81859

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EXPANDED SITE INSPECTION REPORT
FOR
H.O.D. LANDFILL
ANTIOCH, ILLINOIS
U.S. EPA ID: ILD980605836
SS ID: IL2F
TDD: F05-8702-124
PAN: FIL0141XB

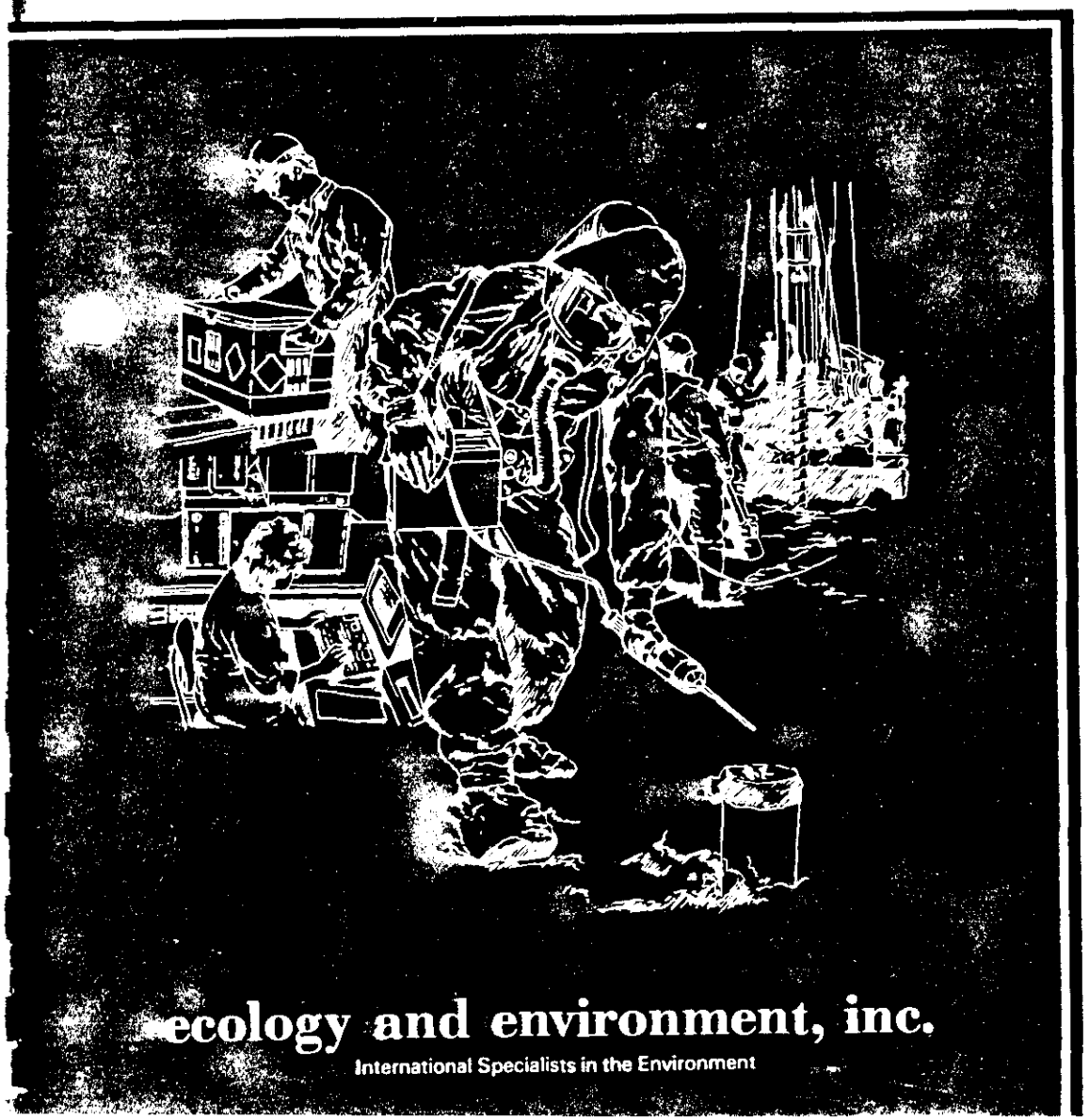
VOLUME 4 OF 4

9/22/90
C.02

EPA

HAZARDOUS
SITE
EVALUATION
DIVISION

Field Investigation Team Zone II



CONTRACT NO.
68-01-7347

ecology and environment, inc.
International Specialists in the Environment

EXPANDED SITE INSPECTION REPORT 9/22/89
FOR C.02
H.O.D. LANDFILL
ANTIOCH, ILLINOIS
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VOLUME 4 OF 4

SEPTEMBER 22, 1989

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H

APPENDIX H

LABORATORY ANALYTICAL DATA
OF
FIT-COLLECTED GROUNDWATER SAMPLES--ROUND 1

ROUTINE ANALYTICAL SERVICES

CONTRACT REQUIRED DETECTION AND QUANTITATION LIMITS

Contract Laboratory Program
Target Analyte List
Inorganic Quantitation Limits

COMPOUND	PROCEDURE	SOIL VATER	SEDIMENT SLUDGE
Aluminum	ICP	200 ug/L	40 mg/Kg
Antimony	Furnace	60	2.4
Arsenic	Furnace	10	2
Barium	ICP	200	40
Beryllium	ICP	5	1
Cadmium	ICP	5	1
Calcium	ICP	5000	1000
Chromium	ICP	10	2
Cobalt	ICP	50	10
Copper	ICP	25	5
Iron	Icp	100	20
Lead	Furnace	5	1
Magnesium	ICP	5000	1000
Manganese	ICP	15	3
Mercury	Cold Vapor	0.2	0.008
Nickel	ICP	40	8
Potassium	ICP	5000	1000
Selenium	Furnace	5	1
Silver	ICP	10	2
Sodium	ICP	5000	1000
Thallium	Furnace	10	2
Vanadium	ICP	50	10
Zinc	ICP	20	4
Cyanide	Color	10	2

Contract Laboratory Program
Target Compound List
Pesticide and PCB Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
alpha-BHC	319-84-6	0.05 ug/L	8 ug/Kg
beta-BHC	319-85-7	0.05	8
delta-BHC	319-86-8	0.05	8
gamma-BHC (Lindane)	58-89-9	0.05	8
Heptachlor	76-44-8	0.05	8
Aldrin	309-00-2	0.05	8
Heptachlor epoxide	1024-57-3	0.05	8
Endosulfan I	959-98-8	0.05	8
Dieldrin	60-57-1	0.10	16
4,4'-DDE	72-55-9	0.10	16
Endrin	72-20-8	0.10	16
Endosulfan II	33213-65-9	0.10	16
4,4'-DDD	72-54-8	0.10	16
Endosulfan sulfate	1031-07-8	0.10	16
4,4'-DDT	50-29-3	0.10	16
Methoxychlor (Mariate)	72-43-5	0.5	80
Endrin ketone	53494-70-5	0.10	16
alpha-Chlordane	5103-71-9	0.5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphene	8001-35-2	1.0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	0.5	80
AROCLOR-1242	53469-21-9	0.5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1.0	160
AROCLOR-1260	11096-82-5	1.0	160

Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SLUDGE SEDIMENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Hexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Methylphenol	95-48-7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
4-Methylphenol	106-44-5	10	330
N-Nitroso-di-n-dipropylamine	621-64-7	10	330
Hexachloroethane	67-72-1	10	330
Nitrobenzene	98-95-3	10	330
Isophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethoxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Naphthalene	91-20-3	10	330
4-Chloroaniline	106-47-8	10	330
Hexachlorobutadiene	87-68-3	10	300
4-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330

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

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9/22/87

Date Received for Review 10/13/87 Date Review Completed 10/19/87

To: T. Pachowicz

From: Zena Gold-Kaufman ZGK

Subject: HOD Lndfl

PAN: IL0141 Case # 7352

Sample Description

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

Project Data Status

Completed!!

~~Incomplete~~, awaiting: except for re-analysis data from this package

FIT Data Review Findings:

* See USER INFO SHEETS *

Re-analysis data for 9 SVs to be sent 10/20/87

* Check CADS forms for transcription errors *

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

Book No. 6 Page No. 256

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

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DATE: 10/9/87

SUBJECT: Review of Region V CLP Data
Received for Review on 9/22/87

FROM: Curtis Ross, Director (5SCRL) Patrick J. Chenille 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

EPA DATA SET NO. SF4311 No. OF SAMPLES 19 D.U./ACTIVITY NUMBERS Y905/C72100

CRL No.: 87FP16S03 - S17, R01 - R03, D05

SMO Traffic No. ET982 - ET993, ET995 - 1000, EM445

CLP Laboratory: Spectrix Hrs. Required for Review: 19 Hours

Following are our findings.

see attached review
Ezra Zold-Kaufman
10/8/87

REANALYSIS DATA IS EXPECTED BY OCT. 20, 1987 - Patrick J. Chenille 10-7-87

( ) Data are acceptable for use.
( ) Data are acceptable for use with qualifications noted above.
(X) Data are preliminary - pending verification by contractor lab. SV reanalyzed for EM445, ET933-935, ET987-990, ET992
( ) Data are unacceptable.

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

This review covers 19 low waters for which full organic analysis was requested. Sample ET993 is a duplicate of sample ET938. The laboratory experienced difficulties with some of the semivolatile analyses, thereby causing the following semivolatile fractions will need to be re-extracted and re-analyzed:

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EM 445
ET 983
ET 984
ET 985
ET 987
ET 988
ET 989
ET 990
ET 992

Data for these samples will follow at a later date.

A. Holding Times - Acceptable

B. Surrogates - Acceptable
Volatiles 0 out of 72 outside of QC limits.
Semi-volatiles 19 out of 132 outside of QC limits.
Pesticides 11 out of 23 outside of QC limits.

C. Matrix/MSD - Acceptable
Recovery:

VOAs	0 out of 10; outside QC limits
B/N	0 out of 12; outside QC limits
Acid	2 out of 10; outside QC limits
Pest	5 out of 12; outside QC limits

RPD

VOAs	0 out of 5; outside QC limits
B/N	0 out of 6; outside QC limits
Acid	4 out of 5; outside QC limits
Pest	2 out of 6; outside QC limits

D. Blank - Acceptable
Common lab artifacts were detected in the volatile and semi-volatile fractions. These include:
Methylene chloride
Phenol
Acetone
Several low level TICs
DDT was detected at 0.1 ug/L
(CRDL = 0.10 ug/L)

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E. Calibrations - Acceptable
Some compounds were outside specification with respect to response factor, %RSD and/or %D. These compounds are so noted on the calibration outlier forms.

F. Tuning - Acceptable

G. Pesticides - Acceptable
Linearity - Acceptable
DBC Shift - Acceptable
DDT retention shift - acceptable--greater than 12 minutes
DDT was detected in the lab method blank, however, it was not detected in any samples.

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USER INFORMATION SHEET

HOD Landfill
ILO141

Case #7352

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Sample	TCL Compound	TIC Compounds
EM445	Common lab artifact	VOA - None SV - Benzophenone unknown
ET982	Common lab artifacts	VOA - None SV - Caprolactam, unknown
ET983	Common lab artifacts	VOA - 2-Propanol SV - 13 TICs
ET984	Common lab artifacts	VOA - None SV - 9 TICs
ET985	Trans-1,2-Dichloroethene 71 ug/L CRDL = (5 ug/L) Common lab artifacts	VOA - None SV - 6 TICs
ET986	Common lab artifacts	VOA - None SV - 13 TICs
ET987	Common lab artifacts	VOAs- None SV - 6 TICs
ET988	Common lab artifacts	VOA - 2-Propanol SV - 16 SV TICs
ET989	Trichloroethene 7 ug/L CRDL = (5 ug/L) Common lab artifacts	VOA - None SV - 5 SV TICs
ET990	Common lab artifacts	VOAs - None SV - 6 TICs
ET991	Benzene = 8 ug/L CRDL = (5 ug/L) Common lab artifacts	VOAs - None SV - 21 TICs
ET992	Common lab artifacts	VOA - None SV - 3 TICs

HOD Landfill
IL0141

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Sample	TCL Compound	TIC Compounds
ET993	Common lab artifacts	VOA - None SV - 8 TICs
ET995	VOA analysis only no compounds detected	VOA - 2 TICs
ET996	Common lab artifacts	VOA - None SV - 1 TIC
ET997	Common lab artifacts	VOA - None SV - 1 Unknown
ET998	Common lab artifacts	VOA - None SV - None
ET999	Common lab artifacts	VOA - 1 TIC SV - 1 TIC
ET100	Common lab artifacts	VOA - None SV - 1 TIC

Check OADS forms for transcription errors. Some VOAs detected including Trans 1,2-Di-chloroethene, trichloroethene and benzene.

ZGK
10/8/87

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

CASE/SAS # 7852 CONTRACTOR SPECTRIX

Instrument #	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/13/87			8/18 920											
	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															
1,2-Dichloroethane															
1,1,1-Trichloroethane															
Carbon Tetrachloride															
Vinyl Acetate															
Bromodichloromethane															
1,2-Dichloropropane															
Trans-1,3-Dichloropropene					27.5	J									
Trichloroethene					31.2	J									
Dibromochloromethane															
1,1,2-Trichloroethane															
Benzene															
cis-1,3-Dichloropropene					26.8	J									
2-Chloroethylvinylether															
Bromoform															
4-Methyl-2-Pentanone															
2-Hexanone															
Tetrachloroethene															
1,1,2,2-Tetrachloroethane					28.8	J									
Toluene															
Chlorobenzene															
Ethylbenzene															
Styrene															
m-Xylene															
o/p-Xylene															

AFFECTED SAMPLES:

ET 982
ET 983
ET 984
ET 987
ET 988
ET 990
ET 991
ET 993
[illegible]
[illegible]

Reviewer's Initials/Date: [illegible]

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

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

CASE/SAS # 7852 CONTRACTOR SPECTRIX

Instrument #	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/16			8/17 716			8/19 552			~~8/02 836~~					
	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	0.03		~~J~~	.03		~~J~~	.035		~~J~~						
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:

LLW BLK	LL BLNK
ET985	ET989
ET992	ET995
ET986	ET996
ET986 MS	ET997
ET986 MSD	ET999
	ET995
	ET1000

Reviewer's Initials/Date: ZGK 10/5/87

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

CASE/SAS # 7852 CONTRACTOR SPECTRIX

Instrument #	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	3/26/87			8/31 1050			9/01 855			9/02 836			9/04		
	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								30.2	J						
bis(2-Chloroethoxy)Methane															
2,4-Dichlorophenol															
1,2,4-Trichlorobenzene															
Naphthalene															
4-Chloroaniline														25.6	J
Hexachlorobutadiene															
4-Chloro-3-Methylphenol															
2-Methylnaphthalene															
Hexachlorocyclopentadiene															
2,4,6-Trichlorophenol															
2,4,5-Trichlorophenol															
2-Chloronaphthalene															
2-Nitroaniline														28	J
Dimethyl Phthalate															
Acenaphthylene															
3-Nitroaniline								44.2	J					39	J
Acenaphthene															
2,4-Dinitrophenol															
4-Nitrophenol					35.6	J								34	J
Dibenzofuran															

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AFFECTED SAMPLES:

ET 986	~~BK~~ LLW BK	ET 999	ET 996
ET 986 MS	ET 987	ET 1000	
ET 986 MSD	ET 988	ET 998	
ET 985	ET 990		
ET 992	ET 991		
EM 445	ET 993		
ET 982	ET 989		
ET 983	ET 997		
ET 984			

Reviewer Initials/Date: ZCK 10/5/87

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

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

CASE/SAS # 7852 CONTRACTOR SPECTRIX

Instrument #	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/26/87			8/31 1050			9/01 855			9/02 836			9/04 1017		
	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								34%	J		29.4	J			
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															

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SEE PAGE 1 FOR AFFECTED SAMPLES.

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

Reviewer's Initials/Date: TGK 10/5/87

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US EPA CENTRAL REGIONAL LAB.
536 S. CLARK STREET
CHICAGO, ILLINOIS 60605

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LABORATORY: SPECTRIX-HOUSTON
DOC CONT NO: 7852-05-21
LAB NO: 8708036
QC REPORT NO: 243
CONTRACT NO: 68-01-7149

CASE 7852
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SECTION I NARRATIVE

LABORATORY: SPECTRIX - HOUSTON DOC CONT NO: 7852-5 -21

CASE NO: 7852 QC REPORT NO: 243

LAB NO: 8708036 CONTRACT NO: 68-01-7149

I. RECEIPT

A. DATE: 8/13, 8/11 & 8/12/87

B. NO. OF SAMPLES: 19

C. SMO NUMBERS: SEE ATTACHED SHEET

D. SAMPLE TYPE: WATER

E. ANALYSIS REQUESTED: Full Organic following 7/85 SOW

F. SHIPPING PROBLEMS: none

G. DOCUMENTATION PROBLEMS: some bottles had no SMO STICKERS

H. QC DISTRIBUTION:

LEVEL	MATRIX	VOA	SV	PEST
LOW	WATER	ET986	ET986	ET985
	SOIL	—	—	—
MEDIUM	WATER	—	—	—
	SOIL	—	—	—

II. PREPARATION

A. ANALYTICAL LEVELS: All are low level.

B. EXTRACTION PROBLEMS: none

DOC CONT NO: 7852-5 -21

III. ANALYSIS

A. ANALYSIS PROBLEMS: Pesticide BLANK #2 (MB2) shows DDT slightly above the detection limit. No DDT was found in samples. Many BNA fractions contain Caprolactam. Spectrix has found when Caprolactam is present in the BNA extracts, poor Acid surrogate recoveries result. Endrin Ketone for second column at 9-16-87 was > 20% difference (41%).

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B. SURROGATE RECOVERIES: The following BNA fractions will need to be re-extracted and reanalyzed: EM445, ET983, ET984, ET985, ET987, ET988, ET989, ET990 & ET992. DATA for these samples will follow at a later date. 11 water samples in this case show poor DBC pesticide recoveries.

IV. COMMENTS: None

Thomas T. Ostrom
Project Manager

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DC#7852-5-18

MB3	101	101	93	NR	NR	NR	TP	NR	NR	NR	115
ET985 MS	NR	NR	NR	NR	NR	NR		NR	NR	NR	26*
ET985 MSD	NR	NR	NR	NR	NR	NR		NR	NR	NR	31*

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS
** ADVISORY LIMITS ONLY

Volatiles: 0 out of 72; outside of QC limits
Semi-Volatiles: 19 out of 132; outside of QC limits
Pesticides: 11 out of 23; outside of QC limits

Comments: NR = NOT REQUIRED

FORM II

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Spectrix DC# 7852-5-18

TN

WATER MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Case No. 7852 Contractor SPECTRIX Contract No. 68-01-7149

FRACTION	COMPOUND	CONC. ADDED (ug/L)	SPIKE SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS* RPD	QC LIMITS* REC-REC
VOA	1,1-Dichloroethene	50.0	0	40.7	81	39.7	79	3	14	61-145
SMO	Trichloroethene	50.0	0	48.2	96	44.8	90	6	14	71-120
SAMPLE NO.	Chlorobenzene	50.0	0	49.9	100	46.4	93	7	13	75-130
ET996	Toluene	50.0	0	45.5	91	42.6	85	7	13	76-125
	Benzene	50.0	0	44.7	89	43.4	87	2	11	76-127
B/N	1,2,4-Trichlorobenzene	50.0	0	39.9	80	39.3	79	1	28	39-98
SMO	Acenaphthene	50.0	0	49.2	98	48.4	97	1	31	46-118
SAMPLE NO.	2,4-Dinitrotoluene	50.0	0	31.4	63	41.3	83	-27	32	24-96
ET996	Pyrene	50.0	0	35.5	71	37.6	75	-5	31	26-127
	N-Nitroso-Di-n-Propylamine	50.0	0	29.8	60	33.3	67	-11	38	41-116
	1,4-Dichlorobenzene	50.0	0	41.2	82	40.8	82	0	28	36-97
ACID	Pentachlorophenol	100	0	39.4	39	75.1	75	-53*	50	9-103
SMO	Phenol	100	0	25.1	25	64.7	65	-89*	42	12-86
SAMPLE NO.	2-Chlorophenol	100	0	14.5	15*	54.9	55	-114*	40	27-123
ET996	4-Chloro-3-Methylphenol	100	0	49.9	50	59.8	60	-18	42	23-97
	4-Nitrophenol	100	0	29.3	29	91.6	92*	104*	50	10-80
PEST	Lindane	0.2	0	0.19	95	0.18	92	3	15	56-123
SMO	Heptachlor	0.2	0	0.08	40	0.07	33	19	20	40-131
SAMPLE NO.	Aldrin	0.2	0	0.07	35	0.06	32	9	22	40-120
ET995	Dieldrin	0.5	0	0.31	63	0.26	52	19	18	52-126
	Endrin	0.5	0	0.34	68	0.29	57	16	21	56-121
	4,4'-DDT	0.5	0	0	0	0.09	18	200	27	38-127

* ASTERISKED VALUES ARE OUTSIDE QC LIMITS

RPD: VOAs 0 out of 5; outside QC limits
B/N 0 out of 6; outside QC limits
✓ACID 4 out of 5; outside QC limits
✓PEST 2 out of 6; outside QC limits

RECOVERY: VOAs 0 out of 10; outside QC limits
B/N 0 out of 12; outside QC limits
✓ACID 2 out of 10; outside QC limits
✓PEST 5 out of 12; outside QC limits

Comments:

FORM III

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WATER SURROGATE PERCENT RECOVERY SUMMARY
(Page 1)

DC# 7852-5-18

Case No. 7852 Contract Laboratory SPECTRIX Contract No. 68-01-7149

TTO

	VOLATILE			SEMI-VOLATILE									PEST
	Toluene-d8	BFB	1,2-Dichloroethane-d4	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14			Phenol-d5	2-Fluorophenyl	2,4,6-Tribromophenol	Dibutylchlorendate **
SMO TRAFFIC NO.	88 110	86 115	75 114	35 114	43 115	33 141			10 94	21 100	10 123	48 126
EM445	95	99	92	87	77	125			13	0*	92	100
ET1000	99	100	105	87	81	162*			75	76	62	98
ET982	98	101	86	87	79	92			27	47	85	24**
ET983	98	101	87	73	78	103			2*	99	91	37**
ET984	97	101	92	61	67	90			1*	36	90	24**
ET985	101	98	97	104	100	83			0*	1*	36	34**
ET986	100	99	96	92	91	79			29	17*	55	63
ET986MS	100	98	95	106	86	74			30	7*	84	NR
ET986MSD	100	98	97	107	100	88			76	70	98	NR
ET987	97	102	90	104	89	91			2*	0*	83	43**
ET988	97	102	88	92	77	53			7*	45	72	18*
ET989	100	101	100	107	58	80			0*	0*	78	54
ET990	96	100	88	83	71	63			0*	0*	76	38*
ET991	98	99	86	87	71	45			67	68	51	42*
ET992	101	96	96	95	88	167*			36	7*	88	104
ET993	96	101	84	97	88	74			29	54	73	31*
ET995	100	100	101	NR	NR	NR			NR	NR	NR	NR
ET996	101	99	102	74	77	155*			62	57	63	95
ET997	101	99	99	91	78	152*			80	75	95	106
ET998	100	101	100	85	74	140			55	55	56	104
ET999	100	101	99	83	68	124			75	72	100	102
MB1	100	101	97	66	71	89			73	69	69	90
MB2	100	101	91	75	77	133			54	25	43	100

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METHOD BLANK SUMMARY

TTO

Spectrix DC# 7852-5-8

Case No. 7852-7 Region 7 Contractor SPECTRIX Contract No. 68-01-7149

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL, TIC OR UNKNOWN)	CONC.	UNITS	CRDL
1 EB0817V01	8-17-87	VOA	WATER	LOW	4000	75-09-2	METHYLENE CHLORIDE	3	ug/L	5ug/L
EB08036C01	8-31-87	SV	WATER	LOW	4510	108-95-2	PHENOL	3	ug/L	10ug/L
↓	↓	↓	↓	↓	↓	24070-77-7	CYCLOPENTANOL, 2-METHYL	20J	ug/L	—
↓	↓	↓	↓	↓	↓	—	UNKNOWN	4J	ug/L	—
2 EB0819V01	8-19-87	VOA	WATER	LOW	4000	593-759	METHANE, ISOCYANO	6J	ug/L	—
EB08036C01B	9-1-87	SV	WATER	LOW	4510	—	NONE DETECTED	—	—	—
3 SB0818V01	8-18-87	VOA	WATER	LOW	51EF	67-64-1	ACETONE	7	ug/L	10ug/L
↓	↓	↓	↓	↓	↓	109-99-9	FURAN, TETRAHYDRO-	6J	ug/L	—
87080360 1A	9/14/87	PEST	WATER	LOW	6000	—	NONE DETECTED	—	—	—
87080360 1A #2	9/14/87	↓	↓	↓	6000	50-29-3	DDT	0.1	ug/L	0.10
87080360 1A #3	9/14/87	↓	↓	↓	6000	—	NONE DETECTED	—	—	—

Comments:

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FORM IV 7/86

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Spectrix DC# 7852-5-8-

Sample Number
INSTRUMENT
4009

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: SPECTRIX HOUSTON
Case No: 7852-5
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	1.9
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	.93
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 ≥ 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.

000521

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INST : 4530

Sample Number
INSTRUMENT DL

Laboratory Name SPECTRIX HOUSTON

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

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) 770

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
208-95-8	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

000522

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INST: 4530

Sample Number
GC/MS D.L.

Laboratory Name SPECTRIX HOUSTON

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

Organics Analysis Data Sheet
(Page 3)

Spectrix DC# 7852-5-8-

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_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 _____

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000523

Sample Number
5100 BL

Organics Analysis D:
(Page 1)

Spectrix DC# 7852-5-8-

Laboratory Name: SPECTRIX HOUSTON

Case No: 7852-5

Lab Sample ID No:

QC Report No: 243

Sample Matrix: WATER / SOIL

Contract No: 68-01-6798, 6865, 7018, 9149

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 ug/l and a concentration of 3 ug/l is calculated, report as 3J

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

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

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

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Laboratory Name SPECTRIX HOUSTON

Case No 68-01-7149

Sample Number 5100 DL

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Organics Analysis Data Sheet
(Page 2)

Spectrix DC# 7852-5-8-

Semivolatile Co...

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

TTD

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
95-48-7	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
78-59-1	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-Chloroethoxy)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, 6-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

000525

Laboratory Name SPECTRIX HOUSTON

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

Sample Number 5100 D.L.

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Organics Analysis Data Sheet
(Page 3)

Spectrix DC# 7852-5-8-1

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

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1 3 1987

Organics Analysis Data Sheet
(Page 1)

7852-5-8-I

Laboratory Name: SPECTRIX HOUSTON
Case No:
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	3.9

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 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥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.

000527

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INST ID: 3[illegible]00

Sample Number
GC D.L[illegible]

Laboratory Name SPECTRIX HOUSTON

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

Organics Analysis Data Sheet

(Page :

Spectrix DC# 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

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

TTO

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 _____

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GC 6000

Sample Number
GC D6.

Laboratory Name SPECTRIX HOUSTON

Case No 68-01-6798, 6865, 7013, 7139

Organics Analysis Data Sheet
(Page 3)

Spectrix DC# 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

TTO

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 _____

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Spectrix DC# 7852-5-8

Organics Analysis Data Sheet
(Page 1)

Sample Number
INSTRUMENT D.L

D.C. No. 50C

Laboratory Name: SPECTRIX HOUSTON

Case No: 7852-5

Lab Sample ID No:

QC Report No: 243

Sample Matrix:

Contract No: 68-01-6798, 6865, 7038, 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 ug/l and a recovered concentration of 2 ug/l is calculated, report as 2J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ ng/ml 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.

000530

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Laboratory Name SPECTRIX-HOUSTON

Case No 68-01-7149

Sample Number INST DL. 7510

Organics Analysis Data (Page 2)

Spectrix DC# 7852-5-8

Semivolatile Compounds

TIU

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
39638-32-9	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
87-85-5	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

000531

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Laboratory Name: SPECTRIX-HOUSTON

Case No: 6-86-01-7149

Sample Number: INST D.L.3510

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D.C. No.

Organics Analysis Data Sheet
(Page 3)

Spectrix DC# 7852-5-8-

Pesticide/P

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_i _____ V_t _____

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Case: 7852

Contractor: SPECTRIX

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: ZCK 10/6/87

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Spectrix DC# 7852-5-8-

Sample Number
EM445

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: SPECTRIX
Lab Sample ID No: 870903609
Sample Matrix: WATER
Data Release Authorized By:

Case No: 7852-5
QC Report No: 243
Contract No: 68-01-7149
Date Sample Received: 08/12/87

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/18/87
Date Analyzed: 08/18/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	6	J	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-35-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	108-10-1	4-Methyl-2-Pentanone	10	U
67-66-3	Chloroform	5	U	591-78-6	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
				1330-20-7	Total Xylenes	5	U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

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Spectrix DC# 7852-5-8

Laboratory Name: SPECTRIX
Case No: 7852

Sample Number
EM445

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/13/87
Date Analyzed: 08/31/87
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	13	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

Form I

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Lab Name: Spectrix
Case No: 7852
Lab No.:87-08-036-09A

DC No: 7852-S-8
SMO No: EM445

ORGANICS ANALYSIS DATA SHEET
(page 3)

Pesticide/PCBs

Conc: Low
Date Extracted: 08/13/87
Date Analyzed: 09/14/87
Dilution Factor: 1
Percent Moisture(decanted):

GPC Cleanup _Yes ✓No
Sep. Funnel Ext. _Yes
Cont. Liquid Ext. ✓Yes

CAS #	Compound	ug/L
319-84-6	ALPHA-BHC	0.05 U
319-85-7	BETA-BHC	0.05 U
319-86-8	DELTA-BHC	0.05 U
58-89-9	GAMMA-BHC (LINDANE)	0.05 U
76-44-8	HEPTACHLOR	0.05 U
309-00-2	ALDRIN	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	0.05 U
959-98-8	ENDOSULFAN I	0.05 U
60-57-1	DIELDRIN	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	ENDRIN	0.10 U
33213-65-9	ENDOSULFAN II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	ENDRIN ALDEHYDE	0.10 U
1031-07-8	ENDOSULFAN SULFATE	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	METHOXYCHLOR	0.50 U
53494-70-5	ENDRIN KETONE	0.10 U
57-74-9	CHLORDANE	0.50 U
8001-35-2	TOXAPHENE	1.00 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	0.50 U
12672-29-6	AROCLOR-1248	0.50 U
11097-69-1	AROCLOR-1254	1.00 U
11096-82-5	AROCLOR-1260	1.00 U

Vs = 500 = Volume of water extracted (ml)
Vt = 5000 = Volume of total extract (ul)
Vi = 1 = Volume of extract injected(ul)
1st Column Inst. : 6000
2nd Column Inst. : 5400

EY

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT,BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

Form 1

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INST ID: 51EF

Spectrix DC# 7852-5-8

RECEIVED OCT 13 1988

SAMPLE NUMBER: EM445 BLANK

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

QC REPORT NO.: 243 ANALYST: MB DATAFILE: EU0803609

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/

NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT. STD.

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

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INST ID: 4510

SPECTRIX DC # 7852-4 8

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SAMPLE: EM445

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION

CASE NO.: 7852

QC REPORT NO.: 243

ANALYST: CEB

DATAFILE: EU08036C09

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
119-61-9	BENZOPHENONE	1176	956	24 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	2015		10 J

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

ecology and environment

Spectrix DC# 7852-5-8-

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Sample Number
ET982

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: SPECTRIX
Lab Sample ID No: 870803610
Sample Matrix: WATER
Data Release Authorized By: TTO

Case No: 7852-5
QC Report No: 243
Contract No: 68-01-7149
Date Sample Received: ~~08/18/87~~ 8/12/87 TTO

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/18/87
Date Analyzed: 08/19/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloroproene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	6	J	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-35-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	108-10-1	4-Methyl-2-Pentanone	10	U
67-66-3	Chloroform	5	U	591-78-6	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
				1330-20-7	Total Xylenes	5	U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

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Spectrix DC# 7852-5-8

Laboratory Name: SPECTRIX
Case No: 7852

Sample Number
ET952

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/13/87
Date Analyzed: 08/31/87
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	10	U
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

Form I

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Lab Name: Spectrix
Case No: 7852
Lab No.:87-08-036-10A

DC No: 7852-5-9
SMO No: ET982

ORGANICS ANALYSIS DATA SHEET
(page 3)

Pesticide/PCBs

Conc: Low
Date Extracted: 08/13/87
Date Analyzed: 09/14/87
Dilution Factor: 1
Percent Moisture(decanted):

GPC Cleanup _Yes ✓No
Sep. Funnel Ext. _Yes
Cont. Liquid Ext. ✓Yes

CAS #	Compound	ug/L
319-84-6	ALPHA-BHC	0.05 U
319-85-7	BETA-BHC	0.05 U
319-86-8	DELTA-BHC	0.05 U
58-89-9	GAMMA-BHC (LINDANE)	0.05 U
76-44-8	HEPTACHLOR	0.05 U
309-00-2	ALDRIN	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	0.05 U
959-98-8	ENDOSULFAN I	0.05 U
60-57-1	DIELDRIN	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	ENDRIN	0.10 U
33213-65-9	ENDOSULFAN II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	ENDRIN ALDEHYDE	0.10 U
1031-07-8	ENDOSULFAN SULFATE	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	METHOXYCHLOR	0.50 U
53494-70-5	ENDRIN KETONE	0.10 U
57-74-9	CHLORDANE	0.50 U
8001-35-2	TOXAPHENE	1.00 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	0.50 U
12672-29-6	AROCLOR-1248	0.50 U
11097-69-1	AROCLOR-1254	1.00 U
11096-82-5	AROCLOR-1260	1.00 U

Vs = 500 = Volume of water extracted (ml)
Vt = 5000 = Volume of total extract (ul)
Vi = 1 = Volume of extract injected(ul)
1st Column Inst. : 6000
2nd Column Inst. : 3400

EY

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT,BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

Form 1

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INST ID: 51EF

Spectrix DC# 7852-5-8-

RECEIVED OCT 13 1987

SAMPLE NUMBER: ET982

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

QC REPORT NO.: 243 ANALYST: MB DATAFILE: EU08036V10

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG

NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT. STD.

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

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INST ID: 4510

SPECTRIX DC # 7852-5- 8

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SAMPLE: ET982

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION

CASE NO.: 7852

QC REPORT NO.: 243

ANALYST: CEB

DATAFILE: EU08036C10

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
105-60-2	CAPROLACTAM	892	913	380 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1609		24 J

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

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Spectrix DC# 7852-5-8-

Sample Number
ET983

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX
Lab Sample ID No: 870803611
Sample Matrix: WATER
Data Release Authorized By: TTO

Case No: 7852-5
QC Report No: 243
Contract No: 68-01-7149
Date Sample Received: ~~08/13/87~~ 8/18/87 TTO

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/19/87
Date Analyzed: 08/19/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	~~5~~	~~U~~	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	7	J	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-35-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	108-10-1	4-Methyl-2-Pentanone	10	U
67-66-3	Chloroform	5	U	591-78-6	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
				1330-20-7	Total Xylenes	5	U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

recycled paper

Spectrix DC# 7852-5-8-

RECEIVED OCT 13 1987

Laboratory Name: SPECTRIX
Case No: 7852

Sample Number
ET983

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/13/87
Date Analyzed: 08/31/87
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	2	J
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	22	
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

Form I

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Lab Name: Spectrix
Case No: 7852
Lab No.:87-08-036-11A

DC No: 7852-5-8
SMO No: ET983

ORGANICS ANALYSIS DATA SHEET
(page 3)

Pesticide/PCBs

Conc: Low
Date Extracted: 08/13/87
Date Analyzed: 09/14/87
Dilution Factor: 1
Percent Moisture(decanted):

GPC Cleanup _Yes ✓No
Sep. Funnel Ext. _Yes
Cont. Liquid Ext. ✓Yes

CAS #	Compound	ug/L
319-84-6	ALPHA-BHC	0.05 U
319-85-7	BETA-BHC	0.05 U
319-86-8	DELTA-BHC	0.05 U
58-89-9	GAMMA-BHC (LINDANE)	0.05 U
76-44-8	HEPTACHLOR	0.05 U
309-00-2	ALDRIN	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	0.05 U
959-98-8	ENDOSULFAN I	0.05 U
60-57-1	DIELDRIN	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	ENDRIN	0.10 U
33213-65-9	ENDOSULFAN II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	ENDRIN ALDEHYDE	0.10 U
1031-07-8	ENDOSULFAN SULFATE	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	METHOXYCHLOR	0.50 U
53494-70-5	ENDRIN KETONE	0.10 U
57-74-9	CHLORDANE	0.50 U
8001-35-2	TOXAPHENE	1.00 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	0.50 U
12672-29-6	AROCLOR-1248	0.50 U
11097-69-1	AROCLOR-1254	1.00 U
11096-82-5	AROCLOR-1260	1.00 U

Vs = 500 = Volume of water extracted (ml)
Vt = 5000 = Volume of total extract (ul)
Vi = 1 = Volume of extract injected(ul)
1st Column Inst. : 6000
2nd Column Inst. : 3400

24

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT,BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

Form 1

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ecology and environment

INST ID: 51EF

Spectrix DC# 7852-5-8-

RECEIVED OCT 13 '88

SAMPLE NUMBER: ET983

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

QC REPORT NO.: 243 ANALYST: MB DATAFILE: EU08036V11

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG
67-63-0	2-PROPANOL (ACN)	122	923	7

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

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ecology and environment

INST ID: 4510

SPECTRIX DC # 7832-5- 8

RECEIVED OCT 13 1987

SAMPLE: ET983

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION

CASE NO.: 7832

GC REPORT NO.: 243 ANALYST: CEB DATAFILE: EU08036C11

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	322		6 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	727		8 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	872		4 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	878		4 J
105-60-2	CAPROLACTAM	930	923	610 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1627		96 J
4337-65-9	HEXANEDIOIC ACID, MONO(2-ETHYLHEXYL)ESTER	1680	858	380 J
27554-26-3	1,2-BENZENEDICARBOXYLIC ACID, DIISOOCTYL	1754	822	6 J
27554-26-3	1,2-BENZENEDICARBOXYLIC ACID, DIISOOCTYL	1781	839	11 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1797		8 J
27554-26-3	1,2-BENZENEDICARBOXYLIC ACID, DIISOOCTYL	1814	804	16 J
27554-26-3	1,2-BENZENEDICARBOXYLIC ACID, DIISOOCTYL	1824	821	34 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1831		11 J

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

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Spectrix DC# 7852-5-8

Sample Number
57984

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: SPECTRIX
Lab Sample ID No: 870803612
Sample Matrix: WATER
Data Release Authorized By: TTD

Case No: 7852-5
QC Report No: 243
Contract No: 68-01-7149
Date Sample Received: ~~08/13/87~~ 8/12/87 TTD

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/18/87
Date Analyzed: 08/18/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	~~B~~ U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-35-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	108-10-1	4-Methyl-2-Pentanone	10	U
67-66-3	Chloroform	5	U	591-78-6	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
				1330-20-7	Total Xylenes	5	U

UJ-26K

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

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Spectrix DC# 7852-5-8

Laboratory Name: SPECTRIX
Case No: 7852

| Sample Number
| ET994

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/13/87
Date Analyzed: 08/31/87
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	77	
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

Form I

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RECEIVED OCT 13 1987

Lab Name: Spectrix
Case No: 7852
Lab No.:87-08-036-12A

DC No: 7852-5-8
SMO No: ET984

ORGANICS ANALYSIS DATA SHEET
(page 3)

Pesticide/PCBs

Conc: Low
Date Extracted: 08/13/87
Date Analyzed: 09/14/87
Dilution Factor: 1
Percent Moisture(decanted):

GPC Cleanup _Yes ✓No
Sep. Funnel Ext. _Yes
Cont. Liquid Ext. ✓Yes

CAS #	Compound	ug/L
319-84-6	ALPHA-BHC	0.05 U
319-85-7	BETA-BHC	0.05 U
319-86-8	DELTA-BHC	0.05 U
58-89-9	GAMMA-BHC (LINDANE)	0.05 U
76-44-8	HEPTACHLOR	0.05 U
309-00-2	ALDRIN	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	0.05 U
959-98-8	ENDOSULFAN I	0.05 U
60-57-1	DIELDRIN	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	ENDRIN	0.10 U
33213-65-9	ENDOSULFAN II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	ENDRIN ALDEHYDE	0.10 U
1031-07-8	ENDOSULFAN SULFATE	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	METHOXYCHLOR	0.50 U
53494-70-5	ENDRIN KETONE	0.10 U
57-74-9	CHLORDANE	0.50 U
8001-35-2	TOXAPHENE	1.00 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	0.50 U
12672-29-6	AROCLOR-1248	0.50 U
11097-69-1	AROCLOR-1254	1.00 U
11096-82-5	AROCLOR-1260	1.00 U

Vs = 500 = Volume of water extracted (ml)
Vt = 5000 = Volume of total extract (ul)
Vi = 1 = Volume of extract injected(ul)
1st Column Inst. : 5000
2nd Column Inst. : 3400

EY

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT,BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

Form 1

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ecology and environment

INST ID: 51EF

Spectrix DC# 7852-5-8

RECEIVED OCT 13 1987

SAMPLE NUMBER: ET984

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

QC REPORT NO.: 243 ANALYST: MB DATAFILE: EU08036V12

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG

NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT. STD.

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

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INST ID: 4510

Spectrix DC# 7852-5-8

SAMPLE: ET984

RECEIVED OCT 13

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

QC REPORT NO.: 243 ANALYST: CEB DATAFILE: EU08036C12

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
693-90-3	ISOTHIAZOLE, 4-METHYL-	687	776	4 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	868		5 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	875		5 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	889		5 J
105-60-2	CAPROLACTAM	914	917	430 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1232		5 J
10544-50-0	SULFUR, MOL. (S8)	1464	872	33 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1620		77 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1655		5 J

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

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RECEIVED OCT 13 1987

Spectrix DC# 7852-5-8-

Sample Number
ET985

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: SPECTRIX
Lab Sample ID No: 870803606
Sample Matrix: WATER
Data Release Authorized By:

Case No: 7852-5
QC Report No: 243
Contract No: 68-01-7149
Date Sample Received: 08/11/87

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/17/87
Date Analyzed: 08/17/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloroproene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-35-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	71		108-10-1	4-Methyl-2-Pentanone	10	U
67-66-3	Chloroform	5	U	591-78-6	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
				1330-20-7	Total Xylenes	5	U

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

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ecology and environment

Spectrix DC# 7852-5-8.

RECEIVED

Laboratory Name: SPECTRIX
Case No: 7852

Sample Number
ET985

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/12/87
Date Analyzed: 08/31/87
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	11	
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

Form I

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RECEIVED 10/13/87

Lab Name: Spectrix
Case No: 7852
Lab No.:87-08-036-06A

DC No: 7852-5-8
SMO No: ET985

ORGANICS ANALYSIS DATA SHEET
(page 3)

Pesticide/PCBs

Conc: Low
Date Extracted: 08/12/87
Date Analyzed: 09/14/87
Dilution Factor: 1
Percent Moisture(decanted):

GPC Cleanup _Yes ✓No
Sep. Funnel Ext. _Yes
Cont. Liquid Ext. ✓Yes

CAS #	Compound	ug/L
319-84-6	ALPHA-BHC	0.05 U
319-85-7	BETA-BHC	0.05 U
319-86-8	DELTA-BHC	0.05 U
58-89-9	GAMMA-BHC (LINDANE)	0.05 U
76-44-8	HEPTACHLOR	0.05 U
309-00-2	ALDRIN	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	0.05 U
959-98-6	ENDOSULFAN I	0.05 U
60-57-1	DIELDRIN	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	ENDRIN	0.10 U
33213-65-9	ENDOSULFAN II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	ENDRIN ALDEHYDE	0.10 U
1031-07-8	ENDOSULFAN SULFATE	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	METHOXYCHLOR	0.50 U
53494-70-5	ENDRIN KETONE	0.10 U
57-74-9	CHLORDANE	0.50 U
8001-35-2	TOXAPHENE	1.00 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	0.50 U
12672-29-6	AROCLOR-1248	0.50 U
11097-69-1	AROCLOR-1254	1.00 U
11096-82-5	AROCLOR-1260	1.00 U

Vs = 500 = Volume of water extracted (ml)
Vt = 5000 = Volume of total extract (ul)
Vi = 1 = Volume of extract injected(ul)
1st Column Inst. : 6000
2nd Column Inst. : 3400

EY

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT,BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

Form 1

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ecology and environment

INST ID: 4000

Spectrix DC# 7852-5-8

RECEIVED OCT 13 1987

SAMPLE NUMBER: ET985

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

QC REPORT NO.: 243 ANALYST: NOT DATAFILE: EU08036V06

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L

NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT. STD.

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

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SAMPLE: ET985

Spectrix DC# 7852-5-8-

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

GC REPORT NO.: 243 ANALYST: CEB DATAFILE: EU08036C06

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1297		4 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1619		57 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1324		9 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	2012		9 J
105-60-2	CAPROLACTAM	914	760	1400 J
6920-22-5	1,2-HEXANEDIOL	545	831	13 J

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

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Spectrix DC# 7852-5-8

Sample Number
ET986

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: SPECTRIX
Lab Sample ID No: 870803607
Sample Matrix: WATER
Data Release Authorized By:

Case No: 7852-5
QC Report No: 243
Contract No: 68-01-7149
Date Sample Received: 08/11/87

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/17/87
Date Analyzed: 08/17/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	3	J	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-35-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	108-10-1	4-Methyl-2-Pentanone	10	U
67-66-3	Chloroform	5	U	591-78-6	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
				1330-20-7	Total Xylenes	5	U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

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Spectrix DC# 7852-5-8-

Laboratory Name: SPECTRIX
Case No: 7852

Sample Number
ST986

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/12/87
Date Analyzed: 08/31/87
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	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

Form I

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Lab Name: Spectrix
Case No: 7852
Lab No.:87-08-036-07A

DC No: 7852-5-8
SMD No: ET986

ORGANICS ANALYSIS DATA SHEET
(page 3)

Pesticide/PCBs

Conc: Low
Date Extracted: 08/12/87
Date Analyzed: 09/14/87
Dilution Factor: 1
Percent Moisture(decanted):

GPC Cleanup _Yes ✓No
Sep. Funnel Ext. _Yes
Cont. Liquid Ext. ✓_Yes

CAS #	Compound	ug/L
319-84-6	ALPHA-BHC	0.05 U
319-85-7	BETA-BHC	0.05 U
319-86-8	DELTA-BHC	0.05 U
58-89-9	GAMMA-BHC (LINDANE)	0.05 U
76-44-8	HEPTACHLOR	0.05 U
309-00-2	ALDRIN	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	0.05 U
959-98-8	ENDOSULFAN I	0.05 U
60-57-1	DIELDRIN	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	ENDRIN	0.10 U
33213-65-9	ENDOSULFAN II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	ENDRIN ALDEHYDE	0.10 U
1031-07-8	ENDOSULFAN SULFATE	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	METHOXYCHLOR	0.50 U
53494-70-5	ENDRIN KETONE	0.10 U
57-74-9	CHLORDANE	0.50 U
8001-35-2	TOXAPHENE	1.00 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	0.50 U
12672-29-6	AROCLOR-1248	0.50 U
11097-69-1	AROCLOR-1254	1.00 U
11096-82-5	AROCLOR-1260	1.00 U

Vs = 500 = Volume of water extracted (ml)
Vt = 5000 = Volume of total extract (ul)
Vi = 1 = Volume of extract injected(ul)
1st Column Inst. : 6000
2nd Column Inst. : 3400

EY

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT,BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

Form 1

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RECEIVED OCT 13 1987

INST ID: 4000

Spectrix DC# 7852-5-8-

SAMPLE NUMBER: ET 986

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION

CASE NO.: 7852

GC REPORT NO.: 243

ANALYST: RCJ

DATAFILE: EU08036V07

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
	NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT. STD.			

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

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INST ID: 4510

Spectrix DC# 7852-5-8

RECEIVED OCT 13 1987

SAMPLE: ET986

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

GC REPORT NO.: 243 ANALYST: CEB DATAFILE: EU08036C07

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
823-69-8	BICYCLO[4.1.0]HEPTANE, 7,7-DICHLORO-	716	800	33 J
105-60-2	CAPROLACTAM	850	920	9 J
120-40-1	DODECANAMIDE, N,N-BIS(2-HYDROXYETHYL)-	1126	791	9 J
544-76-3	HEXADECANE	1153	844	7 J
629-78-7	HEPTADECANE	1229	870	10 J
1921-70-6	PENTADECANE, 2,6,10,14-TETRAMETHYL-	1234	850	4 J
74764-11-7	IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYLME	1302	848	9 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1324		11 J
74764-11-7	IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYLME	1371	850	8 J
74764-11-7	IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYLME	1437	852	4 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1600		82 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1613		9 J
85-60-9	PHENOL, 4,4'-BUTYLIDENEBIS[2-(1,1-DIMETHY	1854	894	7 J

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

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Spectrix DC# 7852-5-8-

Sample Number
ET987

RECEIVED OCT 12 1987

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: SPECTRIX
Lab Sample ID No: 870803613
Sample Matrix: WATER
Data Release Authorized By: 110

Case No: 7852-5
QC Report No: 243
Contract No: 68-01-7149
Date Sample Received: ~~09/19/87~~ 8/10/87 110

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 09/19/87
Date Analyzed: 08/18/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	9	J	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
7[illegible]-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
1[illegible]-60-5	Trans-1,2-Dichloroethene	5	U	108-10-1	4-Methyl-2-Pentanone	10	U
67-66-3	Chloroform	5	U	591-78-6	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
[illegible]-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
[illegible]08-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
				1330-20-7	Total Xylenes	5	U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

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Spectrix DC# 7852-5-8-

RECEIVED OCT 13 1987

Laboratory Name: SPECTRIX
Case No: 7852

Sample Number
ET987

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/13/87
Date Analyzed: 09/01/87
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	100-01-6	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
9[illegible]-3	Nitrobenzene	10	U	101-55-3	4-Bromophenyl-phenylether	10	U
7[illegible]-9-1	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	8	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

Form I

000189

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ecology and environment

Lab Name: Spectrix
Case No: 7852
Lab No.:87-08-036-13A

DC No: 7852-5-8
SMO No: ET987

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ORGANICS ANALYSIS DATA SHEET
(page 3)

Pesticide/PCBs

Conc: Low
Date Extracted: 08/13/87
Date Analyzed: 09/14/87
Dilution Factor: 1
Percent Moisture(decanted):

GPC Cleanup _Yes ✓No
Sep. Funnel Ext. _Yes
Cont. Liquid Ext. ✓Yes

CAS #	Compound	ug/L
319-84-6	ALPHA-BHC	0.05 U
319-85-7	BETA-BHC	0.05 U
319-86-8	DELTA-BHC	0.05 U
58-89-9	GAMMA-BHC (LINDANE)	0.05 U
76-44-8	HEPTACHLOR	0.05 U
309-00-2	ALDRIN	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	0.05 U
959-98-8	ENDOSULFAN I	0.05 U
60-57-1	DIELDRIN	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	ENDRIN	0.10 U
33213-65-9	ENDOSULFAN II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	ENDRIN ALDEHYDE	0.10 U
1031-07-8	ENDOSULFAN SULFATE	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	METHOXYCHLOR	0.50 U
53494-70-5	ENDRIN KETONE	0.10 U
57-74-9	CHLORDANE	0.50 U
8001-35-2	TOXAPHENE	1.00 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	0.50 U
12672-29-6	AROCLOR-1248	0.50 U
11097-69-1	AROCLOR-1254	1.00 U
11096-82-5	AROCLOR-1260	1.00 U

Vs = 500 = Volume of water extracted (ml)
Vt = 5000 = Volume of total extract (ul)
Vi = 1 = Volume of extract injected(ul)
1st Column Inst. : 5000
2nd Column Inst. : ~~5400~~

EY

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT,BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

Form 1

recycled paper

ecology and environment

INST ID: 51EF

Spectrix DC# 7852-5-8

SAMPLE NUMBER: ET987

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ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

QC REPORT NO.: 243 ANALYST: MB DATAFILE: EU08036V13

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
67-63-0	2-PROPANOL (ACN)	125	943	11 J

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

000191

INST ID: 4510 SPECTRIX DC # 7852-3- 8

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SAMPLE: ET987

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

QC REPORT NO.: 243 ANALYST: CEB DATAFILE: EU08036C13

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT UG/L
105-60-2	CAPROLACTAM	941	919	1500 J
629-74-3	1-HEXADECYNE	1279	867	5 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1476		16 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1631		76 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1797		9 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	2195		10 J

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

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

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Spectrix DC# 7852-5-8-

RECEIVED OCT 13 1987

Sample Number
ET988

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: SPECTRIX
Lab Sample ID No: 870803614
Sample Matrix: WATER
Data Release Authorized By: [illegible]

Case No: 7852-5
QC Report No: 243
Contract No: 68-01-7149
Date Sample Received: ~~08/13/87~~ 8/12/87

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/18/87
Date Analyzed: 08/18/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	7	J	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
7[illegible]-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
1[illegible].0-5	Trans-1,2-Dichloroethene	5	U	108-10-1	4-Methyl-2-Pentanone	10	U
67-66-3	Chloroform	5	U	591-78-6	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
[illegible]23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
[illegible]-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
				1330-20-7	Total Xylenes	5	U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

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Spectrix DC# 7852-5-8-

L ratory Name: SPECTRIX
Ca. No: 7852

Sample Number
ET968

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/13/87
Date Analyzed: 09/01/87
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
[illegible]-44-4	bis(2-Chloroethyl)Ether .	10	U
[illegible]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
77[illegible]-1	Isophorone	10	U
8[illegible]-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
[illegible]20-3	Naphthalene	10	U
[illegible]-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 . . .	35	
91-94-1	3,3'-Dichlorobenzidine . .	20	U
56-55-3	Benzo(a)Anthracene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	83	
218-01-9	Chrysene	10	U
117-84-0	Di-n-Octyl Phthalate . . .	9 J	
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

Form I

000216

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Lab Name: Spectrix
Case No: 7852
Lab No.:87-08-036-14A

DC No: 7852-5-8
SMO No: ET988

ORGANICS ANALYSIS DATA SHEET
(page 3)

Pesticide/PCBs

Conc: Low
Date Extracted: 08/13/87
Date Analyzed: 09/14/87
Dilution Factor: 1
Percent Moisture(decanted):

GPC Cleanup _Yes ✓No
Sep. Funnel Ext. _Yes
Cont. Liquid Ext. ✓Yes

CAS #	Compound	ug/L
319-84-6	ALPHA-BHC	0.05 U
319-85-7	BETA-BHC	0.05 U
319-86-8	DELTA-BHC	0.05 U
58-89-9	GAMMA-BHC (LINDANE)	0.05 U
76-44-8	HEPTACHLOR	0.05 U
309-00-2	ALDRIN	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	0.05 U
959-98-8	ENDOSULFAN I	0.05 U
60-57-1	DIELDRIN	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	ENDRIN	0.10 U
33213-65-9	ENDOSULFAN II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	ENDRIN ALDEHYDE	0.10 U
1031-07-8	ENDOSULFAN SULFATE	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	METHOXYCHLOR	0.50 U
53494-70-5	ENDRIN KETONE	0.10 U
57-74-9	CHLORDANE	0.50 U
8001-35-2	TOXAPHENE	1.00 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	0.50 U
12672-29-6	AROCLOR-1248	0.50 U
11097-69-1	AROCLOR-1254	1.00 U
11096-82-5	AROCLOR-1260	1.00 U

Vs = 500 = Volume of water extracted (ml)
Vt = 5000 = Volume of total extract (ul)
Vi = 1 = Volume of extract injected(ul)
1st Column Inst. : 6000
2nd Column Inst. : 3400

EY

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT,BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

Form 1

000217

INST ID: 51EF

Spectrix DC# 7852-5-8

RECEIVED OCT 13 1987

SAMPLE NUMBER: ET988

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

QC REPORT NO.: 243 ANALYST: MB DATAFILE: EU08036V14

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
67-63-0	2-PROPANOL (ACN)	124	884	6 J

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

000218

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INST ID: 4510

SPECTRIX DC #7852-5- 8

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SAMPLE: ET988

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION

CASE NO.: 7852

QC REPORT NO.:. 243

ANALYST: CEB

DATAFILE: EU08036C14

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1680		8 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1672		11 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1726		8 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	866		5 J
105-60-2	CAPROLACTAM	913	917	2200 J
2051-49-2	HEXANOIC ACID, ANHYDRIDE	696	756	4 J
-50-9	1,2-BENZENEDICARBOXYLIC ACID, BIS(4-METHY	1630	956	23 J
146-50-9	1,2-BENZENEDICARBOXYLIC ACID, BIS(4-METHY	1626	961	16 J
146-50-9	1,2-BENZENEDICARBOXYLIC ACID, BIS(4-METHY	1614	854	55 J
146-50-9	1,2-BENZENEDICARBOXYLIC ACID, BIS(4-METHY	1607	934	27 J
146-50-9	1,2-BENZENEDICARBOXYLIC ACID, BIS(4-METHY	1595	927	13 J
146-50-9	1,2-BENZENEDICARBOXYLIC ACID, BIS(4-METHY	1591	939	8 J
3648-21-3	1,2-BENZENEDICARBOXYLIC ACID, DIHEPTYL ES	1766	932	12 J
3648-21-3	1,2-BENZENEDICARBOXYLIC ACID, DIHEPTYL ES	2025	871	22 J
28553-12-0	1,2-BENZENEDICARBOXYLIC ACID, DIISONONYL	1968	794	9 J
28553-12-0	1,2-BENZENEDICARBOXYLIC ACID, DIISONONYL	2184	797	11 J

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

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Spectrix DC# 7852-5-8-

RECEIVED OCT 13 198

Sample Number
ET989

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: SPECTRIX
Lab Sample ID No: 870803618
Sample Matrix: WATER
Data Release Authorized By:

Case No: 7852-5
QC Report No: 243
Contract No: 68-01-7149
Date Sample Received: 08/13/87

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/19/87
Date Analyzed: 08/19/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	7	
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
[illegible]-60-5	Trans-1,2-Dichloroethene	5	U	108-10-1	4-Methyl-2-Pentanone	10	U
67-66-3	Chloroform	5	U	591-78-6	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
[illegible]-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
				1330-20-7	Total Xylenes	5	U

U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

000257

Spectrix DC# 7852-5-8-

RECEIVED OCT 13 1987

Laboratory Name: SPECTRIX
Case No: 7852

Sample Number
ET989

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 09/11/87
Date Analyzed: 09/01/87
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	
[illegible]-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
[illegible]-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
[illegible]0-83-2	2,4-Dichlorophenol	10	U
[illegible]0-82-1	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
100-01-6	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	[illegible]	U
56-55-3	Benzo(a)Anthracene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	24	
218-01-9	Chrysene	10	U
117-84-0	Di-n-Octyl Phthalate	3	J
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

Form I

000258

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ecology and environment

Lab Name: Spectrix
Case No: 7852
Lab No.: 87-08-036-18A

DC No: 7852-5-8
SMO No: ET989

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ORGANICS ANALYSIS DATA SHEET
(page 3)

Pesticide/PCBs

Conc: Low
Date Extracted: 08/13/87
Date Analyzed: 09/15/87
Dilution Factor: 1
Percent Moisture(decanted):

GPC Cleanup _Yes ✓No
Sep. Funnel Ext. _Yes
Cont. Liquid Ext. ✓Yes

CAS #	Compound	ug/L
319-84-6	ALPHA-BHC	0.05 U
319-85-7	BETA-BHC	0.05 U
319-86-8	DELTA-BHC	0.05 U
58-89-9	GAMMA-BHC (LINDANE)	0.05 U
76-44-8	HEPTACHLOR	0.05 U
309-00-2	ALDRIN	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	0.05 U
959-98-8	ENDOSULFAN I	0.05 U
60-57-1	DIELDRIN	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	ENDRIN	0.10 U
33213-65-9	ENDOSULFAN II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	ENDRIN ALDEHYDE	0.10 U
1031-07-8	ENDOSULFAN SULFATE	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	METHOXYCHLOR	0.50 U
53494-70-5	ENDRIN KETONE	0.10 U
57-74-9	CHLORDANE	0.50 U
8001-35-2	TOXAPHENE	1.00 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	0.50 U
12672-29-6	AROCLOR-1248	0.50 U
11097-69-1	AROCLOR-1254	1.00 U
11096-82-5	AROCLOR-1260	1.00 U

Vs = 500 = Volume of water extracted (ml)
Vt = 5000 = Volume of total extract (ul)
Vi = 1 = Volume of extract injected(ul)
1st Column Inst. : 6000
2nd Column Inst. : 3400

EY

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT,BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

Form 1

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ecology and environment

INST ID: 4000

Spectrix DC# 7852-5-8-

RECEIVED OCT 13 1987

SAMPLE NUMBER: ET 989

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7779

QC REPORT NO.: 243 ANALYST: RCJ DATAFILE: EU08036V18

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L

NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT. STD.

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

000260

SAMPLE: ET989

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ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

GC REPORT NO.: 243 ANALYST: CEB DATAFILE: EU08036C18

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT ug/L	
05-60-2	CAPROLACTAM	1033	863	2500	J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1243		23	J
46-50-9	1,2-BENZENEDICARBOXYLIC ACID, BIS(4-METHY	1626	962	23	J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1641		78	J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1842		31	J

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

SPECTRIX DC# 7852-5-6

000261

Spectrix DC# 7852-5-8

RECEIVED OCT 13 1987

Sample Number
ET990

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: SPECTRIX
Lab Sample ID No: 870803615
Sample Matrix: WATER
Data Release Authorized By: TTO

Case No: 7852-5
QC Report No: 243
Contract No: 68-01-7149
Date Sample Received: ~~08/13/87~~ 8/18/87 TTO

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/18/87
Date Analyzed: 08/18/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	7		71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75[illegible]-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
1[illegible]-5	Trans-1,2-Dichloroethene	5	U	108-10-1	4-Methyl-2-Pentanone	10	U
67-66-3	Chloroform	5	U	591-78-6	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
[illegible]-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
[illegible]8-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
				1330-20-7	Total Xylenes	5	U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

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rec'd 10/29/87

Spectrix DC# 7852-5-8-

Laboratory Name: SPECTRIX
Case No: 7852

Sample Number
ET990

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/13/87
Date Analyzed: 09/01/87
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
[illegible]-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
[illegible]-91-1	bis(2-Chloroethoxy)Methane	10	U	84-74-2	Di-n-Butylphthalate	10	U
[illegible]-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	17	
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

Form I

Lab Name: Spectrix
Case No: 7852
Lab No.:87-08-036-15A

DC No: 7852-5-8
SMO No: ET990

RECEIVED OCT 13 1987

ORGANICS ANALYSIS DATA SHEET
(page 3)

Pesticide/PCBs

Conc: Low
Date Extracted: 08/13/87
Date Analyzed: 09/14/87
Dilution Factor: 1
Percent Moisture(decanted):

GPC Cleanup _Yes ✓No
Sep. Funnel Ext. _Yes
Cont. Liquid Ext. ✓Yes

CAS #	Compound	ug/L
319-84-6	ALPHA-BHC	0.05 U
319-85-7	BETA-BHC	0.05 U
319-86-8	DELTA-BHC	0.05 U
58-89-9	GAMMA-BHC (LINDANE)	0.05 U
76-44-8	HEPTACHLOR	0.05 U
309-00-2	ALDRIN	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	0.05 U
959-98-8	ENDOSULFAN I	0.05 U
60-57-1	DIELDRIN	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	ENDRIN	0.10 U
33213-65-9	ENDOSULFAN II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	ENDRIN ALDEHYDE	0.10 U
1031-07-8	ENDOSULFAN SULFATE	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	METHOXYCHLOR	0.50 U
53494-70-5	ENDRIN KETONE	0.10 U
57-74-9	CHLORDANE	0.50 U
8001-35-2	TOXAPHENE	1.00 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	0.50 U
12672-29-6	AROCLOR-1248	0.50 U
11097-69-1	AROCLOR-1254	1.00 U
11096-82-5	AROCLOR-1260	1.00 U

Vs = 500 = Volume of water extracted (ml)
Vt = 5000 = Volume of total extract (ul)
Vi = 1 = Volume of extract injected(ul)
1st Column Inst. : 6000
2nd Column Inst. : 3400

EY

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT,BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

Form 1

000289

INST ID: 51EF

Spectrix DC# 7852-5-8

RECEIVED OCT 13 1987

SAMPLE NUMBER: ET990

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

QC REPORT NO.: 243 ANALYST: MB DATAFILE: EU08036V15

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L

NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT. STD.

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

000290

INST ID: 4510 SPECTRIX DC # 7852-5- B

RECEIVED OCT 13 1987

SAMPLE: ET990

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

QC REPORT NO.: 243 ANALYST: CEB DATAFILE: EU08036C15

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	2187		5 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	736		8 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1635		29 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	2287		10 J
105-60-2	CAPROLACTAM	934	864	3900 J
85-60-9	PHENOL, 4,4'-BUTYLIDENEBIS[2-(1,1-DIMETHY	1864	903	8 J

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

000291

Spectrix DC# 7852-5-8

Sample Number
ET991

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: SPECTRIX
Lab Sample ID No: 870803616
Sample Matrix: WATER
Data Release Authorized By: TP

Case No: 7852-5
QC Report No: 243
Contract No: 68-01-7149
Date Sample Received: ~~08/13/87~~ 8/12/87 TP

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/18/87
Date Analyzed: 08/18/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	5	J	71-43-2	Benzene	8	
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	108-10-1	4-Methyl-2-Pentanone	10	U
67-66-3	Chloroform	5	U	591-78-6	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
				1330-20-7	Total Xylenes	5	U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

000313

Spectrix DC# 7852-5-8-

RECEIVED OCT 13 1987

Laboratory Name: SPECTRIX
Case No: 7852

Sample Number: ET991

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/13/87
Date Analyzed: 09/01/87
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
100-01-6	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	13	
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

Form 1

000314

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Lab Name: Spectrix
Case No: 7852
Lab No.:87-08-036-16A

DC No: 7852-5-8
SMO No: ET991

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ORGANICS ANALYSIS DATA SHEET
(page 3)

Pesticide/PCBs

Conc: Low
Date Extracted: 08/13/87
Date Analyzed: 09/14/87
Dilution Factor: 1
Percent Moisture(decanted):

GPC Cleanup _Yes ✓No
Sep. Funnel Ext. _Yes
Cont. Liquid Ext. ✓_Yes

CAS #	Compound	ug/L
319-84-6	ALPHA-BHC	0.05 U
319-85-7	BETA-BHC	0.05 U
319-86-8	DELTA-BHC	0.05 U
58-89-9	GAMMA-BHC (LINDANE)	0.05 U
76-44-8	HEPTACHLOR	0.05 U
309-00-2	ALDRIN	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	0.05 U
959-98-8	ENDOSULFAN I	0.05 U
60-57-1	DIELDRIN	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	ENDRIN	0.10 U
33213-65-9	ENDOSULFAN II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	ENDRIN ALDEHYDE	0.10 U
1031-07-8	ENDOSULFAN SULFATE	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	METHOXYCHLOR	0.50 U
53494-70-5	ENDRIN KETONE	0.10 U
57-74-9	CHLORDANE	0.50 U
8001-35-2	TOXAPHENE	1.00 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	0.50 U
12672-29-6	AROCLOR-1248	0.50 U
11097-69-1	AROCLOR-1254	1.00 U
11096-82-5	AROCLOR-1260	1.00 U

Vs = 500 = Volume of water extracted (ml)
Vt = 5000 = Volume of total extract (ul)
Vi = 1 = Volume of extract injected(ul)
1st Column Inst. : 5000
2nd Column Inst. : 5400

EY

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT,BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

Form 1

000315

INST ID: 51EF

Spectrix DC# 7852-5-8

RECEIVED 13

SAMPLE NUMBER: ET991

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

GC REPORT NO.: 243 ANALYST: MB DATAFILE: EU08036V16

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
	NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT. STD.			

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

000316

INST ID: 4510

Spectrix DC# 7852-5-8

SAMPLE: ET991

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ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

QC REPORT NO.: 243 ANALYST: CEB DATAFILE: EU08036C16

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
110-82-7	CYCLOHEXANE(DOT	207	785	13 J
105-60-2	CAPROLACTAM	869	902	60 J
17301-32-5	UNDECANE, 4,7-DIMETHYL-	1073	845	5 J
143-07-7	DODECANOIC ACID	1129	759	9 J
544-76-3	HEXADECANE	1153	858	20 J
17301-22-3	UNDECANE, 2,5-DIMETHYL-	1191	824	13 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1224		8 J
629-78-7	HEPTADECANE	1230	789	36 J
1921-70-6	PENTADECANE, 2,6,10,14-TETRAMETHYL-	1235	853	14 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1276		16 J
14764-11-7	IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYLME	1303	847	42 J
74764-11-7	IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYLME	1309	819	14 J
74764-11-7	IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYLME	1332	806	11 J
74764-11-7	IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYLME	1367	813	12 J
74764-11-7	IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYLME	1372	853	34 J
74764-11-7	IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYLME	1438	877	20 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1486		11 J
74764-11-7	IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYLME	1501	836	7 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1526		17 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1632	000317	400 J
85-60-9	PHENOL, 4,4'-BUTYLIDENEBIS[2-(1,1-DIMETHY	1862	913	31 J

UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA 2049 18 J

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

Spectrix DC# 7852-5-8-RCRA - LHC004

000318

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Spectrix DC# 7852-5-8-

Sample Number
ET992

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: SPECTRIX
Lab Sample ID No: 870803608
Sample Matrix: WATER
Data Release Authorized By:

Case No: 7852-5
QC Report No: 243
Contract No: 68-01-7149
Date Sample Received: 08/11/87

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/17/87
Date Analyzed: 08/17/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	J	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
[illegible]0-5	Trans-1,2-Dichloroethene	5	U	108-10-1	4-Methyl-2-Pentanone	10	U
67-66-3	Chloroform	5	U	591-78-6	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
				1330-20-7	Total Xylenes	5	U

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

000358

Spectrix DC# 7852-5-8

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L atory Name: SPECTRIX
Case No: 7852

Sample Number
ET992

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/12/87
Date Analyzed: 08/31/87
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	
9-95-2	Phenol	10	U
1-44-4	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
7 -1	Isophorone	10	U
95- 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
0-83-2	2,4-Dichlorophenol	10	U
0-82-1	1,2,4-Trichlorobenzene	10	U
-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	31	
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

Form I

000359

Lab Name: Spectrix
Case No: 7852
Lab No.:87-08-036-08A

DC No: 7852-5-8
SMO No: ET992

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ORGANICS ANALYSIS DATA SHEET
(page 3)

Pesticide/PCBs

Conc: Low
Date Extracted: 08/12/87
Date Analyzed: 09/14/87
Dilution Factor: 1
Percent Moisture(decanted):

GPC Cleanup _Yes ✓No
Sep. Funnel Ext. _Yes
Cont. Liquid Ext. ✓Yes

CAS #	Compound	ug/L
319-84-6	ALPHA-BHC	0.05 U
319-85-7	BETA-BHC	0.05 U
319-86-8	DELTA-BHC	0.05 U
58-89-9	GAMMA-BHC (LINDANE)	0.05 U
76-44-8	HEPTACHLOR	0.05 U
309-00-2	ALDRIN	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	0.05 U
959-98-8	ENDOSULFAN I	0.05 U
60-57-1	DIELDRIN	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	ENDRIN	0.10 U
33213-65-9	ENDOSULFAN II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	ENDRIN ALDEHYDE	0.10 U
1031-07-8	ENDOSULFAN SULFATE	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	METHOXYCHLOR	0.50 U
53494-70-5	ENDRIN KETONE	0.10 U
57-74-9	CHLORDANE	0.50 U
8001-35-2	TOXAPHENE	1.00 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	0.50 U
12672-29-6	AROCLOR-1248	0.50 U
11097-69-1	AROCLOR-1254	1.00 U
11096-82-5	AROCLOR-1260	1.00 U

Vs = 500 = Volume of water extracted (ml)
Vt = 5000 = Volume of total extract (ul)
Vi = 1 = Volume of extract injected(ul)
1st Column Inst. : 5000
2nd Column Inst. : 3400

EY

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT,BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

Form 1

000360

INST ID: 4000

Spectrix DC# 7852-5-8-

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SAMPLE NUMBER: ET 992

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

QC REPORT NO.: 243 ANALYST: RCJ DATAFILE: EU08036V08

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L

NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT. STD.

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

000361

INST ID: 4510

SPECTRIX DC # 7852-5- 8

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SAMPLE: ET992

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION

CASE NO.: 7852

QC REPORT NO.: 243

ANALYST: CEB

DATAFILE: EU08036C08

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
9-61-9	BENZOPHENONE	1176	957	29 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1888		18 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	2019		14 J

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

000362

RECEIVED OCT 13 1987

Spectrix DC# 7852-5-8

Sample Number
ET993

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: SPECTRIX
Lab Sample ID No: 870803617
Sample Matrix: WATER
Data Release Authorized By:

Case No: 7852-5
QC Report No: 243
Contract No: 68-01-7149
Date Sample Received: ~~08/18/87~~ 8/18/87

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/18/87
Date Analyzed: 08/18/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	5	J	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	108-10-1	4-Methyl-2-Pentanone	10	U
67-66-3	Chloroform	5	U	591-78-6	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
				1330-20-7	Total Xylenes	5	U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

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Spectrix DC# 7852-5-8-

Laboratory Name: SPECTRIX
Case No: 7852

Sample Number
ET993

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 09/13/87
Date Analyzed: 09/01/87
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	10	
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

Form I

000380

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Lab Name: Spectrix
Case No: 7852
Lab No.:87-08-036-17A

DC No: 7852-5-8
SMO No: ET993

ORGANICS ANALYSIS DATA SHEET
(page 3)

Pesticide/PCBs

Conc: Low
Date Extracted: 08/13/87
Date Analyzed: 09/14/87
Dilution Factor: 1
Percent Moisture(decanted):

GPC Cleanup _Yes ✓No
Sep. Funnel Ext. _Yes
Cont. Liquid Ext. ✓Yes

CAS #	Compound	ug/L
319-84-6	ALPHA-BHC	0.05 U
319-85-7	BETA-BHC	0.05 U
319-86-8	DELTA-BHC	0.05 U
58-89-9	GAMMA-BHC (LINDANE)	0.05 U
76-44-8	HEPTACHLOR	0.05 U
309-00-2	ALDRIN	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	0.05 U
959-98-8	ENDOSULFAN I	0.05 U
60-57-1	DIELDRIN	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	ENDRIN	0.10 U
33213-65-9	ENDOSULFAN II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	ENDRIN ALDEHYDE	0.10 U
1031-07-8	ENDOSULFAN SULFATE	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	METHOXYCHLOR	0.50 U
53494-70-5	ENDRIN KETONE	0.10 U
57-74-9	CHLORDANE	0.50 U
8001-35-2	TOXAPHENE	1.00 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	0.50 U
12672-29-6	AROCLOR-1248	0.50 U
11097-69-1	AROCLOR-1254	1.00 U
11096-82-5	AROCLOR-1260	1.00 U

Vs = 500 = Volume of water extracted (ml)
Vt = 5000 = Volume of total extract (ul)
Vi = 1 = Volume of extract injected(ul)
1st Column Inst. : 6000
2nd Column Inst. : 3400

EY

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT,BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

Form 1

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ecology and environment

INST ID: 51EF

Spectrix DC# 7852-5-8

RECEIVED OCT 13 1987

SAMPLE NUMBER: ET993

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

QC REPORT NO.: 243 ANALYST: MB DATAFILE: EU08036V17

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG.

NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT. STD.

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

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ecology and environment

INST ID: 4510
INST ID: 4510

Spectrix DC# 7852-5-8

RECEIVED OCT 13 1987

SAMPLE: ET993

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

GC REPORT NO.: 243 ANALYST: CEB DATAFILE: EU08036C17

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
112-34-5	ETHANOL, 2-(2-BUTOXYETHOXY)-	786	857	4 J
105-60-2	CAPROLACTAM	907	893	740 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1614		24 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	1619		11 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	2039		21 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	2056		12 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	2146		5 J
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	2223		10 J

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

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Spectrix DC# 7852-5-8

Sample Number
ET995

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: SPECTRIX
Lab Sample ID No: 870803619
Sample Matrix: WATER
Data Release Authorized By:

Case No: 7852-5
QC Report No: 243
Contract No: 68-01-7149
Date Sample Received: 08/13/87

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/19/87
Date Analyzed: 08/19/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-35-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	108-10-1	4-Methyl-2-Pentanone	10	U
67-66-3	Chloroform	5	U	591-78-6	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
				1330-20-7	Total Xylenes	5	U

U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

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Laboratory Name SPECTRIX

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

COVER PAGE ONLY

Sample Number: ET995.

D.C. No. 7852-5

Organics Analysis Data Sheet
(Page 2)

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

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

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

(1) Cannot be separated from diphenylamine

100408

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Laboratory Name: SPECTRIX CORPORATION

Case No 68-01-6798, 6865, 7018, 7146

Sample Number
ET995

D.C. No. 7852-5-

Organics Analysis Data Sheet
(Page 3)

COVER PAGE ONLY

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	
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 _____

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INST ID: 4000

Spectrix DC# 7852-5-8

SAMPLE NUMBER: ET995

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

QC REPORT NO.: 243 ANALYST: RCJ DATAFILE: EU08036V19

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
109-99-9	FURAN, TETRAHYDRO-	149	948	8 J
54004-41-0	1-PENTANOL, 4-METHYL-2-PROPYL-	553	825	6 J

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

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Laboratory Name: SPECTRIX

Case No: 68-01-7149

Sample Number: ET 9915

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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.				
2.				
3.	SEARCH NOT REQUIRED	SV		
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.				

000411

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Spectrix DC# 7852-5-8

Sample Number
ET996

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: SPECTRIX
Lab Sample ID No: 870803620
Sample Matrix: WATER
Data Release Authorized By:

Case No: 7852-5
QC Report No: 243
Contract No: 68-01-7149
Date Sample Received: 08/13/87

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/19/87
Date Analyzed: 08/19/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-35-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	108-10-1	4-Methyl-2-Pentanone	10	U
67-66-3	Chloroform	5	U	591-78-6	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
				1330-20-7	Total Xylenes	5	U

U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

RECEIVED OCT 13 1987

Spectrix DC# 7852-5-8

Laboratory Name: SPECTRIX
Case No: [illegible]

Sample Number
[illegible]

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 09/12/87
Date Analyzed: 09/04/87
Conc/Dil Factor: 1.0
Percent Moisture: (Decanted)

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction X 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
100-01-6	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	5	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

Form I

000420

RECEIVED OCT 15 1987

Lab Name: Spectrix
Case No: 7852
Lab No.: 87-08-036-20A

DC No: 7852-5-8
SMO No: ET996

ORGANICS ANALYSIS DATA SHEET
(page 3)

Pesticide/PCBs

Conc: Low
Date Extracted: 08/13/87
Date Analyzed: 09/15/87
Dilution Factor: 1
Percent Moisture(decanted):

GPC Cleanup _Yes ✓No
Sep. Funnel Ext. _Yes
Cont. Liquid Ext. ✓Yes

CAS #	Compound	ug/L
319-84-6	ALPHA-BHC	0.05 U
319-85-7	BETA-BHC	0.05 U
319-86-8	DELTA-BHC	0.05 U
58-89-9	GAMMA-BHC (LINDANE)	0.05 U
76-44-8	HEPTACHLOR	0.05 U
309-00-2	ALDRIN	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	0.05 U
959-98-8	ENDOSULFAN I	0.05 U
60-57-1	DIELDRIN	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	ENDRIN	0.10 U
33213-65-9	ENDOSULFAN II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	ENDRIN ALDEHYDE	0.10 U
1031-07-8	ENDOSULFAN SULFATE	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	METHOXYCHLOR	0.50 U
53494-70-5	ENDRIN KETONE	0.10 U
57-74-9	CHLORDANE	0.50 U
8001-35-2	TOXAPHENE	1.00 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	0.50 U
12672-29-6	AROCLOR-1248	0.50 U
11097-69-1	AROCLOR-1254	1.00 U
11096-82-5	AROCLOR-1260	1.00 U

Vs = 500 = Volume of water extracted (ml)
Vt = 5000 = Volume of total extract (ul)
Vi = 1 = Volume of extract injected(ul)
1st Column Inst. : 6000
2nd Column Inst. : 3400

EY

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT,BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

RECEIVED OCT 13 1987

INST ID: 4000

Spectrix DC# 7852-5-8

SAMPLE NUMBER: ET996

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

QC REPORT NO.: 243 ANALYST: RCJ DATAFILE: EU08036V20

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L

NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT. STD.

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

INST ID: 4510

SPECTRIX DC # 7852-5- 8

RECEIVED OCT 13 1987

SAMPLE: ET996

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION

CASE NO.: 7852

QC REPORT NO.: 243

ANALYST: CEB

DATAFILE: EU08036C20

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
25144-05-2	CYCLOPENTANOL, 2-METHYL-, CIS-	326	794	6 J

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

RECEIVED OCT 1 3 '87

Spectrix DC# 7852-5-8.

Sample Number
ET997

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: SPECTRIX
Lab Sample ID No: 870803621
Sample Matrix: WATER
Data Release Authorized By:

Case No: 7852-5
QC Report No: 243
Contract No: 68-01-7149
Date Sample Received; 08/13/87

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/19/87
Date Analyzed: 08/19/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	4	J
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-35-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	108-10-1	4-Methyl-2-Pentanone	10	U
67-66-3	Chloroform	5	U	591-78-6	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
				1330-20-7	Total Xylenes	5	U

J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

RECEIVED 13 1987

Spectrix DC# 7852-5-8

Laboratory Name: [illegible]
Case No: [illegible]

Sample Number
[illegible]397

ORGANICS ANALYSIS DATA SHEET
Page 2

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 09/13/87
Date Analyzed: 09/01/87
Dil/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	9	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

Form I

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Lab Name: Spectrix
Case No: 7852
Lab No.:87-08-036-21A

DC No: 7852-5-8
SMO No: ET997

ORGANICS ANALYSIS DATA SHEET
(page 3)

Pesticide/PCBs

Conc: Low
Date Extracted: 08/13/87
Date Analyzed: 09/15/87
Dilution Factor: 1
Percent Moisture(decanted):

GPC Cleanup _Yes ✓No
Sep. Funnel Ext. _Yes
Cont. Liquid Ext. ✓Yes

CAS #	Compound	ug/L
319-84-6	ALPHA-BHC	0.05 U
319-85-7	BETA-BHC	0.05 U
319-86-8	DELTA-BHC	0.05 U
58-89-9	GAMMA-BHC (LINDANE)	0.05 U
76-44-8	HEPTACHLOR	0.05 U
309-00-2	ALDRIN	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	0.05 U
959-98-8	ENDOSULFAN I	0.05 U
60-57-1	DIELDRIN	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	ENDRIN	0.10 U
33213-65-9	ENDOSULFAN II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	ENDRIN ALDEHYDE	0.10 U
1031-07-8	ENDOSULFAN SULFATE	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	METHOXYCHLOR	0.50 U
53494-70-5	ENDRIN KETONE	0.10 U
57-74-9	CHLORDANE	0.50 U
8001-35-2	TOXAPHENE	1.00 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	0.50 U
12672-29-6	AROCLOR-1248	0.50 U
11097-69-1	AROCLOR-1254	1.00 U
11096-82-5	AROCLOR-1260	1.00 U

Vs = 500 = Volume of water extracted (ml)
Vt = 5000 = Volume of total extract (ul)
Vi = 1 = Volume of extract injected(ul)
1st Column Inst. : 6000
2nd Column Inst. : 3400

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT,BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

Form 1

INST ID: 4000

Spectrix DC# 7852-5-8

SAMPLE NUMBER: ET997

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

GC REPORT NO.: 243 ANALYST: RCJ DATAFILE: EU08036V21

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L

NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT. STD.

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

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INST ID: 4510

SPECTRIX DC # 7852-5-8

SAMPLE: ET997

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION

CASE NO.: 7852

QC REPORT NO.: 243

ANALYST: CEB

DATAFILE: EU08036C21

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	2283		5 J

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

RECEIVED OCT 13 1987

Spectrix DC# 7852-5-8-

Sample Number
ET998

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: SPECTRIX
Lab Sample ID No: 870903622
Sample Matrix: WATER
Data Release Authorized By:

Case No: 7852-5
QC Report No: 243
Contract No: 68-01-7149
Date Sample Received: 08/13/87

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/19/87
Date Analyzed: 08/19/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-35-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	108-10-1	4-Methyl-2-Pentanone	10	U
67-66-3	Chloroform	5	U	591-78-6	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
				1330-20-7	Total Xylenes	5	U

U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

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Spectrix DC# 7352-5-8-

Laboratory Name: SPECTRIX
Case No: 7352

Sample Number
ET993

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 09/13/87
Date Analyzed: 09/02/87
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	
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
100-16-8	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	31	
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

Form I

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Lab Name: Spectrix
Case No: 7852
Lab No.:87-08-036-22A

DC No: 7852-5-8
SMO No: ET998

ORGANICS ANALYSIS DATA SHEET
(page 3)

Pesticide/PCBs

Conc: Low
Date Extracted: 08/13/87
Date Analyzed: 09/15/87
Dilution Factor: 1
Percent Moisture(decanted):

GPC Cleanup _Yes ✓No
Sep. Funnel Ext. _Yes
Cont. Liquid Ext. ✓Yes

CAS #	Compound	ug/L
319-84-6	ALPHA-BHC	0.05 U
319-85-7	BETA-BHC	0.05 U
319-86-8	DELTA-BHC	0.05 U
58-89-9	GAMMA-BHC (LINDANE)	0.05 U
76-44-8	HEPTACHLOR	0.05 U
309-00-2	ALDRIN	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	0.05 U
959-98-8	ENDOSULFAN I	0.05 U
60-57-1	DIELDRIN	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	ENDRIN	0.10 U
33213-65-9	ENDOSULFAN II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	ENDRIN ALDEHYDE	0.10 U
1031-07-8	ENDOSULFAN SULFATE	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	METHOXYCHLOR	0.50 U
53494-70-5	ENDRIN KETONE	0.10 U
57-74-9	CHLORDANE	0.50 U
8001-35-2	TOXAPHENE	1.00 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	0.50 U
12672-29-6	AROCLOR-1248	0.50 U
11097-69-1	AROCLOR-1254	1.00 U
11096-82-5	AROCLOR-1260	1.00 U

Vs = 500 = Volume of water extracted (ml)
Vt = 5000 = Volume of total extract (ul)
Vi = 1 = Volume of extract injected(ul)
1st Column Inst. : 6000
2nd Column Inst. : 3400

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT,BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

INST ID: 4510

SPECTRIX DC # 7852-3- 8

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SAMPLE: ET998

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

GC REPORT NO.: 243 ANALYST: CEB DATAFILE: EU08036C22

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L

NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT. STD.

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

RECEIVED OCT 13 1987

INST ID: 4000

Spectrix DC# 7852-5-8

SAMPLE NUMBER: ET 998

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION

CASE NO.: 7852

QC REPORT NO.: 243

ANALYST: RCJ

DATAFILE: EU08036V22

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L

NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT. STD.

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

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Spectrix DC# 7852-5-14

VOA QUANTITATION REPORT

SAMPLE ID.	ET 998		
FILENAME	EU08036V22	INST	4000
CLIENT	EPA	ANALYST	RCJ
DATE INJECTED	08/19/87 13:39:00	VERIFIED BY	RCJ
CALIB STD DATE	8-16-87	CORR. FACTOR	1.00

SCAN#		VOA COMPOUNDS		M/E	AMOUNT	RRT	AREA
135	CI01	BROMOCHLOROMETHANE	**IS1**	128	50 UG/L	1.000	24978
330	CI10	1,4-DIFLUOROBENZENE	**IS2**	114	50 UG/L	1.000	101767
429	CI20	D5-CHLOROBENZENE	**IS3**	117	50 UG/L	1.000	85393
183	CS15	D4-1,2-DICHLOROETHANE	**SU1**	65	100 %	1.356	31801
404	CS05	D8-TOLUENE	**SU2**	98	100 %	0.942	89746
508	CS10	P-BROMOFLUOROBENZENE	**SU3**	95	101 %	1.184	70126

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Spectrix DC# 7852-5-8-

Sample Number
ET999

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: SPECTRIX
Lab Sample ID No: 870803623
Sample Matrix: WATER
Data Release Authorized By:

Case No: 7852-5
QC Report No: 243
Contract No: 68-01-7149
Date Sample Received: 09/13/87

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/19/87
Date Analyzed: 08/19/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	108-10-1	4-Methyl-2-Pentanone	10	U
67-66-3	Chloroform	5	U	591-78-6	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
				1330-20-7	Total Xylenes	5	U

U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

RECEIVED [illegible] 1997

Spectrix DC# 7852-5-8-

Laboratory Name: [illegible]
Case No.: [illegible]

Sample Number
[illegible]

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 09/13/97
Date Analyzed: 09/02/97
Dil Factor: 20.0
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	200	U
111-44-4	Bis(2-Chloroethyl)Ether	200	U
95-57-8	2-Chlorophenol	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
100-51-6	Benzyl Alcohol	200	U
95-50-1	1,2-Dichlorobenzene	200	U
95-48-7	2-Methylphenol	200	U
39638-32-9	Bis(2-Chloroisopropyl)Ether	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-Di-n-Propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
65-85-0	Benzoic Acid	1000	U
111-91-1	Bis(2-Chloroethoxy)Methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
59-50-7	4-Chloro-3-Methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethyl Phthalate	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	1000	U

CAS Number		ug/L	
83-32-9	Acenaphthene	200	U
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
86-73-7	Fluorene	200	U
100-10-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-Methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
84-74-2	Di-n-Butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)Anthracene	200	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	4100	
218-01-9	Chrysene	200	U
117-84-0	Di-n-Octyl Phthalate	200	U
205-99-2	Benzo(b)Fluoranthene	200	U
207-08-9	Benzo(k)Fluoranthene	200	U
50-32-8	Benzo(a)Pyrene	200	U
193-39-5	Indeno(1,2,3-cd)Pyrene	200	U
53-70-3	Dibenz(a,h)Anthracene	200	U
191-24-2	Benzo(g,h,i)Perylene	200	U

(1) -.Cannot be separated from diphenylamine

Form 1

RECEIVED OCT 13 1987

Lab Name: Spectrix
Case No: 7852
Lab No.: 87-08-036-23A

DC No: 7852-5-8
SMO No: ET999

ORGANICS ANALYSIS DATA SHEET
(page 3)

Pesticide/PCBs

Conc: Low
Date Extracted: 08/13/87
Date Analyzed: 09/15/87
Dilution Factor: 1
Percent Moisture(decanted):

GPC Cleanup _Yes ✓No
Sep. Funnel Ext. _Yes ✓
Cont. Liquid Ext. ✓Yes

CAS #	Compound	ug/L
319-84-6	ALPHA-BHC	0.05 U
319-85-7	BETA-BHC	0.05 U
319-86-8	DELTA-BHC	0.05 U
58-89-9	GAMMA-BHC (LINDANE)	0.05 U
76-44-8	HEPTACHLOR	0.05 U
309-00-2	ALDRIN	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	0.05 U
959-98-8	ENDOSULFAN I	0.05 U
60-57-1	DIELDRIN	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	ENDRIN	0.10 U
33213-65-9	ENDOSULFAN II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	ENDRIN ALDEHYDE	0.10 U
1031-07-8	ENDOSULFAN SULFATE	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	METHOXYCHLOR	0.50 U
53494-70-5	ENDRIN KETONE	0.10 U
57-74-9	CHLORDANE	0.50 U
8001-35-2	TOXAPHENE	1.00 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	0.50 U
12672-29-6	AROCLOR-1248	0.50 U
11097-69-1	AROCLOR-1254	1.00 U
11096-82-5	AROCLOR-1260	1.00 U

Vs = 500 = Volume of water extracted (ml)
Vt = 5000 = Volume of total extract (ul)
Vi = 1 = Volume of extract injected(ul)
1st Column Inst. : 6000
2nd Column Inst. : 3400

BY

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

INST ID: 4000

Spectrix DC# 7852-5-8-

SAMPLE NUMBER: ET 999

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 7852

QC REPORT NO.: 243 ANALYST: RCJ DATAFILE: EU08036V23

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
109-99-9	FURAN, TETRAHYDRO-	150	969	14 J

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

INST ID: 4510

SPECTRIX DC # 7852-5- 8

RECEIVED 3 1987

SAMPLE: ET999

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION

CASE NO.: 7852

GC REPORT NO.: 243

ANALYST: CEB

DATAFILE: EU08036C23A

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
26271-40-0	1,2-BENZENEDICARBOXYLIC ACID, DIISODECYL	2035	757	120 J

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

Spectrix DC# 7852-5-8

RECEIVED OCT 13 1987

Sample Number
ET1000

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: SPECTRIX
Lab Sample ID No: 870803624
Sample Matrix: WATER
Data Release Authorized By:

Case No: 7852-5
QC Report No: 243
Contract No: 68-01-7149
Date Sample Received: 08/13/87

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/19/87
Date Analyzed: 08/19/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloroproene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-35-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	108-10-1	4-Methyl-2-Pentanone	10	U
67-66-3	Chloroform	5	U	591-78-6	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
				1330-20-7	Total Xylenes	5	U

U - *Compound analyzed for but not detected. The reported* value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

RECEIVED OCT 13 1997

Spectrix DC# 7852-5-8.

Laboratory Name: SPECTRIX
Case No: 7852

Sample Number
ET1000

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 08/12/97
Date Analyzed: 09/02/97
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	11	J
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	26	
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

Form I

RECEIVED

Lab Name: Spectrix
Case No: 7852
Lab No.:87-08-036-24A

DC No: 7852-5-8
SMO No: ET1000

ORGANICS ANALYSIS DATA SHEET
(page 3)

Pesticide/PCBs

Conc: Low
Date Extracted: 08/13/87
Date Analyzed: 09/15/87
Dilution Factor: 1
Percent Moisture(decanted):

GPC Cleanup _Yes ✓No
Sep. Funnel Ext. _Yes
Cont. Liquid Ext. ✓Yes

CAS #	Compound	ug/L
319-84-6	ALPHA-BHC	0.05 U
319-85-7	BETA-BHC	0.05 U
319-86-8	DELTA-BHC	0.05 U
58-89-9	GAMMA-BHC (LINDANE)	0.05 U
76-44-8	HEPTACHLOR	0.05 U
309-00-2	ALDRIN	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	0.05 U
959-98-8	ENDOSULFAN I	0.05 U
60-57-1	DIELDRIN	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	ENDRIN	0.10 U
33213-65-9	ENDOSULFAN II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	ENDRIN ALDEHYDE	0.10 U
1031-07-8	ENDOSULFAN SULFATE	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	METHOXYCHLOR	0.50 U
53494-70-5	ENDRIN KETONE	0.10 U
57-74-9	CHLORDANE	0.50 U
8001-35-2	TOXAPHENE	1.00 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	0.50 U
12672-29-6	AROCLOR-1248	0.50 U
11097-69-1	AROCLOR-1254	1.00 U
11096-82-5	AROCLOR-1260	1.00 U

Vs = 500 = Volume of water extracted (ml)
Vt = 5000 = Volume of total extract (ul)
Vi = 1 = Volume of extract injected(ul)
1st Column Inst. : 5000
2nd Column Inst. : 3400

EY

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT,BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

Form 1

RECEIVED 0 1 3 1987

INST ID: 4000

Spectrix DC# 7852-5-8

SAMPLE NUMBER: ET1000

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION

CASE NO.: 7852

QC REPORT NO.: 243

ANALYST: RCJ

DATAFILE: EU08036V24

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L

✓NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT. STD.

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

RECEIVED 3 1987

INST ID: 4510

SPECTRIX DC # 7852-5- 8

SAMPLE: L.1000

ORGANICS ANALYSIS DATA SHEET - PAGE 5

LABORATORY NAME: SPECTRIX CORPORATION

CASE NO.: 7852

QC REPORT NO.: 243

ANALYST: CEB

DATAFILE: EU08036C24

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
119-61-9	BENZOPHENONE	1177	945	64 J
146-50-9	1,2-BENZENEDICARBOXYLIC ACID, BIS(4-METHY	1596	866	8 J
146-50-9	1,2-BENZENEDICARBOXYLIC ACID, BIS(4-METHY	1616	944	11 J
146-50-9	1,2-BENZENEDICARBOXYLIC ACID, BIS(4-METHY	1628	904	5 J
146-50-9	1,2-BENZENEDICARBOXYLIC ACID, BIS(4-METHY	1632	955	9 J

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

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

CRL Receipt Date 12/4/87 FIT Receipt Date 1/19/88 Review Completed 2/17/88

TO: Pachowicz
FROM: Loretta Guzdziol
SUBJECT: HOD
PAN: IL0141 (1 hour charged for review) Case # 7852

Sample Description

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

Project Data Status X Completed!!

Incomplete, awaiting

FIT Data Review Findings:

Reanalyzed for Semi-Volatiles —
ET 983 — N-nitrosodiphenylamine 475 >
ET 992 — Phenol

Check Data Sheets for Transcription Errors

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

Book No. X6 Page No. 258 Date Sampled 8/10/87

recycled paper

	SAMPLE										
	TIC										
	OTC	PPB									
	SAMPLE	EM 445	ET 983	984	985	987	988	989	990	992	
COMPOUND											
chloromethane											
bromomethane											
vinyl chloride											
chloroethane											
methylene chloride											
acetone											
carbon disulfide											
1,1-dichloroethene											
1,1-dichloroethane											
trans-1,2,-dichloroethene											
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											
chlorobenzene											
ethylbenzene											
styrene											
total xylenes											
N-nitrosodimethylamine 49											
phenol										23	
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 74		23									
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											
dimethyl phthalate											
acenapthylene											
3-nitroaniline											
acenaphthene											
2,4-dinitrophenol											
4-nitrophenol											
dibenzofuran											
2,4-dinitrotoluene											
2,6-dinitrotoluene											
diethylphthalate					23						
4-chlorophenyl-phenylether											
fluorene											
4-nitroaniline											
4,6-dinitro-2-methylphenol											
N-nitrosodiphenylamine											
4-bromophenyl-phenylether											
hexachlorobenzene											

VOA

COMPOUND	SAMPLE	EM 445	ET 983	984	985	987	988	989	990	992		
	DIC	PPB				5						
	TIC											
pentachlorophenol												
phenanthrene												
anthracene												
di-n-butylphthalate												
fluoranthene												
benzidine												
pyrene												
butylbenzylphthalate												
3,3'-dichlorobenzidine												
benzo(a)anthracene												
bis(2-ethylhexyl)phthalate	10	3J			39B	2J	4J			8J		
chrysene												
di-n-octylphthalate												
benzo(bjk)fluoranthene												
benzo(a)pyrene												
indeno(1,2,3-cd)pyrene												
dibenzo(a,h)anthracene												
benzo(g,h,i)perylene												
alpha-BHC												
beta-BHC												
delta-BHC												
gamma-BHC(lindane)												
heptachlor												
aldrin												
heptachlor epoxide												
endosulfan I												
dieldrin												
4,4'-DDE												
endrin												
endosulfan II												
4,4'-DDD												
endrin aldehyde												
endosulfan sulfate												
4,4'-DDT												
methoxychlor												
endrin ketone												
chlordane												
toxaphene												
Aroclor-1016												
Aroclor-1221												
Aroclor-1232												
Aroclor-1242												
Aroclor-1248												
Aroclor-1254												
Aroclor-1260												
ELEMENT												
aluminum												
antimony												
arsenic												
barium												
beryllium												
cadmium												
calcium												
chromium												
cobalt												
copper												
iron												
lead												
magnesium												
manganese												
mercury												
nickel												
potassium												
selenium												
silver												
sodium												
thallium												
tin												
vanadium												
zinc												
cyanide CHECK IF ANALYZED ( )												
TENTATIVELY IDENTIFIED ORGANICS												

1 of 3
1/19

Reanalysis

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 1/15/88

Pachowicz
IL

SUBJECT: Review of Region V CLP data
Received for Review on 12-4-87

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

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: 9 D.U./Activity Numbers Y905/C72100

CRL No. 87FP16S03-S06, S08, S09, S11, S12, R01, R02

SMO Traffic No. EM445; ET983-985, 987-990,992

CLP Laboratory: SPECTRIX-HOUSTON Hrs. Required for Review: 6 hours

Following are our findings:

PAN# FIL0141

( ) 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)

L.C. 11/13/88

HOD LANDFILL CASE: 7852

This review covers 9 water samples which were reanalyzed only for the semi-volatile fraction. The samples were reanalyzed by Spectrix on October 1 and 2, 1987. All samples were run as low concentration samples.

A.	Holding Time -	These samples were reextracted outside the holding time limit, any positive results are good; however they may be biased toward the low side due to this excessive holding time.
B.	Surrogates -	Acceptable. 4 outside QC limits
C.	MS/MSD -	Not required for this reanalysis.
D.	Method Blank -	Acceptable. Common lab artifacts include bis(2-ethylhexyl)phthalate and di-n-butyl phthalate.
E.	Calibrations -	Acceptable. Compounds that are outside specification are listed on the calibration outlier form.
F.	Tuning -	Acceptable
G.	Pesticides -	Not requried.

R.C. 1/13/88

USER INFORMATION SHEET

HOD LANDFILL CASE #7852

PAN#FIL0141

Common lab artifacts detected in most samples. These include bis(2-ethylhexyl) phthalate and di-n-butylphthalate.

		Conc	CRDL
ET983RE	N-nitrosodiphenylamine	2J	10ug/L
ET992RE	Phenol	2J	10ug/L

The other seven samples EM445RE, ET984RE, ET985RE, ET987RE, ET988RE, ET989RE, and ET990RE showed positive hits for phthalates only.

0050:4

R. C. 11/13/88

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

CASE/SAS # 7852 CONTRACTOR Spectrix

Instrument # 4510	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	9/20/87			10/1/87											
	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		[redacted]													
3-Nitroaniline		54.2	J		62.9	J									
Acenaphthene															
2,4-Dinitrophenol															
4-Nitrophenol															
Dibenzofuran															

AFFECTED SAMPLES:

All	[redacted]				
	ET 983 RE				
	EM 445 RE				
	ET 984 RE				
	ET 985 RE				
	ET 992 RE				

Reviewer Initials/Date: R.C 1/11/88

* 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

CASE/SAS # 7852 CONTRACTOR Spectrix

Instrument # 4510	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	9/20/87			10/1/87											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
2,4-Dinitrotoluene															
2,6-Dinitrotoluene															
Diethylphthalate															
4-Chlorophenyl-phenylether															
Fluorene															
4-Nitroaniline					25%	J									
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: L.C. 1/11/88

Case: 7852

Contractor: Spectrix

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: L C. 1/11/88

SECTION I NARRATIVE - REANALYSIS

LABORATORY: SPECTRIX - HOUSTON DOC CONT NO: 7852-5 -21

CASE NO: 7852 QC REPORT NO: 243

LAB NO: 8708036 CONTRACT NO: 68-01-7149

I. RECEIPT

A. DATE: 8/11/87

B. NO. OF SAMPLES: 9

C. SMO NUMBERS: EM445, ET983, 984, 985, 987, 988, 989, 990 & 992

D. SAMPLE TYPE: WATER

E. ANALYSIS REQUESTED: BNA Following 7/85 protocol

F. SHIPPING PROBLEMS: none

G. DOCUMENTATION PROBLEMS: none

H. QC DISTRIBUTION:

LEVEL	MATRIX	VOA	SV	PEST
LOW	WATER			
	SOIL	NO QC		
MEDIUM	WATER			
	SOIL			

RECEIVED NOV 24 1987 U.S. EPA CENTRAL REGIONAL LAB

II. PREPARATION

A. ANALYTICAL LEVELS: These water samples are low level.

B. EXTRACTION PROBLEMS: none

DOC CONT NO: 7852 - 5 -21

III. ANALYSIS

A. ANALYSIS PROBLEMS: none

B. SURROGATE RECOVERIES: All reanalyses are within Contract limit or if not do not trigger Non-Compliance. EPA will not be billed for these reanalyses.

IV. COMMENTS: none

Thomas T. Ottemann TO

Project Manager

SPECTRIX DCH 7852-5-8

TTO

WATER SURROGATE PERCENT RECOVERY SUMMARY
(Page 1)

Case No. 7852- Contract Laboratory SPECTRIX Contract No. 68-01-7149

	VOLATILE			SEMI-VOLATILE							PEST
	Toluene-d8	BFB	1,2-Dichloroethane-d4	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14	Phenol-d5	2-Fluorophenol	2,4,6-Tribromophenol	Dibutylchlorendate**
SMO TRAFFIC	88	86	76	35	43	33	10	21	10	24
I. D.	110	115	114	114	116	141	94	100	123	154
MB	NC	NC	NC	73	93	92	92	73	90	NC
ET983RE	NC	NC	NC	78	94	61	88	66	93	NC
ET984RE	NC	NC	NC	75	111	31*	38	26	103	NC
ET985RE	NC	NC	NC	77	100	47	22	34	92	NC
ET987RE	NC	NC	NC	77	96	33	35	21	13	NC
988RE	NC	NC	NC	71	91	29*	28	44	98	NC
ET989RE	NC	NC	NC	73	34*	39	44	92	85	NC
ET990RE	NC	NC	NC	84	82	50	32	21	27	NC
ET992RE	NC	NC	NC	75	95	108	94	76	88	NC
445RE	NC	NC	NC	77	94	99	30	15*	70	NC

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS
** ADVISORY LIMITS ONLY

Volatiles: NC out of 30, outside of QC limits
Semi-Volatiles: 4 out of 60, outside of QC limits
Pesticides: NC out of 10, outside of QC limits

Comments:

NC- NOT REQUIRED

FORM II

REVISED 11/23/87

SPECTRIX DC# 7852-S-8

Laboratory Name: SPECTRIX
Case No: 7852-

Sample Number
ET983RE

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)	2	J
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

aboratory Name SPECTRIX HOUSTON

ase No 68-01-6798, 6865 7013 7149

OVER PAGE ONLY

Sample Number ET983 RE

Organics Analysis Data Sheet (Page 3)

SPECTRIX D.C. No. 7852-5-

Pesticide/PCBs

oncentration: Low Medium (Circle One)

ate Extracted/Prepared: 09/09/87

ate Analyzed: 10/01/87

onc/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

ET983RG

'ER
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	✓		
1.				
9.				
10.				
11.				
12.				
13.				
14.				
15				
16.				
17.				
18.				
19.				
2				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Form 1, Part B