyl Phthalate	1.5 U
205-99-2	Benzo(b)Fluoranthene	1.5 U
207-08-9	Benzo(k)Fluoranthene	1.5 U
50-32-8	Benzo(a)Pyrene	2.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	3.5 U
53-70-3	Dibenz(a,h)Anthracene	2.5 U
191-24-2	Benzo(g,h,i)Perylene	4.0 U

(1) - Cannot be separated from Diphenylamine

CLF: 10/11/85 Form I Prepared by: 7/85

ORGANICS ANALYSIS DATA SHEET RECEIVED SEP 28 1987
Page 4
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name CAL Case No. 7852/3048E Sample No ET 334

QC Report No. 3048E Lab Sample No 3085605AB

Probability that Identification is Correct:
A= HIGH B= MODERATE C= UNKNOWN D= SOLVENT IMPURITY, see VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	Estimated CONC J VALUE
1	108-88-3	BENZENE, METHYL-	A/BN	235	964	9 5 UG/L
2	26688-51-7	CYCLOPENTANE, 1,3-DICHLORO-, C	A/BN	466	596	2 6 UG/L
3	17904-27-7	1-CYCLOHEXENE-1-CARBOXYLIC AC I	A/BN	1400	842	2 2 UG/L

	COMPOUND NAME	PROBABILITY		COMMENTS
1.	BENZENE, METHYL-	(w) ~~A~~ D	1.	isomer
2	CYCLOPENTANE, 1,3-DICHLORO-, C	2. C	2.	
3.	1-CYCLOHEXENE-1-CARBOXYLIC ACI	3. B	3.	isomer

No VOA Compounds Found

FORM 1, PART B

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No.:7855/3048E

Sample Number
ET 334

RECEIVED SEP 2 8 1987

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 8/19/87

Date Analyzed: 8/26/87

Conc/Dil Factor: 4

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
319-84-6	Alpha-BHC	0.040 U
319-85-7	Beta-BHC	0.020 U
319-86-8	Delta-BHC	0.020 U
58-89-9	Gamma-BHC (Lindane)	0.020 U
76-44-8	Heptachlor	0.12 U
309-00-2	Aldrin	0.020 U
1024-57-3	Heptachlor Epoxide	0.0050 U
959-98-8	Endosulfan I	0.010 U
60-57-1	Dieldrin	0.010 U
72-55-9	4,4'-DDE	0.0050 U
72-20-8	Endrin	0.010 U
33213-65-9	Endosulfan II	0.010 U
72-54-8	4,4'-DDD	0.020 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.020 U
72-43-5	Methoxychlor	0.020 U
53494-70-5	Endrin Ketone	0.030 U
57-74-9	Chlordane	0.020 U
8001-35-2	Toxaphene	0.25 U
12674-11-2	Aroclor-1016	0.40 U
11104-28-2	Aroclor-1221	0.40 U
11141-16-5	Aroclor-1232	0.40 U
53469-21-9	Aroclor-1242	0.10 U
12672-29-6	Aroclor-1248	0.10 U
11097-69-1	Aroclor-1254	0.10 U
11096-82-5	Aroclor-1260	0.10 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 =920 or W_s =NR V_t = 20000 V_i = 5

CLF: 11/14/85 Form I Prepared by: 7/85

87FP16S23

RECEIVED SEP 2 8 1987

Sample Number
ET 335

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENSECO CAL LAB

Case No: 7852/3048E

Lab Sample ID No: 30856-6

QC Report No: 3048E

Sample Matrix: WATER

Contract No: 68-01-7140

Data Release Authorized By:

Date Sample Received: 8/14/87

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/20/87

Date Analyzed: 8/20/87

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

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

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

NA Not Analyzed.
See cover letter.
NR Not Required.
S Spiked Compound.

CLF: 11/14/85 Form I Prepared by: 10/85

RECEIVED SEP 2 8 1987

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:7852/3048E

Sample Number
ET 335

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/19/87

Date Analyzed: 8/30/87

Conc/DiL Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
108-95-2	Phenol	1.0 U
111-44-4	bis(-2-Chloroethyl)Ether	1.0 U
95-57-8	2-Chlorophenol	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
100-51-6	Benzyl Alcohol	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
95-48-7	2-Methylphenol	1.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	1.0 U
106-44-5	4-Methylphenol	1.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	1.0 U
67-72-1	Hexachloroethane	1.0 U
98-95-3	Nitrobenzene	1.0 U
78-59-1	Isophorone	1.0 U
88-75-5	2-Nitrophenol	1.0 U
105-67-9	2,4-Dimethylphenol	1.0 U
65-85-0	Benzoic Acid	20 U
111-91-1	bis(-2-Chloroethoxy)Methane	1.0 U
120-83-2	2,4-Dichlorophenol	1.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0 U
91-20-3	Naphthalene	1.0 U
106-47-8	4-Chloroaniline	1.0 U
87-68-3	Hexachlorobutadiene	1.0 U
59-50-7	4-Chloro-3-Methylphenol	1.0 U
91-57-6	2-Methylnaphthalene	1.0 U
77-47-4	Hexachlorocyclopentadiene	1.0 U
88-06-2	2,4,6-Trichlorophenol	1.0 U
95-95-4	2,4,5-Trichlorophenol	1.0 U
91-58-7	2-Chloronaphthalene	1.0 U
88-74-4	2-Nitroaniline	5.0 U
131-11-3	Dimethyl Phthalate	1.0 U
208-96-8	Acenaphthylene	1.0 U
99-09-2	3-Nitroaniline	5.0 U

CAS Number		ug/L
83-32-9	Acenaphthene	1.0 U
51-28-5	2,4-Dinitrophenol	15 U
100-02-7	4-Nitrophenol	15 U
132-64-9	Dibenzofuran	1.0 U
121-14-2	2,4-Dinitrotoluene	1.0 U
606-20-2	2,6-Dinitrotoluene	1.0 U
84-66-2	Diethylphthalate	1.0 U
7005-72-3	4-Chlorophenyl-phenylether	1.0 U
86-73-7	Fluorene	1.0 U
100-01-6	4-Nitroaniline	5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15 U
86-30-6	N-Nitrosodiphenylamine(1)	1.5 U
101-55-3	4-Bromophenyl-phenylether	1.5 U
118-74-1	Hexachlorobenzene	1.5 U
87-86-5	Pentachlorophenol	2.0 U
85-01-8	Phenanthrene	1.0 U
120-12-7	Anthracene	2.5 U
84-74-2	Di-n-Butylphthalate	3
206-44-0	Fluoranthene	1.5 U
129-00-0	Pyrene	1.5 U
85-68-7	Butylbenzylphthalate	3.5 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	1.5 U
117-81-7	bis(2-Ethylhexyl)Phthalate	1.0 U
218-01-9	Chrysene	1.5 U
117-84-0	Di-n-Octyl Phthalate	1.5 U
205-99-2	Benzo(b)Fluoranthene	1.5 U
207-08-9	Benzo(k)Fluoranthene	1.5 U
50-32-8	Benzo(a)Pyrene	2.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	3.5 U
53-70-3	Dibenz(a,h)Anthracene	2.5 U
191-24-2	Benzo(g,h,i)Perylene	4.0 U

(1) - Cannot be separated from diphenylamine

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:7855/3048E

RECEIVED SEP 2 8 1987

Sample Number
ET 335

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 8/19/87

Date Analyzed: 8/27/87

Conc/Dil Factor: 4

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
319-84-6	Alpha-BHC	0.040 U
319-85-7	Beta-BHC	0.020 U
319-86-8	Delta-BHC	0.020 U
58-89-9	Gamma-BHC (Lindane)	0.020 U
76-44-8	Heptachlor	0.12 U
309-00-2	Aldrin	0.020 U
1024-57-3	Heptachlor Epoxide	0.0050 U
959-98-8	Endosulfan I	0.010 U
60-57-1	Dieldrin	0.010 U
72-55-9	4,4'-DDE	0.0050 U
72-20-8	Endrin	0.010 U
33213-65-9	Endosulfan II	0.010 U
72-54-8	4,4'-DDD	0.020 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.020 U
72-43-5	Methoxychlor	0.020 U
53494-70-5	Endrin Ketone	0.030 U
57-74-9	Chlordane	0.020 U
8001-35-2	Toxaphene	0.25 U
12674-11-2	Aroclor-1016	0.40 U
11104-28-2	Aroclor-1221	0.40 U
11141-16-5	Aroclor-1232	0.40 U
53469-21-9	Aroclor-1242	0.10 U
12672-29-6	Aroclor-1248	0.10 U
11097-69-1	Aroclor-1254	0.10 U
11096-82-5	Aroclor-1260	0.10 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 =994 or W_s =NR V_t = 20000 V_i = 5

RECEIVED SEP 2 8 1987

ORGANICS ANALYSIS DATA SHEET
Page 4
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name. CAL Case No. 7852/3048E Sample No. ET 335

QC Report No. 3048E Lab Sample No. 3085606AB

Probability that Identification is Correct:
A= HIGH B= MODERATE C= UNKNOWN D= SOLVENT IMPURITY, see VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	Estimated CONC. J VALUE
1	108-88-3	BENZENE, METHYL-	A/BN	256	952	17 4 UG/L
2	541-05-9	CYCLOTRISILOXANE, HEXAMETHYL-	A/BN	349	853	3 3 UG/L
3	25144-05-2	CYCLOPENTANOL, 2-METHYL-, CIS-	A/BN	436	803	2 6 UG/L
4	816-79-5	2-PENTENE, 3-ETHYL-	A/BN	448	821	2 9 UG/L
5	26588-51-7	CYCLOPENTANE, 1,3-DICHLORO-, C	A/BN	471	617	5 2 UG/L

	COMPOUND NAME	PROBABILITY	COMMENTS
1.	BENZENE, METHYL-	1. ~~A~~ D	1. isomer
2.	CYCLOTRISILOXANE, HEXAMETHYL-	2. B	2.
3.	CYCLOPENTANOL, 2-METHYL-, CIS-	3. B	3. isomer
4.	2-PENTENE, 3-ETHYL-	4. B	4.
5.	CYCLOPENTANE, 1,3-DICHLORO-, C	5. C	5.

No VOA Compounds Found

FORM 1, PART B

87FP16S24

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Sample Number
EK 741

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENSECO CAL LAB

Case No: 7852/3048E

Lab Sample ID No: 30858-7

QC Report No: 3048E

Sample Matrix: WATER

Contract No: 68-01-7140

Data Release Authorized By:

Date Sample Received: 8/14/87

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/20/87

Date Analyzed: 8/20/87

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

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

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

NA Not Analyzed.
See cover letter.
NR Not Required.
S Spiked Compound.

CLF: 11/14/85 Form I Prepared by: EV 10/85

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No: 7852/3048E

RECEIVED SEP 2 8 1987

Sample Number
EK 741

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/19/87

Date Analyzed: 8/30/87

Conc/DiL Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
108-95-2	Phenol	1.0 U
111-44-4	bis(-2-Chloroethyl)Ether	1.0 U
95-57-8	2-Chlorophenol	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
100-51-6	Benzyl Alcohol	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
95-48-7	2-Methylphenol	1.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	1.0 U
106-44-5	4-Methylphenol	1.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	1.0 U
67-72-1	Hexachloroethane	1.0 U
98-95-3	Nitrobenzene	1.0 U
78-59-1	Isophorone	1.0 U
88-75-5	2-Nitrophenol	1.0 U
105-67-9	2,4-Dimethylphenol	1.0 U
65-85-0	Benzoic Acid	20 U
111-91-1	bis(-2-Chloroethoxy)Methane	1.0 U
120-83-2	2,4-Dichlorophenol	1.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0 U
91-20-3	Naphthalene	1.0 U
106-47-8	4-Chloroaniline	1.0 U
87-68-3	Hexachlorobutadiene	1.0 U
59-50-7	4-Chloro-3-Methylphenol	1.0 U
91-57-6	2-Methylnaphthalene	1.0 U
77-47-4	Hexachlorocyclopentadiene	1.0 U
88-06-2	2,4,6-Trichlorophenol	1.0 U
95-95-4	2,4,5-Trichlorophenol	1.0 U
91-58-7	2-Chloronaphthalene	1.0 U
88-74-4	2-Nitroaniline	5.0 U
131-11-3	Dimethyl Phthalate	1.0 U
208-96-8	Acenaphthylene	1.0 U
99-09-2	3-Nitroaniline	5.0 U

CAS Number		ug/L
83-32-9	Acenaphthene	1.0 U
51-28-5	2,4-Dinitrophenol	15 U
100-02-7	4-Nitrophenol	15 U
132-64-9	Dibenzofuran	1.0 U
121-14-2	2,4-Dinitrotoluene	1.0 U
606-20-2	2,6-Dinitrotoluene	1.0 U
84-66-2	Diethylphthalate	1.0 U
7005-72-3	4-Chlorophenyl-phenylether	1.0 U
86-73-7	Fluorene	1.0 U
100-01-6	4-Nitroaniline	5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15 U
86-30-6	N-Nitrosodiphenylamine(1)	1.5 U
101-55-3	4-Bromophenyl-phenylether	1.5 U
118-74-1	Hexachlorobenzene	1.5 U
87-86-5	Pentachlorophenol	2.0 U
85-01-8	Phenanthrene	1.0 U
120-12-7	Anthracene	2.5 U
84-74-2	Di-n-Butylphthalate	2.0 U
206-44-0	Fluoranthene	1.5 U
129-00-0	Pyrene	1.5 U
85-68-7	Butylbenzylphthalate	3.5 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	1.5 U
117-81-7	bis(2-Ethylhexyl)Phthalate	1.0 U
218-01-9	Chrysene	1.5 U
117-84-0	Di-n-Octyl Phthalate	1.5 U
205-99-2	Benzo(b)Fluoranthene	1.5 U
207-08-9	Benzo(k)Fluoranthene	1.5 U
50-32-8	Benzo(a)Pyrene	2.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	3.5 U
53-70-3	Dibenz(a,h)Anthracene	2.5 U
191-24-2	Benzo(g,h,i)Perylene	4.0 U

(1) - Cannot be separated from diphenylamine

Prepared by:

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:7855/3048E

RECEIVED SEP 2 8 1987

Sample Number
EK 741

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 8/19/87

Date Analyzed: 8/26/87

Conc/Dil Factor: 4

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
319-84-6	Alpha-BHC	0.040 U
319-85-7	Beta-BHC	0.020 U
319-86-8	Delta-BHC	0.020 U
58-89-9	Gamma-BHC (Lindane)	0.020 U
76-44-8	Heptachlor	0.12 U
309-00-2	Aldrin	0.020 U
1024-57-3	Heptachlor Epoxide	0.0050 U
959-98-8	Endosulfan I	0.010 U
60-57-1	Dieldrin	0.010 U
72-55-9	4,4'-DDE	0.0050 U
72-20-8	Endrin	0.010 U
33213-65-9	Endosulfan II	0.010 U
72-54-8	4,4'-DDD	0.020 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.020 U
72-43-5	Methoxychlor	0.020 U
53494-70-5	Endrin Ketone	0.030 U
57-74-9	Chlordane	0.020 U
8001-35-2	Toxaphene	0.25 U
12674-11-2	Aroclor-1016	0.40 U
11104-28-2	Aroclor-1221	0.40 U
11141-16-5	Aroclor-1232	0.40 U
53469-21-9	Aroclor-1242	0.10 U
12672-29-6	Aroclor-1248	0.10 U
11097-69-1	Aroclor-1254	0.10 U
11096-82-5	Aroclor-1260	0.10 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 =950 or W_s =NR V_t = 20000 V_i = 5

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ORGANICS ANALYSIS DATA SHEET
Page 4
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CAL Case No. 7852/3048E Sample No. EK 741

GC Report No. 3048E Lab Sample No. 3085607AB

Probability that Identification is Correct:
A= HIGH B= MODERATE C= UNKNOWN D= SOLVENT IMPURITY, see VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	Estimated CONC J VALUE
1	108-88-3	BENZENE, METHYL-	A/BN	250	962	136 5 UG/L
2	619-99-8	HEXANE, 3-ETHYL-	A/BN	304	911	7 7 UG/L
3	816-79-5	2-PENTENE, 3-ETHYL-	A/BN	446	824	3 2 UG/L
4	111-84-2	NONANE	A/BN	454	924	2 2 UG/L
5	26688-51-7	CYCLOPENTANE, 1,3-DICHLORO-, C	A/BN	469	616	5 3 UG/L

	COMPOUND NAME	PROBABILITY	COMMENTS
1	BENZENE, METHYL-	(m) 1 ~~A~~ D	1 isomer
2	HEXANE, 3-ETHYL-	2. A	2
3	2-PENTENE, 3-ETHYL-	3. B	3
4	NONANE	4. A	4
5	CYCLOPENTANE, 1,3-DICHLORO-, C	5. C	5

4

X 10 VOA COMPOUND FOUND

FORM 1, PART B

RECEIVED SEP 2 8 1987

87FP16S25

Sample Number
EK 742

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENSECO CAL LAB

Case No: 7852/3048E

Lab Sample ID No: 30856-8

QC Report No: 3048E

Sample Matrix: WATER

Contract No: 68-01-7140

Data Release Authorized By:

Date Sample Received: 8/14/87

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/21/87

Date Analyzed: 8/21/87

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

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

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

NA Not Analyzed.
See cover letter.
NR Not Required.
S Spiked Compound.

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:7852/3048E

RECEIVED SEP 2 8 1987

Sample Number
EK 742

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/19/87

Date Analyzed: 8/30/87

Conc/DiL Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
108-95-2	Phenol	1.0 U
111-44-4	bis(-2-Chloroethyl)Ether	1.0 U
95-57-8	2-Chlorophenol	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
100-51-6	Benzyl Alcohol	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
95-48-7	2-Methylphenol	1.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	1.0 U
106-44-5	4-Methylphenol	1.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	1.0 U
67-72-1	Hexachloroethane	1.0 U
98-95-3	Nitrobenzene	1.0 U
78-59-1	Isophorone	1.0 U
88-75-5	2-Nitrophenol	1.0 U
105-67-9	2,4-Dimethylphenol	1.0 U
65-85-0	Benzoic Acid	20 U
111-91-1	bis(-2-Chloroethoxy)Methane	1.0 U
120-83-2	2,4-Dichlorophenol	1.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0 U
91-20-3	Naphthalene	1.0 U
106-47-8	4-Chloroaniline	1.0 U
87-68-3	Hexachlorobutadiene	1.0 U
59-50-7	4-Chloro-3-Methylphenol	1.0 U
91-57-6	2-Methylnaphthalene	1.0 U
77-47-4	Hexachlorocyclopentadiene	1.0 U
88-06-2	2,4,6-Trichlorophenol	1.0 U
95-95-4	2,4,5-Trichlorophenol	1.0 U
91-58-7	2-Chloronaphthalene	1.0 U
88-74-4	2-Nitroaniline	5.0 U
131-11-3	Dimethyl Phthalate	1.0 U
208-96-8	Acenaphthylene	1.0 U
99-09-2	3-Nitroaniline	5.0 U

CAS Number		ug/L
83-32-9	Acenaphthene	1.0 U
51-28-5	2,4-Dinitrophenol	15 U
100-02-7	4-Nitrophenol	15 U
132-64-9	Dibenzofuran	1.0 U
121-14-2	2,4-Dinitrotoluene	1.0 U
606-20-2	2,6-Dinitrotoluene	1.0 U
84-66-2	Diethylphthalate	1.0 U
7005-72-3	4-Chlorophenyl-phenylether	1.0 U
86-73-7	Fluorene	1.0 U
100-01-6	4-Nitroaniline	5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15 U
86-30-6	N-Nitrosodiphenylamine(1)	1.5 U
101-55-3	4-Bromophenyl-phenylether	1.5 U
118-74-1	Hexachlorobenzene	1.5 U
87-86-5	Pentachlorophenol	2.0 U
85-01-8	Phenanthrene	1.0 U
120-12-7	Anthracene	2.5 U
84-74-2	Di-n-Butylphthalate	2.0 U
206-44-0	Fluoranthene	1.5 U
129-00-0	Pyrene	1.5 U
85-68-7	Butylbenzylphthalate	3.5 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	1.5 U
117-81-7	bis(2-Ethylhexyl)Phthalate	1.0 U
218-01-9	Chrysene	1.5 U
117-84-0	Di-n-Octyl Phthalate	1.5 U
205-99-2	Benzo(b)Fluoranthene	1.5 U
207-08-9	Benzo(k)Fluoranthene	1.5 U
50-32-8	Benzo(a)Pyrene	2.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	3.5 U
53-70-3	Dibenz(a,h)Anthracene	2.5 U
191-24-2	Benzo(g,h,i)Perylene	4.0 U

(1) - Cannot be separated from diphenylamine

Prepared by:

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No: 7855/3048E

RECEIVED SEP 2 8 '87

Sample Number
EK 742

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: LOW

GPC Cleanup: NO

Date Extracted/Prepared: 8/19/87

Separatory Funnel Extraction: YES

Date Analyzed: 8/27/87

Continuous Liquid - Liquid Extraction: NO

Conc/Dil Factor: 1

CAS Number		ug/L
319-84-6	Alpha-BHC	0.010 U
319-85-7	Beta-BHC	0.0050 U
319-86-8	Delta-BHC	0.0050 U
58-89-9	Gamma-BHC (Lindane)	0.0050 U
76-44-8	Heptachlor	0.030 U
309-00-2	Aldrin	0.0050 U
1024-57-3	Heptachlor Epoxide	0.0050 U
959-98-8	Endosulfan I	0.010 U
60-57-1	Dieldrin	0.010 U
72-55-9	4,4'-DDE	0.0050 U
72-20-8	Endrin	0.010 U
33213-65-9	Endosulfan II	0.010 U
72-54-8	4,4'-DDD	0.020 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.020 U
72-43-5	Methoxychlor	0.020 U
53494-70-5	Endrin Ketone	0.030 U
57-74-9	Chlordane	0.020 U
8001-35-2	Toxaphene	0.25 U
12674-11-2	Aroclor-1016	0.10 U
11104-28-2	Aroclor-1221	0.10 U
11141-16-5	Aroclor-1232	0.10 U
53469-21-9	Aroclor-1242	0.10 U
12672-29-6	Aroclor-1248	0.10 U
11097-69-1	Aroclor-1254	0.10 U
11096-82-5	Aroclor-1260	0.10 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 =954 or W_s =NR V_t = 5000 V_i = 5

CLF: 11/14/85 Form I Prepared by: 9/28/85

298

RECEIVED SEP 2 8 1987

ORGANICS ANALYSIS DATA SHEET
Page 4
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CAL Case No. 7852/3048E Sample No. EK 742

QC Report No. 3048E Lab Sample No. 3085608AB

Probability that Identification is Correct:
A= HIGH B= MODERATE C= UNKNOWN D= SOLVENT IMPURITY, see VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	Estimated CONC. J VALUE
1	108-88-3	BENZENE, METHYL-	A/BN	254	961	181.1 UG/L
2	111-65-9	OCTANE (DOT)	A/BN	307	927	10.0 UG/L
3	10534-18-6	BORIC ACID (HBO2), CYCLOHEXYL	A/BN	435	748	3.0 UG/L
4	111-84-2	NONANE	A/BN	456	901	5.1 UG/L
5	26688-51-7	CYCLOPENTANE, 1,3-DICHLORO-, C	A/BN	471	605	5.6 UG/L

	COMPOUND NAME	PROBABILITY	COMMENTS
1	BENZENE, METHYL-	(W) 1. ~~A~~ D	1. isomers
2	OCTANE (DOT)	2. A	2. isomers
3	BORIC ACID (HBO2), CYCLOHEXYL	3. B	3 isomers
4	NONANE	4. A	4.
5	CYCLOPENTANE, 1,3-DICHLORO-, C	5. C	5.

+10 VOA Compound Found

FORM 1, PART B

87FP16R04

RECEIVED SEP 2 8 1987

Sample Number
EK 743

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENSECO CAL LAB

Case No: 7852/3048E

Lab Sample ID No: 30858-9

QC Report No: 3048E

Sample Matrix: WATER

Contract No: 68-01-7140

Data Release Authorized By:

Date Sample Received: 8/14/87

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/21/87

Date Analyzed: 8/21/87

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

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

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

BRS 5 Oct. 8

* This is incorrect Toluene should equal 1 Chlorobenzene 1U

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 actions. (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 10ug/l and a concentration of 3ug/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 >= 10ng/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.

NA Not Analyzed.
See cover letter.
NR Not Required.
S Spiked Compound.

Prepared by:

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:7852/3048E

RECEIVED SEP 2 8 1987

Sample Number
EK 743

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/19/87

Date Analyzed: 8/30/87

Conc/Dil. Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
108-95-2	Phenol	1.0 U
111-44-4	bis(-2-Chloroethyl)Ether	1.0 U
95-57-8	2-Chlorophenol	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
100-51-6	Benzyl Alcohol	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
95-48-7	2-Methylphenol	1.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	1.0 U
106-44-5	4-Methylphenol	1.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	1.0 U
67-72-1	Hexachloroethane	1.0 U
98-95-3	Nitrobenzene	1.0 U
78-59-1	Isophorone	1.0 U
88-75-5	2-Nitrophenol	1.0 U
105-67-9	2,4-Dimethylphenol	1.0 U
65-85-0	Benzoic Acid	20 U
111-91-1	bis(-2-Chloroethoxy)Methane	1.0 U
120-83-2	2,4-Dichlorophenol	1.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0 U
91-20-3	Naphthalene	1.0 U
106-47-8	4-Chloroaniline	1.0 U
87-68-3	Hexachlorobutadiene	1.0 U
59-50-7	4-Chloro-3-Methylphenol	1.0 U
91-57-6	2-Methylnaphthalene	1.0 U
77-47-4	Hexachlorocyclopentadiene	1.0 U
88-06-2	2,4,6-Trichlorophenol	1.0 U
95-95-4	2,4,5-Trichlorophenol	1.0 U
91-58-7	2-Chloronaphthalene	1.0 U
88-74-4	2-Nitroaniline	5.0 U
131-11-3	Dimethyl Phthalate	1.0 U
208-96-8	Acenaphthylene	1.0 U
99-09-2	3-Nitroaniline	5.0 U

CAS Number		ug/L
83-32-9	Acenaphthene	1.0 U
51-28-5	2,4-Dinitrophenol	15 U
100-02-7	4-Nitrophenol	15 U
132-64-9	Dibenzofuran	1.0 U
121-14-2	2,4-Dinitrotoluene	1.0 U
606-20-2	2,6-Dinitrotoluene	1.0 U
84-66-2	Diethylphthalate	1.0 U
7005-72-3	4-Chlorophenyl-phenylether	1.0 U
86-73-7	Fluorene	1.0 U
100-01-6	4-Nitroaniline	5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15 U
86-30-6	N-Nitrosodiphenylamine(1)	1.5 U
101-55-3	4-Bromophenyl-phenylether	1.5 U
118-74-1	Hexachlorobenzene	1.5 U
87-86-5	Pentachlorophenol	2.0 U
85-01-8	Phenanthrene	1.0 U
120-12-7	Anthracene	2.5 U
84-74-2	Di-n-Butylphthalate	2.0 U
206-44-0	Fluoranthene	1.5 U
129-00-0	Pyrene	1.5 U
85-68-7	Butylbenzylphthalate	3.5 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	1.5 U
117-81-7	bis(2-Ethylhexyl)Phthalate	1.0 U
218-01-9	Chrysene	1.5 U
117-84-0	Di-n-Octyl Phthalate	1.5 U
205-99-2	Benzo(b)Fluoranthene	1.5 U
207-08-9	Benzo(k)Fluoranthene	1.5 U
50-32-8	Benzo(a)Pyrene	2.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	3.5 U
53-70-3	Dibenz(a,h)Anthracene	2.5 U
191-24-2	Benzo(g,h,i)Perylene	4.0 U

(1) - Cannot be separated from diphenylamine

CLF: 10/11/85 Form I Prepared by: 7/85

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:7855/3048E

RECEIVED SEP 2 8 1987

Sample Number
EK 743

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 8/19/87

Date Analyzed: 8/27/87

Conc/Dil Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
319-84-6	Alpha-BHC	0.010 U
319-85-7	Beta-BHC	0.0050 U
319-86-8	Delta-BHC	0.0050 U
58-89-9	Gamma-BHC (Lindane)	0.0050 U
76-44-8	Heptachlor	0.030 U
309-00-2	Aldrin	0.0050 U
1024-57-3	Heptachlor Epoxide	0.0050 U
959-98-8	Endosulfan I	0.010 U
60-57-1	Dieldrin	0.010 U
72-55-9	4,4'-DDE	0.0050 U
72-20-8	Endrin	0.010 U
33213-65-9	Endosulfan II	0.010 U
72-54-8	4,4'-DDD	0.020 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.020 U
72-43-5	Methoxychlor	0.020 U
53494-70-5	Endrin Ketone	0.030 U
57-74-9	Chlordane	0.020 U
8001-35-2	Toxaphene	0.26 U
12674-11-2	Aroclor-1016	0.10 U
11104-28-2	Aroclor-1221	0.10 U
11141-16-5	Aroclor-1232	0.10 U
53469-21-9	Aroclor-1242	0.10 U
12672-29-6	Aroclor-1248	0.10 U
11097-69-1	Aroclor-1254	0.10 U
11096-82-5	Aroclor-1260	0.10 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 =969 or W_s =NR V_t = 5000 V_i = 5

CLF: 11/14/85 Form I Prepared by: 7/85

ORGANICS ANALYSIS DATA SHEET
PAGE 4
TENTATIVELY IDENTIFIED COMPOUNDS

RECEIVED SEP 2 8 1987

LAB NAME: CAL 3048E CASE NO. 7852 /3048E SAMPLE NO. EK 743

QC REPORT NO. LAB SAMPLE NO. 3085609V

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SEE ABN

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	75-69-4	METHANE, TRICHLOROFLUORO-	VOA	98	985	8.1 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. METHANE, TRICHLOROFLUORO-	1. A	1.

FORM 1, PART B

RECEIVED SEP 2 8 1987

ORGANICS ANALYSIS DATA SHEET
Page 4
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CAL Case No. 7852/3048E Sample No. EK 743

QC Report No. 3048E Lab Sample No. 3085609AB

Probability that Identification is Correct:
A= HIGH B= MODERATE C= UNKNOWN D= SOLVENT IMPURITY, see VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	Estimated CONC. J VALUE
1	108-88-3	BENZENE, METHYL-	A/BN	257	954	103.2 UG/L
2	111-65-9	OCTANE (DOT)	A/BN	310	910	4.6 UG/L
3	25144-05-2	CYCLOPENTANOL, 2-METHYL-, CIS-	A/BN	438	799	2.7 UG/L
4	111-84-2	NONANE	A/BN	459	911	4.6 UG/L
5	26688-51-7	CYCLOPENTANE, 1,3-DICHLORO-, C	A/BN	473	609	5.2 UG/L
6	119-61-9	BENZOPHENONE	A/BN	1153	946	2.9 UG/L

	COMPOUND NAME	PROBABILITY	COMMENTS
1.	BENZENE, METHYL-	(w) 1. ~~A~~ D	1. isomers
2.	OCTANE (DOT)	2. A	2. isomers
3	CYCLOPENTANOL, 2-METHYL-, CIS-	3. A	3. isomers
4	NONANE	4. A	4.
5	CYCLOPENTANE, 1,3-DICHLORO-, C	5. C	5.
6	BENZOPHENONE	6. A	6

FORM 1, PART B

87EP16D25

RECEIVED SEP 2 8 1987

Sample Number
EK 744

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENSECO CAL LAB

Case No: 7852/3048E

Lab Sample ID No: 30856-10

QC Report No: 3048E

Sample Matrix: WATER

Contract No: 68-01-7140

Data Release Authorized By:

Date Sample Received: 8/14/87

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/21/87

Date Analyzed: 8/21/87

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

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

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

NA Not Analyzed.
See cover letter.
NR Not Required.
S Spiked Compound.

Prepared by: EV

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No.:7852/3048E

RECEIVED SEP 2 8 1987

Sample Number
EK 744

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/19/87

Date Analyzed: 8/30/87

Conc/DiL Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
108-95-2	Phenol	1.0 U
111-44-4	bis(-2-Chloroethyl)Ether	1.0 U
95-57-8	2-Chlorophenol	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
100-51-6	Benzyl Alcohol	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
95-48-7	2-Methylphenol	1.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	1.0 U
106-44-5	4-Methylphenol	1.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	1.0 U
67-72-1	Hexachloroethane	1.0 U
98-95-3	Nitrobenzene	1.0 U
78-59-1	Isophorone	1.0 U
88-75-5	2-Nitrophenol	1.0 U
105-67-9	2,4-Dimethylphenol	1.0 U
65-85-0	Benzoic Acid	20 U
111-91-1	bis(-2-Chloroethoxy)Methane	1.0 U
120-83-2	2,4-Dichlorophenol	1.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0 U
91-20-3	Naphthalene	1.0 U
106-47-8	4-Chloroaniline	1.0 U
87-68-3	Hexachlorobutadiene	1.0 U
59-50-7	4-Chloro-3-Methylphenol	1.0 U
91-57-6	2-Methylnaphthalene	1.0 U
77-47-4	Hexachlorocyclopentadiene	1.0 U
88-06-2	2,4,6-Trichlorophenol	1.0 U
95-95-4	2,4,5-Trichlorophenol	1.0 U
91-58-7	2-Chloronaphthalene	1.0 U
88-74-4	2-Nitroaniline	5.0 U
131-11-3	Dimethyl Phthalate	1.0 U
208-96-8	Acenaphthylene	1.0 U
99-09-2	3-Nitroaniline	5.0 U

CAS Number		ug/L
83-32-9	Acenaphthene	1.0 U
51-28-5	2,4-Dinitrophenol	15 U
100-02-7	4-Nitrophenol	15 U
132-64-9	Dibenzofuran	1.0 U
121-14-2	2,4-Dinitrotoluene	1.0 U
606-20-2	2,6-Dinitrotoluene	1.0 U
84-66-2	Diethylphthalate	1.0 U
7005-72-3	4-Chlorophenyl-phenylether	1.0 U
86-73-7	Fluorene	1.0 U
100-01-6	4-Nitroaniline	5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15 U
86-30-6	N-Nitrosodiphenylamine(1)	1.5 U
101-55-3	4-Bromophenyl-phenylether	1.5 U
118-74-1	Hexachlorobenzene	1.5 U
87-86-5	Pentachlorophenol	2.0 U
85-01-8	Phenanthrene	1.0 U
120-12-7	Anthracene	2.5 U
84-74-2	Di-n-Butylphthalate	2.0 U
206-44-0	Fluoranthene	1.5 U
129-00-0	Pyrene	1.5 U
85-68-7	Butylbenzylphthalate	1.5 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	1.5 U
117-81-7	bis(2-Ethylhexyl)Phthalate	1.0 U
218-01-9	Chrysene	1.5 U
117-84-0	Di-n-Octyl Phthalate	1.5 U
205-99-2	Benzo(b)Fluoranthene	1.5 U
207-08-9	Benzo(k)Fluoranthene	1.5 U
50-32-8	Benzo(a)Pyrene	2.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	3.5 U
53-70-3	Dibenz(a,h)Anthracene	2.5 U
191-24-2	Benzo(g,h,i)Perylene	4.0 U

(1) - Cannot be separated from diphenylamine

Prepared by:

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:7855/3048E

RECEIVED SEP 2 8 1987

Sample Number
EK 744

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 8/19/87

Date Analyzed: 8/27/87

Conc/Dil Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
319-84-6	Alpha-BHC	0.010 U
319-85-7	Beta-BHC	0.0050 U
319-86-8	Delta-BHC	0.0050 U
58-89-9	Gamma-BHC (Lindane)	0.0050 U
76-44-8	Heptachlor	0.030 U
309-00-2	Aldrin	0.0050 U
1024-57-3	Heptachlor Epoxide	0.0050 U
959-98-8	Endosulfan I	0.010 U
60-57-1	Dieldrin	0.010 U
72-55-9	4,4'-DDE	0.0050 U
72-20-8	Endrin	0.010 U
33213-65-9	Endosulfan II	0.010 U
72-54-8	4,4'-DDD	0.020 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.020 U
72-43-5	Methoxychlor	0.020 U
53494-70-5	Endrin Ketone	0.030 U
57-74-9	Chlordane	0.020 U
8001-35-2	Toxaphene	0.25 U
12674-11-2	Aroclor-1016	0.10 U
11104-28-2	Aroclor-1221	0.10 U
11141-16-5	Aroclor-1232	0.10 U
53469-21-9	Aroclor-1242	0.10 U
12672-29-6	Aroclor-1248	0.10 U
11097-69-1	Aroclor-1254	0.10 U
11096-82-5	Aroclor-1260	0.10 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 = 1000 or W_s = NR V_t = 5000 V_i = 5

Prepared by:

RECEIVED SEP 2 8 1987

ORGANICS ANALYSIS DATA SHEET
Page 4
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CAL Case No. 7852/3048E Sample No. EK 744

QC Report No. 3048E Lab Sample No. 3085610AB

Probability that Identification is Correct:
A= HIGH B= MODERATE C= UNKNOWN D= SOLVENT IMPURITY, see VOA

	CAS#	COMPOUND NAME		FRACTION	SCAN NUMBER	PURITY	Estimated CONC. J VALUE
1.	108-88-3	BENZENE, METHYL-		A/BN	225	947	12.7 UG/L
2.	26688-51-7	CYCLOPENTANE, 1,3-DICHLORO-,	C	A/BN	443	568	3.3 UG/L

	COMPOUND NAME		PROBABILITY		COMMENTS
1.	BENZENE, METHYL-		1. D	1.	
2	CYCLOPENTANE, 1,3-DICHLORO-,	C	2. B	2	

NO VOA COMPOUNDS FOUND

FORM 1, PART B

APPENDIX I

LABORATORY ANALYTICAL DATA
OF
FIT-COLLECTED GROUNDWATER SAMPLES--ROUND 2

ROUTINE ANALYTICAL SERVICES

CONTRACT REQUIRED DETECTION AND QUANTITATION LIMITS

Contract Laboratory Program
Target Compound List
Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Chloromethane	74-87-3	10 ug/L	10 ug/Kg
Bromomethane	74-83-9	10	10
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	10	10
Methylene chloride	75-09-2	5	5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	5
1,1-dichloroethene	75-35-4	5	5
1,1-dichloroethane	75-34-3	5	5
1,2-dichloroethene (total)	540-59-0	5	5
Chloroform	67-66-3	5	5
1,2-dichloroethane	107-06-2	5	5
2-butanone (MEK)	78-93-3	10	10
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachloride	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87-5	5	5
cis-1,3-dichloropropene	10061-01-5	5	5
Trichloroethene	79-01-6	5	5
Dibromochloromethane	124-48-1	5	5
1,1,2-trichloroethane	79-00-5	5	5
Benzene	71-43-2	5	5
Trans-1,3-dichloropropene	10061-02-6	5	5
Bromoform	75-25-2	5	5
4-Methyl-2-pentanone	108-10-1	10	10
2-Hexanone	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Tolene	108-88-3	5	5
1,1,2,2-tetrachloroethane	79-34-5	5	5
Chlorobenzene	108-90-7	5	5
Ethyl benzene	100-41-4	5	5
Styrene	100-42-5	5	5
Xylenes (total)	1330-20-7	5	5

ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

CRL Receipt Date 5/4/88 FIT Receipt Date 5/23 Review Completed 5/24

TO: T. Pachowicz
FROM: Loretta Guzdziol
SUBJECT: HOD LF
PAN: IL0141(XF) (1 hour charged for review) Case # 9431

Sample Description

Organics (VOA, ~~ABN~~ ONLY, ~~Pest/PCB~~)		Inorganics (Metals, Cyanide)	
#	Low Soil	#	Low Soil
16	Low Water		Low Water
	Drinking Water		Drinking Water
	Other		Other

Project Data Status ✓ Completed!!

Incomplete, awaiting

FIT Data Review Findings:
Total-1,2,-dichloroethene detected in 4 samples at elevated levels. Trichloroethene detected at low concentration in three samples.

Check Data Sheets for Transcription Errors

Compounds were detected in sample(s); see enclosed sheet.

Book No. 8 Page No. 18 Date Sampled 4/19/88

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 5/20/88

SUBJECT: Review of Region V CLP Data
Received for Review on 5/4/88

FROM: Curtis Ross, Director (5SCRL)
Central Regional Laboratory Patrick J. Chunelle for

TO: Data User: FIT

We have reviewed the data for the following case(s).

SITE NAME: HOD Landfill (IL) SMO Case No. 9431

EPA Data Set No. SF5089 No. of Samples: 16 D.U./Activity Numbers Y905/C7212F

CRL No.

SMO Traffic No. EW401-408, 410-417

CLP Laboratory: Aquatec Hrs. Required for Review: 4

PAN:

Following are our findings:

Received
18 May 88
Tom Clyne
E & E, Inc

( ) Data are acceptable for use.
(✓) Data are acceptable for use with qualifications noted above.
( ) Data are preliminary - pending verification by Contractor Laboratory.
( ) Data are unacceptable.

cc: Duane Geuder, Quality Assurance Officer, EPA Support Services
James Petty, Chief Quality Assurance Research, EMSL, Las Vegas

EPA FORM 1320-6 (Rev. 5/87)

Case 9431 from HOD Landfill (Illinois) consists of 16 volatile water samples, which were analyzed at aquatec.

A. Holding Times: The holding times for analysis were met and are acceptable.

B. Tuning: The tuning data is acceptable.

C. Surrogates: The surrogate recoveries are acceptable.

D. MS/MSD: The MS/MSD recoveries are acceptable.

E. Calibration: The calibrations are acceptable. Some %D, %RSD and AVE. RRF were out, but did not impact on the data. See the calibration outliers forms.

F. Laboratory Blank: The laboratory blanks are acceptable. Normal volatile artifacts were found and recorded on the OADS forms.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS

CASE/SAS # 9431 CONTRACTOR Quanta Air

Instrument # OWA, C	Init. Cal.			Cont. Cal. 05:19			Cont. Cal. 17:03			Cont. Cal. 8:56			Cont. Cal.		
DATE/TIME: 04/20/88	—			04/22/88			04/22/88			04/23/88					
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Chloromethane															
Bromomethane								48.1	J		60.9	J			
Vinyl Chloride															
Chloroethane															
Methylene Chloride															
Acetone															
Carbon Disulfide															
1,1-Dichloroethane															
1,1-Dichloroethene															
Trans-1,2-Dichloroethene															
Chloroform															
2-Butanone	.063		J	.056		J	.050		J	.059		J			
1,2-Dichloroethane										.241		J			
1,1,1-Trichloroethane							.213		J						
Carbon Tetrachloride															
Vinyl Acetate															
Bromodichloromethane															
1,2-Dichloropropane	.227		J	.219		J	.209		J						
Trans-1,3-Dichloropropene				.274		J	.261		J	.299	~~.25~~	J			
Trichloroethene															
Dibromochloromethane															
1,1,2-Trichloroethane				.253		J	.249		J	.274		J			
Benzene															
cis-1,3-Dichloropropene							.294		J						
2-Chloroethylvinylether															
Bromoform															
4-Methyl-2-Pentanone															
2-Hexanone															
Tetrachloroethene															
1,1,2,2-Tetrachloroethane															
Toluene															
Chlorobenzene															
Ethylbenzene															
Styrene															
m-Xylene															
o/p-Xylene															

AFFECTED SAMPLES:

VSTD	200	VST	50	VST	50	VST	50
"	020	VBLK	D1	VBLK	E1	VBLK	61
"	150	EW	404	EW	405	EW	416
"	100	EW	406		407		401
"	50				407MS		402
					407MSD		403
					408		412
					411		417
					410		
					413		
					414		
					415		

Reviewer's Initials/Date: W 5 May 88

* These flags should be applied to the analytes on the sample data sheets.

Case: 9431

Contractor: Aquatec, Inc

TENTATIVELY IDENTIFIED COMPOUNDS
WATCH ASSESSMENT

NOTE: Reviewer should note directly on Organic Analysis Data Sheet (OADS) those matches that in his opinion (based on contract criteria) are unreasonable.

CRITERIA

(1) Relative intensities of major ions (>10%) reference spectrum should be present in the sample spectrum.

(2) Relative intensities of major ions in sample spectrum should agree to within ± 20% of reference spectrum intensities.

(3) Molecular ions present in reference spectrum should be present in sample spectrum.

(4) Ions present in sample spectrum, but not in reference spectrum should be reviewed for possible background contamination or presence of coeluting interferences.

(5) Ions present in reference spectrum, but not in the sample spectrum should be reviewed for possible subtraction from the sample spectrum because of background contamination or coeluting interferences.

(6) If, in the reviewer's opinion, no valid identification can be made the compound should be labelled as "unknown" and the initials and date of the reviewer placed on the OADS.

Reviewer's Initials/Date: [illegible] 5 May 1988

COMPOUND	LIMIT	401	402	403	404	405	406	407
chloromethane								
bromomethane								
vinyl chloride								
chloroethane								
methylene chloride artifact		1 BJ	0.9 BJ	2 BJ	2 BJ	3 BJ	2 BJ	4 BJ
acetone artifact		1 BJ	20 BJ	3 BJ	3 BJ	6 BJ	3 BJ	2 BJ
carbon disulfide								
1,1-dichloroethene								
1,1-dichloroethene								
~~trans~~-1,2,-dichloroethene total	5				69	79	96	100
chloroform								
1,2-dichloroethane								
2-butanone								
1,1,1-trichloroethane								
carbon tetrachloride								
vinyl acetate								
bromodichloromethane								
1,1,2,2-tetrachloroethane								
1,2-dichloropropane								
trans-1,3-dichloropropene								
trichloroethene								
dibromochloromethane								
1,1,2-trichloroethane								
benzene								
cis-1,3-dichloropropene								
2-chloroethylvinylether								
bromoform								
2-hexanone								
4-methyl-2-pentanone								
tetrachloroethene								
toluene	5					2 J		1 J
chlorobenzene								
ethylbenzene								
styrene								
total xylenes								
N-nitrosodimethylamine								
phenol								
aniline								
bis(2-chloroethyl)ether								
2-chlorophenol								
1,3-dichlorobenzene								
1,4-dichlorobenzene								
benzyl alcohol								
1,2-dichlorobenzene								
2-methylphenol								
bis(2-chloroisopropyl)ether								
4-methylphenol								
N-nitroso-di-n-propylamine								
hexachloroethane								
nitrobenzene								
isophrone								
2-nitrophenol								
2,4-dimethylphenol								
benzoic acid								
bis(2-chloroethoxy)methane								
2,4-dichlorophenol								
1,2,4-trichlorobenzene								
nepthalene								
4-chloroaniline								
hexachlorobutadiene								
4-chloro-3-methylphenol								
2-methylnepthalene								
hexachlorocyclopentadiene								
2,4,6-trichlorophenol								
2,4,5-trichlorophenol								
2-chloronaphthalene								
2-nitroaniline								

COMPOUND	LIMIT	408	410	411	412	413	414	415
chloromethane								
bromomethane								
vinyl chloride								
chloroethane								
methylene chloride artifact		5BJ	3BJ	2BJ	2BJ	2BJ	2BJ	2BJ
acetone artifact		5BJ	5BJ	5BJ	4BJ	4BJ	5BJ	4BJ
carbon disulfide								
1,1-dichloroethene								
1,1-dichloroethane								
trans-1,2,-dichloroethene								
chloroform								
1,2-dichloroethane								
2-butanone artifact	10						7BJ	
1,1,1-trichloroethane								
carbon tetrachloride								
vinyl acetate								
bromodichloromethane								
1,1,2,2-tetrachloroethane								
1,2-dichloropropane								
trans-1,3-dichloropropene								
trichloroethene	5			5				5
dibromochloromethane								
1,1,2-trichloroethane								
benzene								
cis-1,3-dichloropropene								
2-chloroethylvinylether								
bromoform								
2-hexanone								
4-methyl-2-pentanone								
tetrachloroethene								
toluene	5			2J			2J	
chlorobenzene								
ethylbenzene								
styrene								
total xylenes								
N-nitrosodimethylamine								
phenol								
aniline								
bis(2-chloroethyl)ether								
2-chlorophenol								
1,3-dichlorobenzene								
1,4-dichlorobenzene								
benzyl alcohol								
1,2-dichlorobenzene								
2-methylphenol								
bis(2-chloroisopropyl)ether								
4-methylphenol								
N-nitroso-di-n-propylamine								
hexachloroethane								
nitrobenzene								
isophrone								
2-nitrophenol								
2,4-dimethylphenol								
benzoic acid								
bis(2-chloroethoxy)methane								
2,4-dichlorophenol								
1,2,4-trichlorobenzene								
nepthalene								
4-chloroaniline								
hexachlorobutadiene								
4-chloro-3-methylphenol								
2-methylnepthalene								
hexachlorocyclopentadiene								
2,4,6-trichlorophenol								
2,4,5-trichlorophenol								
2-chloronaphthalene								
2-nitroaniline								

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V. O A

S

COMPOUND	LIMIT	F416	417					
chloromethane								
bromomethane								
vinyl chloride								
chloroethane								
methylene chloride Artifact		1 BJ	2 BJ					
acetone Artifact		5 BJ	7 BJ					
carbon disulfide								
1,1-dichloroethene								
1,1-dichloroethane								
trans-1,2,-dichloroethene								
chloroform								
1,2-dichloroethane								
2-butanone Artifact	10	9 BJ						
1,1,1-trichloroethane								
carbon tetrachloride								
vinyl acetate								
bromodichloromethane								
1,1,2,2-tetrachloroethane								
1,2-dichloropropane								
trans-1,3-dichloropropene								
trichloroethene								
dibromochloromethane								
1,1,2-trichloroethane								
benzene								
cis-1,3-dichloropropene								
2-chloroethylvinylether								
bromoform								
2-hexanone								
4-methyl-2-pentanone								
tetrachloroethene								
toluene	5	1 J	3 J					
chlorobenzene								
ethylbenzene								
styrene								
total xylenes								
N-nitrosodimethylamine								
phenol								
aniline								
bis(2-chloroethyl)ether								
2-chlorophenol								
1,3-dichlorobenzene								
1,4-dichlorobenzene								
benzyl alcohol								
1,2-dichlorobenzene								
2-methylphenol								
bis(2-chloroisopropyl)ether								
4-methylphenol								
N-nitroso-di-n-propylamine								
hexachloroethane								
nitrobenzene								
isophrone								
2-nitrophenol								
2,4-dimethylphenol								
benzoic acid								
bis(2-chloroethoxy)methane								
2,4-dichlorophenol								
1,2,4-trichlorobenzene								
napthalene								
4-chloroaniline								
hexachlorobutadiene								
4-chloro-3-methylphenol								
2-methylnapthalene								
hexachlorocyclopentadiene								
2,4,6-trichlorophenol								
2,4,5-trichlorophenol								
2-chloronaphthalene								
2-nitroaniline								

SAMPLE DATES 4/18-19/88
LOG IN DATE: 5/5/88
DUE DATE: 5/17/88

TOR 27 1988

SUPERFUND 5089

CENTRAL REGIONAL LABORATORY SAMPLE DATA REPORT
ORGANICS/INORGANICS

THIS FORM IS TO BE USED FOR SAMPLES SENT TO CONTRACT ONLY

CASE NUMBER/SAS No. 9431 SITE NAME Hop Landfill LABORATORY Aquatec DATE SHIPPED 4/18-19/88

SUPERFUND DU NUMBER 11905 EPA RPM or OSC (S.M.S.)/(CES) CERCLIS NUMBER ILD980605836 PAGE 1 OF 1

ACTIVITY NUMBER C72100

CRL LOG NUMBER	ORGANIC TRAFFIC REPORT NUMBER or SAS Packing List No.	INORGANIC TRAFFIC REPORT NUMBER or SAS Packing List No.	WATER OR LIQUIDS: ACID-BASE NEUTRAL CPDS ORGANIC SCAN UG/L TOX17574	VOLATILE ORGANIC ANALYSIS ORGANIC SCAN UG/L TOX17584	WATER POLYCHLORINATED BIPHENYLS UG/L PES 17144	WATER CHLORINATED PESTICIDES UG/L PES17134	TOTAL METALS IN WATER UG/L MET111	WATER CYANIDE UG/L MIN74019	NITRATE/NITRITE MG/L MIN72084	AMMONIA MG/L MIN72094	RESIDUE, FILTERABLE TDS MG/L MIN72063	RESIDUE, NON-FILT TSS MG/L MIN72073			SEDIMENTS or SOILS: ACID-BASE NEUTRAL CPDS ORGANIC SCAN MG/KG TOX215722	VOLATILE ORGANIC ANALYSIS ORGANIC SCAN MG/KG TOX218422	SEDIMENTS POLYCHLORINATED BIPHENYLS MG/KG PES211422	SEDIMENT CHLORINATED PESTICIDES MG/KG 211322	TOTAL METALS MG/KG MET413	CYANIDE MG/KG MIN441830	EP TOXICITY METALS MG/KG	AMMONIA MG/KG MIN427925				
88FL18535	EW404	✓ — ✓		✓																						
88FL18536	EW405	✓ — ✓		✓																						
88FL18537	EW406	✓ — ✓		✓	✓																					
88FL18538	EW407	✓ — ✓		✓	✓																					
88FL18539	EW408	✓ — ✓		✓	✓																					
88FL18540	EW410	✓ — ✓		✓																						
88FL18541	EW411	✓ — ✓		✓																						
88FL18542	EW413	✓ — ✓		✓																						
88FL18543	EW414	✓ — ✓		✓																						
88FL18D41	EW415	✓ — ✓		✓																						
88FL18R05	EW416	✓ — ✓		✓																						
88FL18544	EW401	✓ — ✓		✓																						
88FL18545	EW402	✓ — ✓		✓																						
88FL18546	EW403	✓ — ✓		✓																						
88FL18547	EW412	✓ — ✓		✓	✓																					
88FL18R06	EW417	✓ — ✓		✓																						
	COLTR DATA																									

aquatec INC. ENVIRONMENTAL SERVICES

75 GREEN MOUNTAIN DRIVE, SOUTH BURLINGTON, VERMONT 05403, TELEPHONE (802) 658-1074

3 May 1988

U.S. Environmental Protection Agency
Contract Laboratory Program
Sample Management Office
209 Madison Street
Alexandria, VA 22314

U.S. EPA CENTRAL REGIONAL LAB

Re: Contract No. 68-01-7434
Case No. 9431, SDG #EW404
Aquatec Project No. 87108

Gentlemen:

Enclosed are the analytical results for Case 9431, SDG #EW404.

This case consists of sixteen (16) aqueous samples for volatile organics analysis.

The samples were received intact by Aquatec on 19 and 20 April 1988.

Laboratory numbers were assigned and are designated as follows:

Samples Received on 19 April 1988

EPA	Aquatec	Sample Matrix
EW404	82510	aqueous
EW405	82511	aqueous
EW406	82512	aqueous
EW407	82513	aqueous
EW408	82514	aqueous
EW410	82515	aqueous
EW411	82516	aqueous
EW413	82517	aqueous
EW414	82518	aqueous
EW415	82519	aqueous
EW416	82520	aqueous

Samples Received on 20 April 1988

EPA	Aquatec	Sample Matrix
EW401	82550	aqueous
EW402	82551	aqueous
EW403	82552	aqueous
EW412	82553	aqueous
EW417	82554	aqueous

Hydrographic Studies and Analyses • Water Quality Studies • Analytical Laboratories
Ecological Studies • Computer Simulations • Industrial Waste Surveys

Enhanced total ion peak heights were used for the purpose of evaluating and quantitating "Tentatively Identified Compounds" associated with these samples.

Because of the common occurrence of mass 43 with low molecular weight hydrocarbons, the laboratory has used mass 58 as the quantitation ion for acetone in the volatile organics analysis of the samples. OK

The data summary forms submitted in this data package represent a translation of the forms produced by EPA Cincinnati software. Details that reflect the constraints of that software have not been corrected. These include the reporting of percent difference of Form VII as an absolute percent difference and the reporting of both spiked and nonspiked analytes on Form I for the matrix spike and matrix spike duplicate analyses.

For the benefit of interested parties, documentation of sample handling and preparation is included at the end of the "Sample Data Package". A colored sheet of paper entitled "Sample Preparation Package" has been used to explicitly mark the location of these documents.

Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sincerely,

Joseph K. Comean, Ph.D.
Laborator Director

03 May 1988
Date

JKC/rc

Enclosure

cc: EMSL
EPA Region V

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name:AQUATEC, INC. Contract:68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
01	VBLKD1	95	98	96		0
02	EW404	91	94	88		0
03	EW406	91	88	90		0
04	VBLKE1	102	108	92		0
05	EW405	101	106	97		0
06	EW407	100	103	96		0
07	EW407MS	100	105	95		0
08	EW407MSD	101	107	96		0
09	EW408	98	103	92		0
10	EW411	99	105	95		0
11	EW410	102	113	95		0
12	EW413	101	110	94		0
13	EW414	103	114	98		0
14	EW415	102	113	95		0
15	VBLKG1	95	98	90		0
16	EW416	97	109	90		0
17	EW401	96	113	87		0
18	EW402	96	110	88		0
19	EW403	97	107	89		0
20	EW412	96	107	89		0
21	EW417	96	107	92		0
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	QC LIMITS
S1 (TOL) = Toluene-d8	(88-110)
S2 (BFB) = Bromofluorobenzene	(86-115)
S3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

000005

FORM II VOA-1 1/87 Rev.

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix Spike - EPA Sample No.: EW407

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	#	QC LIMITS REC.
1,1-Dichloroethene	50	0	51	103		61-145
Trichloroethene	50	0	48	96		71-120
Benzene	50	0	52	103		76-127
Toluene	50	1	54	105		76-125
Chlorobenzene	50	0	51	102		75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	53	106		3		14	61-145
Trichloroethene	50	48	96		0		14	71-120
Benzene	50	51	102		1		11	76-127
Toluene	50	54	105		1		13	76-125
Chlorobenzene	50	51	102		0		13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

000006

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Lab File ID: CCB001GV Lab Sample ID: CCB001GV

Date Analyzed: 04/23/88 Time Analyzed: 1004

Matrix: (soil/water) WATER Level: (low/med) LOW

Instrument ID: OWA C

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EW416	82520	C82520I2V	1111
02	EW401	82550	C82550V	1225
03	EW402	82551	C82551V	1332
04	EW403	82552	C82552V	1433
05	EW412	82553	C82553V	1533
06	EW417	82554	C82554V	1619
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COMMENTS: _____

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Lab File ID: CCB001DV Lab Sample ID: CCB001DV

Date Analyzed: 04/22/88 Time Analyzed: 0623

Matrix: (soil/water) WATER Level: (low/med) LOW

Instrument ID: OWA C

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EW404	82510	C82510V	1340
02	EW406	82512	C82512V	1540
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COMMENTS: _____

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Lab File ID: CCB001EV Lab Sample ID: CCB001EV

Date Analyzed: 04/22/88 Time Analyzed: 1810

Matrix: (soil/water) WATER Level: (low/med) LOW

Instrument ID: OWA C

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EW405	82511	C82511I2V	1909
02	EW407	82513	C82513V	2007
03	EW407MS	M82513	C82513MV	2053
04	EW407MSD	MD82513	C82513MDV	2139
05	EW408	82514	C82514V	2230
06	EW411	82516	C82516V	0011
07	EW410	82515	C82515I2V	0104
08	EW413	82517	C82517V	0155
09	EW414	82518	C82518V	0244
10	EW415	82519	C82519V	0332
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COMMENTS: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKD1

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: CCB001DV

Sample wt/vol: 5 (g/mL) ML Lab File ID: CCB001DV

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec._____ Date Analyzed: 04/22/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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	2	J
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	2	J
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
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-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
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKD1

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: CCB001DV

Sample wt/vol: 5 (g/mL) ML Lab File ID: CCB001DV

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec._____ Date Analyzed: 04/22/88

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	HEXAMETHYLCYCLOTRISILOXANE	28.67	7	J
2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKE1

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: CCB001EV

Sample wt/vol: 5 (g/mL) ML Lab File ID: CCB001EV

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec._____ Date Analyzed: 04/22/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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	7	
67-64-1	Acetone	11	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	3	J
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
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-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
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKE1

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: CCB001EV

Sample wt/vol: 5 (g/mL) ML Lab File ID: CCB001EV

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec._____ Date Analyzed: 04/22/88

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	HEXAMETHYLCYCLOTRISILOXANE	28.62	6	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKG1

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: CCB001GV

Sample wt/vol: 5 (g/mL) ML Lab File ID: CCB001GV

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec._____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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	1	J
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	1	J
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
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-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
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKG1

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: CCB001GV

Sample wt/vol: 5 (g/mL) ML Lab File ID: CCB001GV

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec._____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	HEXAMETHYLCYCLOTRISILOXANE	28.52	7	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW401

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82550

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82550V

Level: (low/med) LOW Date Received: 04/20/88

% Moisture: not dec._____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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	1	BJ
67-64-1	Acetone	1	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	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
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-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
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

Possible lab artifact TC

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW401

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82550

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82550V

Level: (low/med) LOW Date Received: 04/20/88

% Moisture: not dec._____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	HEXAMETHYLCYCLOTRISILOXANE	28.62	7	JB
2.	GC column artifact			
3.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW402

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82551

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82551V

Level: (low/med) LOW Date Received: 04/20/88

% Moisture: not dec._____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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	.9	BJ
67-64-1	Acetone	2	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	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
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-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
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

Possible lab artifact TC

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW402

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82551

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82551V

Level: (low/med) LOW Date Received: 04/20/88

% Moisture: not dec._____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	HEXAMETHYLCYCLOTRISILOXANE	28.62	6	JB
2.				
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Possibly a column artifact

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW403

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82552

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82552V

Level: (low/med) LOW Date Received: 04/20/88

% Moisture: not dec._____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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	2	BJ
67-64-1	Acetone	3	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	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
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-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
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

Probable lab artifact TC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW404

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82510

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82510V

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec._____ Date Analyzed: 04/22/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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	2	BJ
67-64-1	Acetone	3	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	69	
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
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-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
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

Probable lab artifact

HIT

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW404

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82510

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82510V

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec._____ Date Analyzed: 04/22/88

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	HEXAMETHYLCYCLOTRISILOXANE	28.67	6	JB
2.	possible GC column artifact			
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW405

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82511

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82511I2V

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec._____ Date Analyzed: 04/22/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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	3	BJ
67-64-1	Acetone	5	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	79	
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
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-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
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	2	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

Sample lot certified

Hit TC

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW405

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82511

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82511I2V

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec. _____ Date Analyzed: 04/22/88

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	HEXAMETHYLCYCLOTRISILOXANE	28.67	7	JB
2.	possible GC column output			
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW406

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82512

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82512

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec._____ Date Analyzed: 04/22/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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	2	BJ
67-64-1	Acetone	3	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	96	
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
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-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
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

Probable lab art

Not TC

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW406

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82512

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82512

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec. _____ Date Analyzed: 04/22/88

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	HEXAMETHYLCYCLOTRISILOXANE	28.57	5	JB
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW407

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82513

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82513V

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec._____ Date Analyzed: 04/22/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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	4	BJ
67-64-1	Acetone	2	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	100	
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
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-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
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

Possible lab artifact

HIT

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW407

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82513

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82513V

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec._____ Date Analyzed: 04/22/88

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	HEXAMETHYCYCLOTRISILOXANE	28.67	5	JB
2.				
3.	possible GC column artifact			
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW408

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82514

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82514W

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec._____ Date Analyzed: 04/22/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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	5	BJ
67-64-1	Acetone	5	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	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
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-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
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

Possible lab artifact

FORM I VOA 1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW408

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82514

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82514

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec._____ Date Analyzed: 04/22/88

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	HEXAMETHYLCYCLOTRISILOXANE	28.57	6	JB
2.				
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possible GC column artifact

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW410

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82515

Sample wt/vol: 5 (g/mL) ML Lab File ID: C8251512V

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec. _____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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	3	BJ
67-64-1	Acetone	5	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	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
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-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
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

Possible lab contam

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW410

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82515

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82515X2V

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec._____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	HEXAMETHYLCYCLOTRISILOXANE	28.62	5	JB
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW411

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82516

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82516V

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec. _____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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	2	BJ
67-64-1	Acetone	5	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	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
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	2	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

possible lab artifact

Hit

Hit below detection

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW411

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82516

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82516

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec. _____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	HEXAMETHYCYCLOTRISILOXANE	28.67	6	JB
2.	possible GC column artifact			
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW412

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82553

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82553V

Level: (low/med) LOW Date Received: 04/20/88

% Moisture: not dec._____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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	2	BJ
67-64-1	Acetone	4	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	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
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-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
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

Possible lab artifact

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW412

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82553

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82553V

Level: (low/med) LOW Date Received: 04/20/88

% Moisture: not dec._____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	HEXAMETHYLCYCLOTRISILOXANE	28.72	5	JB
2.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW413

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82517

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82517V

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec._____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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	2	BJ
67-64-1	Acetone	4	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	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
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-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
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

possible lab artifact

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW413

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab. Sample ID: 82517

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82517V

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec._____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

mber TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	HEXAMETHYLCYCLOTRISILOXANE	28.67	5	JB
2.				
3.	possible GC column artifact			
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW414

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82518

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82518V

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec._____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
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	2	BJ	possible lab artefact
67-64-1	Acetone	5	BJ	
75-15-0	Carbon Disulfide	5	U	
75-35-4	1,1-Dichloroethene	5	U	
75-34-3	1,1-Dichloroethane	5	U	
540-59-0	1,2-Dichloroethene (total)	5	U	
67-66-3	Chloroform	5	U	
107-06-2	1,2-Dichloroethane	5	U	
78-93-3	2-Butanone	2	BJ	possible lab artefact
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	
78-87-5	1,2-Dichloropropane	5	U	
10061-01-5	cis-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	
10061-02-6	trans-1,3-Dichloropropene	5	U	
75-25-2	Bromoform	5	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	5	U	
79-34-5	1,1,2,2-Tetrachloroethane	5	U	
108-88-3	Toluene	2	J	
108-90-7	Chlorobenzene	5	U	
100-41-4	Ethylbenzene	5	U	
100-42-5	Styrene	5	U	
1330-20-7	Xylene (total)	5	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW414

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82518

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82518V

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec._____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	HEXAMETHYLCYCLOTRISILOXANE	28.67	5	JB
2.				
3.	possible GC column artifact			
4.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW415

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82519

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82519V

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec. _____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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	2	BJ
67-64-1	Acetone	4	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	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
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

possible lab artifact

hit

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW415

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82519

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82519V

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec._____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	HEXAMETHYLCYCLOTRISILOXANE	28.67	6	JB
2.	possible G.C. column artifact			
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW416

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82520

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82520I2V

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec._____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
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	1	BJ	possible lab artifact
67-64-1	Acetone	5	BJ	
75-15-0	Carbon Disulfide	5	U	
75-35-4	1,1-Dichloroethene	5	U	
75-34-3	1,1-Dichloroethane	5	U	
540-59-0	1,2-Dichloroethene (total)	5	U	
67-66-3	Chloroform	5	U	
107-06-2	1,2-Dichloroethane	5	U	
78-93-3	2-Butanone	3	BJ	possible lab artifact
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	
78-87-5	1,2-Dichloropropane	5	U	
10061-01-5	cis-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	
10061-02-6	trans-1,3-Dichloropropene	5	U	
75-25-2	Bromoform	5	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	5	U	
79-34-5	1,1,2,2-Tetrachloroethane	5	U	
108-88-3	Toluene	1	J	
108-90-7	Chlorobenzene	5	U	
100-41-4	Ethylbenzene	5	U	
100-42-5	Styrene	5	U	
1330-20-7	Xylene (total)	5	U	

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW416

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82520

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82520I2V

Level: (low/med) LOW Date Received: 04/19/88

% Moisture: not dec._____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME hydrocarbon	RT	EST. CONC.	Q
1. 75-28-5	2-METHYLPROPANE	4.47	11	J
2. 541-05-9	HEXAMETHYLCYCLOTRISILOXANE	28.62	8	JB
3.	Tripoculh GC column artifact			
4.	RC			
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW417

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Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab. Sample ID: 82554

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82554V

Level: (low/med) LOW Date Received: 04/20/88

% Moisture: not dec._____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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	2	BJ
67-64-1	Acetone	7	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	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
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-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
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

possible lab artifact

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW417

Lab Name: AQUATEC, INC. Contract: 68-01-7434

Lab Code: AQUAI Case No.: 9431 SAS No.: _____ SDG No.: EW404

Matrix: (soil/water) WATER Lab Sample ID: 82554

Sample wt/vol: 5 (g/mL) ML Lab File ID: C82554V

Level: (low/med) LOW Date Received: 04/20/88

% Moisture: not dec._____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME hydrocarbon	RT	EST. CONC.	Q
1. 75-28-5	2-METHYLPROPANE	4.37	34	J
2. 541-05-9	HEXAMETHYLCYCLOTRISILOXANE	28.57	5	JB
3.	probable GC column artifact			
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD/Central Regional Laboratory
DATA TRACKING FORM FOR CONTRACT SAMPLES

CRL Data Set No. _____ CERCLIS No. ILD

SMO Case No. 9431 Site Name and Location: HOD LANDFILL

Name of Contractor or EPA Laboratory: AQUATEC Data User: FIT

No. of Samples: 16 Date Samples or Data Received: 5-4-88

1. Have chain-of-custody records been received? YES ___ NO ✓
2. Have Traffic Reports or packing lists been received? YES ___ NO ✓
3. If no, are Traffic Report or packing list numbers written on the chain-of-custody record? YES ___ NO ___
4. If no, which Traffic report or packing list numbers are missing?

Are basic data forms in? YES ✓ NO ___

Number of samples claimed: 16 Number of samples received: 16

Checked by: Erlinda Luz M. Arreola Date: 5-4-88

Received by Contract Project Management Section: P. Chuella Date: 5-4-88

Review Started: 5 May 88 Reviewer Signature: [illegible]

Total time spent on review: [illegible] Date review completed: [illegible]

Copied (xeroxed) by: [illegible] Date: _____

Mailed to Data User by: [illegible] Date: 5-20-88

DATA USERS:

Please fill in the blanks below and return this form to: Sylvia Griffin, Data Management Coordinator, Region V, SSCRL

Data received by: _____ Date: _____

Q.A. review received by: _____ Date: _____

Inorganic Date Complete [ ], Suitable for Intended Purposes [ ] ✓ [ ] if acceptable.
Organic Data Complete [ ], Suitable for Intended Purposes [ ] List problems below.
Dioxin Data Complete [ ], Suitable for Intended Purposes [ ]
SAS Data Complete [ ], Suitable for Intended Purposes [ ]

See Attached "Missing Data Request Form" [ ]
PROBLEMS: Please indicate reasons (if any) why data are not suitable for your uses. Other problems.

Received by Data Management Coordinator, CRL for File: Date: _____

Signature: