EPA Region 5 Records Ctr.
345410

L1030450050-St. Clair Co.
Lefton Iron & Metal
ILD 984809244
SE/NRS

CERCLA

Screening Site Inspection Analytical Results

Illinois Environmental
Protection Agency
P.O. Box 19276
Springfield, IL 62794-9276

4/10/97
J.P.

Confidential Material May be Enclosed

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SITE NAME: LEFTON IRON & METAL

ILD NUMBER: 045698263

TABLE 3-1
SUMMARY
Facility Soil Samples

SAMPLING POINT / PARAMETER	X101 Background Soil	X102 Duplicate Soil	X103 Soil	X104 Soil	X105 Soil	X106 Soil	X107 Soil
VOLATILES							
Acetone	6.0 J	12.0 U	--	--	8.0 J	3.0 J	--
Toluene	12.0 U	12.0 U	--	--	--	--	8.0 J
Xylene(total)	12.0 U	12.0 U	--	--	--	--	5.0 J
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
SEMIVOLATILES							
Acenapthene	400.0 U	390.0 U	--	--	--	--	620.0 J
Dibenzofuran	400.0 U	390.0 U	--	--	--	--	510.0 J
Flourene	400.0 U	390.0 U	--	--	--	--	440.0 J
Phenol	400.0 U	390.0 U	--	18000.0 J	--	--	--
Phenanthrene	120.0 J	98.0 J	--	6600.0 J	--	--	1100.0 J
Fluoranthene	250.0 J	190.0 J	5400.0 J	12000.0 J	--	--	3200.0
Pyrene	180.0 J	160.0 J	5300.0 J	10000.0 J	--	--	4600.0
Benzo(a)anthracene	150.0 J	110.0 J	--	6200.0 J	--	--	--
bis(2-Ethylhexyl)phthalate	400.0 U	390.0 U	15000.0 J	12000.0 J	--	--	15000.0 E
Benzo(b)fluoranthene	240.0 J	160.0 J	--	14000.0 J	--	--	--
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
PESTICIDES & PCB's							
beta-BHC	21.0 U	20.0 U	--	--	200.0 JPD	--	--
Aldrin	3.2 JPD	2.2 JPD	1700.0 PD	2200.0 PD	1300.0 PD	2000.0 PD	100.0 PD
4,4'-DDE	26.0 JPD	61.0 PD	--	920.0 PD	--	--	--
Endrin	12.0 JPD	10.0 JPD	1700.0 PDJ	180.0 JPD	--	--	130.0 D
Endosulfan II	40.0 U	39.0 UJ	1100.0 PD	290.0 JPD	1100.0 PD	--	130.0 PD
Endosulfan sulfate	40.0 U	39.0 U	--	31.0 JPD	130.0 JPD	--	--
4,4'-DDT	24.0 JPD	200.0 UJ	--	120.0 JPD	350.0 JPD	--	14.0 JPD
Endrin aldehyde	40.0 U	39.0 UJ	970.0 PD	--	--	--	--
gamma-Chlordane	21.0 U	20.0 U	200.0 JPD	160.0 JPD	190.0 JPD	290.0 PD	16.0 JPD
Aroclor-1248	400.0 U	390.0 U	25000.0 PD	44000.0 PD	--	--	--
Aroclor-1254	400.0 U	390.0 U	29000.0 PD	21000.0 PD	40000.0 PD	44000.0 PD	2200.0 PD
Aroclor-1260	400.0 U	390.0 U	44000.0 PD	13000.0 PD	32000.0 PD	18000.0 PD	2800.0 PD
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
INORGANICS							
Aluminum	9320.0	9200.0	67700.0	12400.0	7800.0	9000.0	8290.0
Antimony	13.6 U	12.3 U	35.6	89.2	66.7	13.8	22.9
Arsenic	7.2	6.5	223.0	45.3	110.0	36.5	30.4
Barium	117.0	116.0	2170.0	1200.0	1350.0	1070.0	625.0
Beryllium	0.7 B	0.7 B	2.5	2.5	1.2 B	1.6 B	1.8
Cadmium	4.4 U	4.9	256.0	289.0	119.0	56.9	40.5
Calcium	14400.0	15000.0	45100.0	33500.0	21000.0	38500.0	68700.0
Chromium	15.6	15.2	513.0	570.0	191.0	320.0	402.0
Cobalt	7.8 B	6.2 B	54.2	40.2	121.0	22.4	23.1
Copper	36.2	39.6	4820.0	2060.0	2600.0	1690.0	1230.0
Iron	15900.0	15700.0	130000.0	229000.0	130000.0	173000.0	143000.0
Lead	115.0	102.0	2270.0	12500.0	4200.0	3180.0	1910.0
Magnesium	9030.0	9230.0	13500.0	7580.0	5370.0	9070.0	7370.0
Manganese	394.0	403.0	2020.0	2010.0	1470.0	1870.0	1620.0
Mercury	0.1 B	0.1 B	32.4	6.1	3.0	7.0	3.6
Nickel	18.3	16.0	263.0	553.0	225.0	422.0	723.0
Potassium	1630.0	1590.0	778.0 B	800.0 B	651.0 B	958.0 B	1010.0 B
Selenium	0.3 U	0.2 B	3.6	1.5 B	1.3 B	3.6	3.0
Silver	1.0 B	0.9 B	3.6	3.2	10.0	13.8	1.7 B
Sodium	205.0 B	89.2 B	481.0 B	1100.0 B	1180.0 B	400.0 B	517.0 B
Vanadium	29.8	29.1	90.4	34.0	32.0	34.6	58.9
Zinc	345.0	383.0	6330.0	8330.0	5560.0	6560.0	3020.0
Cyanide	1.0 U	1.0 U	1.4	1.5	4.4	--	--
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg

SITE NAME: LEFTON IRON & METAL

ILD NUMBER: 984809244

TABLE 3-1 (cont.)
SUMMARY
Residential & Wetlands

SAMPLING POINT / PARAMETER	X101 Background Soil	X102 Duplicate Soil	X108 Soil	X109 Soil	X110 Soil	X111 Soil	X112 Soil	X113 Soil	X114 Soil
VOLATILES									
Toluene	12.0 U	12.0 U	4.0 J	--	--	--	--	--	--
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
SEMIVOLATILES									
Napthalene	400.0 U	390.0 U	620.0 J	--	--	--	--	--	--
2-Methylnapthalene	400.0 U	390.0 U	620.0 J	--	--	--	--	--	940.0 J
Dibenzofuran	400.0 U	390.0 U	--	--	6300.0 J	--	--	--	--
Flourene	400.0 U	390.0 U	--	--	7900.0 J	--	--	--	--
Phenanthrene	120.0 J	98.0 J	2700.0	--	81000.0	270.0 J	380.0 J	--	1700.0 J
Anthracene	400.0 U	390.0 U	--	--	10000.0 J	--	--	--	--
Carbazole	400.0 U	390.0 U	--	--	13000.0 J	--	--	--	--
Fluoranthene	250.0 J	190.0 J	--	--	74000.0	540.0 J	980.0	--	1800.0 J
Pyrene	180.0 J	160.0 J	--	--	55000.0	320.0 J	660.0	--	1200.0 J
Benzo(a)anthracene	150.0 J	110.0 J	--	--	27000.0	--	450.0 J	--	880.0 J
Chrysene	150.0 J	150.0 J	--	--	--	390.0 J	520.0	--	1200.0 J
bis(2-Ethylhexyl)phthalate	400.0 U	390.0 U	--	6400.0 J	--	--	--	--	--
Benzo(b)flouranthene	240.0 J	160.0 J	--	--	37000.0	450.0 J	610.0	2600.0 J	--
Benzo(k)flouranthene	160.0 J	110.0 J	--	--	--	--	420.0 J	--	1300.0 J
Benzo(a)pyrene	400.0 U	130.0 J	--	--	22000.0 J	--	470.0	--	--
Indeno(1,2,3-cd)pyrene	400.0 U	390.0 U	--	--	15000.0 J	--	--	--	--
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
PESTICIDES & PCB's									
alpha-BHC	21.0 U	20.0 UJ	--	--	1.2 JPD	--	--	--	1.9 JPD
gamma-BHC (Lindane)	21.0 U	20.0 UJ	--	--	5.7 JPD	--	180.0 PDJ	1.0 JPD	4.7 JPD
Aldrin	3.2 BJ	2.2 JPD	1900.0 BPD	--	53.0 D	--	33.0 BPD	11.0 JPD	--
Heptachlor epoxide	21.0 U	20.0 U	--	--	--	--	22.0 JPD	--	--
Endosulfan I	21.0 U	20.0 U	--	--	--	5.5 JPD	--	--	--
Dieldrin	32.0 JP	39.0 JPD	--	670.0 PD	130.0 PD	180.0 PD	3000.0 PD	130.0 PD	160.0 PD
4,4'-DDE	26.0 JP	61.0 PD	--	--	210.0 PD	--	--	89.0 PD	270.0 PD
Endrin	12.0 JP	10.0 JPD	--	3200.0 PD	260.0 PDJ	87.0 PD	63.0 PDJ	--	90.0 PD
Endosulfan II	40.0 U	39.0 UJ	--	1100.0 PD	99.0 PD	41.0 JPD	--	--	--
Endosulfan sulfate	40.0 U	39.0 U	45.0 JPD	--	340.0 PD	47.0 JPD	37.0 JPD	22.0 JPD	95.0 PD
4,4'-DDT	24.0 JP	200.0 UJ	--	--	650.0 PDJ	34.0 JPD	140.0 PDJ	280.0 PDJ	590.0 PD
Methoxyclor	210.0 U	200.0 UJ	--	--	--	--	--	36.0 JPD	--
Endrin ketone	40.0 U	39.0 UJ	--	1100.0 PDJ	--	--	36.0 JPD	76.0 PDJ	--
Endrin aldehyde	40.0 U	39.0 UJ	650.0 PD	--	--	--	--	--	--
alpha-Chlordane	21.0 U	20.0 U	--	1100.0 PD	39.0 PD	15.0 JPD	120.0 D	5.6 JPD	7.5 JPD
gamma-Chlordane	21.0 U	20.0 U	210.0 PD	210.0 PD	32.0 PD	8.3 JPD	47.0 PD	8.5 JPD	21.0 JD
Aroclor-1248	400.0 U	390.0 U	31000.0 PD	--	--	--	--	--	--
Aroclor-1254	400.0 U	390.0 U	58000.0 PD	51000.0 PD	1100.0 PD	690.0 PD	510.0 PD	270.0 JPD	--
Aroclor-1260	400.0 U	390.0 U	49000.0 PD	--	--	--	--	400.0 JPD	--
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
INORGANICS									
Aluminum	9320.0	9200.0	11900.0	11000.0	12000.0	14700.0	9830.0	6270.0	10400.0
Antimony	13.6 U	12.3 U	35.8	32.6	19.8	--	--	10.6 B	--
Arsenic	7.2	6.5	45.1	59.5	17.8	9.7	7.4	6.2	7.4
Barium	117.0	116.0	1100.0	840.0	832.0	284.0	163.0	111.0	411.0
Beryllium	0.7 B	0.7 B	2.6	2.0	2.0	1.2 B	0.7 B	0.7 B	1.2 B
Cadmium	4.4	4.9	95.8	106.0	14.5	6.0	4.6	2.5	6.2
Calcium	14400.0	15000.0	42800.0	45000.0	18800.0	7990.0	27300.0	23300.0	11700.0
Chromium	15.6	15.2	536.0	329.0	67.7	58.6	23.5	22.7	30.8
Cobalt	7.8 B	6.2 B	36.7	29.1	12.7 B	110.0	8.5	5.3 B	7.3 B
Copper	36.2	39.6	1310.0	1250.0	241.0	178.0	75.7	51.9	180.0
Iron	15900.0	15700.0	169000.0	141000.0	85900.0	49200.0	20400.0	26900.0	22000.0
Lead	115.0	102.0	3630.0	3890.0	1320.0	212.0	207.0	212.0	887.0
Magnesium	9030.0	9230.0	5320.0	6240.0	1910.0	3740.0	12500.0	10900.0	2290.0
Manganese	394.0	403.0	1920.0	1660.0	634.0	624.0	599.0	877.0	378.0
Mercury	0.1 B	0.1 B	13.9	11.3	0.5	0.5	0.4	0.2	0.2
Nickel	18.3	16.0	599.0	257.0	47.5	27.0	22.4	18.6	25.9
Potassium	1630.0	1590.0	712.0 B	1060.0 B	1850.0	3200.0	2120.0	996.0	2120.0
Selenium	0.3 U	0.2 B	2.6	2.6	2.5	0.8 B	0.3 B	--	--
Silver	1.0 B	0.9 B	3.9	3.8	2.5 B	--	--	--	2.5 B
Sodium	205.0 B	89.2 B	285.0	501.0 B	488.0 B	104.0 B	101.0 B	150.0 B	305.0 B
Thallium	0.5 B	0.4	--	--	1.7 B	0.9 B	0.4 B	0.3 B	0.9 B
Vanadium	29.8	29.1	41.7	60.8	32.0	40.9	28.1	26.1	25.8
Zinc	345.0	383.0	8300.0	8270.0	1650.0	6320.0	567.0	299.0	1260.0
Cyanide	1.0 U	1.0 U	2.8	1.4	--	--	--	--	--
	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Date: 6/25/93

Subject: Review of CLP Data

From: Ron Turpin
Contract Laboratories Administrator
Division of Laboratories

To: Data User: Mark Weber

The Quality Assurance Section has reviewed the following data package(s):

SITE NAME: Lefton Iron + Metal

CASE/SDG No.: 88/333779

Date(s) Received for Review: 12-May-93 17-Jun-93

No. of Samples: 14 soil

Laboratory(s): IEPA

Hours Used for Review: 7.5 + 28 = 35.5 hours

Reviewer(s): Alicia Mudd
Chris Bridges

The following narrative represents our findings:

The results are valid as qualified on the enclosed Forms 1.

- ☐ Data are acceptable for use.
- ☒ Data are acceptable for use with qualifications noted above.
- ☐ Data are preliminary - pending verification by laboratory.
- ☐ Data are unacceptable.

cc: Karl Reed

Tom Crause

IEPA DIVISION OF LABORATORIES
QUALITY ASSURANCE SECTION
INORGANIC DATA VALIDATION
CHECKLIST

Site:	Lefton Iron and Metal
Laboratory:	IEPA Champaign
SDG:	88
Analytical Protocol:	ILM01.0
Date:	May 18, 1993
Reviewer:	Chris Bridges
Reviewer Signature:	Ch Bridges

I. PRELIMINARY REVIEW

Number Aqueous Samples: N\A Analytes:
Number Solid/Soil Samples: 14 Analytes: Trace Metals, Hg, CN

	YES	NO	N/A
A. Chain - of - Custody(ies) Present?	X		
Signed ?	X		
Dated?	X		
B. Cover Page- Present?	X		
Do sample numbers agree with sample numbers on:			
a. Chain - of - Custody Forms?	X		
b. Form 1s?	X		
C. Form 1- Final Data			
Are all Form 1s present and complete?	X		
Are correct units indicated on Form 1s (ug/l-waters & mg/kg-soils)	X		
Are soil sample results corrected for percent solids (dry weight)?	X		
Are sample results < IDL reported as the IDL (U)?	X		

ACTIONS:

NONE

II. HOLDING TIMES & PRESERVATION

			YES	NO	N/A
Mercury (28 Days)	pH < 2	exceeded?	X		
Cyanide (14 Days)	pH > 12	exceeded?	X		
other Metals (6months)	pH < 2	exceeded?	X		

ACTIONS:

NONE

III. CALIBRATIONS

A. Initial Calibration Procedures:

		YES	NO	N/A
Are acceptable 2 point calibrations present for:	ICP?	X		
Are acceptable 4 point calibrations present for:	AA?	X		
Correlation Coefficient > 0.995?		X		
	Cyanide?	X		
Correlation Coefficient > 0.995?		X		
Mid-Range standard distilled?		X		
Are acceptable 4 point calibrations present for:	Mercury?	X		
Correlation Coefficient > 0.995?		X		
Are acceptable calibrations present for other parameters?		X		

ACTIONS: NONE

B. Form 2 - Initial and Continuing Calibration Verification:

All necessary Form 2s present and complete?	X		
ICVs and CCVs analyzed at the correct frequency?	X		
Are results reported in the correct units (ug/l)?	X		
All calibration verification % Recoveries meet criteria?	X		

ACTIONS: (Analyte, % Recovery, Sample(s) affected and Qualifications)

NONE

IV. BLANKS

	YES	NO	N/A
All necessary Form 3s present and complete?	X		
A. Initial and Continuing Calibration Blanks			
Analyzed at correct frequency?	X		
Are results reported in the correct units (ug/l)?	X		
Were transcription errors corrected?	X		
All ICBs and CCBs meet no contamination criteria?	X		

ACTIONS: (ICB or CCB/IDL) Sample(s) affected, qualifications

Se (1.4, 1.3/1.0) X113 and X114 are qualified (U)

Sb (-56.0/55) X101 is qualfied as estimated (J)

Contamination noted in As, Ba, Cd, Ca, Fe, Mg, Na, and Cu however no data is affected

B. Preparation Blanks

	YES	NO	N/A
Was one preparation blank prepared for:			
each 20 samples?	X		
each batch?	X		
each matrix type?			X
Were prep blanks analyzed at the correct frequency?	X		
Were prep blanks reported in the correct concentration units?	X		
Were all transcription errors corrected?	X		
All prep blanks meet no contamination criteria?		X	

ACTIONS: (Analyte, (PB/IDL), Sample(s) affected, Qualifications)

Contamination noted in Al, Ba, Fe, Na, and Zn however no data is affected

V. ICP INTERFERENCE CHECK SAMPLE:

	YES	NO	N/A
Form 4 present and complete?	X		
Were ICS ran at the correct frequency?	X		
Were all transcription errors corrected?	X		
All % Recoveries of ICSAB Solution +/- 20 % of True Value?	X		
For elements not present in ICSA, is the absolute value of the ICSA result greater than the IDL?	X		

ACTIONS: (Analyte, % Recovery, Sample(s) affected, Qualifications)

Pb and Mn results exceed their IDLs however no data is affected

VI. SPIKE SAMPLE RECOVERY:

		YES	NO	N/A
Form 5 present and complete for:	each 20 samples?	X		
	each matrix type?			X
Were all transcription errors corrected?		X		
Were field blanks used for spike sample analysis?			X	
Were all Matrix Spike % Recoveries within criteria?			X	

ACTIONS: (Analyte, % Recovery, Sample(s) affected, Qualifications)

Sb (17.1% R) X103, X104, X105, X106, X107, X108, X108, X110, X113 are qualified as estimated (J)
X101, X102, X111, X112 and X114 are qualified as unuseable (R)

Se (63.9%) X101, X102, X103, X104, X105, X106, X107, X108, X109, X110 , X111, X112, X113 and X114 are qualified as estimated (J)

VII. DUPLICATE SAMPLE ANALYSIS:

		YES	NO	N/A
Form 6 present and complete for:	each 20 samples?	X		
	each matrix type?			X
Were all transcription errors corrected?				X
Were field blanks used for duplicate analysis?			X	
For both AA and ICP when both are used for the same analyte?				X
Were all duplicate analyses differences within criteria?		X		

ACTIONS: (Element, Differences, Sample(s) affected, Qualifications)

NONE

VIII. LABORATORY CONTROL SAMPLE:

(Note: LCS not required for aqueous Hg.)

	YES	NO	N/A
Form 7 Present and Complete?	X		
Was one LCS prepared and analyzed for:			
every 20 or fewer water samples?			X
every digestion batch of water samples?			X
every 20 or fewer solid samples?	X		
every digestion batch of solid samples?	X		
Were all transcription errors corrected?			X
Were all of the Aqueous LCS % Recoveries within criteria?			X
Were all of the Solid LCS % Recoveries within criteria?	X		

ACTIONS: (Element, % Recovery, Sample(s) affected, Qualifications)

NONE

IX. FURNACE ATOMIC ABSORPTION (AA) QC:

	YES	NO	N/A
Did the laboratory utilize duplicate injections for all non-MSAanalyses?	X		
Does the GFAA fow chart appear to have been followed for all analyses?	X		
Did the laboratory properly flag the GFAA results on the Form 1s?	X		

ACTIONS: (Analyte, Sample(s) affected, Qualifications)

Any result flagged 'W' by the laboratory is qualified as estimated (J)

X. ICP SERIAL DILUTION:

Form 9 present and complete?	X		
Was Serial Dilution analysis performed for:			
each 20 or fewer samples	X		
each matrix type?	X		
Were all transcription errors corrected?			X
Were all serial dilution results within criteria?	X		
Were field blanks used for serial dilution analysis?		X	

ACTIONS: (Analyte, Sample(s) affected, Qualifications)

NONE

XI. RAW DATA:

	YES	NO	N/A
Digestion Log for flame AA/ICP present?	X		
Digestion Log for furnace AA present?	X		
Digestion Log for mercury present?	X		
Digestion Log for cyanide present?	X		
Inventory Sheet present?	X		
Weights, dilutions, and volumes used to obtain values present?	X		
Percent solids calculation present for soils (sediments)?	X		
Are preparation dates present on Digestion Logs?	X		
Are standards preparation logs present and dated?	X		
Measurement read out records present for:			
ICP?	X		
Flame AA?			X
Furnace AA?	X		
Mercury?	X		
Cyanide?	X		
other Inorganics?			X
Are all results with the ICP linear ranges?	X		
Are all Mercury results within the calibrated range?	X		
Are all Cyanide results within the calibrated range?	X		
Are all other inorganics within the calibrated range?			X
Sulfate, Sulfide, _____			
Are all raw data to support all sample analyses an QC operations present?	X		
Legible?	X		
Properly labeled?	X		

ACTIONS:

NONE

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LEFTON IRON & METAL
Lab Code: Case No.: SAS No.: SDG No.: 88
Matrix (Soil): Lab Sample ID: B305470
Level (Low/Med): Date Received: 04/16/93
% Solids: 81.0

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9320			P	
7440-36-0	Antimony	13.6	U	N	P	R
7440-38-2	Arsenic	7.2			FM	
7440-39-3	Barium	117			P	
7440-41-7	Beryllium	0.74	B		P	
7440-43-9	Cadmium	4.4	U		P	
7440-70-2	Calcium	14400			P	
7440-47-3	Chromium	15.6			P	
7440-48-4	Cobalt	7.8	B		P	
7440-50-8	Copper	36.2			P	
7439-89-6	Iron	15900			P	
7439-92-1	Lead	115			P	
7439-95-4	Magnesium	9030			P	
7439-96-5	Manganese	394			P	
7439-97-6	Mercury	0.09	B		AV	
7440-02-2	Nickel	18.3			P	
7440-09-7	Potassium	1630			P	
7782-49-2	Selenium	0.25	U	W,N	FM	J
7440-22-4	Silver	1.0	B		P	
7440-23-5	Sodium	205	B		P	
7440-28-0	Thallium	0.49	B		FM	
7440-62-2	Vanadium	29.8			P	
7440-66-6	Zinc	345			P	
	Cyanide	1.0	U		AS	
					AS	

Color Before: Brown Clarity Before: Opaque Texture: Fine
Color After: Colorless Clarity After: Clear Artifacts:
nments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LEFTON IRON & METAL
Lab Code: Case No.: SAS No.: SDG No.: 88
Matrix (Soil): Lab Sample ID: B305471
Level (Low/Med): Date Received: 04/16/93
% Solids: 80.2

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	~~92000~~ 9200.0			P	
7440-36-0	Antimony	12.3	U	N	P	R
7440-38-2	Arsenic	6.5			FM	
7440-39-3	Barium	116			P	
7440-41-7	Beryllium	0.71	B		P	
7440-43-9	Cadmium	4.9			P	
7440-70-2	Calcium	15000			P	
7440-47-3	Chromium	15.2			P	
7440-48-4	Cobalt	6.2	B		P	
7440-50-8	Copper	39.6			P	
7439-89-6	Iron	15700			P	
7439-92-1	Lead	102			P	
7439-95-4	Magnesium	9230			P	
7439-96-5	Manganese	403			P	
7439-97-6	Mercury	0.08	B		AV	
7440-02-2	Nickel	16.0			P	
7440-09-7	Potassium	1590			P	
7782-49-2	Selenium	0.23	U	W,N	FM	J
7440-22-4	Silver	0.88	B		P	
7440-23-5	Sodium	89.2	B		P	
7440-28-0	Thallium	0.41	B		FM	
7440-62-2	Vanadium	29.1			P	
7440-66-6	Zinc	383			P	
	Cyanide	1.0	U		AS	
					AS	

Color Before: Brown Clarity Before: Opaque Texture: Fine
Color After: Colorless Clarity After: Clear Artifacts:
Comments:

B000003

FORM I - IN
SOIL

3/90

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LEFTON IRON & METAL
Lab Code: Case No.: SAS No.: SDG No.: 88
Matrix (Soil): Lab Sample ID: B305472
Level (Low/Med): Date Received: 04/16/93
% Solids: 80.0

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	67700			P	
7440-36-0	Antimony	35.6		N	P	J
7440-38-2	Arsenic	223		S	FM	
7440-39-3	Barium	2170			P	
7440-41-7	Beryllium	2.5			P	
7440-43-9	Cadmium	256			P	
7440-70-2	Calcium	45100			P	
7440-47-3	Chromium	513			P	
7440-48-4	Cobalt	54.2			P	
7440-50-8	Copper	4820			P	
7439-89-6	Iron	130000			P	
7439-92-1	Lead	2270			P	
7439-95-4	Magnesium	13500			P	
7439-96-5	Manganese	2020			P	
7439-97-6	Mercury	32.4			AV	
7440-02-2	Nickel	263			P	
7440-09-7	Potassium	778	B		P	
7782-49-2	Selenium	3.6		S,N	FM	J
7440-22-4	Silver	3.6			P	
7440-23-5	Sodium	481	B		P	
7440-28-0	Thallium	1.22	U		FM	
7440-62-2	Vanadium	90.4			P	
7440-66-6	Zinc	6330			P	
	Cyanide	1.4			AS	
					AS	

Color Before: Brown Clarity Before: Opaque Texture: Fine
Color After: Colorless Clarity After: Clear Artifacts:
mments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LEFTON IRON & METAL
Lab Code: Case No.: SAS No.: SDG No.: 88
Matrix (Soil): Lab Sample ID: B305473
Level (Low/Med): Date Received: 04/16/93
% Solids: 59.3

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12400			P	
7440-36-0	Antimony	89.2		N	P	J
7440-38-2	Arsenic	45.3			FM	
7440-39-3	Barium	1200			P	
7440-41-7	Beryllium	2.5			P	
7440-43-9	Cadmium	289			P	
7440-70-2	Calcium	33500			P	
7440-47-3	Chromium	570			P	
7440-48-4	Cobalt	40.2			P	
7440-50-8	Copper	2060			P	
7439-89-6	Iron	229000			P	
7439-92-1	Lead	12500			P	
7439-95-4	Magnesium	7580			P	
7439-96-5	Manganese	2010			P	
7439-97-6	Mercury	6.1			AV	
7440-02-2	Nickel	553			P	
7440-09-7	Potassium	800	B		P	
7782-49-2	Selenium	1.5	B	S,N	FM	J
7440-22-4	Silver	3.2			P	
7440-23-5	Sodium	1100	B		P	
7440-28-0	Thallium	1.75	U	W	FM	J
7440-62-2	Vanadium	34.0			P	
7440-66-6	Zinc	8330			P	
	Cyanide	1.5			AS	
					AS	

Color Before: Brown Clarity Before: Opaque Texture: Medium
Color After: Green Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LEFTON IRON & METAL
Lab Code: Case No.: SAS No.: SDG No.: 88
Matrix (Soil): Lab Sample ID: B305474
Level (Low/Med): Date Received: 04/16/93
% Solids: 71.1

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	7800			P	
7440-36-0	Antimony	66.7		N	P	J
7440-38-2	Arsenic	110			FM	
7440-39-3	Barium	1350			P	
7440-41-7	Beryllium	1.2	B		P	
7440-43-9	Cadmium	119			P	
7440-70-2	Calcium	21000			P	
7440-47-3	Chromium	191			P	
7440-48-4	Cobalt	121			P	
7440-50-8	Copper	2600			P	
7439-89-6	Iron	130000			P	
7439-92-1	Lead	4200			FM	
7439-95-4	Magnesium	5370			P	
7439-96-5	Manganese	1470			P	
7439-97-6	Mercury	3.0			AV	
7440-02-2	Nickel	~~185~~ 225 CB			P	
7440-09-7	Potassium	651	B		P	
7782-49-2	Selenium	1.3	B	S,N	FM	J
7440-22-4	Silver	10.0			P	
7440-23-5	Sodium	1180	B		P	
7440-28-0	Thallium	0.30	U		FM	
7440-62-2	Vanadium	32.0			P	
7440-66-6	Zinc	5560			P	
	Cyanide	4.4			AS	
					AS	

Color Before: Brown Clarity Before: Opaque Texture: Medium
Color After: Green Clarity After: Clear Artifacts:
Comments:

600006

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LEFTON IRON & METAL0
Lab Code: Case No.: SAS No.: SDG No.: 88
Matrix (Soil): Lab Sample ID: B305475
Level (Low/Med): Date Received: 04/16/93
% Solids: 82.7

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9000			P	
7440-36-0	Antimony	13.8		N	P	J
7440-38-2	Arsenic	36.5			FM	
7440-39-3	Barium	1070			P	
7440-41-7	Beryllium	1.6	B		P	
7440-43-9	Cadmium	56.9			P	
7440-70-2	Calcium	38500			P	
7440-47-3	Chromium	320			P	
7440-48-4	Cobalt	22.4			P	
7440-50-8	Copper	1690			P	
7439-89-6	Iron	173000			P	
7439-92-1	Lead	3180			P	
7439-95-4	Magnesium	9070			P	
7439-96-5	Manganese	1870			P	
7439-97-6	Mercury	7.0			AV	
7440-02-2	Nickel	422			P	
7440-09-7	Potassium	958	B		P	
7782-49-2	Selenium	3.6		S,N	FM	J
7440-22-4	Silver	13.8			P	
7440-23-5	Sodium	400	B		P	
7440-28-0	Thallium	0.24	U	W	FM	J
7440-62-2	Vanadium	34.6			P	
7440-66-6	Zinc	6560			P	
	Cyanide	1.0	U		AS	
					AS	

Color Before: Brown Clarity Before: Opaque Texture: Medium
Color After: Green Clarity After: Clear Artifacts:
mments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LEFTON IRON & METAL
Lab Code: Case No.: SAS No.: SDG No.: 88
Matrix (Soil): Lab Sample ID: B305476
Level (Low/Med): Date Received: 04/16/93
% Solids: 84.0

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	8290			P	
7440-36-0	Antimony	22.9		N	P	J
7440-38-2	Arsenic	30.4			FM	
7440-39-3	Barium	625			P	
7440-41-7	Beryllium	1.8			P	
7440-43-9	Cadmium	40.5			P	
7440-70-2	Calcium	68700			P	
7440-47-3	Chromium	402			P	
7440-48-4	Cobalt	23.1			P	
7440-50-8	Copper	1230			P	
7439-89-6	Iron	143000			P	
7439-92-1	Lead	1910			P	
7439-95-4	Magnesium	7370			P	
7439-96-5	Manganese	1620			P	
7439-97-6	Mercury	3.6			AV	
7440-02-2	Nickel	723			P	
7440-09-7	Potassium	1010	B		P	
7782-49-2	Selenium	3.0		S,N	FM	J
7440-22-4	Silver	1.7	B		P	
7440-23-5	Sodium	517	B		P	
7440-28-0	Thallium	1.12	U		FM	
7440-62-2	Vanadium	58.9			P	
7440-66-6	Zinc	3020			P	
	Cyanide	0.99	U		AS	
					AS	

Color Before: Brown Clarity Before: Opaque Texture: Medium
Color After: Colorless Clarity After: Clear Artifacts:
mments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LEFTON IRON & METAL
Lab Code: Case No.: SAS No.: SDG No.: 88
Matrix (Soil): Lab Sample ID: B305477
Level (Low/Med): Date Received: 04/16/93
% Solids: 84.3

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	11900			P	
7440-36-0	Antimony	35.8		N	P	J
7440-38-2	Arsenic	45.1			FM	
7440-39-3	Barium	1100			P	
7440-41-7	Beryllium	2.6			P	
7440-43-9	Cadmium	95.8			P	
7440-70-2	Calcium	42800			P	
7440-47-3	Chromium	536			P	
7440-48-4	Cobalt	36.7			P	
7440-50-8	Copper	1310			P	
7439-89-6	Iron	169000			P	
7439-92-1	Lead	3630			P	
7439-95-4	Magnesium	5320			P	
7439-96-5	Manganese	1920			P	
7439-97-6	Mercury	13.9			AV	
7440-02-2	Nickel	599			P	
7440-09-7	Potassium	712	B		P	
7782-49-2	Selenium	2.6		N	FM	J
7440-22-4	Silver	3.9			P	
7440-23-5	Sodium	285	B		P	
7440-28-0	Thallium	1.16	U		FM	
7440-62-2	Vanadium	41.7			P	
7440-66-6	Zinc	8300			P	
	Cyanide	2.8			AS	
					AS	

Color Before: Black Clarity Before: Opaque Texture: Fine
Color After: Green Clarity After: Clear Artifacts:
Comments:

B000009

FORM I - IN

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LEFTON IRON & METAL
Lab Code: Case No.: SAS No.: SDG No.: 88
Matrix (Soil): Lab Sample ID: B305478
Level (Low/Med): Date Received: 04/16/93
% Solids: 82.6

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	11000			P	
7440-36-0	Antimony	32.6		N	P	J
7440-38-2	Arsenic	59.5			FM	
7440-39-3	Barium	840			P	
7440-41-7	Beryllium	2.0			P	
7440-43-9	Cadmium	106			P	
7440-70-2	Calcium	45000			P	
7440-47-3	Chromium	329			P	
7440-48-4	Cobalt	29.1			P	
7440-50-8	Copper	1250			P	
7439-89-6	Iron	141000			P	
7439-92-1	Lead	3890			P	
7439-95-4	Magnesium	6240			P	
7439-96-5	Manganese	1660			P	
7439-97-6	Mercury	11.3			AV	
7440-02-2	Nickel	257			P	
7440-09-7	Potassium	1060	B		P	
7782-49-2	Selenium	2.6		W,N	FM	J
7440-22-4	Silver	3.8			P	
7440-23-5	Sodium	501	B		P	
7440-28-0	Thallium	1.2	U		FM	
7440-62-2	Vanadium	60.8			P	
7440-66-6	Zinc	6270			P	
	Cyanide	1.4			AS	
					AS	

Color Before: Black Clarity Before: Opaque Texture: Fine
Color After: Green Clarity After: Clear Artifacts:
Comments:

600010

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LEFTON IRON & METAL
Lab Code: Case No.: SAS No.: SDG No.: 88
Matrix (Soil): Lab Sample ID: B305479
Level (Low/Med): Date Received: 04/16/93
% Solids: 66.6

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12000			P	
7440-36-0	Antimony	19.8		N	P	J
7440-38-2	Arsenic	17.8			FM	
7440-39-3	Barium	832			P	
7440-41-7	Beryllium	2.0			P	
7440-43-9	Cadmium	14.5			P	
7440-70-2	Calcium	18800			P	
7440-47-3	Chromium	67.7			P	
7440-48-4	Cobalt	12.7	B		P	
7440-50-8	Copper	241			P	
7439-89-6	Iron	85900			P	
7439-92-1	Lead	1320			P	
7439-95-4	Magnesium	1910			P	
7439-96-5	Manganese	634			P	
7439-97-6	Mercury	0.50			AV	
7440-02-2	Nickel	47.5			P	
7440-09-7	Potassium	1850			P	
7782-49-2	Selenium	2.5		S,N	FM	J
7440-22-4	Silver	2.5	B		P	
7440-23-5	Sodium	488	B		P	
7440-28-0	Thallium	1.67	B	W	FM	J
7440-62-2	Vanadium	32.0			P	
7440-66-6	Zinc	1650			P	
	Cyanide	1.2	U Ca	~~U~~	AS	
					AS	

Color Before: Black Clarity Before: Opaque Texture: Fine
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

FORM I - IN

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X111

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LEFTON IRON & METAL
Lab Code: Case No.: SAS No.: SDG No.: 88
Matrix (Soil): Lab Sample ID: B305480
Level (Low/Med): Date Received: 04/16/93
% Solids: 56.0

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	14700			P	
7440-36-0	Antimony	17.2	U	N	P	R
7440-38-2	Arsenic	9.7			FM	
7440-39-3	Barium	284			P	
7440-41-7	Beryllium	1.2	B		P	
7440-43-9	Cadmium	6.0			P	
7440-70-2	Calcium	7990			P	
7440-47-3	Chromium	58.6			P	
7440-48-4	Cobalt	110			P	
7440-50-8	Copper	178			P	
7439-89-6	Iron	49200			P	
7439-92-1	Lead	212			P	
7439-95-4	Magnesium	3740			P	
7439-96-5	Manganese	624			P	
7439-97-6	Mercury	0.47			AV	
7440-02-2	Nickel	27.0			P	
7440-09-7	Potassium	3200			P	
7782-49-2	Selenium	0.78	B	W,N	FM	J
7440-22-4	Silver	0.94	U		P	
7440-23-5	Sodium	104	B		P	
7440-28-0	Thallium	0.85	B		FM	
7440-62-2	Vanadium	40.9			P	
7440-66-6	Zinc	6320			P	
	Cyanide	1.5	U		AS	
					AS	

Color Before: Black Clarity Before: Opaque Texture:
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LEFTON IRON & METAL
Lab Code: Case No.: SAS No.: SDG No.: 88
Matrix (Soil): Lab Sample ID: B305481
Level (Low/Med): Date Received: 04/16/93
% Solids: 72.2

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9830			P	
7440-36-0	Antimony	14.9	U	N	P	R
7440-38-2	Arsenic	7.4			FM	
7440-39-3	Barium	163			P	
7440-41-7	Beryllium	0.72	B		P	
7440-43-9	Cadmium	4.6			P	
7440-70-2	Calcium	27300			P	
7440-47-3	Chromium	23.5			P	
7440-48-4	Cobalt	8.54			P	
7440-50-8	Copper	75.7			P	
7439-89-6	Iron	20400			P	
7439-92-1	Lead	207			P	
7439-95-4	Magnesium	12500			P	
7439-96-5	Manganese	599			P	
7439-97-6	Mercury	0.39			AV	
7440-02-2	Nickel	22.4			P	
7440-09-7	Potassium	2120			P	
7782-49-2	Selenium	0.31	B	W,N	FM	J
7440-22-4	Silver	0.81	U		P	
7440-23-5	Sodium	101	B		P	
7440-28-0	Thallium	0.36	B		FM	
7440-62-2	Vanadium	28.1			P	
7440-66-6	Zinc	567			P	
	Cyanide	1.2	U		AS	
					AS	

Color Before: Brown Clarity Before: Opaque Texture: Fine
Color After: Green Clarity After: Clear Artifacts:
Comments:

B000013

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LEFTON IRON & METAL
Lab Code: Case No.: SAS No.: SDG No.: 88
Matrix (Soil): Lab Sample ID: B305482
Level (Low/Med): Date Received: 04/16/93
% Solids: 76.2

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	6270			P	
7440-36-0	Antimony	10.6	B	N	P	J
7440-38-2	Arsenic	6.2			FM	
7440-39-3	Barium	111			P	
7440-41-7	Beryllium	0.65	B		P	
7440-43-9	Cadmium	2.5			P	
7440-70-2	Calcium	23300			P	
7440-47-3	Chromium	22.7			P	
7440-48-4	Cobalt	5.3	B		P	
7440-50-8	Copper	51.9			P	
7439-89-6	Iron	26900			P	
7439-92-1	Lead	212			P	
7439-95-4	Magnesium	10900			P	
7439-96-5	Manganese	877			P	
7439-97-6	Mercury	0.18			AV	
7440-02-2	Nickel	18.6			P	
7440-09-7	Potassium	996			P	
7782-49-2	Selenium	0.29	U	W,N	FM	J
7440-22-4	Silver	0.54	U		P	
7440-23-5	Sodium	150	B		P	
7440-28-0	Thallium	0.32	B	W	FM	J
7440-62-2	Vanadium	26.1			P	
7440-66-6	Zinc	299			P	
	Cyanide	1.1	U		AS	
					AS	

Color Before: Brown Clarity Before: Opaque Texture: Fine
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

b000014

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X114

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LEFTON IRON & METAL
Lab Code: Case No.: SAS No.: SDG No.: 88
Matrix (Soil): Lab Sample ID: B305483
Level (Low/Med): Date Received: 04/16/93
% Solids: 67.0

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	10400			P	
7440-36-0	Antimony	16.1	U	N	P	R
7440-38-2	Arsenic	7.4			FM	
7440-39-3	Barium	411			P	
7440-41-7	Beryllium	1.2	B		P	
7440-43-9	Cadmium	6.2			P	
7440-70-2	Calcium	11700			P	
7440-47-3	Chromium	30.8			P	
7440-48-4	Cobalt	7.3	B		P	
7440-50-8	Copper	180			P	
7439-89-6	Iron	22000			P	
7439-92-1	Lead	887			P	
7439-95-4	Magnesium	2290			P	
7439-96-5	Manganese	378			P	
7439-97-6	Mercury	0.24			AV	
7440-02-2	Nickel	25.9			P	
7440-09-7	Potassium	2120			P	
7782-49-2	Selenium	0.43	~~B~~ U	W,N	FM	J
7440-22-4	Silver	2.5	B		P	
7440-23-5	Sodium	305	B		P	
7440-28-0	Thallium	0.90	B	W	FM	J
7440-62-2	Vanadium	25.8			P	
7440-66-6	Zinc	1260			P	
	Cyanide	1.2	U		AS	
					AS	

Color Before: Black Clarity Before: Opaque Texture: Fine
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

b000015

FORM I - IN

Data Validation Checklist
Site Name: Lefton Iron
SDG No.: 333779
Laboratory: IEPA
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PRELIMINARY REVIEW

1. *Chain-of-Custody*

	YES	NO	
a.	[X]	[ ]	Check chain-of-custody documentation for date/time sampled, date/time received in laboratory.
b.	[X]	[ ]	Check chain-of-custody documentation for proper documentation of transfers and signoffs.
c.	[X]	[ ]	Check chain-of-custody documentation for any inconsistencies or anomalies.

Comments: None.

2. *Case Narrative*

	YES	NO	
a.	[X]	[ ]	Review entire case narrative.
b.	[X]	[ ]	Check case narrative for completeness.
c.	[X]	[ ]	Check for proper authorization signature.

Comments: None.

Data Validation Checklist
Site Name: Lefton Iron
SDG No.: 333779
Laboratory: IEPA
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I. Holding Times

YES NO
[X] [ ] Check that all technical and/or contractual holding times were met, as required, for all fractions.

EPA Number	Lab Number	Date Coll.	Date Rec'd.	VOA Date Anal.	Semi-VOA Date Extr	Semi-VOA Date Anal.	Pesticide Date Extr	Pesticide Date Anal.
X101	-779	4/13/93	4/14/93	4/15/93	4/15/93	4/22/93	4/14/93	5/4/93
X102	-780			4/15	4/15	4/22		
X103	-781			4/15	4/16	5/4		
X104	-782			4/20	4/16	5/4		
X105	-783			4/15	4/16	5/4		
X106	-784			4/15	4/16	5/4		
X107	-785			4/20	4/15	4/23		
X108	-786			4/16	4/15	4/23		
X109	-787			4/16	4/16	5/4		5/5
X110	-788			4/16	4/16	5/4		5/5
X111	-789			4/16	4/15	4/22		5/4
X112	-790	4/14		4/16	4/15	4/22		5/5
X113	-791	4/14		4/16	4/15	5/5		5/5
X114	-792	4/14		4/16	4/15	4/23		5/4
X106RE				4/15	NA			
X108RE				4/20	NA			
X109RE				4/20	NA			
X110RE				4/20	NA			
X107DL					4/15	5/5	4/14	5/4

List below all samples (by sample number and fraction) qualified due to holding times.

All technical holding times met.

Data Validation Checklist
Site Name: Lefton Iron
SDG No.: 333779
Laboratory: IEPA
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I. Holding Times

YES NO
[X] [ ] Check that all technical and/or contractual holding times were met, as required, for all fractions.

EPA Number	Lab Number	Date Coll.	Date Rec'd.	VOA Date Anal.	Semi-VOA Date Extr	Semi-VOA Date Anal.	Pesticide Date Extr	Pesticide Date Anal.
X101DL				NA	→	→	4/14/93	5/5/93
X102DL				↓	NA	NA	↓	5/5
X103DL				↓	↓	↓	↓	5/4
X104DL				↓	↓	↓	↓	5/4
X105DL				↓	↓	↓	↓	5/4
X106DL				↓	↓	↓	↓	5/4
X108DL				↓	↓	↓	↓	5/4
X109DL				↓	↓	↓	↓	5/~~4~~5
X110DL				↓	↓	↓	↓	5/5
X111DL				↓	↓	↓	↓	5/5
X112DL				↓	↓	↓	↓	5/5
X113DL				↓	↓	↓	↓	5/5
X114DL				↓	↓	↓	↓	5/5

List below all samples (by sample number and fraction) qualified due to holding times.

All technical holding times met.

Data Validation Checklist
Site Name: Lefton Iron
SDG No.: 333779
Laboratory: IEPA
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II. GC/MS Instrument Performance Check

Fraction: (VOA) SemiVOA (*circle one*)

1. Evaluate Forms V and Raw Data

	YES	NO	
a.	[X]	[ ]	Check that Forms V are present and completed for each 12 hour time period.
b.	[X]	[ ]	Check for transcription errors between raw data and Forms V.
c.	[X]	[ ]	Check that the appropriate number of significant figures has been reported and that rounding errors have not occurred.
d.	[X]	[ ]	Check for calculation errors.

2. Verify Raw Data Format

YES	NO	
[X]	[ ]	Check mass spectral listing to determine that the mass assignment is correct and that the mass listing is normalize to the specified ion (m/z 95 for VOA, m/z 198 for SemiVOA).

3. Verify Ion Abundance Criteria

YES	NO	
[X]	[ ]	Check that all ion abundance criteria has been met.

4. Verify Background Correction

YES	NO	
[X]	[ ]	Check that tuning compound spectra were generated using appropriate background correction.

Comments: None.

Data Validation Checklist
Site Name: Lefton Iron
SDG
No.: 333779
Laboratory: IEPA
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III. Initial Calibration

GC/MS

Fraction: VOA SemiVOA (*circle one*)

1. ***Verify that the Correct Standard Concentrations Were Used.***

YES	NO	
[X]	[ ]	Check the Forms VI and the raw data to verify that the correct standard concentrations were used to calibrate the GC/MS instrument(s).

2. ***Verify that the Correct Initial Calibration was Used for Water and Low Level Soils.***

YES	NO	N/A	
[X]	[ ]	[ ]	Check that initial calibrations were performed as required for water/med. level soil and low level soil.

3. ***Verify Use of Correct Standards.***

YES	NO	N/A	
[ ]	[ ]	[X]	Check that the correct standard was used for quantitation of samples, if samples were analyzed immediately subsequent to initial calibration.

4. ***Evaluate Initial Calibration*** RRFs ***and*** $\overline{\text{RRF}}$s.

	YES	NO	
a.	[X]	[ ]	Check and recalculate the RRFs and $\overline{\text{RRF}}$s for several target compounds (at least one associated with each internal standard).
b.	[X]	[ ]	Check that, for all target compounds and surrogates, the $\overline{\text{RRF}}$s meet the applicable criteria. Note any "outliers" on the Calibration Outliers Form.

5. ***Evaluate Initial Calibration %RSDs.***

	YES	NO	
a.	[X]	[ ]	Check and recalculate the *%RSD* for several target compounds.
b.	[X]	[ ]	Check that the applicable *%RSD* criteria have been met. Note any "outliers" on the Calibration Outliers Form.

Comments: None.

IV. Continuing Calibration

GC/MS

Fraction: (VOA) SemiVOA (*circle one*)

1. Verify Continuing Calibration Frequency.

YES	NO	
[X]	[ ]	Check the continuing calibration raw data and Forms VII to verify that continuing calibration standards were analyzed at the proper frequency and that each continuing calibration was compared to the appropriate initial calibration.

2. Evaluate Continuing Calibration RRFs.

	YES	NO	
a.	[X]	[ ]	Check and recalculate the continuing calibration *RRFs* for several compounds.
b.	[X]	[ ]	Check that all target compound and surrogate *RRFs* meet the criteria.

3. Evaluate Continuing Calibration %Ds.

	YES	NO	
a.	[X]	[ ]	Check and recalculate the continuing calibration *%Ds* for several compounds.
b.	[X]	[ ]	Check that all target compound and surrogate *%Ds* meet the applicable criteria.

Comments: None.

VOLATILE CALIBRATION OUTLIERS

3/90 SOW

Lab Name: IEPA

Case: Lefton Iron 333779

Instrument # 5100B	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	4/14/93 1021			4/15/93 1006			4/16/93 ~~1153~~ 1444			4/20/93 1110					
heated		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Chloromethane	0.010								27.4	J						
Bromomethane	0.100															
Vinyl Chloride	0.100															
Chloroethane	0.010															
Methylene Chloride	0.010															
Acetone	0.010															
Carbon Disulfide	0.010															
1,1-Dichloroethene	0.100															
1,1-Dichloroethane	0.200															
2-Dichloroethene (total)	0.010															
Chloroform	0.200															
1,2-Dichloroethane	0.100															
2-Butanone	0.010															
1,1,1-Trichloroethane	0.100															
Carbon Tetrachloride	0.100															
Bromodichloromethane	0.200															
1,2-Dichloropropane	0.010															
s-1,3-Dichloropropene	0.200															
Trichloroethene	0.300															
Dibromochloromethane	0.100															
1,1,2-Trichloroethane	0.100															
Benzene	0.500															
trans-1,3-Dichloropropene	0.100															
Bromoform	0.100															
4-Methyl-2-Pentanone	0.010															
Hexanone	0.010															
Tetrachloroethene	0.200															
1,1,2,2-Tetrachloroethane	0.500															
Toluene	0.400															
Chlorobenzene	0.500															
Ethylbenzene	0.100															
Styrene	0.300															
Xylene(total)	0.300															
Bromofluorobenzene	0.300															

AFFECTED SAMPLES:

VBLKSL1	VBLKSL2	VBLKSL3
X101	X108	X104
X102	X109	X107
X103	X112	X108RE
X105	X110	X109RE
X106	X113	X110RE
X106RE	X114	
X101MS	X111	
X101MSD		

Reviewer's Initials/Date: Ann 6/21/93

Q - This column of flags should be applied to the analytes on the sample data sheets.

Data Validation Checklist
Site Name: Lefton Iron
SDG No.: 333779
Laboratory: IEPA
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V. Blanks

Fraction: (VOA) SemiVOA Pest. (*circle one*)

1. ***Review Blank Results.***

YES NO
[X] [ ] Check all associated blanks for the presence of TCL compounds or TICs. Note all contaminated blanks and associated samples below.

2. ***Verify Blank Frequency.***

YES NO
[X] [ ] Check that blank analyses have been performed at the required frequency.

Blank Summary

Blank Sample No.	VBLKSL1	VBLKSL2	VBLKSL3	
Date Anal./or Extr.	4/15/93	4/16/93	4/20/93	
Instrument	5100B	5100B	5100B	

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount
MeCl2	2	MeCl2	3	MeCl2	3		
		Chloroform	3	Acetone	7		
				2-But	2		

TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount
				Methane thiobis RT 5.95	14		
		Methane-thiobis RT 5.85	13				

Data Validation Checklist
Site Name: Lefton Chem
SDG No.: 333779
Laboratory: IEPA
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VI. Surrogate Spikes

GC/MS

Fraction: (VOA) SemiVOA (*circle one*)

1. ***Review Raw Data.***

YES NO
[X] [ ] Check raw data to verify that the recoveries on the Form II are accurate and within the limits.

2. ***Evaluate Surrogate Recovery Calculations.***

YES NO
[X] [ ] Check that the surrogate spike recoveries were calculated correctly and are free from transcription errors.

3 ***Evaluate Surrogate Recoveries.***

YES NO
a. [X] [ ] Check that reanalyses were performed as required.

b. [X] [ ] Check that surrogate recoveries in blanks met criteria.

4. ***Evaluate Reanalyses.***

YES NO
[X] [ ] Whenever there are two or more analyses for a particular sample, determine which are the best analyses to use. This determination must be performed in conjunction with the evaluation of the internal standard area response criteria. List below the results of the reviewers determinations.

Comments:
X106, X106RE, X110RE, X101MS, X101MSD - 1,2-Dichloroethane-d4 high %R

4) Use X108 instead of X108RE
Use X109 instead of X109RE
Use X110 instead of X110RE
Use X106 instead of X106RE

Data Validation Checklist
Site Name: Lefton Iron
SDG No.: 333779
Laboratory: IEPA
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VII. Matrix Spikes/Matrix Spike Duplicates

Fraction: (VOA) SemiVOA Pesticide (*circle one*)

1. ***Verify Frequency***

YES NO
[X] [ ] Check that MS and MSD samples were analyzed at the correct frequency.

2. ***Evaluate MS/MSD Criteria.***

YES NO
[X] [ ] Check MS/MSD results for *%R* and *RPD* are within the advisory limits.

3. ***Verify MS/MSD Calculations.***

YES NO
a. [X] [ ] Check raw data and verify that results are calculated correctly and are free from transcription errors.

b. [X] [ ] Check that *%Rs* and *RPDs* were calculated correctly.

4. ***Evaluate Sample Precision.***

YES NO
[X] [ ] Compare *%RSD* results of non-spiked compounds between the original result, MS and MSD.

X101 Compound	Orig. Result	MS Result	MSD Result	%RSD
Methylene chloride	3	5	5	27%
Acetone	6	U	U	—

Comments:
None.

Data Validation Checklist
Site Name: Lefton Iron
SDG No.: 333779
Laboratory: IEPA
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X. Internal Standards

GC/MS

Fraction: (VOA) SemiVOA (*circle one*)

1. ***Evaluate Raw Data.***

YES NO
[X] [ ] Check raw data and verify that the internal standard retention times and areas reported on the Forms VIII are correct.

2. ***Verify RT and IS Area Criteria.***

YES NO
[X] [ ] Check that retention times and internal standard area meet the appropriate criteria.

3. ***Evaluate Reanalyses.***

YES NO
[X] [ ] Whenever there are two or more analyses for a particular sample, determine which are the best analyses to use. This determination must be performed in conjunction with the evaluation of the surrogate spike recovery criteria. List the results of the reviewers determinations in Section VI., Surrogate Spikes.

Comments:
- X108 - Chlorobenzene d5 low area
- X109 - Chlorobenzene d5 low area
- X110 Chlorobenzene d5 low area
- X108RE 1,4-Difluorobenzene & Chlorobenzene d5 low area
- X109RE 1,4-Difluorobenzene & Chlorobenzene d5 low area
- X110RE Chlorobenzene d5 low area

XI. Target Compound Identification

GC/MS

Fraction: (VOA) SemiVOA (*circle one*)

1. ***Verify Relative Retention Time (RRT) Criteria.***

   YES NO
   [X] [ ] Check that the RRT of reported compounds is within the criteria.

2. ***Evaluate Target Compound Spectra.***

   YES NO
   [X] [ ] Check the sample target compound spectra against the laboratory standard spectra; verify that the specified criteria are met.

3. ***Evaluate Possible Carryover.***

   YES NO
   [X] [ ] Check the raw data of the samples as related to the samples analyzed previously to verify that sample carryover has not adversely affected results.

4. ***Evaluate Chromatograms.***

   YES NO
   [X] [ ] Check the sample chromatograms to verify that peaks are accounted for.

Comments: None.

XII. Compound Quantitation and Reported CRQLs

Fraction: VOA SemiVOA Pesticide (*circle one*)

1. ***Evaluate Quantitation of Sample Results.***

YES	NO	
[X]	[ ]	Check raw data to verify calculation of sample results.

2. ***Evaluate Quantitation Parameters.***

YES	NO	N/A	
[X]	[ ]	[ ]	For GC/MS analyses, check that the correct internal standard, quantitation ion, and *RRF* were used to quantitate results. Verify that the same internal standard, quantitation ion, and *RRF* are used throughout, in both the calibration and as well as the quantitation process.

3. ***Evaluate CRQLs.***

YES	NO	
[X]	[ ]	Check that the CRQLs have been adjusted to reflect all sample dilutions, concentrations, splits, cleanup activities, and dry weight factors.

Comments: None.

XIII. Tentatively Identified Compounds

GC/MS Only

Fraction: (VOA) SemiVOA (*circle one*)

1. ***Evaluate Tentative Identifications.***

YES	NO	
[X]	[ ]	Check that all TICs reported meet the identification guidelines.

2. ***Evaluate Raw Data.***

YES	NO	
[X]	[ ]	Check raw data to verify that the laboratory has generated a library search for all required peaks in the chromatograms for samples and blanks.

3. ***Evaluate Blanks.***

YES	NO	
[X]	[ ]	Check blank sample chromatograms to verify that TIC peaks present in samples are not found in blanks.

4. ***Examine Mass Spectra.***

YES	NO	
[X]	[ ]	Check all mass spectra for every sample.

5. ***Evaluate TIC Identifications.***

YES	NO	
[X]	[ ]	Since TIC library searches often yield several candidate compounds, all reasonable choices must be considered.

6. ***Evaluate Laboratory Artifacts and Contaminants.***

YES	NO	
[X]	[ ]	Check sample results and raw data to verify that common laboratory artifacts and contaminants are not reported as sample contaminants.

XIII. TICs continued

7. ***Evaluate Possibility of False Negatives.***

	YES	NO	N/A	
a.	[X]	[ ]	[ ]	Check to determine if target compounds have been identified and quantitated as TICs.
b.	[ ]	[ ]	[X]	If target compounds have been identified and quantitated as TICs, check to determine whether the false negative is an isolated occurrence or whether additional data may be affected. Comment on all such false negatives below.

8. ***Determine That Results Are From Proper Fraction.***

YES	NO	N/A	
[ ]	[ ]	[X]	Target compounds could be identified in more than one fraction; if this occurs, check that quantitation is from the proper fraction.

9. ***Verify That Internal Standards And Surrogates Are Not Searched.***

YES	NO	
[X]	[ ]	Check that library searches were not performed on internal standards or surrogates.

10. ***Verify Estimated Quantitation of TICs.***

YES	NO	
[X]	[ ]	Check that the estimated concentration of the TICs was made using an assumed *RRF* of one.

Comments: None.

XIV. GC/MS System Performance

Fraction: (VOA) SemiVOA (*circle one*)

1. Evaluate Overall System Performance.

	YES	NO	
a.	[X]	[ ]	Check for high RIC background levels or shifts in absolute retention times of internal standards.
b.	[X]	[ ]	Check for excessive baseline rise at elevated temperature.
c.	[X]	[ ]	Check for extraneous peaks.
d.	[X]	[ ]	Check for loss of resolution.
e.	[X]	[ ]	Check for peak tailing or peak splitting that may result in inaccurate quantitation.

Comments: None

Data Validation Checklist
Site Name: Leftondun
SDG No.: 333779
Laboratory: IEPA
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II. GC/MS Instrument Performance Check

Fraction: VOA (SemiVOA) *(circle one)*

1. ***Evaluate Forms V and Raw Data***

	YES	NO	
a.	[X]	[ ]	Check that Forms V are present and completed for each 12 hour time period.
b.	[X]	[ ]	Check for transcription errors between raw data and Forms V.
c.	[X]	[ ]	Check that the appropriate number of significant figures has been reported and that rounding errors have not occurred.
d.	[X]	[ ]	Check for calculation errors.

2. ***Verify Raw Data Format***

YES	NO	
[X]	[ ]	Check mass spectral listing to determine that the mass assignment is correct and that the mass listing is normalize to the specified ion (m/z 95 for VOA, m/z 198 for SemiVOA).

3. ***Verify Ion Abundance Criteria***

YES	NO	
[X]	[ ]	Check that all ion abundance criteria has been met.

4. ***Verify Background Correction***

YES	NO	
[X]	[ ]	Check that tuning compound spectra were generated using appropriate background correction.

Comments: None.

Data Validation Checklist
Site Name: Lefton Iron
SDG No.: 333779
Laboratory: IEPA
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III. Initial Calibration

GC/MS

Fraction: VOA SemiVOA (*circle one*)

1. ***Verify that the Correct Standard Concentrations Were Used.***

YES	NO	
[X]	[ ]	Check the Forms VI and the raw data to verify that the correct standard concentrations were used to calibrate the GC/MS instrument(s).

2. ***Verify that the Correct Initial Calibration was Used for Water and Low Level Soils.***

YES	NO	N/A	
[ ]	[ ]	[X]	Check that initial calibrations were performed as required for water/med. level soil and low level soil.

3. ***Verify Use of Correct Standards.***

YES	NO	N/A	
[ ]	[ ]	[X]	Check that the correct standard was used for quantitation of samples, if samples were analyzed immediately subsequent to initial calibration.

4. ***Evaluate Initial Calibration*** RRFs ***and*** $\overline{\text{RRF}}$s.

	YES	NO	
a.	[X]	[ ]	Check and recalculate the RRFs and $\overline{\text{RRF}}$s for several target compounds (at least one associated with each internal standard).
b.	[X]	[ ]	Check that, for all target compounds and surrogates, the $\overline{\text{RRF}}$s meet the applicable criteria. Note any "outliers" on the Calibration Outliers Form.

5. ***Evaluate Initial Calibration %RSDs.***

	YES	NO	
a.	[X]	[ ]	Check and recalculate the *%RSD* for several target compounds.
b.	[X]	[ ]	Check that the applicable *%RSD* criteria have been met. Note any "outliers" on the Calibration Outliers Form.

Comments: None.

IV. Continuing Calibration

GC/MS

Fraction: VOA SemiVOA (*circle one*)

1. ***Verify Continuing Calibration Frequency.***

YES	NO	
[X]	[ ]	Check the continuing calibration raw data and Forms VII to verify that continuing calibration standards were analyzed at the proper frequency and that each continuing calibration was compared to the appropriate initial calibration.

2. ***Evaluate Continuing Calibration RRFs.***

	YES	NO	
a.	[X]	[ ]	Check and recalculate the continuing calibration *RRFs* for several compounds.
b.	[X]	[ ]	Check that all target compound and surrogate *RRFs* meet the criteria.

3. ***Evaluate Continuing Calibration %Ds.***

	YES	NO	
a.	[X]	[ ]	Check and recalculate the continuing calibration *%Ds* for several compounds.
b.	[X]	[ ]	Check that all target compound and surrogate *%Ds* meet the applicable criteria.

Comments: None.

SEMIVOLATILE CALIBRATION OUTLIERS

Page 1

Lab Name: Lofton Inc 333779 Case: IEPA

Instrument # XL	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	4/21/93 1842			4/22/93 1219			4/23/93 1047								
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Phenol	0.800															
bis(2-Chloroethyl)ether	0.700															
2-Chlorophenol	0.800															
1,3-Dichlorobenzene	0.600															
1,4-Dichlorobenzene	0.500															
1,2-Dichlorobenzene	0.400															
2-Methylphenol	0.700															
2,2'-oxybis(1-Chloropropane)	0.010															
4-Methylphenol	0.600															
N-Nitroso-di-n-propylamine	0.500															
Hexachloroethane	0.300															
Nitrobenzene	0.200							See next page								
Isophorone	0.400															
2-Nitrophenol	0.100															
2,4-Dimethylphenol	0.200															
bis(2-Chloroethoxy)methane	0.300															
2,4-Dichlorophenol	0.200															
1,2,4-Trichlorobenzene	0.200															
Naphthalene	0.700															
4-Chloroaniline	0.010		30.2													
Hexachlorobutadiene	0.010															
4-Chloro-3-methylphenol	0.200															
2-Methylnaphthalene	0.400															
Hexachlorocyclopentadiene	0.010															
2,4,6-Trichlorophenol	0.200															
2,4,5-Trichlorophenol	0.200															
2-Chloronaphthalene	0.800															
2-Nitroaniline	0.010															
Dimethylphthalate	0.010															
Acenaphthylene	1.300															
2,6-Dinitrotoluene	0.200															
3-Nitroaniline	0.010					32.3	J									
Acenaphthene	0.800															
2,4-Dinitrophenol	0.010															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

AFFECTED SAMPLES:

SBLK5L, X111, X101, X102, X112, X107, X114, X108

Reviewer's Initials/Date: am 6/22/93

3/92

Q - This column of flags should be applied to the analytes on the sample data sheets.

SEMIVOLATILE CALIBRATION OUTLIERS

Page 2

Name: IEPA

Case: Lefton Iron

Instrument # XL	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	4/21/93 1842			4/22/93 1219			4/23/93 1047								
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Diethylphthalate	0.010															
4-Chlorophenyl-phenylether	0.400															
Fluorene	0.900															
4-Nitroaniline	0.010								26.1	J						
4,6-Dinitro-2-methylphenol	0.010															
N-Nitrosodiphenylamine (1)	0.010															
4-Bromophenyl-ethylether	0.100															
Hexachlorobenzene	0.100															
Pentachlorophenol	0.050															
Phenanthrene	0.700															
Anthracene	0.700															
[illegible]azole	0.010															
[illegible]-butylphthalate	0.010															
Fluoranthene	0.600															
Pyrene	0.600															
Butylbenzylphthalate	0.010															
3,3'-Dichlorobenzidine	0.010					47.0	J		57.1	J						
Benzo(a)anthracene	0.800															
Chrysene	0.700															
[illegible]2-Ethylhexyl)phthalate	0.010															
[illegible]-octylphthalate	0.010															
Benzo(b)fluoranthene	0.700															
Benzo(k)fluoranthene	0.700															
Benzo(a)pyrene	0.700															
Indeno(1,2,3-cd)pyrene	0.500								39.1	J						
Dibenz(a,h)anthracene	0.400								27.6	J						
Benzo(g,h,i)perylene	0.500								26.7	J						
Nitrobenzene-d5	0.200															
2[illegible]robichenol	0.700															
Terphenyl-d14	0.500															
Phenol-d6	0.800															
2-Fluorophenol	0.600															
2-Chlorophenol-d4	0.800															
1,2-Dichlorobenzene-d4	0.400															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

3/92

Q - This column of flags should be applied to the analytes on the sample data sheets.

SEE PAGE 1 FOR AFFECTED SAMPLES

Reviewer's Initials/Date Arn 6/22/93

SEMIVOLATILE CALIBRATION OUTLIERS

Page 1

Lab Name: IEPA

Case: Lefton Iron 333779

Instrument # XL	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	5/3/93 1615			5/4/93 837			5/5/93 827								
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Phenol	0.800															
bis(2-Chloroethyl)ether	0.700															
2-Chlorophenol	0.800															
1,3-Dichlorobenzene	0.600															
1,4-Dichlorobenzene	0.500															
1,2-Dichlorobenzene	0.400															
2-Methylphenol	0.700															
2,2' oxybis(1-Chloropropane)	0.010															
4-Methylphenol	0.600															
N-Nitroso-di-n-propylamine	0.500															
Hexachloroethane	0.300															
Nitrobenzene	0.200															
Isophorone	0.400															
2-Nitrophenol	0.100															
2,4-Dimethylphenol	0.200															
bis(2-Chloroethoxy)methane	0.300															
2,4-Dichlorophenol	0.200															
1,2,4-Trichlorobenzene	0.200															
Naphthalene	0.700															
4-Chloroaniline	0.010															
Hexachlorobutadiene	0.010															
4-Chloro-3-methylphenol	0.200															
2-Methylnaphthalene	0.400															
Hexachlorocyclopentadiene	0.010															
2,4,6-Trichlorophenol	0.200															
2,4,5-Trichlorophenol	0.200															
2-Chloronaphthalene	0.300															
2-Nitroaniline	0.010															
Dimethylphthalate	0.010															
Acenaphthylene	1.300															
2,6-Dinitrotoluene	0.200															
3-Nitroaniline	0.010		32.2			31.2	J		32.3	J						
Acenaphthene	0.800															
2,4-Dinitrophenol	0.010															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

AFFECTED SAMPLES:

SBLK5M	X107DL
X106	X113
X109	X114MS
X105	X114MSD
X103	
X104	
X110	
X110MS	
X110MSD	

Reviewer's Initials/Date: an 6/22/93

3/92

Q - This column of flags should be applied to the analytes on the sample data sheets.

SEMIVOLATILE CALIBRATION OUTLIERS

Page 2

Name: IEPA

Case: Lefton Iron 333779

Instrument # VL	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	5/3/93 1615			5/4/93 837			5/5/93 821								
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Diethylphthalate	0.010															
4-Chlorophenyl-phenylether	0.400															
Fluorene	0.900															
4-Nitroaniline	0.010		31.0			25.5	J									
4,6-Dinitro-2-methylphenol	0.010															
N-Nitrosodiphenylamine (1)	0.010															
4-Bromophenyl-ethylether	0.100															
Hexachlorobenzene	0.100															
Pentachlorophenol	0.050															
Phenanthrene	0.700															
Anthracene	0.700															
C[illegible]azole	0.010															
D[illegible]-butylphthalate	0.010															
Fluoranthene	0.600															
Pyrene	0.600															
Butylbenzylphthalate	0.010															
3,3'-Dichlorobenzidine	0.010															
Benzo(a)anthracene	0.800															
Chrysene	0.700															
bi[illegible]-Ethylhexyl)phthalate	0.010															
D[illegible]octylphthalate	0.010															
Benzo(b)fluoranthene	0.700															
Benzo(k)fluoranthene	0.700															
Benzo(a)pyrene	0.700															
Indeno(1,2,3-cd)pyrene	0.500															
Dibenz(a,h)anthracene	0.400															
Benzo(g,h,i)perylene	0.500															
Nitrobenzene-d5	0.200															
2-[illegible]robichenol	0.700															
Terphenyl-d14	0.500															
Phenol-d6	0.800															
2-Fluorophenol	0.600															
2-Chlorophenol-d4	0.800															
1,2-Dichlorobenzene-d4	0.400															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

3/92

Q - This column of flags should be applied to the analytes on the sample data sheets.

SEE PAGE 1 FOR AFFECTED SAMPLES

Reviewer's Initi[illegible] Date 6/22/93

Data Validation Checklist
Site Name: Lifton Iron
SDG No.: 333779
Laboratory: LEA
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V. Blanks

Fraction: VOA SemiVOA Pest. (*circle one*)

1. ***Review Blank Results.***

YES NO
[X] [ ] Check all associated blanks for the presence of TCL compounds or TICs. Note all contaminated blanks and associated samples below.

2. ***Verify Blank Frequency.***

YES NO
[X] [ ] Check that blank analyses have been performed at the required frequency.

Blank Summary

Blank Sample No.	SBLKSL	SBLKSM		
Date Anal. or Extr.	4/15/93	4/16/93		
Instrument	XL	XL		

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount
Di-n-Butyl	250						

TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount
		UNK RT 8.55	2400				
See							
next							
page							

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKSL

.b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333843

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C0422K03

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 141-79-7	3-PENTEN-2-ONE, 4-METHYL-	7.53	1200	JNA
2. 127-18-4	ETHENE, TETRACHLORO-	7.87	110	JN
3.	UNKNOWN	8.25	5800	J
4. 123-42-2	2PENTANONE,4-HYDROXY4-METHYL	8.92	64000	JNA
5.	UNKNOWN	9.04	550	J
6.	UNKNOWN ALIP. HYDROCARBON	9.14	420	J
7.	UNKNOWN ALIP. HYDROCARBON	9.30	310	J
8.	UNKNOWN	9.49	190	J
9.	UNKNOWN	10.24	3100	J
10.	UNKNOWN	10.84	1100	J
11.	UNKNOWN	11.02	320	J
12.	UNKNOWN	11.69	380	J
13.	UNKNOWN	12.02	650	J
14.	UNKNOWN	15.30	280	J
15.	UNKNONW ACID	25.21	300	J
16.	UNKNOWN ACID ESTER	29.47	32000	J
17.	UNKNOWN ACID ESTER	29.54	43000	J

Data Validation Checklist
Site Name: Lefton Iron
SDG No.: 333779
Laboratory: IEPA
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VI. Surrogate Spikes

GC/MS

Fraction: VOA (SemiVOA) *(circle one)*

1. Review Raw Data.

YES NO
[X] [ ] Check raw data to verify that the recoveries on the Form II are accurate and within the limits.

2. Evaluate Surrogate Recovery Calculations.

YES NO
[X] [ ] Check that the surrogate spike recoveries were calculated correctly and are free from transcription errors.

3 Evaluate Surrogate Recoveries.

YES NO
a. [X] [ ] Check that reanalyses were performed as required.

b. [X] [ ] Check that surrogate recoveries in blanks met criteria.

4. Evaluate Reanalyses.

YES NO
[ ] [X] Whenever there are two or more analyses for a particular sample, determine which are the best analyses to use. This determination must be performed in conjunction with the evaluation of the internal standard area response criteria. List below the results of the reviewers determinations.

No reanalyses.

Comments:
X107 - TPH high %R, X107DL - FBP, TBP, DCB high %R,
X113 - FBP high %R, X114MS - NB2 & FBP low %R,
X114MSD - NB2, FBP, PHL, 2FP low %R
X109 - 2FP low %R

Data Validation Checklist
Site Name: Lefton Iron
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VII. Matrix Spikes/Matrix Spike Duplicates

Fraction: VOA SemiVOA Pesticide (*circle one*)

1. ***Verify Frequency***

YES	NO	
[X]	[ ]	Check that MS and MSD samples were analyzed at the correct frequency.

2. ***Evaluate MS/MSD Criteria.***

YES	NO	
[X]	[ ]	Check MS/MSD results for *%R* and *RPD* are within the advisory limits.

3. ***Verify MS/MSD Calculations.***

	YES	NO	
a.	[X]	[ ]	Check raw data and verify that results are calculated correctly and are free from transcription errors.
b.	[X]	[ ]	Check that *%Rs* and *RPDs* were calculated correctly.

4. ***Evaluate Sample Precision.***

YES	NO	
[X]	[ ]	Compare *%RSD* results of non-spiked compounds between the original result, MS and MSD.

Compound	Orig. Result	MS Result	MSD Result	%RSD
See additional comments on next page.				

Comments:
X114MS - 2,4-Dinitrotoluene + Pentachlorophenol high %R
X114MSD - 4-Nitrophenol 0%R, high RPD; 2,4-Dinitrotoluene high %R
X110MS - Acenaphthene + Pyrene low %R
X110MSD " " "

Data Validation Checklist
Site Name: Lifton Iron
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Additional comments:
SV- MS/MSD

X110		MS	MSD	RSD
Dibenzofuran	6300	U	U	-
Fluorene	7900			-
Phenanthrene	81,000			-
Anthracene	10,000			-
Carbazole	13,000			-
Fluoranthene	74,000			-
Benzo(a) Anthracene	22,000			-
Benzo(b) Fluoranthene	37,000			-
Benzo(a) pyrene	22,000			-
Indeno(1,2,3-cd) Pyrene	15,000			-

X114	
2-Methylnaphthalene	940
Phenanthrene	1700
Di-n-Butylphthalate	520
Fluoranthene	1600
Butylbenzyl phthalate	520
Benzo(a) anthracene	880
Chrysene	1200
Benzo(k) Fluoranthene	1300

X. Internal Standards

GC/MS

Fraction: VOA SemiVOA (*circle one*)

1. ***Evaluate Raw Data.***

YES	NO	
[X]	[ ]	Check raw data and verify that the internal standard retention times and areas reported on the Forms VIII are correct.

2. ***Verify RT and IS Area Criteria.***

YES	NO	
[X]	[ ]	Check that retention times and internal standard area meet the appropriate criteria.

3. ***Evaluate Reanalyses.***

YES	NO	
[ ]	[X]	Whenever there are two or more analyses for a particular sample, determine which are the best analyses to use. This determination must be performed in conjunction with the evaluation of the surrogate spike recovery criteria. List the results of the reviewers determinations in Section VI., Surrogate Spikes.

No reanalyses.

Comments: None.

XI. Target Compound Identification

GC/MS

Fraction: VOA SemiVOA (*circle one*)

1. ***Verify Relative Retention Time (RRT) Criteria.***

   YES NO
   [X] [ ] Check that the RRT of reported compounds is within the criteria.

2. ***Evaluate Target Compound Spectra.***

   YES NO
   [X] [ ] Check the sample target compound spectra against the laboratory standard spectra; verify that the specified criteria are met.

3. ***Evaluate Possible Carryover.***

   YES NO
   [X] [ ] Check the raw data of the samples as related to the samples analyzed previously to verify that sample carryover has not adversely affected results.

4. ***Evaluate Chromatograms.***

   YES NO
   [X] [ ] Check the sample chromatograms to verify that peaks are accounted for.

Comments: None.

XII. Compound Quantitation and Reported CRQLs

Fraction: VOA (SemiVOA) Pesticide *(circle one)*

1. ***Evaluate Quantitation of Sample Results.***

YES	NO	
[X]	[ ]	Check raw data to verify calculation of sample results.

2. ***Evaluate Quantitation Parameters.***

YES	NO	N/A	
[X]	[ ]	[ ]	For GC/MS analyses, check that the correct internal standard, quantitation ion, and *RRF* were used to quantitate results. Verify that the same internal standard, quantitation ion, and *RRF* are used throughout, in both the calibration and as well as the quantitation process.

3. ***Evaluate CRQLs.***

YES	NO	
[X]	[ ]	Check that the CRQLs have been adjusted to reflect all sample dilutions, concentrations, splits, cleanup activities, and dry weight factors.

Comments: None.

XIII. Tentatively Identified Compounds

GC/MS Only

Fraction: VOA SemiVOA (*circle one*)

1. ***Evaluate Tentative Identifications.***

   YES NO
   [X] [ ] Check that all TICs reported meet the identification guidelines.

2. ***Evaluate Raw Data.***

   YES NO
   [X] [ ] Check raw data to verify that the laboratory has generated a library search for all required peaks in the chromatograms for samples and blanks.

3. ***Evaluate Blanks.***

   YES NO
   [X] [ ] Check blank sample chromatograms to verify that TIC peaks present in samples are not found in blanks.

4. ***Examine Mass Spectra.***

   YES NO
   [X] [ ] Check all mass spectra for every sample.

5. ***Evaluate TIC Identifications.***

   YES NO
   [X] [ ] Since TIC library searches often yield several candidate compounds, all reasonable choices must be considered.

6. ***Evaluate Laboratory Artifacts and Contaminants.***

   YES NO
   [X] [ ] Check sample results and raw data to verify that common laboratory artifacts and contaminants are not reported as sample contaminants.

XIII. TICs continued

7. *Evaluate Possibility of False Negatives.*

	YES	NO	N/A	
a.	[X]	[ ]	[ ]	Check to determine if target compounds have been identified and quantitated as TICs.
b.	[ ]	[ ]	[X]	If target compounds have been identified and quantitated as TICs, check to determine whether the false negative is an isolated occurrence or whether additional data may be affected. Comment on all such false negatives below.

8. *Determine That Results Are From Proper Fraction.*

YES	NO	N/A	
[ ]	[ ]	[X]	Target compounds could be identified in more than one fraction; if this occurs, check that quantitation is from the proper fraction.

9. *Verify That Internal Standards And Surrogates Are Not Searched.*

YES	NO	
[X]	[ ]	Check that library searches were not performed on internal standards or surrogates.

10. *Verify Estimated Quantitation of TICs.*

YES	NO	
[X]	[ ]	Check that the estimated concentration of the TICs was made using an assumed *RRF* of one.

Comments: None.

Data Validation Checklist
Site Name: Tufton Iron
SDG
No.: 333779
Laboratory: IEPA
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XIV. GC/MS System Performance

Fraction: VOA SemiVOA (*circle one*)

1. Evaluate Overall System Performance.

	YES	NO	
a.	[X]	[ ]	Check for high RIC background levels or shifts in absolute retention times of internal standards.
b.	[X]	[ ]	Check for excessive baseline rise at elevated temperature.
c.	[X]	[ ]	Check for extraneous peaks.
d.	[X]	[ ]	Check for loss of resolution.
e.	[X]	[ ]	Check for peak tailing or peak splitting that may result in inaccurate quantitation.

Comments: None.

Data Validation Checklist
Site Name: Lefton Iron
SDG No.: 333779
Laboratory: IEPH
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II. Pesticide Instrument Performance Check

1. ***Resolution Check Mixture***

	YES	NO	
a.	[X]	[ ]	Check the Form VIII PEST. to determine that the resolution check mixture(s) was analyzed in the proper sequence.
b.	[X]	[ ]	Check the resolution check mixture data and the Form VI PEST.-4 to verify that the resolution criterion was met.

2. ***Performance Evaluation Mixture***

	YES	NO	
a.	[X]	[ ]	Check the Form VII PEST. to determine that the PEM(s) was analyzed at the proper frequency and position in the initial calibration sequence.
b.	[X]	[ ]	Check the PEM data from the initial and continuing calibrations to verify that the resolution criterion was met.
c.	[X]	[ ]	Check the PEM data from the initial and continuing calibrations and Form VII PEST.-1 to verify that the retention times are within the retention time windows.
d.	[X]	[ ]	Check that the *RPDs* meet the criterion.
e.	[X]	[ ]	Check that the breakdowns for 4,4'-DDT and Endrin meet the criteria.

Comments:

DB608 - PEM01 OK
PEM02 OK
PEM03 Endrin high RPD — Endrin affects X103DL, X105DL
DDT high RPD — X106DL, X108DL, X104DL, X1C
Methoxychlor high RPD — X101, X102, X111, X114, X113D
(no PEM04 was analyzed) PEM05 DDT high RPD — X109, X110DL, X112DL
Methoxychlor high RPD

DB 1701 PEM01 OK
PEM02 OK
PEM03 OK
PEM05 OK

DDT affects X103DL, X105DL, X106DL, X108DL, X104DL, X1C X101, X102, X111, X114, X113DL, X109, X110DL, X112D X113, X110, X112, X101DL, X1C X109DL, X111DL, X114DL
Methoxychlor - affects all samples.

Data Validation Checklist
Site Name: Lipton Iron
SDG No.: 333779
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III. Initial Calibration

PESTICIDES

1. ***Individual Standard Mixtures.***

	YES	NO	
a.	[X]	[ ]	Check the Form VIII PEST to verify that the Individual Standard Mixtures were analyzed at the proper frequency for each GC column and instrument. Check that the proper concentrations were used.
b.	[X]	[ ]	Check the raw data to determine that the midpoint standard is at the proper concentration and verify that the resolution criterion has been met for each midpoint concentration standard.
c.	[X]	[ ]	Check the Individual Standard Mixture data and Form VI PEST.-1 and review the calculated retention time windows for calculation and transcription errors.
d.	[X]	[ ]	Check the Individual Standard Mixture data and Form VI PEST.-2 to verify that the *%RSDs* for the calibration factors meet the criterion. Check and recalculate several *%RSDs* for errors.

2. ***Multi Component Compounds.***

a.	[X]	[ ]	Check the raw data and the Form VIII PEST. to verify that the Multi-component Standards were analyzed at the proper concentration and frequency for each GC column and instrument.
b.	[X]	[ ]	Check the raw data and Form VI PEST.-3 to verify that at least three peaks were used for calibration and that retention time and calibration factor data are available for each peak.

Comments:

1d) DB-608 a-BHC high RSD
d-BHC high RSD
g-BHC high RSD
DB-1701 a-BHC high RSD
d-BHC high RSD

Data Validation Checklist
Site Name: Lefton Iron
SDG
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IV. Continuing Calibration

PESTICIDES

1. ***Evaluate Continuing Calibration Standards.***

YES NO
[X] [ ] Check the Form VIII PEST to verify that the Instrument Blanks, PEMs, and Individual Standard Mixtures were analyzed at the proper frequency and that no more than 12:00 hours elapsed between calibration brackets in an ongoing analytical sequence.

2. ***Individual Standard Mixtures Resolution.***

YES NO
[X] [ ] Check the data for the midpoint concentration of the Individual Standard Mixtures to verify that the resolution criteria was met.

3. ***Individual Standard Mixtures Retention Times***

YES NO
[X] [ ] Check the data for each of the single component pesticides and surrogates in the midpoint concentration of the Individual Standard Mixtures to verify that the retention times are within the appropriate windows.

4. ***Evaluate Continuing Calibration RPDs.***

YES NO
[X] [ ] Check the data for the midpoint concentration of the Individual Standard Mixtures and Form VII PEST.-2 to verify that the *RPDs* between the calculated amount and the true amount for each of the pesticides and surrogates meet the criterion.

Comments:
see additional comments on next page.

Data Validation Checklist
Site Name: Lefton Iron
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Laboratory: IEPA
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Additional comments:

Pesticide Continuing calibration

DB-1701 - OK
DB-608

INDAM02 5/4/93 1220 - affects all samples
Methoxychlor high RPD

INDAM03 5/5/93 0554 - affects all samples
Methoxychlor high RPD
DCB high RPD

INDBM03 5/5/93 0642 - affects all samples excluding X103, X105, X106, X108, X104, X107DL
E. ketone high RPD
DCB high RPD

INDAM04 5/5/93 2233
DDD high RPD
DDT high RPD
Methoxychlor high RPD
DCB high RPD

INDBM04 5/5/93 2321
E. ketone high RPD
E. aldehyde high RPD
DCB high RPD

affects X113, X110, X112, X101DL, X102DL, X109DL, X111DL, X114DL,

Data Validation Checklist
Site Name: Lefton Iron
SDG No.: 333779
Laboratory: IEA
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V. Blanks

Fraction: VOA SemiVOA Pest. (circle one)

1. ***Review Blank Results.***

YES NO
[X] [ ] Check all associated blanks for the presence of TCL compounds or TICs. Note all contaminated blanks and associated samples below.

2. ***Verify Blank Frequency.***

YES NO
[X] [ ] Check that blank analyses have been performed at the required frequency.

Blank Summary

Blank Sample No.	PBLK51			
Date Anal. or Extr.	4/14/93			
Instrument	HP 1+2			

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount
b-BHC	0.59						
Aldrin	0.35						
a-Chlordane	0.21						

TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount
NA							

Data Validation Checklist
Site Name: Lefton Iron
SDG No.: 333779
Laboratory: IEPA
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VI. Surrogate Spikes

Pesticides

1. *Review Raw Data.*

YES	NO	
[X]	[ ]	Check raw data to verify that the recoveries on the Form II are accurate and within the limits.

2. *Evaluate Surrogate Recovery Calculations.*

YES	NO	
[X]	[ ]	Check that the surrogate spike recoveries were calculated correctly and are free from transcription errors.

3 *Evaluate Possible Interferences.*

YES	NO	N/A	
[X]	[ ]	[ ]	If surrogate spike recoveries are not acceptable, check the raw data for possible interferences which may have effected surrogate recoveries.

4. *Evaluate Retention Times.*

YES	NO	N/A	
[X]	[ ]	[ ]	If retention time limits are not met, check the raw data for possible misidentification of GC peaks.

5. *Evaluate Any Low Recoveries.*

YES	NO	N/A	
[X]	[ ]	[ ]	If low surrogate recoveries are observed, check whether low recoveries are due to sample dilution.

6. *Evaluate Surrogate Analyses in Blanks.*

YES	NO	
[X]	[ ]	Check that all surrogate analysis criteria (retention time and advisory recovery criteria) were met in all blank samples.

Comments: See next page for surrogate recoveries outside criteria. % Recoveries circled indicate surrogates that were outside R.T. ~~[illegible]~~ window

2F
SOIL PESTICIDE SURROGATE RECOVERY

ab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

GC Column(1): DB-608 ID: 0.53(mm) GC Column(2): DB-1701 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKS1	81	60	173*	88			1
02	GPC_BLK01	0*	0*	0*	0*			4
03	GPC_MSP01	0*	0*	15*	40*			4
04	GPC_PCB01	0*	0*	0*	23*			4
05	X101	120	86	12900*	4575*			2
06	X101DL	85	64	14650*	5150*			2
07	X101MS	123	84	17200*	5825*			2
08	X101MSD	111	77	13000*	4675*			2
09	X102	139	80	17850*	5675*			2
10	X102DL	114	96	20350*	7975*			2
11	X103	88	66	900*	68000*			2
12	X103DL	126	63	670*	72000*			2
13	X104	83	80	672*	229*			2
14	X104DL	87	87	810*	302*			2
15	X105	116	135	4900*	1405*			2
16	X105DL	149	124	4550*	2452*			2
17	X106	114	64	2950*	942*			2
18	X106DL	109	74	2348*	1598*			2
19	X107	54*	42*	512*	144			3
20	X107DL	53*	44*	372*	145			3
21	X108	119	69	3100*	1002*			2
22	X108DL	78	70	2402*	1075*			2
23	X109	96	81	1712*	1865*			2
24	X109DL	101	124	1618*	1580*			2
25	X110	135	41*	1278*	100			2
26	X110DL	104	80	918*	348*			2
27	X111	130	100	2625*	908*			2
28	X111DL	125	84	2550*	1070*			2
29	X112	115	87	490*	166*			2
30	X112DL	119	84	565*	219*			2

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

001925

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

GC Column(1): DB-608 ID: 0.53(mm) GC Column(2): DB-1701 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	X113	121	84	990*	408*			2
02	X113DL	106	63	1265*	480*			2
03	X114	116	92	1052*	522*			2
04	X114DL	110	91	805*	272*			2

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

Data Validation Checklist
Site Name: Lefton Iron
SDG No.: 333779
Laboratory: IEPA
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VII. Matrix Spikes/Matrix Spike Duplicates

Fraction: VOA SemiVOA Pesticide (*circle one*)

1. ***Verify Frequency***

YES NO
[X] [ ] Check that MS and MSD samples were analyzed at the correct frequency.

2. ***Evaluate MS/MSD Criteria.***

YES NO
[X] [ ] Check MS/MSD results for *%R* and *RPD* are within the advisory limits.

3. ***Verify MS/MSD Calculations.***

YES NO
a. [X] [ ] Check raw data and verify that results are calculated correctly and are free from transcription errors.

b. [X] [ ] Check that *%Rs* and *RPDs* were calculated correctly.

4. ***Evaluate Sample Precision.***

YES NO
[X] [ ] Compare *%RSD* results of non-spiked compounds between the original result, MS and MSD.

X101

Compound	Orig. Result	MS Result	MSD Result	%RSD
Heptachlor epoxide	1.3	U	U	—
DDE	31	46	39	19%
Endosulfan II	16	16	13	12%
g-Chlordane	1.2	1.1	0.84	18%
Aroclor 1254	49	35	52	20%
Aroclor 1260	210	210	170	12%

Comments: None

Data Validation Checklist
Site Name: Lefton Iron
SDG No.: 333779
Laboratory: IEPA
Page 44 of 47

X. Pesticide Cleanup Checks

1. *Florisil Cartridge Check.*

	YES	NO	
a.	[X]	[ ]	Check the data from the Florisil cartridge solution analyses and the Form IX PEST.-1 and check some of the *%R* calculations; verify that there are no calculation or transcription errors.
b.	[X]	[ ]	Check all criteria have been met.

2. *Gel Permeation Chromatography.*

	YES	NO	
a.	[X]	[ ]	Check the data from the GPC calibration check analyses and the Form IX PEST.-2 and recalculate some of the *%R* results; verify that there are no calculation or transcription errors.
b.	[X]	[ ]	Check all criteria have been met and that Arochlor patterns are similar to those of previous standards.

Comments:
1. %R of Ind A OK
%R of 2,4,5-trichlorophenol unacceptable (22%)
2. Heptachlor low %R
DDT high %R - affects all samples

XI. Target Compound Identification

Pesticides

1. ***Evaluate Reported Results.***

	YES	NO	
a.	[X]	[ ]	Check the Form I PEST., the associated raw data, and Form X PEST.-1 and Form X PEST.-2 to confirm reported detected analytes.
b.	[X]	[ ]	Check the Form I PEST., the associated raw data, and Form X PEST.-1 and Form X PEST.-2 to confirm reported non-detects.
c.	[X]	[ ]	Check the associated blank data for potential interferences to evaluate sample data for false positives.
d.	[X]	[ ]	Check the calibration data for adequate retention time windows to evaluate the sample data for false positives and false negatives.

2. ***Evaluate Multi-Component Analyte Results.***

YES	NO	
[X]	[ ]	Compare the retention times and relative peak height ratios of major multi-component analyte peaks against appropriate standard chromatograms.

3. ***Verify GC/MS Confirmations if Applicable.***

YES	NO	N/A	
[X]	[ ]	[ ]	Check that GC/MS confirmation was performed for pesticide concentrations in the final sample extract which exceeded 10 ng/ul.

Comments: None.

XII. Compound Quantitation and Reported CRQLs

Fraction: VOA SemiVOA Pesticide (*circle one*)

1. ***Evaluate Quantitation of Sample Results.***

YES	NO	
[X]	[ ]	Check raw data to verify calculation of sample results.

2. ***Evaluate Quantitation Parameters.***

YES	NO	N/A	
[ ]	[ ]	[X]	For GC/MS analyses, check that the correct internal standard, quantitation ion, and *RRF* were used to quantitate results. Verify that the same internal standard, quantitation ion, and *RRF* are used throughout, in both the calibration and as well as the quantitation process.

3. ***Evaluate CRQLs.***

YES	NO	
[X]	[ ]	Check that the CRQLs have been adjusted to reflect all sample dilutions, concentrations, splits, cleanup activities, and dry weight factors.

Comments: None.

Data Validation Checklist
Site Name: Lipton Iron
SDG
No.: 333779
Laboratory: IEPA
Page 47 of 47

XV. Overall Assessment of Data

Evaluate the Overall Quality of the Data.

YES	NO	
[X]	[ ]	Evaluate any technical problems which have not been previously addressed.
[X]	[ ]	Review all available materials to assess the overall quality of the dada, keeping in mind the additive nature of analytical problems.
[X]	[ ]	If appropriate information is available, assess the usability of the data to assist the data user in avoiding inappropriate use of the data. Review all available information, including the QAPjP, SAP, and communications with the data user that concerns the intended use of the data.

Provide a brief narrative to give the data user an indication of the analytical limitations of the data. Include any details from the above checks. Any inconsistency of the data with the Case Narrative should be noted. If sufficient information is available, the reviewer should give an assessment of the usability of the data within the given context.

Data are useable as qualified on the Forms I.

Alicia Nudd

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

L Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333779

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0415LC04

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 19 Date Analyzed: 04/15/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12 ~~3~~	~~BJU~~
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

L. Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333779

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0415LC04

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 19 Date Analyzed: 04/15/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

ber TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333779

Sample wt/vol: 30.9 (g/mL) G Lab File ID: C0422K06

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 19 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-Di-n-Propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)Methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-Methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	960	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	960	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	960	UJ
83-32-9	Acenaphthene	400	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

.b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333779

Sample wt/vol: 30.9 (g/mL) G Lab File ID: C0422K06

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 19 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	960	U
100-02-7	4-Nitrophenol	960	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-10-6	4-Nitroaniline	960	U
534-52-1	4,6-Dinitro-2-methylphenol	960	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	960	U
85-01-8	Phenanthrene	120	J
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-Butylphthalate	840	~~B~~U am
206-44-0	Fluoranthene	250	J
129-00-0	Pyrene	180	J
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	UJ
56-55-3	Benzo(a)Anthracene	150	J
218-01-9	Chrysene	150	J
117-81-7	bis(2-Ethylhexyl)Phthalate	400	U
117-84-0	Di-n-Octyl Phthalate	400	U
205-99-2	Benzo(b)Fluoranthene	240	J
207-08-9	Benzo(k)Fluoranthene	160	J
50-32-8	Benzo(a)Pyrene	400	U
193-39-5	Indeno(1,2,3-cd)Pyrene	400	U
53-70-3	Dibenz(a,h)Anthracene	400	U
191-24-2	Benzo(g,h,i)Perylene	400	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

ab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333779

Sample wt/vol: 30.9 (g/mL) G Lab File ID: C0422K06

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 19 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

Number TICs found: 28

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1. 141-79-7	3-PENTEN-2-ONE,4METHYL	7.53	1800	~~JNBA~~U	am
2.	UNKNOWN	8.40	11000	J	
3. 123-42-2	2PENTANONE,4HYDROXY4-METHYL	9.02	71000	~~JNBA~~U	am
4.	UNKNOWN ALIP. HYDROCARBON	9.15	630	~~BJ~~U	am
5.	UNKNOWN ALIP. HYDROCARBON	9.32	580	~~BJ~~U	am
6.	UNKNOWN	9.52	330	~~BJ~~U	am
7.	UNKNOWN	10.29	5400	~~BJ~~U	am
8. 930-68-7	2-CYCLOHEXEN-1-ONE	10.64	240	JNA	
9.	UNKNOWN	10.89	3000	~~BJ~~U	am
10.	UNKNOWN	11.05	380	~~BJ~~U	am
11.	UNKNOWN	11.74	1300	J	
12.	UNKNOWN	12.89	470	J	
13.	UNKNOWN	15.35	530	~~BJ~~U	am
14.	UNKNOWN	21.24	660	J	
15.	UNKNOWN ALIP. ACID	25.22	1300	~~BJ~~U	am
16.	UNKNOWN	26.77	340	J	
17.	UNKNOWN	27.21	330	J	
18.	UNKNOWN ACID ESTER	29.52	7800	~~BJ~~U	am
19.	UNKNOWN	29.61	200	J	
20.	UNKNOWN ALIP. HYDROCARBON	30.36	660	J	
21.	UNKNOWN	31.54	290	J	
22.	UNKNOWN	31.79	710	J	
23.	UNKNOWN ALIP. HYDROCARBON	32.46	660	J	
24.	UNKNOWN	34.19	1900	J	
25.	UNKNOWN ALIP. HYDROCARBON	35.34	3000	J	
26.	UNKNOWN PCB	36.67	1700	J	
27.	UNKNOWN ALIP. HYDROCABON	39.51	3600	J	
28.	UNKNOWN	47.04	2500	J	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333779

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 19 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
----------	alpha-BHC	2.1	UJ
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	UJ
----------	gamma-BHC (Lindane)	2.1	UJ
----------	Heptachlor	2.1	U
----------	Aldrin	3.9	~~B~~P am
1024-57-3	Heptachlor epoxide	1.3	J
----------	Endosulfan I	2.1	U
----------	Dieldrin	45	P
72-55-9	4,4'-DDE	31	P
----------	Endrin	17	PJ
33213-65-9	Endosulfan II	16	
----------	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
----------	4,4'-DDT	36	PJ
----------	Methoxychlor	21	UJ
53494-70-5	Endrin ketone	4.0	UJ
----------	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	1.2	JP
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	82	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	49	P
11096-82-5	Aroclor-1260	210	P

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101DL

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333779D

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 19 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/05/93

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
	alpha-BHC	21	UJ
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	UJ
	gamma-BHC (Lindane)	21	UJ
	Heptachlor	21	U
	Aldrin	3.2	~~J~~JPD am
1024-57-3	Heptachlor epoxide	21	U
	Endosulfan I	21	U
	Dieldrin	32	JPD
72-55-9	4,4'-DDE	26	JPD
	Endrin	12	JPD
33213-65-9	Endosulfan II	40	U
	4,4'-DDD	40	UJ
1031-07-8	Endosulfan sulfate	40	U
	4,4'-DDT	24	JPD
	Methoxychlor	210	UJ
53494-70-5	Endrin ketone	40	UJ
	Endrin aldehyde	40	UJ
5103-71-9	alpha-Chlordane	21	U
5103-74-2	gamma-Chlordane	21	U
8001-35-2	Toxaphene	2100	U
12674-11-2	Aroclor-1016	400	U
11104-28-2	Aroclor-1221	820	U
11141-16-5	Aroclor-1232	400	U
53469-21-9	Aroclor-1242	400	U
12672-29-6	Aroclor-1248	400	U
11097-69-1	Aroclor-1254	400	U
11096-82-5	Aroclor-1260	400	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333780

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0415LC05

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 17 Date Analyzed: 04/15/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	~~B~~U am
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333780

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0415LC05

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 17 Date Analyzed: 04/15/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

ab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333780

Sample wt/vol: 30.2 (g/mL) G Lab File ID: C0422K07

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-Di-n-Propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)Methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-Methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	960	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	960	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	960	UJ
83-32-9	Acenaphthene	390	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

.b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333780

Sample wt/vol: 30.2 (g/mL) G Lab File ID: C0422K07

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	960	U
100-02-7	4-Nitrophenol	960	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-10-6	4-Nitroaniline	960	U
534-52-1	4,6-Dinitro-2-methylphenol	960	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	960	U
85-01-8	Phenanthrene	98	J
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-Butylphthalate	650	~~B~~U am
206-44-0	Fluoranthene	190	J
129-00-0	Pyrene	160	J
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	UJ
56-55-3	Benzo(a)Anthracene	110	J
218-01-9	Chrysene	150	J
117-81-7	bis(2-Ethylhexyl)Phthalate	390	U
117-84-0	Di-n-Octyl Phthalate	390	U
205-99-2	Benzo(b)Fluoranthene	160	J
207-08-9	Benzo(k)Fluoranthene	110	J
50-32-8	Benzo(a)Pyrene	130	J
193-39-5	Indeno(1,2,3-cd)Pyrene	390	U
53-70-3	Dibenz(a,h)Anthracene	390	U
191-24-2	Benzo(g,h,i)Perylene	390	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102

b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333780

Sample wt/vol: 30.2 (g/mL) G Lab File ID: C0422K07

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

Number TICs found: 28

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1. 141-79-7	3-PENTEN-2-ONE,4-METHYL	7.53	2000	~~JNBA~~U	am
2.	UNKNOWN	8.00	9100	J	
3.	UNKNOWN	8.39	12000	J	
4. 123-42-2	2PENTANONE,4HYDROXY4-METHYL	9.00	80000	~~JNBA~~U	am
5.	UNKNOWN	9.07	230	~~BJ~~U	am
6.	UNKNOWN ALIP. HYDROCARBON	9.15	740	~~BJ~~U	am
7.	UNKNOWN ALIP. HYDROCARBON	9.32	670	~~BJ~~U	am
8.	UNKNOWN	9.52	390	~~BJ~~U	am
9.	UNKNOWN	10.29	5700	~~BJ~~U	am
10.	UNKNOWN	10.87	2500	~~BJ~~U	am
11.	UNKNOWN	11.72	1400	J	
12.	UNKNOWN	12.05	670	~~BJ~~U	am
13.	UNKNOWN	12.87	470	J	
14.	UNKNOWN	15.34	560	~~BJ~~U	am
15.	UNKNOWN ALIP. ACID	21.24	560	J	
16.	UNKNOWN ALIP. HYDROCARBON	22.42	450	J	
17.	UNKNOWN	23.72	380	J	
18.	UNKNOWN ALIP. ACID	25.24	1400	~~BJ~~U	am
19.	UNKNOWN ACID ESTER	29.54	26000	~~BJ~~U	am
20.	UNKNOWN ALIP. HYDROCARBON	30.37	430	J	
21.	UNKNOWN ALIP. HYDROCARBON	32.47	770	J	
22.	UNKNOWN ALIP. HYDROCARBON	33.79	350	J	
23.	UNKNOWN	34.46	510	J	
24.	UNKNOWN ALIP. HYDROCARBON	35.36	3800	J	
25.	UNKNOWN PCB	36.72	1800	J	
26.	UNKNOWN ALIP. HYDROCARBON	39.51	4500	J	
27.	UNKNOWN ALIP. HYDROCARBON	45.69	2100	J	
28.	UNKNOWN	47.03	2200	J	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333780

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
----------	alpha-BHC	2.0	UJ
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	UJ
----------	gamma-BHC (Lindane)	2.0	UJ
----------	Heptachlor	2.0	U
----------	Aldrin	4.3	~~J~~P am
1024-57-3	Heptachlor epoxide	2.0	U
----------	Endosulfan I	2.0	U
----------	Dieldrin	44	P
72-55-9	4,4'-DDE	65	P
----------	Endrin	14	PJ
33213-65-9	Endosulfan II	11	P
----------	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
----------	4,4'-DDT	56	PJ
----------	Methoxychlor	20	UJ
53494-70-5	Endrin ketone	3.9	UJ
----------	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	1.3	JP
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	55	P
11096-82-5	Aroclor-1260	210	P

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102DL

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333780D

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/05/93

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
----------	alpha-BHC	20	UJ
319-85-7--------	beta-BHC	20	U
319-86-8--------	delta-BHC	20	UJ
----------	gamma-BHC (Lindane)	20	UJ
----------	Heptachlor	20	U
----------	Aldrin	2.2	~~B~~JPD an
1024-57-3-------	Heptachlor epoxide	20	U
----------	Endosulfan I	20	U
----------	Dieldrin	39	JPD
72-55-9---------	4,4'-DDE	61	PD
----------	Endrin	10	JPD
33213-65-9------	Endosulfan II	39	U
----------	4,4'-DDD	39	UJ
1031-07-8-------	Endosulfan sulfate	39	U
----------	4,4'-DDT	57	PDJ
----------	Methoxychlor	200	UJ
53494-70-5------	Endrin ketone	39	UJ
----------	Endrin aldehyde	39	UJ
5103-71-9-------	alpha-Chlordane	20	U
5103-74-2-------	gamma-Chlordane	20	U
8001-35-2-------	Toxaphene	2000	U
12674-11-2------	Aroclor-1016	390	U
11104-28-2------	Aroclor-1221	790	U
11141-16-5------	Aroclor-1232	390	U
53469-21-9------	Aroclor-1242	390	U
12672-29-6------	Aroclor-1248	390	U
11097-69-1------	Aroclor-1254	390	U
11096-82-5------	Aroclor-1260	390	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

La Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333781

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0415LC06

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 20 Date Analyzed: 04/15/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	20	~~B~~U am
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	5	J
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333781

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0415LC06

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 20 Date Analyzed: 04/15/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

.b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333781

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0504K07

Level: (low/med) MED Date Received: 04/13/93

% Moisture: 20 decanted: (Y/N) N Date Extracted: 04/16/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	23000	U
111-44-4	bis(2-Chloroethyl)Ether	23000	U
95-57-8	2-Chlorophenol	23000	U
541-73-1	1,3-Dichlorobenzene	23000	U
106-46-7	1,4-Dichlorobenzene	23000	U
95-50-1	1,2-Dichlorobenzene	23000	U
95-48-7	2-Methylphenol	23000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	23000	U
106-44-5	4-Methylphenol	23000	U
621-64-7	N-Nitroso-Di-n-Propylamine	23000	U
67-72-1	Hexachloroethane	23000	U
98-95-3	Nitrobenzene	23000	U
78-59-1	Isophorone	23000	U
88-75-5	2-Nitrophenol	23000	U
105-67-9	2,4-Dimethylphenol	23000	U
111-91-1	bis(2-Chloroethoxy)Methane	23000	U
120-83-2	2,4-Dichlorophenol	23000	U
120-82-1	1,2,4-Trichlorobenzene	23000	U
91-20-3	Naphthalene	23000	U
106-47-8	4-Chloroaniline	23000	U
87-68-3	Hexachlorobutadiene	23000	U
59-50-7	4-Chloro-3-Methylphenol	23000	U
91-57-6	2-Methylnaphthalene	23000	U
77-47-4	Hexachlorocyclopentadiene	23000	U
88-06-2	2,4,6-Trichlorophenol	23000	U
95-95-4	2,4,5-Trichlorophenol	57000	U
91-58-7	2-Chloronaphthalene	23000	U
88-74-4	2-Nitroaniline	57000	U
131-11-3	Dimethylphthalate	23000	U
208-96-8	Acenaphthylene	23000	U
606-20-2	2,6-Dinitrotoluene	23000	U
99-09-2	3-Nitroaniline	57000	UJ
83-32-9	Acenaphthene	23000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

.b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333781

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0504K07

Level: (low/med) MED Date Received: 04/13/93

% Moisture: 20 decanted: (Y/N) N Date Extracted: 04/16/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	57000	U
100-02-7	4-Nitrophenol	57000	U
132-64-9	Dibenzofuran	23000	U
121-14-2	2,4-Dinitrotoluene	23000	U
84-66-2	Diethylphthalate	23000	U
7005-72-3	4-Chlorophenyl-phenylether	23000	U
86-73-7	Fluorene	23000	U
100-10-6	4-Nitroaniline	57000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	57000	U
86-30-6	N-Nitrosodiphenylamine (1)	23000	U
101-55-3	4-Bromophenyl-phenylether	23000	U
118-74-1	Hexachlorobenzene	23000	U
87-86-5	Pentachlorophenol	57000	U
85-01-8	Phenanthrene	23000	U
120-12-7	Anthracene	23000	U
86-74-8	Carbazole	23000	U
84-74-2	Di-n-Butylphthalate	23000	U
206-44-0	Fluoranthene	5400	J
129-00-0	Pyrene	5300	J
85-68-7	Butylbenzylphthalate	23000	U
91-94-1	3,3'-Dichlorobenzidine	23000	U
56-55-3	Benzo(a)Anthracene	23000	U
218-01-9	Chrysene	23000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	15000	J
117-84-0	Di-n-Octyl Phthalate	23000	U
205-99-2	Benzo(b)Fluoranthene	23000	U
207-08-9	Benzo(k)Fluoranthene	23000	U
50-32-8	Benzo(a)Pyrene	23000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	23000	U
53-70-3	Dibenz(a,h)Anthracene	23000	U
191-24-2	Benzo(g,h,i)Perylene	23000	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103

ab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333781

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0504K07

Level: (low/med) MED Date Received: 04/13/93

% Moisture: 20 decanted: (Y/N) N Date Extracted: 04/16/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.5

Number TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	28.91	4400	J
2.	UNKNOWN	29.39	5500	J
3.	UNKNOWN	30.07	12000	J
4.	UNKNOWN ALIP. HYDROCARBON	31.57	18000	J
5.	UNKNOWN	33.39	5800	J
6.	UNKNOWN	33.62	7400	J
7.	UNKNOWN	33.94	4000	J
8.	UNKNOWN	34.12	3200	J
9.	UNKNOWN	34.24	4000	J
10.	UNKNOWN	34.34	12000	J
11.	UNKNOWN	34.46	17000	J
12.	UNKNOWN	34.67	10000	J
13.	UNKNOWN	34.72	8600	J
14.	UNKNOWN	34.74	5100	J
15.	UNKNOWN	34.99	2900	J
16.	UNKNOWN	35.11	15000	J
17.	UNKNOWN	36.06	13000	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333781D

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
----------	alpha-BHC	21	UJ
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	UJ
----------	gamma-BHC (Lindane)	21	UJ
----------	Heptachlor	21	U
----------	Aldrin	21	U
1024-57-3	Heptachlor epoxide	21	U
----------	Endosulfan I	21	U
----------	Dieldrin	41	U
72-55-9	4,4'-DDE	41	U
----------	Endrin	41	U
33213-65-9	Endosulfan II	960	PD
----------	4,4'-DDD	41	U
1031-07-8	Endosulfan sulfate	41	U
----------	4,4'-DDT	41	U
----------	Methoxychlor	7500	PD~~J~~ arn
53494-70-5	Endrin ketone	41	U
----------	Endrin aldehyde	41	U
5103-71-9	alpha-Chlordane	21	U
5103-74-2	gamma-Chlordane	370	PD
8001-35-2	Toxaphene	2100	U
12674-11-2	Aroclor-1016	410	U
11104-28-2	Aroclor-1221	830	U
11141-16-5	Aroclor-1232	410	U
53469-21-9	Aroclor-1242	410	U
12672-29-6	Aroclor-1248	57000 ~~410~~	~~U~~ C cmc
11097-69-1	Aroclor-1254	25000	PD~~J~~ arn
11096-82-5	Aroclor-1260	38000	PD~~J~~ arn

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103DL

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: 333781DD

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.00 (uL) Dilution Factor: 100

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
----------	alpha-BHC	210	UJ
319-85-7	beta-BHC	210	U
319-86-8	delta-BHC	210	UJ
----------	gamma-BHC (Lindane)	210	UJ
----------	Heptachlor	210	U
----------	Aldrin	1700	~~P~~PD
1024-57-3	Heptachlor epoxide	210	U
----------	Endosulfan I	210	U
----------	Dieldrin	410	U
72-55-9	4,4'-DDE	410	U
----------	Endrin	1700	PDJ
33213-65-9	Endosulfan II	1100	PD
----------	4,4'-DDD	410	U
1031-07-8	Endosulfan sulfate	410	U
----------	4,4'-DDT	410	UJ
----------	Methoxychlor	2100	UJ
53494-70-5	Endrin ketone	410	UJ
----------	Endrin aldehyde	970	PD
5103-71-9	alpha-Chlordane	210	U
5103-74-2	gamma-Chlordane	200	JPD
8001-35-2	Toxaphene	21000	U
12674-11-2	Aroclor-1016	4100	U
11104-28-2	Aroclor-1221	8300	U
11141-16-5	Aroclor-1232	4100	U
53469-21-9	Aroclor-1242	4100	U
12672-29-6	Aroclor-1248	25000	PD
11097-69-1	Aroclor-1254	29000	PD
11096-82-5	Aroclor-1260	44000	PD

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

L Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333782

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0420LC05

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 34 Date Analyzed: 04/20/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15	U
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	25	~~B~~U
67-64-1	Acetone	15	U
75-15-0	Carbon Disulfide	15	U
75-35-4	1,1-Dichloroethene	15	U
75-34-3	1,1-Dichloroethane	15	U
540-59-0	1,2-Dichloroethene (total)	15	U
67-66-3	Chloroform	15	U
107-06-2	1,2-Dichloroethane	15	U
78-93-3	2-Butanone	15	U
71-55-6	1,1,1-Trichloroethane	15	U
56-23-5	Carbon Tetrachloride	15	U
75-27-4	Bromodichloromethane	15	U
78-87-5	1,2-Dichloropropane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
79-01-6	Trichloroethene	15	U
124-48-1	Dibromochloromethane	15	U
79-00-5	1,1,2-Trichloroethane	15	U
71-43-2	Benzene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
75-25-2	Bromoform	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-88-3	Toluene	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
100-42-5	Styrene	15	U
1330-20-7	Xylene (total)	15	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104

Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333782

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0420LC05

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 34 Date Analyzed: 04/20/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

nber TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-3	ETHYL ETHER	5.13	9	JN

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D33782

Sample wt/vol: 1.0 (g/mL) G Lab File ID: C0504K08

Level: (low/med) MED Date Received: 04/13/93

% Moisture: 34 decanted: (Y/N) N Date Extracted: 04/16/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	18000	J
111-44-4	bis(2-Chloroethyl)Ether	30000	U
95-57-8	2-Chlorophenol	30000	U
541-73-1	1,3-Dichlorobenzene	30000	U
106-46-7	1,4-Dichlorobenzene	30000	U
95-50-1	1,2-Dichlorobenzene	30000	U
95-48-7	2-Methylphenol	30000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	30000	U
106-44-5	4-Methylphenol	30000	U
621-64-7	N-Nitroso-Di-n-Propylamine	30000	U
67-72-1	Hexachloroethane	30000	U
98-95-3	Nitrobenzene	30000	U
78-59-1	Isophorone	30000	U
88-75-5	2-Nitrophenol	30000	U
105-67-9	2,4-Dimethylphenol	30000	U
111-91-1	bis(2-Chloroethoxy)Methane	30000	U
120-83-2	2,4-Dichlorophenol	30000	U
120-82-1	1,2,4-Trichlorobenzene	30000	U
91-20-3	Naphthalene	30000	U
106-47-8	4-Chloroaniline	30000	U
87-68-3	Hexachlorobutadiene	30000	U
59-50-7	4-Chloro-3-Methylphenol	30000	U
91-57-6	2-Methylnaphthalene	30000	U
77-47-4	Hexachlorocyclopentadiene	30000	U
88-06-2	2,4,6-Trichlorophenol	30000	U
95-95-4	2,4,5-Trichlorophenol	76000	U
91-58-7	2-Chloronaphthalene	30000	U
88-74-4	2-Nitroaniline	76000	U
131-11-3	Dimethylphthalate	30000	U
208-96-8	Acenaphthylene	30000	U
606-20-2	2,6-Dinitrotoluene	30000	U
99-09-2	3-Nitroaniline	76000	UJ
83-32-9	Acenaphthene	30000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

ab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D33782

Sample wt/vol: 1.0 (g/mL) G Lab File ID: C0504K08

Level: (low/med) MED Date Received: 04/13/93

% Moisture: 34 decanted: (Y/N) N Date Extracted: 04/16/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	76000	U
100-02-7	4-Nitrophenol	76000	U
132-64-9	Dibenzofuran	30000	U
121-14-2	2,4-Dinitrotoluene	30000	U
84-66-2	Diethylphthalate	30000	U
7005-72-3	4-Chlorophenyl-phenylether	30000	U
86-73-7	Fluorene	30000	U
100-10-6	4-Nitroaniline	76000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	76000	U
86-30-6	N-Nitrosodiphenylamine (1)	30000	U
101-55-3	4-Bromophenyl-phenylether	30000	U
118-74-1	Hexachlorobenzene	30000	U
87-86-5	Pentachlorophenol	76000	U
85-01-8	Phenanthrene	6600	J
120-12-7	Anthracene	30000	U
86-74-8	Carbazole	30000	U
84-74-2	Di-n-Butylphthalate	30000	U
206-44-0	Fluoranthene	12000	J
129-00-0	Pyrene	10000	J
85-68-7	Butylbenzylphthalate	30000	U
91-94-1	3,3'-Dichlorobenzidine	30000	U
56-55-3	Benzo(a)Anthracene	6200	J
218-01-9	Chrysene	30000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	12000	J
117-84-0	Di-n-Octyl Phthalate	30000	U
205-99-2	Benzo(b)Fluoranthene	14000	J
207-08-9	Benzo(k)Fluoranthene	30000	U
50-32-8	Benzo(a)Pyrene	30000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	30000	U
53-70-3	Dibenz(a,h)Anthracene	30000	U
191-24-2	Benzo(g,h,i)Perylene	30000	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104

b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D33782

Sample wt/vol: 1.0 (g/mL) G Lab File ID: C0504K08

Level: (low/med) MED Date Received: 04/13/93

% Moisture: 34 decanted: (Y/N) N Date Extracted: 04/16/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.1

Number TICs found: 16

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 105-60-2	CAPROLACTAM	16.02	22000	JN
2.	UNKNOWN ALIP. HYDROCARBON	20.94	16000	J
3.	UNKNOWN	33.34	7000	J
4.	UNKNOWN	33.32	5700	J
5.	UNKNOWN	34.42	11000	J
6.	UNKNOWN	34.72	7200	J
7.	UNKNOWN	35.06	11000	J
8.	UNKNOWN	35.07	8200	J
9.	UNKNOWN	35.26	5300	J
10.	UNKNOWN	35.56	11000	J
11.	UNKNOWN	35.81	14000	J
12.	UNKNOWN	36.74	8100	J
13.	UNKNOWN	37.01	1500	J
14.	UNKNOWN	37.46	5400	J
15.	UNKNOWN	39.41	19000	J
16.	UNKNOWN	41.52	19000	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

.b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333782D

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 34 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
----------	alpha-BHC	26	UJ
319-85-7	beta-BHC	26	U
319-86-8	delta-BHC	26	UJ
----------	gamma-BHC (Lindane)	26	UJ
----------	Heptachlor	26	U
----------	Aldrin	26	U
1024-57-3	Heptachlor epoxide	26	U
----------	Endosulfan I	26	U
----------	Dieldrin	50	U
72-55-9	4,4'-DDE	50	U
----------	Endrin	50	U
33213-65-9	Endosulfan II	50	U
----------	4,4'-DDD	50	U
1031-07-8	Endosulfan sulfate	280	PD
----------	4,4'-DDT	300	PDJ
----------	Methoxychlor	260	UJ
53494-70-5	Endrin ketone	620	PD
----------	Endrin aldehyde	50	U
5103-71-9	alpha-Chlordane	26	U
5103-74-2	gamma-Chlordane	140	PD
8001-35-2	Toxaphene	2600	U
12674-11-2	Aroclor-1016	500	U
11104-28-2	Aroclor-1221	1000	U
11141-16-5	Aroclor-1232	500	U
53469-21-9	Aroclor-1242	500	U
12672-29-6	Aroclor-1248	500	U
11097-69-1	Aroclor-1254	17000	PDC
11096-82-5	Aroclor-1260	13000	PDØ

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104DL

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: 333782DD

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 34 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.00 (uL) Dilution Factor: 100

GPC Cleanup: (Y/N) Y pH: 8.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
----------	alpha-BHC	260	UJ
319-85-7	beta-BHC	260	U
319-86-8	delta-BHC	260	UJ
----------	gamma-BHC (Lindane)	260	UJ
----------	Heptachlor	260	U
----------	Aldrin	2200	~~J~~PD
1024-57-3	Heptachlor epoxide	260	U
----------	Endosulfan I	260	U
----------	Dieldrin	500	U
72-55-9	4,4'-DDE	920	PD
----------	Endrin	180	JPD
33213-65-9	Endosulfan II	290	JPD
----------	4,4'-DDD	500	U
1031-07-8	Endosulfan sulfate	31	JPD
----------	4,4'-DDT	120	JPD
----------	Methoxychlor	2600	UJ
53494-70-5	Endrin ketone	500	UJ
----------	Endrin aldehyde	500	U
5103-71-9	alpha-Chlordane	260	U
5103-74-2	gamma-Chlordane	160	JPD
8001-35-2	Toxaphene	26000	U
12674-11-2	Aroclor-1016	5000	U
11104-28-2	Aroclor-1221	10000	U
11141-16-5	Aroclor-1232	5000	U
53469-21-9	Aroclor-1242	5000	U
12672-29-6	Aroclor-1248	44000	PD
11097-69-1	Aroclor-1254	21000	PD
11096-82-5	Aroclor-1260	13000	PD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333783

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0415LC07

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 28 Date Analyzed: 04/15/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	14 ~~6~~	~~BJ~~U am
67-64-1	Acetone	8	J
75-15-0	Carbon Disulfide	14	U
75-35-4	1,1-Dichloroethene	14	U
75-34-3	1,1-Dichloroethane	14	U
540-59-0	1,2-Dichloroethene (total)	14	U
67-66-3	Chloroform	14	U
107-06-2	1,2-Dichloroethane	14	U
78-93-3	2-Butanone	14	U
71-55-6	1,1,1-Trichloroethane	14	U
56-23-5	Carbon Tetrachloride	14	U
75-27-4	Bromodichloromethane	14	U
78-87-5	1,2-Dichloropropane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
79-01-6	Trichloroethene	14	U
124-48-1	Dibromochloromethane	14	U
79-00-5	1,1,2-Trichloroethane	14	U
71-43-2	Benzene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
75-25-2	Bromoform	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-88-3	Toluene	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
100-42-5	Styrene	14	U
1330-20-7	Xylene (total)	14	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105

La Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333783

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0415LC07

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 28 Date Analyzed: 04/15/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

N er TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333783

Sample wt/vol: 1.0 (g/mL) G Lab File ID: C0504K06

Level: (low/med) MED Date Received: 04/13/93

% Moisture: 28 decanted: (Y/N) N Date Extracted: 04/16/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	28000	U
111-44-4	bis(2-Chloroethyl)Ether	28000	U
95-57-8	2-Chlorophenol	28000	U
541-73-1	1,3-Dichlorobenzene	28000	U
106-46-7	1,4-Dichlorobenzene	28000	U
95-50-1	1,2-Dichlorobenzene	28000	U
95-48-7	2-Methylphenol	28000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	28000	U
106-44-5	4-Methylphenol	28000	U
621-64-7	N-Nitroso-Di-n-Propylamine	28000	U
67-72-1	Hexachloroethane	28000	U
98-95-3	Nitrobenzene	28000	U
78-59-1	Isophorone	28000	U
88-75-5	2-Nitrophenol	28000	U
105-67-9	2,4-Dimethylphenol	28000	U
111-91-1	bis(2-Chloroethoxy)Methane	28000	U
120-83-2	2,4-Dichlorophenol	28000	U
120-82-1	1,2,4-Trichlorobenzene	28000	U
91-20-3	Naphthalene	28000	U
106-47-8	4-Chloroaniline	28000	U
87-68-3	Hexachlorobutadiene	28000	U
59-50-7	4-Chloro-3-Methylphenol	28000	U
91-57-6	2-Methylnaphthalene	28000	U
77-47-4	Hexachlorocyclopentadiene	28000	U
88-06-2	2,4,6-Trichlorophenol	28000	U
95-95-4	2,4,5-Trichlorophenol	69000	U
91-58-7	2-Chloronaphthalene	28000	U
88-74-4	2-Nitroaniline	69000	U
131-11-3	Dimethylphthalate	28000	U
208-96-8	Acenaphthylene	28000	U
606-20-2	2,6-Dinitrotoluene	28000	U
99-09-2	3-Nitroaniline	69000	UJ
83-32-9	Acenaphthene	28000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333783

Sample wt/vol: 1.0 (g/mL) G Lab File ID: C0504K06

Level: (low/med) MED Date Received: 04/13/93

% Moisture: 28 decanted: (Y/N) N Date Extracted: 04/16/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	69000	U
100-02-7	4-Nitrophenol	69000	U
132-64-9	Dibenzofuran	28000	U
121-14-2	2,4-Dinitrotoluene	28000	U
84-66-2	Diethylphthalate	28000	U
7005-72-3	4-Chlorophenyl-phenylether	28000	U
86-73-7	Fluorene	28000	U
100-10-6	4-Nitroaniline	69000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	69000	U
86-30-6	N-Nitrosodiphenylamine (1)	28000	U
101-55-3	4-Bromophenyl-phenylether	28000	U
118-74-1	Hexachlorobenzene	28000	U
87-86-5	Pentachlorophenol	69000	U
85-01-8	Phenanthrene	28000	U
120-12-7	Anthracene	28000	U
86-74-8	Carbazole	28000	U
84-74-2	Di-n-Butylphthalate	28000	U
206-44-0	Fluoranthene	28000	U
129-00-0	Pyrene	28000	U
85-68-7	Butylbenzylphthalate	28000	U
91-94-1	3,3'-Dichlorobenzidine	28000	U
56-55-3	Benzo(a)Anthracene	28000	U
218-01-9	Chrysene	28000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	28000	U
117-84-0	Di-n-Octyl Phthalate	28000	U
205-99-2	Benzo(b)Fluoranthene	28000	U
207-08-9	Benzo(k)Fluoranthene	28000	U
50-32-8	Benzo(a)Pyrene	28000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	28000	U
53-70-3	Dibenz(a,h)Anthracene	28000	U
191-24-2	Benzo(g,h,i)Perylene	28000	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333783

Sample wt/vol: 1.0 (g/mL) G Lab File ID: C0504K06

Level: (low/med) MED Date Received: 04/13/93

% Moisture: 28 decanted: (Y/N) N Date Extracted: 04/16/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.0

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN PCB	28.34	12000	J
2.	UNKNOWN PCB	28.81	12000	J
3.	UNKNOWN PCB	29.41	11000	J
4.	UNKNOWN PCB	29.72	7700	J
5.	UNKNOWN PCB	30.22	5200	J
6.	UNKNOWN PCB	30.79	12000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333783D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 30 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
----------	alpha-BHC	24	UJ
319-85-7--------	beta-BHC	24	U
319-86-8--------	delta-BHC	24	UJ
----------	gamma-BHC (Lindane)	24	UJ
----------	Heptachlor	24	U
----------	Aldrin	1200	~~P~~PD am
1024-57-3-------	Heptachlor epoxide	24	U
----------	Endosulfan I	24	U
----------	Dieldrin	47	U
72-55-9---------	4,4'-DDE	47	U
----------	Endrin	47	U
33213-65-9------	Endosulfan II	770	PD
----------	4,4'-DDD	47	U
1031-07-8-------	Endosulfan sulfate	280	PD
----------	4,4'-DDT	490	PDJ
----------	Methoxychlor	240	UJ
53494-70-5------	Endrin ketone	530	PD
----------	Endrin aldehyde	47	U
5103-71-9-------	alpha-Chlordane	24	U
5103-74-2-------	gamma-Chlordane	160	PD
8001-35-2-------	Toxaphene	2400	U
12674-11-2------	Aroclor-1016	470	U
11104-28-2------	Aroclor-1221	950	U
11141-16-5------	Aroclor-1232	470	U
53469-21-9------	Aroclor-1242	470	U
12672-29-6------	Aroclor-1248	14000	PDC
11097-69-1------	Aroclor-1254	31000	PDC
11096-82-5------	Aroclor-1260	24000	PDC

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105DL

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: 333783DD

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 28 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.00 (uL) Dilution Factor: 100

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND		Q	
	alpha-BHC	240	UJ	
319-85-7	beta-BHC	200	~~B~~JPD	am
319-86-8	delta-BHC	240	UJ	
	gamma-BHC (Lindane)	240	UJ	
	Heptachlor	240	U	
	Aldrin	1300	~~B~~PD	am
1024-57-3	Heptachlor epoxide	240	U	
	Endosulfan I	240	U	
	Dieldrin	460	U	
72-55-9	4,4'-DDE	460	U	
	Endrin	460	UJ	
33213-65-9	Endosulfan II	1100	PD	
	4,4'-DDD	460	U	
1031-07-8	Endosulfan sulfate	130	JPD	
	4,4'-DDT	350	JPD	
	Methoxychlor	2400	UJ	
53494-70-5	Endrin ketone	460	UJ	
	Endrin aldehyde	460	U	
5103-71-9	alpha-Chlordane	240	U	
5103-74-2	gamma-Chlordane	190	JPD	
8001-35-2	Toxaphene	24000	U	
12674-11-2	Aroclor-1016	4600	U	
11104-28-2	Aroclor-1221	9300	U	
11141-16-5	Aroclor-1232	4600	U	
53469-21-9	Aroclor-1242	4600	U	
12672-29-6	Aroclor-1248	4600	U	
11097-69-1	Aroclor-1254	40000	PD	
11096-82-5	Aroclor-1260	32000	PD	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

La Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333784

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0415LC08

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 17 Date Analyzed: 04/15/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	14	~~B~~ U am
67-64-1	Acetone	3	J
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333784

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0415LC08

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 17 Date Analyzed: 04/15/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333784

Sample wt/vol: 1.0 (g/mL) G Lab File ID: C0504K04

Level: (low/med) MED Date Received: 04/13/93

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/16/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	24000	U
111-44-4	bis(2-Chloroethyl)Ether	24000	U
95-57-8	2-Chlorophenol	24000	U
541-73-1	1,3-Dichlorobenzene	24000	U
106-46-7	1,4-Dichlorobenzene	24000	U
95-50-1	1,2-Dichlorobenzene	24000	U
95-48-7	2-Methylphenol	24000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	24000	U
106-44-5	4-Methylphenol	24000	U
621-64-7	N-Nitroso-Di-n-Propylamine	24000	U
67-72-1	Hexachloroethane	24000	U
98-95-3	Nitrobenzene	24000	U
78-59-1	Isophorone	24000	U
88-75-5	2-Nitrophenol	24000	U
105-67-9	2,4-Dimethylphenol	24000	U
111-91-1	bis(2-Chloroethoxy)Methane	24000	U
120-83-2	2,4-Dichlorophenol	24000	U
120-82-1	1,2,4-Trichlorobenzene	24000	U
91-20-3	Naphthalene	24000	U
106-47-8	4-Chloroaniline	24000	U
87-68-3	Hexachlorobutadiene	24000	U
59-50-7	4-Chloro-3-Methylphenol	24000	U
91-57-6	2-Methylnaphthalene	24000	U
77-47-4	Hexachlorocyclopentadiene	24000	U
88-06-2	2,4,6-Trichlorophenol	24000	U
95-95-4	2,4,5-Trichlorophenol	60000	U
91-58-7	2-Chloronaphthalene	24000	U
88-74-4	2-Nitroaniline	60000	U
131-11-3	Dimethylphthalate	24000	U
208-96-8	Acenaphthylene	24000	U
606-20-2	2,6-Dinitrotoluene	24000	U
99-09-2	3-Nitroaniline	60000	UJ
83-32-9	Acenaphthene	24000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

.b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333784

Sample wt/vol: 1.0 (g/mL) G Lab File ID: C0504K04

Level: (low/med) MED Date Received: 04/13/93

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/16/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	60000	U
100-02-7	4-Nitrophenol	60000	U
132-64-9	Dibenzofuran	24000	U
121-14-2	2,4-Dinitrotoluene	24000	U
84-66-2	Diethylphthalate	24000	U
7005-72-3	4-Chlorophenyl-phenylether	24000	U
86-73-7	Fluorene	24000	U
100-10-6	4-Nitroaniline	60000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	60000	U
86-30-6	N-Nitrosodiphenylamine (1)	24000	U
101-55-3	4-Bromophenyl-phenylether	24000	U
118-74-1	Hexachlorobenzene	24000	U
87-86-5	Pentachlorophenol	60000	U
85-01-8	Phenanthrene	24000	U
120-12-7	Anthracene	24000	U
86-74-8	Carbazole	24000	U
84-74-2	Di-n-Butylphthalate	24000	U
206-44-0	Fluoranthene	24000	U
129-00-0	Pyrene	24000	U
85-68-7	Butylbenzylphthalate	24000	U
91-94-1	3,3'-Dichlorobenzidine	24000	U
56-55-3	Benzo(a)Anthracene	24000	U
218-01-9	Chrysene	24000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	24000	U
117-84-0	Di-n-Octyl Phthalate	24000	U
205-99-2	Benzo(b)Fluoranthene	24000	U
207-08-9	Benzo(k)Fluoranthene	24000	U
50-32-8	Benzo(a)Pyrene	24000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	24000	U
53-70-3	Dibenz(a,h)Anthracene	24000	U
191-24-2	Benzo(g,h,i)Perylene	24000	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333784

Sample wt/vol: 1.0 (g/mL) G Lab File ID: C0504K04

Level: (low/med) MED Date Received: 04/13/93

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/16/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN PCB	27.02	10000	J
2.	UNKNOWN PCB	27.82	9200	J
3.	UNKNOWN PCB	28.34	8400	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333784D

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
----------	alpha-BHC	20	UJ
319-85-7--------	beta-BHC	20	U
319-86-8--------	delta-BHC	20	UJ
----------	gamma-BHC (Lindane)	20	UJ
----------	Heptachlor	20	U
----------	Aldrin	20	U
1024-57-3-------	Heptachlor epoxide	20	U
----------	Endosulfan I	20	U
----------	Dieldrin	39	U
72-55-9---------	4,4'-DDE	39	U
----------	Endrin	39	U
33213-65-9------	Endosulfan II	39	U
----------	4,4'-DDD	39	U
1031-07-8-------	Endosulfan sulfate	210	PD
----------	4,4'-DDT	39	U
----------	Methoxychlor	200	UJ
53494-70-5------	Endrin ketone	440	PD
----------	Endrin aldehyde	39	U
5103-71-9-------	alpha-Chlordane	20	U
5103-74-2-------	gamma-Chlordane	230	PD
8001-35-2-------	Toxaphene	2000	U
12674-11-2------	Aroclor-1016	390	U
11104-28-2------	Aroclor-1221	800	U
11141-16-5------	Aroclor-1232	390	U
53469-21-9------	Aroclor-1242	390	U
12672-29-6------	Aroclor-1248	390	U
11097-69-1------	Aroclor-1254	29000	PDC
11096-82-5------	Aroclor-1260	14000	PD~~U~~

am

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106DL

b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: 333784DD

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.00 (uL) Dilution Factor: 100

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
----------	alpha-BHC	200	UJ
319-85-7--------	beta-BHC	200	U
319-86-8--------	delta-BHC	200	UJ
----------	gamma-BHC (Lindane)	200	UJ
----------	Heptachlor	200	U
----------	Aldrin	2000	~~J~~PD
1024-57-3-------	Heptachlor epoxide	200	U
----------	Endosulfan I	200	U
----------	Dieldrin	390	U
72-55-9---------	4,4'-DDE	390	U
----------	Endrin	390	UJ
33213-65-9------	Endosulfan II	390	U
----------	4,4'-DDD	390	U
1031-07-8-------	Endosulfan sulfate	390	U
----------	4,4'-DDT	390	UJ
----------	Methoxychlor	2000	UJ
53494-70-5------	Endrin ketone	390	UJ
----------	Endrin aldehyde	390	U
5103-71-9-------	alpha-Chlordane	200	U
5103-74-2-------	gamma-Chlordane	290	PD
8001-35-2-------	Toxaphene	20000	U
12674-11-2------	Aroclor-1016	3900	U
11104-28-2------	Aroclor-1221	8000	U
11141-16-5------	Aroclor-1232	3900	U
53469-21-9------	Aroclor-1242	3900	U
12672-29-6------	Aroclor-1248	3900	U
11097-69-1------	Aroclor-1254	44000	PD
11096-82-5------	Aroclor-1260	18000	PD

am

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333785

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0420LC06

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 17 Date Analyzed: 04/20/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Chloromethane	12	U	
74-83-9	Bromomethane	12	U	
75-01-4	Vinyl Chloride	12	U	
75-00-3	Chloroethane	12	U	
75-09-2	Methylene Chloride	33	~~B~~U	am
67-64-1	Acetone	12 ~~6~~	~~BJ~~U	am
75-15-0	Carbon Disulfide	12	U	
75-35-4	1,1-Dichloroethene	12	U	
75-34-3	1,1-Dichloroethane	12	U	
540-59-0	1,2-Dichloroethene (total)	12	U	
67-66-3	Chloroform	12	U	
107-06-2	1,2-Dichloroethane	12	U	
78-93-3	2-Butanone	12	U	
71-55-6	1,1,1-Trichloroethane	12	U	
56-23-5	Carbon Tetrachloride	12	U	
75-27-4	Bromodichloromethane	12	U	
78-87-5	1,2-Dichloropropane	12	U	
10061-01-5	cis-1,3-Dichloropropene	12	U	
79-01-6	Trichloroethene	12	U	
124-48-1	Dibromochloromethane	12	U	
79-00-5	1,1,2-Trichloroethane	12	U	
71-43-2	Benzene	12	U	
10061-02-6	trans-1,3-Dichloropropene	12	U	
75-25-2	Bromoform	12	U	
108-10-1	4-Methyl-2-Pentanone	12	U	
591-78-6	2-Hexanone	12	U	
127-18-4	Tetrachloroethene	12	U	
79-34-5	1,1,2,2-Tetrachloroethane	12	U	
108-88-3	Toluene	8	J	
108-90-7	Chlorobenzene	12	U	
100-41-4	Ethylbenzene	12	U	
100-42-5	Styrene	12	U	
1330-20-7	Xylene (total)	5	J	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333785

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0420LC06

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 17 Date Analyzed: 04/20/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-3	ETHYL ETHER	5.10	7	JN

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333785

Sample wt/vol: 30.6 (g/mL) G Lab File ID: C0423K06

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/93

Injection Volume: 2.0(uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1600	U
111-44-4	bis(2-Chloroethyl)Ether	1600	U
95-57-8	2-Chlorophenol	1600	U
541-73-1	1,3-Dichlorobenzene	1600	U
106-46-7	1,4-Dichlorobenzene	1600	U
95-50-1	1,2-Dichlorobenzene	1600	U
95-48-7	2-Methylphenol	1600	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1600	U
106-44-5	4-Methylphenol	1600	U
621-64-7	N-Nitroso-Di-n-Propylamine	1600	U
67-72-1	Hexachloroethane	1600	U
98-95-3	Nitrobenzene	1600	U
78-59-1	Isophorone	1600	U
88-75-5	2-Nitrophenol	1600	U
105-67-9	2,4-Dimethylphenol	1600	U
111-91-1	bis(2-Chloroethoxy)Methane	1600	U
120-83-2	2,4-Dichlorophenol	1600	U
120-82-1	1,2,4-Trichlorobenzene	1600	U
91-20-3	Naphthalene	1600	U
106-47-8	4-Chloroaniline	1600	U
87-68-3	Hexachlorobutadiene	1600	U
59-50-7	4-Chloro-3-Methylphenol	1600	U
91-57-6	2-Methylnaphthalene	1600	U
77-47-4	Hexachlorocyclopentadiene	1600	U
88-06-2	2,4,6-Trichlorophenol	1600	U
95-95-4	2,4,5-Trichlorophenol	3800	U
91-58-7	2-Chloronaphthalene	1600	U
88-74-4	2-Nitroaniline	3800	U
131-11-3	Dimethylphthalate	1000	J
208-96-8	Acenaphthylene	1600	U
606-20-2	2,6-Dinitrotoluene	1600	U
99-09-2	3-Nitroaniline	3800	U
83-32-9	Acenaphthene	620	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

.b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333785

Sample wt/vol: 30.6 (g/mL) G Lab File ID: C0423K06

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/93

Injection Volume: 2.0(uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	3800	U
100-02-7	4-Nitrophenol	3800	U
132-64-9	Dibenzofuran	510	J
121-14-2	2,4-Dinitrotoluene	1600	U
84-66-2	Diethylphthalate	1600	U
7005-72-3	4-Chlorophenyl-phenylether	1600	U
86-73-7	Fluorene	440	J
100-10-6	4-Nitroaniline	3800	UJ
534-52-1	4,6-Dinitro-2-methylphenol	3800	U
86-30-6	N-Nitrosodiphenylamine (1)	1600	U
101-55-3	4-Bromophenyl-phenylether	1600	U
118-74-1	Hexachlorobenzene	1600	U
87-86-5	Pentachlorophenol	3800	U
85-01-8	Phenanthrene	1100	J
120-12-7	Anthracene	1600	U
86-74-8	Carbazole	1600	U
84-74-2	Di-n-Butylphthalate	1600 ~~740~~	~~BJ~~ U am
206-44-0	Fluoranthene	3200	
129-00-0	Pyrene	4600	
85-68-7	Butylbenzylphthalate	1600	U
91-94-1	3,3'-Dichlorobenzidine	1600	UJ
56-55-3	Benzo(a)Anthracene	1600	U
218-01-9	Chrysene	1600	U
117-81-7	bis(2-Ethylhexyl)Phthalate	15000	E
117-84-0	Di-n-Octyl Phthalate	1600	U
205-99-2	Benzo(b)Fluoranthene	1600	U
207-08-9	Benzo(k)Fluoranthene	1600	U
50-32-8	Benzo(a)Pyrene	1600	U
193-39-5	Indeno(1,2,3-cd)Pyrene	1600	UJ
53-70-3	Dibenz(a,h)Anthracene	1600	UJ
191-24-2	Benzo(g,h,i)Perylene	1600	UJ

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X107

.b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333785

Sample wt/vol: 30.6 (g/mL) G Lab File ID: C0423K06

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/93

Injection Volume: 2.0(uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.9

Number TICs found: 26

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2PENTANONE,4-HYDROXY4-METHYL	8.75	210000	~~JNBA~~ U an
2.	UNKNOWN ALIP. HYDROCARBON	27.69	740	J
3.	UNKNOWN ALIP. HYDROCARBON	28.06	1300	J
4.	UNKNOWN	28.62	880	J
5.	UNKNOWN	28.66	660	J
6.	UNKNOWN	28.77	870	J
7.	UNKNOWN	28.81	1900	J
8.	UNKNOWN	29.36	860	J
9.	UNKNOWN	29.52	1400	J
10.	UNKNOWN	29.57	1100	J
11.	UNKNOWN ALIP. HYDROCARBON	29.76	1700	J
12.	UNKNOWN	29.82	1700	J
13.	UNKNOWN ALIP. HYDROCARBON	30.42	3800	J
14.	UNKNOWN	30.99	1300	J
15.	UNKNOWN	31.84	2500	J
16.	UNKNOWN	32.12	3500	J
17.	UNKNOWN	32.76	870	J
18.	UNKNOWN	32.92	3000	J
19.	UNKNOWN	33.09	3200	J
20.	UNKNOWN	33.39	3000	J
21.	UNKNOWN	34.22	20000	J
22.	UNKNOWN	34.34	3300	J
23.	UNKNOWN	34.44	12000	J
24.	UNKNOWN	34.61	5900	J
25.	UNKNOWN	34.77	6600	J
26.	UNKNOWN	35.36	23000	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107DL

ıb Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333785

Sample wt/vol: 30.6 (g/mL) G Lab File ID: C0505K03

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/05/93

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	7800	U
111-44-4	bis(2-Chloroethyl)Ether	7800	U
95-57-8	2-Chlorophenol	7800	U
541-73-1	1,3-Dichlorobenzene	7800	U
106-46-7	1,4-Dichlorobenzene	7800	U
95-50-1	1,2-Dichlorobenzene	7800	U
95-48-7	2-Methylphenol	7800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	7800	U
106-44-5	4-Methylphenol	7800	U
621-64-7	N-Nitroso-Di-n-Propylamine	7800	U
67-72-1	Hexachloroethane	7800	U
98-95-3	Nitrobenzene	7800	U
78-59-1	Isophorone	7800	U
88-75-5	2-Nitrophenol	7800	U
105-67-9	2,4-Dimethylphenol	7800	U
111-91-1	bis(2-Chloroethoxy)Methane	7800	U
120-83-2	2,4-Dichlorophenol	7800	U
120-82-1	1,2,4-Trichlorobenzene	7800	U
91-20-3	Naphthalene	7800	U
106-47-8	4-Chloroaniline	7800	U
87-68-3	Hexachlorobutadiene	7800	U
59-50-7	4-Chloro-3-Methylphenol	7800	U
91-57-6	2-Methylnaphthalene	7800	U
77-47-4	Hexachlorocyclopentadiene	7800	U
88-06-2	2,4,6-Trichlorophenol	7800	U
95-95-4	2,4,5-Trichlorophenol	19000	U
91-58-7	2-Chloronaphthalene	7800	U
88-74-4	2-Nitroaniline	19000	U
131-11-3	Dimethylphthalate	7800	U
208-96-8	Acenaphthylene	7800	U
606-20-2	2,6-Dinitrotoluene	7800	U
99-09-2	3-Nitroaniline	19000	UJ
83-32-9	Acenaphthene	7800	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107DL

) Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333785

Sample wt/vol: 30.6 (g/mL) G Lab File ID: C0505K03

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/05/93

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	19000	U
100-02-7	4-Nitrophenol	19000	U
132-64-9	Dibenzofuran	7800	U
121-14-2	2,4-Dinitrotoluene	7800	U
84-66-2	Diethylphthalate	7800	U
7005-72-3	4-Chlorophenyl-phenylether	7800	U
86-73-7	Fluorene	7800	U
100-10-6	4-Nitroaniline	19000	U
534-52-1	4,6-Dinitro-2-methylphenol	19000	U
86-30-6	N-Nitrosodiphenylamine (1)	7800	U
101-55-3	4-Bromophenyl-phenylether	7800	U
118-74-1	Hexachlorobenzene	7800	U
87-86-5	Pentachlorophenol	19000	U
85-01-8	Phenanthrene	1700	J
120-12-7	Anthracene	7800	U
86-74-8	Carbazole	7800	U
84-74-2	Di-n-Butylphthalate	7800	U
206-44-0	Fluoranthene	2800	J
129-00-0	Pyrene	2600	J
85-68-7	Butylbenzylphthalate	7800	U
91-94-1	3,3'-Dichlorobenzidine	7800	U
56-55-3	Benzo(a)Anthracene	1900	J
218-01-9	Chrysene	7800	U
117-81-7	bis(2-Ethylhexyl)Phthalate	5600	J
117-84-0	Di-n-Octyl Phthalate	7800	U
205-99-2	Benzo(b)Fluoranthene	7800	U
207-08-9	Benzo(k)Fluoranthene	7800	U
50-32-8	Benzo(a)Pyrene	7800	U
193-39-5	Indeno(1,2,3-cd)Pyrene	7800	U
53-70-3	Dibenz(a,h)Anthracene	7800	U
191-24-2	Benzo(g,h,i)Perylene	7800	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X107DL

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333785

Sample wt/vol: 30.6 (g/mL) G Lab File ID: C0505K03

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/05/93

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 7.9

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE,4HYDROXY4-METHYL	8.12	210000	~~JNBA~~ Uan
2.	UNKNOWN ALIP. HYDROCARBON	23.22	2800	J
3.	UNKNOWN ALIP. HYDROCARBON	29.96	3500	J
4.	UNKNOWN	31.14	1000	J
5.	UNKNOWN	31.49	3200	J
6.	UNKNOWN	32.14	2900	J
7.	UNKNOWN	32.54	2100	J
8.	UNKNOWN	33.22	740	J
9.	UNKNOWN	33.31	2400	J
10.	UNKNOWN	33.44	2000	J
1.	UNKNOWN	33.79	1300	J
12.	UNKNOWN	34.12	3500	J
13.	UNKNOWN	34.31	4400	J
14.	UNKNOWN	34.54	1900	J
15.	UNKNOWN	34.94	4500	J
16.	UNKNOWN	35.32	710	J
17.	UNKNOWN	35.87	3900	J
18.	UNKNOWN	36.61	2300	J
19.	UNKNOWN	39.24	9600	J
20.	UNKNOWN	41.34	9500	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333785

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND		Q	
----------	alpha-BHC	2.0	UJ	
319-85-7--------	beta-BHC	2.0	U	
319-86-8--------	delta-BHC	2.0	UJ	
----------	gamma-BHC (Lindane)	2.0	UJ	
----------	Heptachlor	2.0	U	
----------	Aldrin	96	~~P~~	am
1024-57-3-------	Heptachlor epoxide	2.0	U	
----------	Endosulfan I	2.0	U	
----------	Dieldrin	3.9	U	
72-55-9---------	4,4'-DDE	3.9	U	
----------	Endrin	69	PJ	
33213-65-9------	Endosulfan II	110	P	
----------	4,4'-DDD	3.9	U	
1031-07-8-------	Endosulfan sulfate	3.9	U	
----------	4,4'-DDT	29	PJ	
----------	Methoxychlor	20	UJ	
53494-70-5------	Endrin ketone	3.9	UJ	
----------	Endrin aldehyde	3.9	U	
5103-71-9-------	alpha-Chlordane	2.0	U	
5103-74-2-------	gamma-Chlordane	22	P	
8001-35-2-------	Toxaphene	200	U	
12674-11-2------	Aroclor-1016	39	U	
11104-28-2------	Aroclor-1221	80	U	
11141-16-5------	Aroclor-1232	770	P	
53469-21-9------	Aroclor-1242	39	U	
12672-29-6------	Aroclor-1248	1100	P~~J~~	am
11097-69-1------	Aroclor-1254	1900	PC	
11096-82-5------	Aroclor-1260	2600	P~~J~~	am

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107DL

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333785D

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
	alpha-BHC	20	UJ
319-85-7	beta-BHC	20	U
319-86-8	delta-BHC	20	UJ
	gamma-BHC (Lindane)	20	UJ
	Heptachlor	20	U
	Aldrin	100	~~J~~PD am
1024-57-3	Heptachlor epoxide	20	U
	Endosulfan I	20	U
	Dieldrin	39	U
72-55-9	4,4'-DDE	39	U
	Endrin	130	D
33213-65-9	Endosulfan II	130	PD
	4,4'-DDD	39	U
1031-07-8	Endosulfan sulfate	39	U
	4,4'-DDT	14	JPD
	Methoxychlor	200	UJ
53494-70-5	Endrin ketone	39	U
	Endrin aldehyde	39	U
5103-71-9	alpha-Chlordane	20	U
5103-74-2	gamma-Chlordane	16	JPD
8001-35-2	Toxaphene	2000	U
12674-11-2	Aroclor-1016	390	U
11104-28-2	Aroclor-1221	800	U
11141-16-5	Aroclor-1232	390	U
53469-21-9	Aroclor-1242	390	U
12672-29-6	Aroclor-1248	390	U
11097-69-1	Aroclor-1254	2200	PD
11096-82-5	Aroclor-1260	2800	PD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333786

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0416LC05

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 26 Date Analyzed: 04/16/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Chloromethane	14	UJ	
74-83-9	Bromomethane	14	U	
75-01-4	Vinyl Chloride	14	U	
75-00-3	Chloroethane	14	U	
75-09-2	Methylene Chloride	28	~~B~~U	am
67-64-1	Acetone	14	U	
75-15-0	Carbon Disulfide	14	U	
75-35-4	1,1-Dichloroethene	14	U	
75-34-3	1,1-Dichloroethane	14	U	
540-59-0	1,2-Dichloroethene (total)	14	U	
67-66-3	Chloroform	14 ~~3~~	~~BJ~~U	am
107-06-2	1,2-Dichloroethane	14	U	
78-93-3	2-Butanone	14	U	
71-55-6	1,1,1-Trichloroethane	14	U	
56-23-5	Carbon Tetrachloride	14	U	
75-27-4	Bromodichloromethane	14	U	
78-87-5	1,2-Dichloropropane	14	U	
10061-01-5	cis-1,3-Dichloropropene	14	U	
79-01-6	Trichloroethene	14	U	
124-48-1	Dibromochloromethane	14	U	
79-00-5	1,1,2-Trichloroethane	14	U	
71-43-2	Benzene	14	U	
10061-02-6	trans-1,3-Dichloropropene	14	U	
75-25-2	Bromoform	14	U	
108-10-1	4-Methyl-2-Pentanone	14	UJ	
591-78-6	2-Hexanone	14	UJ	
127-18-4	Tetrachloroethene	14	UJ	
79-34-5	1,1,2,2-Tetrachloroethane	14	UJ	
108-88-3	Toluene	4	J	
108-90-7	Chlorobenzene	14	UJ	
100-41-4	Ethylbenzene	14	UJ	
100-42-5	Styrene	14	UJ	
1330-20-7	Xylene (total)	14	UJ	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333786

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0416LC05

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 26 Date Analyzed: 04/16/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333786

Sample wt/vol: 30.8 (g/mL) G Lab File ID: C0423K08

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 26 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/93

Injection Volume: 2.0(uL) Dilution Factor: 6.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2600	U
111-44-4	bis(2-Chloroethyl)Ether	2600	U
95-57-8	2-Chlorophenol	2600	U
541-73-1	1,3-Dichlorobenzene	2600	U
106-46-7	1,4-Dichlorobenzene	2600	U
95-50-1	1,2-Dichlorobenzene	2600	U
95-48-7	2-Methylphenol	2600	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2600	U
106-44-5	4-Methylphenol	2600	U
621-64-7	N-Nitroso-Di-n-Propylamine	2600	U
67-72-1	Hexachloroethane	2600	U
98-95-3	Nitrobenzene	2600	U
78-59-1	Isophorone	2600	U
88-75-5	2-Nitrophenol	2600	U
105-67-9	2,4-Dimethylphenol	2600	U
111-91-1	bis(2-Chloroethoxy)Methane	2600	U
120-83-2	2,4-Dichlorophenol	2600	U
120-82-1	1,2,4-Trichlorobenzene	2600	U
91-20-3	Naphthalene	620	J
106-47-8	4-Chloroaniline	2600	U
87-68-3	Hexachlorobutadiene	2600	U
59-50-7	4-Chloro-3-Methylphenol	2600	U
91-57-6	2-Methylnaphthalene	620	J
77-47-4	Hexachlorocyclopentadiene	2600	U
88-06-2	2,4,6-Trichlorophenol	2600	U
95-95-4	2,4,5-Trichlorophenol	6300	U
91-58-7	2-Chloronaphthalene	2600	U
88-74-4	2-Nitroaniline	6300	U
131-11-3	Dimethylphthalate	2600	U
208-96-8	Acenaphthylene	2600	U
606-20-2	2,6-Dinitrotoluene	2600	U
99-09-2	3-Nitroaniline	6300	U
83-32-9	Acenaphthene	2600	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

ab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333786

Sample wt/vol: 30.8 (g/mL) G Lab File ID: C0423K08

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 26 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/93

Injection Volume: 2.0 (uL) Dilution Factor: 6.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	6300	U
100-02-7	4-Nitrophenol	6300	U
132-64-9	Dibenzofuran	2600	U
121-14-2	2,4-Dinitrotoluene	2600	U
84-66-2	Diethylphthalate	2600	U
7005-72-3	4-Chlorophenyl-phenylether	2600	U
86-73-7	Fluorene	2600	U
100-10-6	4-Nitroaniline	6300	UJ
534-52-1	4,6-Dinitro-2-methylphenol	6300	U
86-30-6	N-Nitrosodiphenylamine (1)	2600	U
101-55-3	4-Bromophenyl-phenylether	2600	U
118-74-1	Hexachlorobenzene	2600	U
87-86-5	Pentachlorophenol	6300	U
85-01-8	Phenanthrene	2700	
120-12-7	Anthracene	2600	U
86-74-8	Carbazole	2600	U
84-74-2	Di-n-Butylphthalate	2600	U
206-44-0	Fluoranthene	2600	U
129-00-0	Pyrene	2600	U
85-68-7	Butylbenzylphthalate	2600	U
91-94-1	3,3'-Dichlorobenzidine	2600	UJ
56-55-3	Benzo(a)Anthracene	2600	U
218-01-9	Chrysene	2600	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2600	U
117-84-0	Di-n-Octyl Phthalate	2600	U
205-99-2	Benzo(b)Fluoranthene	2600	U
207-08-9	Benzo(k)Fluoranthene	2600	U
50-32-8	Benzo(a)Pyrene	2600	U
193-39-5	Indeno(1,2,3-cd)Pyrene	2600	UJ
53-70-3	Dibenz(a,h)Anthracene	2600	UJ
191-24-2	Benzo(g,h,i)Perylene	2600	UJ

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X108

.b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333786

Sample wt/vol: 30.8 (g/mL) G Lab File ID: C0423K08

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 26 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/93

Injection Volume: 2.0(uL) Dilution Factor: 6.0

GPC Cleanup: (Y/N) Y pH: 7.9

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2PENTANONE,4HYDROXY4-METHYL	8.75	330000	~~JNBA~~ U am
2.	UNKNOWN	28.71	20000	J
3.	UNKNOWN	28.87	28000	J
4.	UNKNOWN	29.04	4900	J
5.	UNKNOWN	29.09	7400	J
6.	UNKNOWN	29.12	7200	J
7.	UNKNOWN	29.19	610	J
8.	UNKNOWN	29.26	6200	J
9.	UNKNOWN PCB	29.31	9900	J
10.	UNKNOWN	29.42	37000	J
11.	UNKNOWN	29.59	14000	J
12.	UNKNOWN	29.71	9000	J
13.	UNKNOWN	29.82	32000	J
14.	UNKNOWN	29.91	34000	J
15.	UNKNOWN	30.09	3700	J
16.	UNKNOWN	30.17	7800	J
17.	UNKNOWN	30.27	340	J
18.	UNKNOWN	30.32	1200	J
19.	UNKNOWN	30.51	15000	J
20.	UNKNOWN	30.54	9000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333786D

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 19 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
----------	alpha-BHC	21	UJ
319-85-7--------	beta-BHC	21	U
319-86-8--------	delta-BHC	21	UJ
----------	gamma-BHC (Lindane)	21	UJ
----------	Heptachlor	21	U
----------	Aldrin	21	U
1024-57-3-------	Heptachlor epoxide	21	U
----------	Endosulfan I	21	U
----------	Dieldrin	41	U
72-55-9---------	4,4'-DDE	41	U
----------	Endrin	41	U
33213-65-9------	Endosulfan II	41	U
----------	4,4'-DDD	41	U
1031-07-8-------	Endosulfan sulfate	240	PD
----------	4,4'-DDT	41	U
----------	Methoxychlor	210	UJ
53494-70-5------	Endrin ketone	670	PD
----------	Endrin aldehyde	670	PD
5103-71-9-------	alpha-Chlordane	21	U
5103-74-2-------	gamma-Chlordane	180	PD
8001-35-2-------	Toxaphene	2100	U
12674-11-2------	Aroclor-1016	410	U
11104-28-2------	Aroclor-1221	830	U
11141-16-5------	Aroclor-1232	410	U
53469-21-9------	Aroclor-1242	410	U
12672-29-6------	Aroclor-1248	410	U
11097-69-1------	Aroclor-1254	49000	PDC
11096-82-5------	Aroclor-1260	40000	PDC

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108DL

b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: 333786DD

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 19 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.00 (uL) Dilution Factor: 100

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
----------	alpha-BHC	210	UJ
319-85-7--------	beta-BHC	210	U
319-86-8--------	delta-BHC	210	UJ
----------	gamma-BHC (Lindane)	210	UJ
----------	Heptachlor	210	U
----------	Aldrin	1900	~~J~~PD
1024-57-3-------	Heptachlor epoxide	210	U
----------	Endosulfan I	210	U
----------	Dieldrin	410	U
72-55-9---------	4,4'-DDE	410	U
----------	Endrin	410	UJ
33213-65-9------	Endosulfan II	410	U
----------	4,4'-DDD	410	U
1031-07-8-------	Endosulfan sulfate	45	JPD
----------	4,4'-DDT	410	UJ
----------	Methoxychlor	2100	UJ
53494-70-5------	Endrin ketone	410	UJ
----------	Endrin aldehyde	650	PD
5103-71-9-------	alpha-Chlordane	210	U
5103-74-2-------	gamma-Chlordane	210	PD
8001-35-2-------	Toxaphene	21000	U
12674-11-2------	Aroclor-1016	4100	U
11104-28-2------	Aroclor-1221	8300	U
11141-16-5------	Aroclor-1232	4100	U
53469-21-9------	Aroclor-1242	4100	U
12672-29-6------	Aroclor-1248	31000	PD
11097-69-1------	Aroclor-1254	58000	PD
11096-82-5------	Aroclor-1260	49000	PD

am

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333787

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0416LC06

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 18 Date Analyzed: 04/16/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Chloromethane	12	UJ	
74-83-9	Bromomethane	12	U	
75-01-4	Vinyl Chloride	12	U	
75-00-3	Chloroethane	12	U	
75-09-2	Methylene Chloride	26	~~B~~U	an
67-64-1	Acetone	12	U	
75-15-0	Carbon Disulfide	12	U	
75-35-4	1,1-Dichloroethene	12	U	
75-34-3	1,1-Dichloroethane	12	U	
540-59-0	1,2-Dichloroethene (total)	12	U	
67-66-3	Chloroform	12 ~~3~~	~~BJ~~U	an
107-06-2	1,2-Dichloroethane	12	U	
78-93-3	2-Butanone	12	U	
71-55-6	1,1,1-Trichloroethane	12	U	
56-23-5	Carbon Tetrachloride	12	U	
75-27-4	Bromodichloromethane	12	U	
78-87-5	1,2-Dichloropropane	12	U	
10061-01-5	cis-1,3-Dichloropropene	12	U	
79-01-6	Trichloroethene	12	U	
124-48-1	Dibromochloromethane	12	U	
79-00-5	1,1,2-Trichloroethane	12	U	
71-43-2	Benzene	12	U	
10061-02-6	trans-1,3-Dichloropropene	12	U	
75-25-2	Bromoform	12	U	
108-10-1	4-Methyl-2-Pentanone	12	UJ	
591-78-6	2-Hexanone	12	UJ	
127-18-4	Tetrachloroethene	12	UJ	
79-34-5	1,1,2,2-Tetrachloroethane	12	UJ	
108-88-3	Toluene	12	UJ	
108-90-7	Chlorobenzene	12	UJ	
100-41-4	Ethylbenzene	12	UJ	
100-42-5	Styrene	12	UJ	
1330-20-7	Xylene (total)	12	UJ	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333787

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0416LC06

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 18 Date Analyzed: 04/16/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333787

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0504K05

Level: (low/med) MED Date Received: 04/13/93

% Moisture: 18 decanted: (Y/N) N Date Extracted: 04/16/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	22000	U
111-44-4	bis(2-Chloroethyl)Ether	22000	U
95-57-8	2-Chlorophenol	22000	U
541-73-1	1,3-Dichlorobenzene	22000	U
106-46-7	1,4-Dichlorobenzene	22000	U
95-50-1	1,2-Dichlorobenzene	22000	U
95-48-7	2-Methylphenol	22000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	22000	U
106-44-5	4-Methylphenol	22000	U
621-64-7	N-Nitroso-Di-n-Propylamine	22000	U
67-72-1	Hexachloroethane	22000	U
98-95-3	Nitrobenzene	22000	U
78-59-1	Isophorone	22000	U
88-75-5	2-Nitrophenol	22000	U
105-67-9	2,4-Dimethylphenol	22000	U
111-91-1	bis(2-Chloroethoxy)Methane	22000	U
120-83-2	2,4-Dichlorophenol	22000	U
120-82-1	1,2,4-Trichlorobenzene	22000	U
91-20-3	Naphthalene	22000	U
106-47-8	4-Chloroaniline	22000	U
87-68-3	Hexachlorobutadiene	22000	U
59-50-7	4-Chloro-3-Methylphenol	22000	U
91-57-6	2-Methylnaphthalene	22000	U
77-47-4	Hexachlorocyclopentadiene	22000	U
88-06-2	2,4,6-Trichlorophenol	22000	U
95-95-4	2,4,5-Trichlorophenol	56000	U
91-58-7	2-Chloronaphthalene	22000	U
88-74-4	2-Nitroaniline	56000	U
131-11-3	Dimethylphthalate	22000	U
208-96-8	Acenaphthylene	22000	U
606-20-2	2,6-Dinitrotoluene	22000	U
99-09-2	3-Nitroaniline	56000	UJ
83-32-9	Acenaphthene	22000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333787

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0504K05

Level: (low/med) MED Date Received: 04/13/93

% Moisture: 18 decanted: (Y/N) N Date Extracted: 04/16/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	56000	U
100-02-7	4-Nitrophenol	56000	U
132-64-9	Dibenzofuran	22000	U
121-14-2	2,4-Dinitrotoluene	22000	U
84-66-2	Diethylphthalate	22000	U
7005-72-3	4-Chlorophenyl-phenylether	22000	U
86-73-7	Fluorene	22000	U
100-10-6	4-Nitroaniline	56000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	56000	U
86-30-6	N-Nitrosodiphenylamine (1)	22000	U
101-55-3	4-Bromophenyl-phenylether	22000	U
118-74-1	Hexachlorobenzene	22000	U
87-86-5	Pentachlorophenol	56000	U
85-01-8	Phenanthrene	22000	U
120-12-7	Anthracene	22000	U
86-74-8	Carbazole	22000	U
84-74-2	Di-n-Butylphthalate	22000	U
206-44-0	Fluoranthene	22000	U
129-00-0	Pyrene	22000	U
85-68-7	Butylbenzylphthalate	22000	U
91-94-1	3,3'-Dichlorobenzidine	22000	U
56-55-3	Benzo(a)Anthracene	22000	U
218-01-9	Chrysene	22000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	6400	J
117-84-0	Di-n-Octyl Phthalate	22000	U
205-99-2	Benzo(b)Fluoranthene	22000	U
207-08-9	Benzo(k)Fluoranthene	22000	U
50-32-8	Benzo(a)Pyrene	22000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	22000	U
53-70-3	Dibenz(a,h)Anthracene	22000	U
191-24-2	Benzo(g,h,i)Perylene	22000	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X109

Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333787

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0504K05

Level: (low/med) MED Date Received: 04/13/93

% Moisture: 18 decanted: (Y/N) N Date Extracted: 04/16/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.7

Number TICs found: 24

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	29.19	3400	J
2.	UNKNOWN	29.39	6000	J
3.	UNKNOWN	29.97	1200	J
4.	UNKNOWN	32.26	7600	J
5.	UNKNOWN	32.37	8700	J
6.	UNKNOWN	33.37	13000	J
7.	UNKNOWN	33.37	11000	J
8.	UNKNOWN	33.57	2400	J
9.	UNKNOWN	33.77	430	J
10.	UNKNOWN	33.92	9800	J
11.	UNKNOWN	34.46	32000	J
12.	UNKNOWN	34.69	6700	J
13.	UNKNOWN	34.76	4800	J
14.	UNKNOWN	34.94	1800	J
15.	UNKNOWN	35.11	29000	J
16.	UNKNOWN	35.31	11000	J
17.	UNKNOWN	35.49	7300	J
18.	UNKNOWN	36.06	18000	J
19.	UNKNOWN	36.29	5200	J
20.	UNKNOWN	36.42	7700	J
21.	UNKNOWN	36.79	13000	J
22.	UNKNOWN	37.54	15000	J
23.	UNKNOWN	37.92	38000	J
24.	UNKNOWN	39.49	32000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333787D

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/05/93

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
----------	alpha-BHC	21	UJ
319-85-7--------	beta-BHC	21	U
319-86-8--------	delta-BHC	21	UJ
----------	gamma-BHC (Lindane)	21	UJ
----------	Heptachlor	21	U
----------	Aldrin	21	U
1024-57-3-------	Heptachlor epoxide	21	U
----------	Endosulfan I	21	U
----------	Dieldrin	620	PD
72-55-9---------	4,4'-DDE	40	U
----------	Endrin	2700	PDJ
33213-65-9------	Endosulfan II	40	U
----------	4,4'-DDD	40	U
1031-07-8-------	Endosulfan sulfate	150	PD
----------	4,4'-DDT	40	UJ
----------	Methoxychlor	210	UJ
53494-70-5------	Endrin ketone	1000	PDJ
----------	Endrin aldehyde	720	PD
5103-71-9-------	alpha-Chlordane	920	BPD
5103-74-2-------	gamma-Chlordane	210	PD
8001-35-2-------	Toxaphene	2100	U
12674-11-2------	Aroclor-1016	400	U
11104-28-2------	Aroclor-1221	810	U
11141-16-5------	Aroclor-1232	400	U
53469-21-9------	Aroclor-1242	400	U
12672-29-6------	Aroclor-1248	400	U
11097-69-1------	Aroclor-1254	43000	PDC
11096-82-5------	Aroclor-1260	400	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109DL

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: 333787DD

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/05/93

Injection Volume: 2.00 (uL) Dilution Factor: 100

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND	UG/KG	Q
----------	alpha-BHC	210	UJ
319-85-7--------	beta-BHC	210	U
319-86-8--------	delta-BHC	210	UJ
----------	gamma-BHC (Lindane)	210	UJ
----------	Heptachlor	210	U
----------	Aldrin	210	U
1024-57-3-------	Heptachlor epoxide	210	U
----------	Endosulfan I	210	U
----------	Dieldrin	670	PD
72-55-9---------	4,4'-DDE	400	U
----------	Endrin	3200	PD
33213-65-9------	Endosulfan II	1100	PD
----------	4,4'-DDD	400	UJ
1031-07-8-------	Endosulfan sulfate	400	U
----------	4,4'-DDT	400	UJ
----------	Methoxychlor	2100	UJ
53494-70-5------	Endrin ketone	1100	PDJ
----------	Endrin aldehyde	400	UJ
5103-71-9-------	alpha-Chlordane	1100	~~J~~PD am
5103-74-2-------	gamma-Chlordane	210	PD
8001-35-2-------	Toxaphene	21000	U
12674-11-2------	Aroclor-1016	4000	U
11104-28-2------	Aroclor-1221	8100	U
11141-16-5------	Aroclor-1232	4000	U
53469-21-9------	Aroclor-1242	4000	U
12672-29-6------	Aroclor-1248	4000	U
11097-69-1------	Aroclor-1254	51000	PD
11096-82-5------	Aroclor-1260	4000	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

L Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333788

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0416LC08

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 32 Date Analyzed: 04/16/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Chloromethane	15	UJ	
74-83-9	Bromomethane	15	U	
75-01-4	Vinyl Chloride	15	U	
75-00-3	Chloroethane	15	U	
75-09-2	Methylene Chloride	17	~~B~~U	am
67-64-1	Acetone	15	U	
75-15-0	Carbon Disulfide	15	U	
75-35-4	1,1-Dichloroethene	15	U	
75-34-3	1,1-Dichloroethane	15	U	
540-59-0	1,2-Dichloroethene (total)	15	U	
67-66-3	Chloroform	15 ~~4~~	~~B~~U	am
107-06-2	1,2-Dichloroethane	15	U	
78-93-3	2-Butanone	15	U	
71-55-6	1,1,1-Trichloroethane	15	U	
56-23-5	Carbon Tetrachloride	15	U	
75-27-4	Bromodichloromethane	15	U	
78-87-5	1,2-Dichloropropane	15	U	
10061-01-5	cis-1,3-Dichloropropene	15	U	
79-01-6	Trichloroethene	15	U	
124-48-1	Dibromochloromethane	15	U	
79-00-5	1,1,2-Trichloroethane	15	U	
71-43-2	Benzene	15	U	
10061-02-6	trans-1,3-Dichloropropene	15	U	
75-25-2	Bromoform	15	U	
108-10-1	4-Methyl-2-Pentanone	15	UJ	
591-78-6	2-Hexanone	15	UJ	
127-18-4	Tetrachloroethene	15	UJ	
79-34-5	1,1,2,2-Tetrachloroethane	15	UJ	
108-88-3	Toluene	15	UJ	
108-90-7	Chlorobenzene	15	UJ	
100-41-4	Ethylbenzene	15	UJ	
100-42-5	Styrene	15	UJ	
1330-20-7	Xylene (total)	15	UJ	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X110

La Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333788

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0416LC08

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 32 Date Analyzed: 04/16/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

N ber TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333788

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0504K09

Level: (low/med) MED Date Received: 04/13/93

% Moisture: 32 decanted: (Y/N) N Date Extracted: 04/16/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	27000	U
111-44-4	bis(2-Chloroethyl)Ether	27000	U
95-57-8	2-Chlorophenol	27000	U
541-73-1	1,3-Dichlorobenzene	27000	U
106-46-7	1,4-Dichlorobenzene	27000	U
95-50-1	1,2-Dichlorobenzene	27000	U
95-48-7	2-Methylphenol	27000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	27000	U
106-44-5	4-Methylphenol	27000	U
621-64-7	N-Nitroso-Di-n-Propylamine	27000	U
67-72-1	Hexachloroethane	27000	U
98-95-3	Nitrobenzene	27000	U
78-59-1	Isophorone	27000	U
88-75-5	2-Nitrophenol	27000	U
105-67-9	2,4-Dimethylphenol	27000	U
111-91-1	bis(2-Chloroethoxy)Methane	27000	U
120-83-2	2,4-Dichlorophenol	27000	U
120-82-1	1,2,4-Trichlorobenzene	27000	U
91-20-3	Naphthalene	27000	U
106-47-8	4-Chloroaniline	27000	U
87-68-3	Hexachlorobutadiene	27000	U
59-50-7	4-Chloro-3-Methylphenol	27000	U
91-57-6	2-Methylnaphthalene	27000	U
77-47-4	Hexachlorocyclopentadiene	27000	U
88-06-2	2,4,6-Trichlorophenol	27000	U
95-95-4	2,4,5-Trichlorophenol	67000	U
91-58-7	2-Chloronaphthalene	27000	U
88-74-4	2-Nitroaniline	67000	U
131-11-3	Dimethylphthalate	27000	U
208-96-8	Acenaphthylene	27000	U
606-20-2	2,6-Dinitrotoluene	27000	U
99-09-2	3-Nitroaniline	67000	UJ
83-32-9	Acenaphthene	27000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333788

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0504K09

Level: (low/med) MED Date Received: 04/13/93

% Moisture: 32 decanted: (Y/N) N Date Extracted: 04/16/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	67000	U
100-02-7	4-Nitrophenol	67000	U
132-64-9	Dibenzofuran	6300	J
121-14-2	2,4-Dinitrotoluene	27000	U
84-66-2	Diethylphthalate	27000	U
7005-72-3	4-Chlorophenyl-phenylether	27000	U
86-73-7	Fluorene	7900	J
100-10-6	4-Nitroaniline	67000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	67000	U
86-30-6	N-Nitrosodiphenylamine (1)	27000	U
101-55-3	4-Bromophenyl-phenylether	27000	U
118-74-1	Hexachlorobenzene	27000	U
87-86-5	Pentachlorophenol	67000	U
85-01-8	Phenanthrene	81000	
120-12-7	Anthracene	10000	J
86-74-8	Carbazole	13000	J
84-74-2	Di-n-Butylphthalate	27000	U
206-44-0	Fluoranthene	74000	
129-00-0	Pyrene	55000	
85-68-7	Butylbenzylphthalate	27000	U
91-94-1	3,3'-Dichlorobenzidine	27000	U
56-55-3	Benzo(a)Anthracene	27000	
218-01-9	Chrysene	27000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	27000	U
117-84-0	Di-n-Octyl Phthalate	27000	U
205-99-2	Benzo(b)Fluoranthene	37000	
207-08-9	Benzo(k)Fluoranthene	27000	U
50-32-8	Benzo(a)Pyrene	22000	J
193-39-5	Indeno(1,2,3-cd)Pyrene	15000	J
53-70-3	Dibenz(a,h)Anthracene	27000	U
191-24-2	Benzo(g,h,i)Perylene	27000	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X110

b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333788

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0504K09

Level: (low/med) MED Date Received: 04/13/93

% Moisture: 32 decanted: (Y/N) N Date Extracted: 04/16/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.5

Number TICs found: 9

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	PHENTHRENE,METHYL	24.79	9600	J
2.	PHENTHRENE,METHYL	24.87	12000	J
3.	UNKNOWN	25.12	19000	J
4. 84-65-1	9,10-ANTHRACENEDIONE	25.64	18000	JNA
5. 238-84-6	11H-BENZO[A]FLUORENE	28.19	15000	JN
6.	UNKNOWN ALIP. KETONE	29.56	11000	AJ
7.	UNKNOWN	29.84	10000	J
8.	UNKNOWN ALIP. KETONE	30.09	15000	AJ
9.	UNK.BENZO[K]FLUORANTHENE	35.56	44000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

L Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333788

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 33 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/05/93

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
----------	alpha-BHC	1.0	JP	
319-85-7--------	beta-BHC	2.5	U	
319-86-8--------	delta-BHC	2.5	UJ	
----------	gamma-BHC (Lindane)	2.5	UJ	
----------	Heptachlor	2.5	U	
----------	Aldrin	12	~~J~~P	am
1024-57-3-------	Heptachlor epoxide	2.5	U	
----------	Endosulfan I	2.5	U	
----------	Dieldrin	46	P	
72-55-9---------	4,4'-DDE	78	P	
----------	Endrin	4.9	U	
33213-65-9------	Endosulfan II	29	P	
----------	4,4'-DDD	4.9	UJ	
1031-07-8-------	Endosulfan sulfate	100	P	
----------	4,4'-DDT	210	PJ	
----------	Methoxychlor	25	UJ	
53494-70-5------	Endrin ketone	4.9	UJ	
----------	Endrin aldehyde	4.9	UJ	
5103-71-9-------	alpha-Chlordane	12	~~J~~P	am
5103-74-2-------	gamma-Chlordane	9.3	P	
8001-35-2-------	Toxaphene	250	U	
12674-11-2------	Aroclor-1016	49	U	
11104-28-2------	Aroclor-1221	100	U	
11141-16-5------	Aroclor-1232	49	U	
53469-21-9------	Aroclor-1242	49	U	
12672-29-6------	Aroclor-1248	49	U	
11097-69-1------	Aroclor-1254	310	P	
11096-82-5------	Aroclor-1260	690	P~~J~~	am

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110DL

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333788D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 33 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/05/93

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
----------	alpha-BHC	1.2	JPD	
319-85-7--------	beta-BHC	25	U	
319-86-8--------	delta-BHC	25	UJ	
----------	gamma-BHC (Lindane)	5.7	JPD	
----------	Heptachlor	25	U	
----------	Aldrin	53	~~J~~D	am
1024-57-3-------	Heptachlor epoxide	25	U	
----------	Endosulfan I	25	U	
----------	Dieldrin	130	PD	
72-55-9---------	4,4'-DDE	210	PD	
----------	Endrin	260	PDJ	
33213-65-9------	Endosulfan II	99	PD	
----------	4,4'-DDD	49	U	
1031-07-8-------	Endosulfan sulfate	340	PD	
----------	4,4'-DDT	650	PDJ	
----------	Methoxychlor	250	UJ	
53494-70-5------	Endrin ketone	49	UJ	
----------	Endrin aldehyde	49	U	
5103-71-9-------	alpha-Chlordane	39	~~J~~PD	am
5103-74-2-------	gamma-Chlordane	32	PD	
8001-35-2-------	Toxaphene	2500	U	
12674-11-2------	Aroclor-1016	490	U	
11104-28-2------	Aroclor-1221	1000	U	
11141-16-5------	Aroclor-1232	490	U	
53469-21-9------	Aroclor-1242	490	U	
12672-29-6------	Aroclor-1248	490	U	
11097-69-1------	Aroclor-1254	1100	PD	
11096-82-5------	Aroclor-1260	490	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X111

1. Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333789

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0416LC11

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 50 Date Analyzed: 04/16/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Chloromethane	20	UJ	
74-83-9	Bromomethane	20	U	
75-01-4	Vinyl Chloride	20	U	
75-00-3	Chloroethane	20	U	
75-09-2	Methylene Chloride	20 ~~B~~	~~BJ~~ U	am
67-64-1	Acetone	20	U	
75-15-0	Carbon Disulfide	20	U	
75-35-4	1,1-Dichloroethene	20	U	
75-34-3	1,1-Dichloroethane	20	U	
540-59-0	1,2-Dichloroethene (total)	20	U	
67-66-3	Chloroform	20 ~~B~~	~~BJ~~ U	am
107-06-2	1,2-Dichloroethane	20	U	
78-93-3	2-Butanone	20	U	
71-55-6	1,1,1-Trichloroethane	20	U	
56-23-5	Carbon Tetrachloride	20	U	
75-27-4	Bromodichloromethane	20	U	
78-87-5	1,2-Dichloropropane	20	U	
10061-01-5	cis-1,3-Dichloropropene	20	U	
79-01-6	Trichloroethene	20	U	
124-48-1	Dibromochloromethane	20	U	
79-00-5	1,1,2-Trichloroethane	20	U	
71-43-2	Benzene	20	U	
10061-02-6	trans-1,3-Dichloropropene	20	U	
75-25-2	Bromoform	20	U	
108-10-1	4-Methyl-2-Pentanone	20	U	
591-78-6	2-Hexanone	20	U	
127-18-4	Tetrachloroethene	20	U	
79-34-5	1,1,2,2-Tetrachloroethane	20	U	
108-88-3	Toluene	20	U	
108-90-7	Chlorobenzene	20	U	
100-41-4	Ethylbenzene	20	U	
100-42-5	Styrene	20	U	
1330-20-7	Xylene (total)	20	U	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X111

L Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333789

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0416LC11

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 50 Date Analyzed: 04/16/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

N ber TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X111

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333789

Sample wt/vol: 30.6 (g/mL) G Lab File ID: C0422K05

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 50 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	650	U
111-44-4	bis(2-Chloroethyl)Ether	650	U
95-57-8	2-Chlorophenol	650	U
541-73-1	1,3-Dichlorobenzene	650	U
106-46-7	1,4-Dichlorobenzene	650	U
95-50-1	1,2-Dichlorobenzene	650	U
95-48-7	2-Methylphenol	650	U
108-60-1	2,2'-oxybis(1-Chloropropane)	650	U
106-44-5	4-Methylphenol	650	U
621-64-7	N-Nitroso-Di-n-Propylamine	650	U
67-72-1	Hexachloroethane	650	U
98-95-3	Nitrobenzene	650	U
78-59-1	Isophorone	650	U
88-75-5	2-Nitrophenol	650	U
105-67-9	2,4-Dimethylphenol	650	U
111-91-1	bis(2-Chloroethoxy)Methane	650	U
120-83-2	2,4-Dichlorophenol	650	U
120-82-1	1,2,4-Trichlorobenzene	650	U
91-20-3	Naphthalene	650	U
106-47-8	4-Chloroaniline	650	U
87-68-3	Hexachlorobutadiene	650	U
59-50-7	4-Chloro-3-Methylphenol	650	U
91-57-6	2-Methylnaphthalene	650	U
77-47-4	Hexachlorocyclopentadiene	650	U
88-06-2	2,4,6-Trichlorophenol	650	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	650	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethylphthalate	650	U
208-96-8	Acenaphthylene	650	U
606-20-2	2,6-Dinitrotoluene	650	U
99-09-2	3-Nitroaniline	1600	UJ
83-32-9	Acenaphthene	650	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X111

Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333789

Sample wt/vol: 30.6 (g/mL) G Lab File ID: C0422K05

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 50 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	650	U
121-14-2	2,4-Dinitrotoluene	650	U
84-66-2	Diethylphthalate	650	U
7005-72-3	4-Chlorophenyl-phenylether	650	U
86-73-7	Fluorene	650	U
100-10-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine (1)	650	U
101-55-3	4-Bromophenyl-phenylether	650	U
118-74-1	Hexachlorobenzene	650	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	270	J
120-12-7	Anthracene	650	U
86-74-8	Carbazole	650	U
84-74-2	Di-n-Butylphthalate	800	~~B~~U an
206-44-0	Fluoranthene	540	J
129-00-0	Pyrene	320	J
85-68-7	Butylbenzylphthalate	650	U
91-94-1	3,3'-Dichlorobenzidine	650	UJ
56-55-3	Benzo(a)Anthracene	650	U
218-01-9	Chrysene	390	J
117-81-7	bis(2-Ethylhexyl)Phthalate	650	U
117-84-0	Di-n-Octyl Phthalate	650	U
205-99-2	Benzo(b)Fluoranthene	450	J
207-08-9	Benzo(k)Fluoranthene	650	U
50-32-8	Benzo(a)Pyrene	650	U
193-39-5	Indeno(1,2,3-cd)Pyrene	650	U
53-70-3	Dibenz(a,h)Anthracene	650	U
191-24-2	Benzo(g,h,i)Perylene	650	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X111

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333789

Sample wt/vol: 30.6 (g/mL) G Lab File ID: C0422K05

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 50 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7

Number TICs found: 25

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN	8.00	8100	J	
2.	UNKNOWN	8.18	8900	~~BJ~~ U	am
3. 123-42-2	2PENTANONE,4HYDROXY4-METHYL	8.89	110000	~~JNBA~~ U	am
4.	UNKNOWN	10.25	4900	~~BJ~~ U	am
5.	UNKNOWN ALIP. ACID	25.24	5300	~~BJ~~ U	am
6.	UNKNOWN	29.17	330	J	
7.	UNKNOWN	29.46	47	J	
8.	UNKNOWN	29.47	710	J	
9.	UNKNOWN ACID ESTER	29.52	260	~~BJ~~ U	am
10.	UNKNOWN	29.81	450	J	
11.	UNKNOWN ALIP. HYDROCARBON	30.37	970	J	
12.	UNKNOWN	30.54	120	J	
13.	UNKNOWN ALIP. HYDROCARBON	31.34	640	J	
14.	UNKNOWN ALIP. HYDROCARBON	32.47	2600	J	
15.	UNKNOWN	32.99	380	J	
16.	UNKNOWN	33.27	1000	J	
17.	UNKNOWN ALIP. HYDROCARBON	33.81	910	J	
18.	UNKNOWN ALIP. HYDROCARBON	34.09	200	J	
19.	UNKNOWN ALIP. HYDROCARBON	34.14	190	J	
20.	UNKNOWN	34.24	29	J	
21.	UNKNOWN	34.47	1400	J	
22.	UNKNOWN	34.67	170	J	
23.	UNKNOWN	34.77	390	J	
24.	UNKNOWN ALIP. HYDROCARBON	35.39	14000	J	
25.	UNKNOWN ALIP. HYDROCARBON	39.54	9500	J	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X111

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333789

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 50 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
----------	alpha-BHC	3.4	UJ	
319-85-7--------	beta-BHC	5.5	~~BP~~ U	am
319-86-8--------	delta-BHC	3.4	UJ	
----------	gamma-BHC (Lindane)	3.4	UJ	
----------	Heptachlor	3.4	U	
----------	Aldrin	25	~~B~~P	am
1024-57-3-------	Heptachlor epoxide	3.4	U	
----------	Endosulfan I	13		
----------	Dieldrin	220	P	
72-55-9---------	4,4'-DDE	6.6	U	
----------	Endrin	44	PJ	
33213-65-9------	Endosulfan II	46	P	
----------	4,4'-DDD	6.6	U	
1031-07-8-------	Endosulfan sulfate	40	P	
----------	4,4'-DDT	59	PJ	
----------	Methoxychlor	34	UJ	
53494-70-5------	Endrin ketone	6.6	UJ	
----------	Endrin aldehyde	6.6	U	
5103-71-9-------	alpha-Chlordane	3.4	U	
5103-74-2-------	gamma-Chlordane	13	P	
8001-35-2-------	Toxaphene	340	U	
12674-11-2------	Aroclor-1016	66	U	
11104-28-2------	Aroclor-1221	130	U	
11141-16-5------	Aroclor-1232	850	P	
53469-21-9------	Aroclor-1242	66	U	
12672-29-6------	Aroclor-1248	66	U	
11097-69-1------	Aroclor-1254	760	P~~J~~	am
11096-82-5------	Aroclor-1260	1100	P~~J~~	am

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X111DL

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333789D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 50 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/05/93

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
----------	alpha-BHC	34	UJ
319-85-7--------	beta-BHC	34	U
319-86-8--------	delta-BHC	34	UJ
----------	gamma-BHC (Lindane)	34	UJ
----------	Heptachlor	34	U
----------	Aldrin	34	U
1024-57-3-------	Heptachlor epoxide	34	U
----------	Endosulfan I	5.5	JPD
----------	Dieldrin	180	PD
72-55-9---------	4,4'-DDE	66	U
----------	Endrin	87	PD
33213-65-9------	Endosulfan II	41	JPD
----------	4,4'-DDD	66	UJ
1031-07-8-------	Endosulfan sulfate	47	JPD
----------	4,4'-DDT	34	JPD
----------	Methoxychlor	340	UJ
53494-70-5------	Endrin ketone	66	UJ
----------	Endrin aldehyde	66	UJ
5103-71-9-------	alpha-Chlordane	15	~~P~~JPD
5103-74-2-------	gamma-Chlordane	6.3	JPD
8001-35-2-------	Toxaphene	3400	U
12674-11-2------	Aroclor-1016	660	U
11104-28-2------	Aroclor-1221	1300	U
11141-16-5------	Aroclor-1232	660	U
53469-21-9------	Aroclor-1242	660	U
12672-29-6------	Aroclor-1248	660	U
11097-69-1------	Aroclor-1254	690	PD
11096-82-5------	Aroclor-1260	660	U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333790

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0416LC07

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 30 Date Analyzed: 04/16/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Chloromethane	14	UJ	
74-83-9	Bromomethane	14	U	
75-01-4	Vinyl Chloride	14	U	
75-00-3	Chloroethane	14	U	
75-09-2	Methylene Chloride	14.8	~~BJ~~ U	am
67-64-1	Acetone	14	U	
75-15-0	Carbon Disulfide	14	U	
75-35-4	1,1-Dichloroethene	14	U	
75-34-3	1,1-Dichloroethane	14	U	
540-59-0	1,2-Dichloroethene (total)	14	U	
67-66-3	Chloroform	14.4	~~BJ~~ U	am
107-06-2	1,2-Dichloroethane	14	U	
78-93-3	2-Butanone	14	U	
71-55-6	1,1,1-Trichloroethane	14	U	
56-23-5	Carbon Tetrachloride	14	U	
75-27-4	Bromodichloromethane	14	U	
78-87-5	1,2-Dichloropropane	14	U	
10061-01-5	cis-1,3-Dichloropropene	14	U	
79-01-6	Trichloroethene	14	U	
124-48-1	Dibromochloromethane	14	U	
79-00-5	1,1,2-Trichloroethane	14	U	
71-43-2	Benzene	14	U	
10061-02-6	trans-1,3-Dichloropropene	14	U	
75-25-2	Bromoform	14	U	
108-10-1	4-Methyl-2-Pentanone	14	U	
591-78-6	2-Hexanone	14	U	
127-18-4	Tetrachloroethene	14	U	
79-34-5	1,1,2,2-Tetrachloroethane	14	U	
108-88-3	Toluene	14	U	
108-90-7	Chlorobenzene	14	U	
100-41-4	Ethylbenzene	14	U	
100-42-5	Styrene	14	U	
1330-20-7	Xylene (total)	14	U	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333790

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0416LC07

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 30 Date Analyzed: 04/16/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333790

Sample wt/vol: 30.2 (g/mL) G Lab File ID: C0422K08

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 30 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	470	U
111-44-4	bis(2-Chloroethyl)Ether	470	U
95-57-8	2-Chlorophenol	470	U
541-73-1	1,3-Dichlorobenzene	470	U
106-46-7	1,4-Dichlorobenzene	470	U
95-50-1	1,2-Dichlorobenzene	470	U
95-48-7	2-Methylphenol	470	U
108-60-1	2,2'-oxybis(1-Chloropropane)	470	U
106-44-5	4-Methylphenol	470	U
621-64-7	N-Nitroso-Di-n-Propylamine	470	U
67-72-1	Hexachloroethane	470	U
98-95-3	Nitrobenzene	470	U
78-59-1	Isophorone	470	U
88-75-5	2-Nitrophenol	470	U
105-67-9	2,4-Dimethylphenol	470	U
111-91-1	bis(2-Chloroethoxy)Methane	470	U
120-83-2	2,4-Dichlorophenol	470	U
120-82-1	1,2,4-Trichlorobenzene	470	U
91-20-3	Naphthalene	470	U
106-47-8	4-Chloroaniline	470	U
87-68-3	Hexachlorobutadiene	470	U
59-50-7	4-Chloro-3-Methylphenol	470	U
91-57-6	2-Methylnaphthalene	470	U
77-47-4	Hexachlorocyclopentadiene	470	U
88-06-2	2,4,6-Trichlorophenol	470	U
95-95-4	2,4,5-Trichlorophenol	1100	U
91-58-7	2-Chloronaphthalene	470	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	470	U
208-96-8	Acenaphthylene	470	U
606-20-2	2,6-Dinitrotoluene	470	U
99-09-2	3-Nitroaniline	1100	UJ
83-32-9	Acenaphthene	470	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112

b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333790

Sample wt/vol: 30.2 (g/mL) G Lab File ID: C0422K08

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 30 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	470	U
121-14-2	2,4-Dinitrotoluene	470	U
84-66-2	Diethylphthalate	470	U
7005-72-3	4-Chlorophenyl-phenylether	470	U
86-73-7	Fluorene	470	U
100-10-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	470	U
101-55-3	4-Bromophenyl-phenylether	470	U
118-74-1	Hexachlorobenzene	470	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	380	J
120-12-7	Anthracene	470	U
86-74-8	Carbazole	470	U
84-74-2	Di-n-Butylphthalate	590	~~B~~U an
206-44-0	Fluoranthene	980	
129-00-0	Pyrene	660	
85-68-7	Butylbenzylphthalate	250	J
91-94-1	3,3'-Dichlorobenzidine	470	UJ
56-55-3	Benzo(a)Anthracene	450	J
218-01-9	Chrysene	520	
117-81-7	bis(2-Ethylhexyl)Phthalate	470	U
117-84-0	Di-n-Octyl Phthalate	470	U
205-99-2	Benzo(b)Fluoranthene	610	
207-08-9	Benzo(k)Fluoranthene	420	J
50-32-8	Benzo(a)Pyrene	470	
193-39-5	Indeno(1,2,3-cd)Pyrene	470	U
53-70-3	Dibenz(a,h)Anthracene	470	U
191-24-2	Benzo(g,h,i)Perylene	470	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333790

Sample wt/vol: 30.2 (g/mL) G Lab File ID: C0422K08

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 30 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

Number TICs found: 27

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 141-79-7	3-PENTEN-2-ONE, 4-METHYL	7.57	1700	~~JNBA~~U am
2.	UNKNOWN	8.02	5200	J
3.	UNKNOWN	8.18	5400	~~BJ~~U am
4. 123-42-2	2PENTANONE,4-HYDROXY4-METHYL	8.90	77000	~~JNBA~~U am
5.	UNKNOWN	10.29	3300	~~BJ~~U am
6.	UNKNOWN	10.87	1200	~~BJ~~U am
7.	UNKNOWN	11.75	750	J
8.	UNKNOWN	21.24	1100	J
9.	UNKNOWN	23.75	1100	J
10.	UNKNOWN	25.11	1100	J
11.	UNKNOWN	25.19	1300	J
12.	UNKNOWN ALIP. ACID	25.21	1600	J
13.	UNKNOWN ALIP. ACID	25.26	2000	J
14.	UNKNOWN	28.32	1900	J
15.	UNKNOWN ACID ESTER	29.54	950	J
16.	UNKNOWN ALIP. HYDROCARBON	30.37	660	J
17.	UNKNOWN	30.69	1000	J
18.	UNKNOWN ALIP. HYDROCARBON	31.37	370	J
19.	UNKNOWN ALIP. HYDROCARBON	32.51	2100	J
20.	UNKNOWN	33.01	830	J
21.	UNKNOWN ALIP. HYDROCARBON	33.81	770	J
22.	UNKNOWN	34.14	690	J
23.	UNKNOWN	34.49	870	J
24.	UNKNOWN ALIP. HYDROCARBON	35.41	19000	J
25.	UNKNOWN	36.19	3000	J
26.	UNKNOWN BENZO(A)PYRENE	36.54	660	J
27.	UNKNOWN ALIP. HYDROCARBON	39.56	8900	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333790

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: -30 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/05/93

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
----------	alpha-BHC	2.4	UJ	
319-85-7--------	beta-BHC	2.4	U	
319-86-8--------	delta-BHC	2.4	UJ	
----------	gamma-BHC (Lindane)	170	PJ	
----------	Heptachlor	2.4	U	
----------	Aldrin	25	~~B~~P	am
1024-57-3-------	Heptachlor epoxide	18	P	
----------	Endosulfan I	2.4	U	
----------	Dieldrin	2100 ~~4.7~~	~~U~~PC	
72-55-9---------	4,4'-DDE	4.7	U	
----------	Endrin	4.7	U	
33213-65-9------	Endosulfan II	4.7	U	
----------	4,4'-DDD	4.7	UJ	
1031-07-8-------	Endosulfan sulfate	40	P	
----------	4,4'-DDT	150	PJ	
----------	Methoxychlor	24	UJ	
53494-70-5------	Endrin ketone	30	PJ	
----------	Endrin aldehyde	4.7	UJ	
5103-71-9-------	alpha-Chlordane	93	~~B~~P	am
5103-74-2-------	gamma-Chlordane	40	P	
8001-35-2-------	Toxaphene	240	U	
12674-11-2------	Aroclor-1016	47	U	
11104-28-2------	Aroclor-1221	95	U	
11141-16-5------	Aroclor-1232	47	U	
53469-21-9------	Aroclor-1242	47	U	
12672-29-6------	Aroclor-1248	47	U	
11097-69-1------	Aroclor-1254	430	P	
11096-82-5------	Aroclor-1260	690	P~~J~~	am

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112DL

.b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333790D

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 30 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/05/93

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
----------	alpha-BHC	24	UJ	
319-85-7--------	beta-BHC	24	U	
319-86-8--------	delta-BHC	24	UJ	
----------	gamma-BHC (Lindane)	180	PDJ	
----------	Heptachlor	24	U	
----------	Aldrin	33	~~J~~PD	am
1024-57-3-------	Heptachlor epoxide	22	JPD	
----------	Endosulfan I	24	U	
----------	Dieldrin	3000	PD	
72-55-9---------	4,4'-DDE	47	U	
----------	Endrin	63	PDJ	
33213-65-9------	Endosulfan II	47	U	
----------	4,4'-DDD	47	U	
1031-07-8-------	Endosulfan sulfate	37	JPD	
----------	4,4'-DDT	140	PDJ	
----------	Methoxychlor	240	UJ	
53494-70-5------	Endrin ketone	36	JPD	
----------	Endrin aldehyde	47	U	
5103-71-9-------	alpha-Chlordane	120	~~J~~D	am
5103-74-2-------	gamma-Chlordane	47	PD	
8001-35-2-------	Toxaphene	2400	U	
12674-11-2------	Aroclor-1016	470	U	
11104-28-2------	Aroclor-1221	950	U	
11141-16-5------	Aroclor-1232	470	U	
53469-21-9------	Aroclor-1242	470	U	
12672-29-6------	Aroclor-1248	470	U	
11097-69-1------	Aroclor-1254	510	PD	
11096-82-5------	Aroclor-1260	470	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113

La. Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333791

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0416LC09

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 22 Date Analyzed: 04/16/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Chloromethane	13	UJ	
74-83-9	Bromomethane	13	U	
75-01-4	Vinyl Chloride	13	U	
75-00-3	Chloroethane	13	U	
75-09-2	Methylene Chloride	28	~~B~~U	am
67-64-1	Acetone	13	U	
75-15-0	Carbon Disulfide	13	U	
75-35-4	1,1-Dichloroethene	13	U	
75-34-3	1,1-Dichloroethane	13	U	
540-59-0	1,2-Dichloroethene (total)	13	U	
67-66-3	Chloroform	13 ~~B~~	~~BJ~~U	am
107-06-2	1,2-Dichloroethane	13	U	
78-93-3	2-Butanone	13	U	
71-55-6	1,1,1-Trichloroethane	13	U	
56-23-5	Carbon Tetrachloride	13	U	
75-27-4	Bromodichloromethane	13	U	
78-87-5	1,2-Dichloropropane	13	U	
10061-01-5	cis-1,3-Dichloropropene	13	U	
79-01-6	Trichloroethene	13	U	
124-48-1	Dibromochloromethane	13	U	
79-00-5	1,1,2-Trichloroethane	13	U	
71-43-2	Benzene	13	U	
10061-02-6	trans-1,3-Dichloropropene	13	U	
75-25-2	Bromoform	13	U	
108-10-1	4-Methyl-2-Pentanone	13	U	
591-78-6	2-Hexanone	13	U	
127-18-4	Tetrachloroethene	13	U	
79-34-5	1,1,2,2-Tetrachloroethane	13	U	
108-88-3	Toluene	13	U	
108-90-7	Chlorobenzene	13	U	
100-41-4	Ethylbenzene	13	U	
100-42-5	Styrene	13	U	
1330-20-7	Xylene (total)	13	U	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X113

L. Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333791

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0416LC09

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 22 Date Analyzed: 04/16/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

N ber TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333791

Sample wt/vol: 30.7 (g/mL) G Lab File ID: C0505K04

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 22 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/05/93

Injection Volume: 2.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	8200	U
111-44-4	bis(2-Chloroethyl)Ether	8200	U
95-57-8	2-Chlorophenol	8200	U
541-73-1	1,3-Dichlorobenzene	8200	U
106-46-7	1,4-Dichlorobenzene	8200	U
95-50-1	1,2-Dichlorobenzene	8200	U
95-48-7	2-Methylphenol	8200	U
108-60-1	2,2'-oxybis(1-Chloropropane)	8200	U
106-44-5	4-Methylphenol	8200	U
621-64-7	N-Nitroso-Di-n-Propylamine	8200	U
67-72-1	Hexachloroethane	8200	U
98-95-3	Nitrobenzene	8200	U
78-59-1	Isophorone	8200	U
88-75-5	2-Nitrophenol	8200	U
105-67-9	2,4-Dimethylphenol	8200	U
111-91-1	bis(2-Chloroethoxy)Methane	8200	U
120-83-2	2,4-Dichlorophenol	8200	U
120-82-1	1,2,4-Trichlorobenzene	8200	U
91-20-3	Naphthalene	8200	U
106-47-8	4-Chloroaniline	8200	U
87-68-3	Hexachlorobutadiene	8200	U
59-50-7	4-Chloro-3-Methylphenol	8200	U
91-57-6	2-Methylnaphthalene	8200	U
77-47-4	Hexachlorocyclopentadiene	8200	U
88-06-2	2,4,6-Trichlorophenol	8200	U
95-95-4	2,4,5-Trichlorophenol	20000	U
91-58-7	2-Chloronaphthalene	8200	U
88-74-4	2-Nitroaniline	20000	U
131-11-3	Dimethylphthalate	8200	U
208-96-8	Acenaphthylene	8200	U
606-20-2	2,6-Dinitrotoluene	8200	U
99-09-2	3-Nitroaniline	20000	UJ
83-32-9	Acenaphthene	8200	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333791

Sample wt/vol: 30.7 (g/mL) G Lab File ID: C0505K04

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 22 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/05/93

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	20000	U
100-02-7	4-Nitrophenol	20000	U
132-64-9	Dibenzofuran	8200	U
121-14-2	2,4-Dinitrotoluene	8200	U
84-66-2	Diethylphthalate	8200	U
7005-72-3	4-Chlorophenyl-phenylether	8200	U
86-73-7	Fluorene	8200	U
100-10-6	4-Nitroaniline	20000	U
534-52-1	4,6-Dinitro-2-methylphenol	20000	U
86-30-6	N-Nitrosodiphenylamine (1)	8200	U
101-55-3	4-Bromophenyl-phenylether	8200	U
118-74-1	Hexachlorobenzene	8200	U
87-86-5	Pentachlorophenol	20000	U
85-01-8	Phenanthrene	8200	U
120-12-7	Anthracene	8200	U
86-74-8	Carbazole	8200	U
84-74-2	Di-n-Butylphthalate	8200	U
206-44-0	Fluoranthene	8200	U
129-00-0	Pyrene	8200	U
85-68-7	Butylbenzylphthalate	8200	U
91-94-1	3,3'-Dichlorobenzidine	8200	U
56-55-3	Benzo(a)Anthracene	8200	U
218-01-9	Chrysene	8200	U
117-81-7	bis(2-Ethylhexyl)Phthalate	8200	U
117-84-0	Di-n-Octyl Phthalate	8200	U
205-99-2	Benzo(b)Fluoranthene	2600	J
207-08-9	Benzo(k)Fluoranthene	8200	U
50-32-8	Benzo(a)Pyrene	8200	U
193-39-5	Indeno(1,2,3-cd)Pyrene	8200	U
53-70-3	Dibenz(a,h)Anthracene	8200	U
191-24-2	Benzo(g,h,i)Perylene	8200	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333791

Sample wt/vol: 30.7 (g/mL) G Lab File ID: C0505K04

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 22 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/05/93

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 7.4

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2PENTANONE,4-HYDROXY4-METHYL	8.12	150000	~~JNBA~~ Uan

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113

b Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333791

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 22 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/05/93

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
	alpha-BHC	2.2	UJ	
319-85-7	beta-BHC	2.2	U	
319-86-8	delta-BHC	2.2	UJ	
	gamma-BHC (Lindane)	2.2	UJ	
	Heptachlor	2.2	U	
	Aldrin	8.6	~~B~~P	am
1024-57-3	Heptachlor epoxide	2.2	U	
	Endosulfan I	2.2	U	
	Dieldrin	150	P	
72-55-9	4,4'-DDE	100	P	
	Endrin	4.2	U	
33213-65-9	Endosulfan II	4.2	U	
	4,4'-DDD	4.2	UJ	
1031-07-8	Endosulfan sulfate	4.2	U	
	4,4'-DDT	290	PJ	
	Methoxychlor	27	PJ	
53494-70-5	Endrin ketone	49	PJ	
	Endrin aldehyde	4.2	UJ	
5103-71-9	alpha-Chlordane	5.1	~~B~~P	am
5103-74-2	gamma-Chlordane	5.4	P	
8001-35-2	Toxaphene	220	U	
12674-11-2	Aroclor-1016	42	U	
11104-28-2	Aroclor-1221	86	U	
11141-16-5	Aroclor-1232	42	U	
53469-21-9	Aroclor-1242	42	U	
12672-29-6	Aroclor-1248	42	U	
11097-69-1	Aroclor-1254	170	P	
11096-82-5	Aroclor-1260	320	P	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113DL

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333791D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 22 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/05/93

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND		Q	
	alpha-BHC	22	UJ	
319-85-7	beta-BHC	22	U	
319-86-8	delta-BHC	22	UJ	
	gamma-BHC (Lindane)	0.96	JPD	
	Heptachlor	22	U	
	Aldrin	11	~~P~~JPD	am
1024-57-3	Heptachlor epoxide	22	U	
	Endosulfan I	22	U	
	Dieldrin	130	PD	
72-55-9	4,4'-DDE	89	PD	
	Endrin	42	UJ	
33213-65-9	Endosulfan II	42	U	
	4,4'-DDD	42	U	
1031-07-8	Endosulfan sulfate	22	JPD	
	4,4'-DDT	280	PDJ	
	Methoxychlor	36	JPD	
53494-70-5	Endrin ketone	76	PDJ	
	Endrin aldehyde	42	U	
5103-71-9	alpha-Chlordane	5.6	~~P~~JPD	am
5103-74-2	gamma-Chlordane	6.5	JPD	
8001-35-2	Toxaphene	2200	U	
12674-11-2	Aroclor-1016	420	U	
11104-28-2	Aroclor-1221	860	U	
11141-16-5	Aroclor-1232	420	U	
53469-21-9	Aroclor-1242	420	U	
12672-29-6	Aroclor-1248	420	U	
11097-69-1	Aroclor-1254	270	JPD	
11096-82-5	Aroclor-1260	400	JPD	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X114

L. Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333792

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0416LC10

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 28 Date Analyzed: 04/16/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Chloromethane	14	UJ	
74-83-9	Bromomethane	14	U	
75-01-4	Vinyl Chloride	14	U	
75-00-3	Chloroethane	14	U	
75-09-2	Methylene Chloride	14 ~~9~~	~~BJ~~ U	an
67-64-1	Acetone	14	U	
75-15-0	Carbon Disulfide	14	U	
75-35-4	1,1-Dichloroethene	14	U	
75-34-3	1,1-Dichloroethane	14	U	
540-59-0	1,2-Dichloroethene (total)	14	U	
67-66-3	Chloroform	14 ~~4~~	~~BJ~~ U	an
107-06-2	1,2-Dichloroethane	14	U	
78-93-3	2-Butanone	14	U	
71-55-6	1,1,1-Trichloroethane	14	U	
56-23-5	Carbon Tetrachloride	14	U	
75-27-4	Bromodichloromethane	14	U	
78-87-5	1,2-Dichloropropane	14	U	
10061-01-5	cis-1,3-Dichloropropene	14	U	
79-01-6	Trichloroethene	14	U	
124-48-1	Dibromochloromethane	14	U	
79-00-5	1,1,2-Trichloroethane	14	U	
71-43-2	Benzene	14	U	
10061-02-6	trans-1,3-Dichloropropene	14	U	
75-25-2	Bromoform	14	U	
108-10-1	4-Methyl-2-Pentanone	14	U	
591-78-6	2-Hexanone	14	U	
127-18-4	Tetrachloroethene	14	U	
79-34-5	1,1,2,2-Tetrachloroethane	14	U	
108-88-3	Toluene	14	U	
108-90-7	Chlorobenzene	14	U	
100-41-4	Ethylbenzene	14	U	
100-42-5	Styrene	14	U	
1330-20-7	Xylene (total)	14	U	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X114

ıb Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333792

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0416LC10

Level: (low/med) LOW Date Received: 04/14/93

% Moisture: not dec. 28 Date Analyzed: 04/16/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

ımber TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X114

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333792

Sample wt/vol: 30.4 (g/mL) G Lab File ID: C0423K03

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 28 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/93

Injection Volume: 2.0(uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1800	U
111-44-4	bis(2-Chloroethyl)Ether	1800	U
95-57-8	2-Chlorophenol	1800	U
541-73-1	1,3-Dichlorobenzene	1800	U
106-46-7	1,4-Dichlorobenzene	1800	U
95-50-1	1,2-Dichlorobenzene	1800	U
95-48-7	2-Methylphenol	1800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1800	U
106-44-5	4-Methylphenol	1800	U
621-64-7	N-Nitroso-Di-n-Propylamine	1800	U
67-72-1	Hexachloroethane	1800	U
98-95-3	Nitrobenzene	1800	U
78-59-1	Isophorone	1800	U
88-75-5	2-Nitrophenol	1800	U
105-67-9	2,4-Dimethylphenol	1800	U
111-91-1	bis(2-Chloroethoxy)Methane	1800	U
120-83-2	2,4-Dichlorophenol	1800	U
120-82-1	1,2,4-Trichlorobenzene	1800	U
91-20-3	Naphthalene	1800	U
106-47-8	4-Chloroaniline	1800	U
87-68-3	Hexachlorobutadiene	1800	U
59-50-7	4-Chloro-3-Methylphenol	1800	U
91-57-6	2-Methylnaphthalene	940	J
77-47-4	Hexachlorocyclopentadiene	1800	U
88-06-2	2,4,6-Trichlorophenol	1800	U
95-95-4	2,4,5-Trichlorophenol	4400	U
91-58-7	2-Chloronaphthalene	1800	U
88-74-4	2-Nitroaniline	4400	U
131-11-3	Dimethylphthalate	1800	U
208-96-8	Acenaphthylene	1800	U
606-20-2	2,6-Dinitrotoluene	1800	U
99-09-2	3-Nitroaniline	4400	U
83-32-9	Acenaphthene	1800	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X114

ab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333792

Sample wt/vol: 30.4 (g/mL) G Lab File ID: C0423K03

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 28 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/93

Injection Volume: 2.0(uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	4400	U
100-02-7	4-Nitrophenol	4400	U
132-64-9	Dibenzofuran	1800	U
121-14-2	2,4-Dinitrotoluene	1800	U
84-66-2	Diethylphthalate	1800	U
7005-72-3	4-Chlorophenyl-phenylether	1800	U
86-73-7	Fluorene	1800	U
100-10-6	4-Nitroaniline	4400	UJ
534-52-1	4,6-Dinitro-2-methylphenol	4400	U
86-30-6	N-Nitrosodiphenylamine (1)	1800	U
101-55-3	4-Bromophenyl-phenylether	1800	U
118-74-1	Hexachlorobenzene	1800	U
87-86-5	Pentachlorophenol	4400	U
85-01-8	Phenanthrene	1700	J
120-12-7	Anthracene	1800	U
86-74-8	Carbazole	1800	U
84-74-2	Di-n-Butylphthalate	1800 ~~520~~	~~BJ~~ U am
206-44-0	Fluoranthene	1600	J
129-00-0	Pyrene	1200	J
85-68-7	Butylbenzylphthalate	520	J
91-94-1	3,3'-Dichlorobenzidine	1800	UJ
56-55-3	Benzo(a)Anthracene	880	J
218-01-9	Chrysene	1200	J
117-81-7	bis(2-Ethylhexyl)Phthalate	1800	U
117-84-0	Di-n-Octyl Phthalate	1800	U
205-99-2	Benzo(b)Fluoranthene	1800	U
207-08-9	Benzo(k)Fluoranthene	1300	J
50-32-8	Benzo(a)Pyrene	1800	U
193-39-5	Indeno(1,2,3-cd)Pyrene	1800	UJ
53-70-3	Dibenz(a,h)Anthracene	1800	UJ
191-24-2	Benzo(g,h,i)Perylene	1800	UJ

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X114

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333792

Sample wt/vol: 30.4 (g/mL) G Lab File ID: C0423K03

Level: (low/med) LOW Date Received: 04/13/93

% Moisture: 28 decanted: (Y/N) N Date Extracted: 04/15/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/93

Injection Volume: 2.0(uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.2

Number TICs found: 29

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN	8.03	13000	J	
2. 123-42-2	2PENTANONE,4-HYDROXY4-METHYL	8.72	250000	~~JNBA~~ U	am
3.	UNKNOWN	10.29	2700	~~BJ~~ U	am
4.	UNKNOWN ALIP. HYDROCARBON	17.04	1400	J	
5.	UNKNOWN METHYL NAPHTHALENE	17.59	1300	J	
6.	UNKNOWN ALIP. HYDROCARBON	18.49	1900	J	
7.	NAPHTHALENE, DIMETHYL	19.15	1800	J	
8.	NAPHTHALENE, DIMETHYL	19.22	790	J	
9.	UNKNOWN ALIP. HYDROCARBON	19.37	1900	J	
10.	NAPHTHALENE, DIMETHYL	19.47	1700	J	
11.	UNKNOWN ALIP. HYDROCARBON	19.85	2000	J	
12.	UNKNOWN	20.52	1700	J	
13.	UNKNOWN ALIP. HYDROCARBON	21.14	1800	J	
14.	UNKNOWN ALIP. HYDROCARBON	21.77	1300	J	
15.	UNKNOWN ALIP. HYDROCARBON	22.37	2800	J	
16.	UNKNOWN ALIP. HYDROCARBON	22.45	9100	J	
17.	UNKNOWN ALIP. HYDROCARBON	23.54	1400	J	
18.	UNKNOWN ALIP. HYDROCARBON	23.67	1900	J	
19.	UNKNOWN ALIP. ACID	25.29	2600	~~BJ~~ U	am
20.	UNKNOWN ALIP. HYDROCARBON	26.72	700	J	
21.	UNKNOWN ALIP. HYDROCARBON	28.62	1000	J	
22.	UNKNOWN ALIP. HYDROCARBON	29.52	1100	J	
23.	UNKNOWN	29.72	1600	J	
24.	UNKNOWN ALIP. HYDROCARBON	30.42	1700	J	
25.	UNKNOWN ALIP. HYDROCARBON	31.41	1100	J	
26.	UNKNOWN ALIP. HYDROCARBON	32.54	2300	J	
27.	UNKNOWN	34.54	1700	J	
28.	UNKNOWN ALIP. HYDROCARBON	35.46	15000	J	
29.	UNKNOWN	36.72	680	J	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X114

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 333779

Matrix: (soil/water) SOIL Lab Sample ID: D333792

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 28 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/93

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
----------	alpha-BHC	2.3	UJ	
319-85-7--------	beta-BHC	2.3	U	
319-86-8--------	delta-BHC	2.3	UJ	
----------	gamma-BHC (Lindane)	2.3	UJ	
----------	Heptachlor	2.3	U	
----------	Aldrin	20	~~B~~P	am
1024-57-3-------	Heptachlor epoxide	7.7	P	
----------	Endosulfan I	2.3	U	
----------	Dieldrin	180	P	
72-55-9---------	4,4'-DDE	280	P	
----------	Endrin	130	PJ	
33213-65-9------	Endosulfan II	4.6	U	
----------	4,4'-DDD	210	P	
1031-07-8-------	Endosulfan sulfate	72	P	
----------	4,4'-DDT	560	PCJ	
----------	Methoxychlor	71	PJ	
53494-70-5------	Endrin ketone	4.6	UJ	
----------	Endrin aldehyde	4.6	U	
5103-71-9-------	alpha-Chlordane	30	~~B~~P	am
5103-74-2-------	gamma-Chlordane	28	P	
8001-35-2-------	Toxaphene	230	U	
12674-11-2------	Aroclor-1016	46	U	
11104-28-2------	Aroclor-1221	92	U	
11141-16-5------	Aroclor-1232	46	U	
53469-21-9------	Aroclor-1242	46	U	
12672-29-6------	Aroclor-1248	46	U	
11097-69-1------	Aroclor-1254	570	P~~J~~	am
11096-82-5------	Aroclor-1260	960	P~~J~~	am

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X114DL

Lab Name: ILLINOIS EPA Contract: 1630450056

Lab Code: SPFLD Case No.: LEFTON SAS No.: _____ SDG No.: 3[illegible]

Matrix: (soil/water) SOIL Lab Sample ID: D333792D

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 28 decanted: (Y/N) N Date Received: 04/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/05/93

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
----------	alpha-BHC	1.9	JPD
319-85-7--------	beta-BHC	23	U
319-86-8--------	delta-BHC	23	UJ
----------	gamma-BHC (Lindane)	4.7	JD
----------	Heptachlor	23	U
----------	Aldrin	23	U
1024-57-3-------	Heptachlor epoxide	23	U
----------	Endosulfan I	23	U
----------	Dieldrin	160	PD
72-55-9---------	4,4'-DDE	270	PD
----------	Endrin	90	PD
33213-65-9------	Endosulfan II	46	U
----------	4,4'-DDD	46	UJ
1031-07-8-------	Endosulfan sulfate	95	PD
----------	4,4'-DDT	590	PDJ
----------	Methoxychlor	230	UJ
53494-70-5------	Endrin ketone	46	UJ
----------	Endrin aldehyde	46	UJ
5103-71-9-------	alpha-Chlordane	7.5	~~B~~JPD am
5103-74-2-------	gamma-Chlordane	21	JD
8001-35-2-------	Toxaphene	2300	U
12674-11-2------	Aroclor-1016	460	U
11104-28-2------	Aroclor-1221	920	U
11141-16-5------	Aroclor-1232	460	U
53469-21-9------	Aroclor-1242	460	U
12672-29-6------	Aroclor-1248	460	U
11097-69-1------	Aroclor-1254	460	U
11096-82-5------	Aroclor-1260	460	U