EPA Region 5 Records Ctr.
373528

L1970455001--Will Co.
Lennon Wallpaper Company
ILD984799759
Superfund HRS
Volume II of II

CERCLA

Screening Site Inspection Analytical Results

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

RELEASED
DATE 9/12/96
RIN # 2324
INITIALS J.P.

Confidential Material May be Enclosed

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LENNON WALLPAPER
ID984799759

Table 3-3 TABLE 4-1 SUMMARY

SAMPLING POINT	X114	X101	X102	X103	X104	X105	X106	X107	X108	X109	X110	X111	X112	X113	X201	S101
PARAMETER	4-10-92 Background	4-9-92	4-9-92	4-9-92	4-9-92	4-9-92	4-9-92	4-9-92	4-9-92	4-9-92	4-10-92	4-10-92	4-10-92	4-10-92	4-10-92	4-10-92
VOLATILES	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb			
Methylene Chloride	12.0 U	--	9.0 BJ	11.0 BJ	25.0 B	11.0 BJ	11.0 BJ	11.0 BJ	20.0 B	7.0 BJ	13.0 B	26.0 B	7.0 BJ	60.0 B	--	--
Acetone	12.0 U	8.0 J	--	11.0 J	110.0 J	13.0 J	14.0 J	27.0	--	--	--	--	--	--	8.0 BJ	--
2-Butanone (MEK)	12.0 U	--	--	--	76.0	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	12.0 U	--	--	--	--	--	--	--	--	--	--	--	--	11.0 J	3.0 J	--
4-Methyl-2-Pentanone	12.0 U	--	--	--	16.0 J	--	--	--	--	--	--	--	--	--	--	--
Toluene	12.0 U	--	--	--	1300.0	--	--	--	--	--	--	--	--	--	--	--
Xylene(total)	12.0 U	--	--	--	48.0	--	--	--	--	--	--	--	--	--	--	--
TICs		0	0	0	9	9				1	1	1	1	1	1	
SEMIVOLATILES	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
2,4-Dichlorophenol	390.0 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	940.0 U	--	--	--	--	--	71.0 J	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	390.0 U	--	110.0 J	--	--	2900.0	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	390.0 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	390.0 U	--	80.0 J	--	--	--	75.0 J	--	--	92.0 J	420.0 J	370.0 J	--	--	100.0 J	--
4-Chloroaniline	390.0 U	--	92.0 J	--	--	--	--	83.0 J	--	--	100.0 J	250.0 J	--	--	--	--
Dibenzofuran	390.0 U	--	--	--	--	--	--	270.0 J	--	--	--	--	--	--	120.0 J	--
Phenanthrene	390.0 U	160.0 J	250.0 J	220.0 J	--	--	--	64.0 J	--	--	--	--	--	--	--	--
Anthracene	390.0 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	81.0 J	280.0 J	270.0 J	350.0 J	--	--	--	--	--	280.0 J	2300.0	1500.0	--	2500.0 J	700.0	--
Pyrene	390.0 U	300.0 J	280.0 J	360.0 J	--	--	--	--	--	--	170.0 J	140.0 J	--	--	--	--
Butyl benzyl phthalate	130.0 BJ	870.0 B	940.0 B	1000.0 B	--	--	--	--	--	350.0 J	560.0	590.0	--	3600.0 J	970.0	--
Bis(2-ethylhexyl)phthalate	330.0 BJ	1200.0 B	1600.0 B	2000.0 B	--	--	--	--	--	320.0 J	370.0 J	540.0	--	3700.0 J	930.0	--
Chrysene	390.0 U	--	--	240.0 J	--	2700.0 B	2300.0 B	--	2700.0 BJ	--	--	--	--	--	5300.0 B	--
Benzo(a)anthracene	390.0 U	--	--	210.0 J	--	--	--	--	--	250.0 J	340.0 J	560.0	2100.0 BJ	3400.0 BJ	2600.0 BE	--
Di-n-octyl phthalate	390.0 U	--	--	150.0 J	--	--	--	--	--	210.0 J	270.0 J	460.0	--	2600.0 J	570.0	--
Benzo (b) fluoranthene	390.0 U	--	--	420.0 J	--	--	--	--	--	--	--	--	--	2100.0 J	450.0	--
Benzo (k) fluoranthene	390.0 U	--	--	--	--	--	--	--	--	230.0 J	--	--	--	--	220.0 J	--
Benzo (a) pyrene	390.0 U	--	--	--	--	--	--	--	--	130.0 J	--	1200.0	--	2600.0 J	520.0	--
Benzo (g,h,i) perylene	390.0 U	--	--	--	--	--	--	--	--	--	--	360.0 J	--	1900.0 J	390.0 J	--
1,4-Dichlorobenzene	390.0 U	--	--	--	--	--	--	--	--	--	--	110.0 J	--	2200.0 J	430.0	--
TICs	22	28	23	22	25	19	17	21	6	24	26	24	16	22		
PESTICIDES	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
alpha-BHC	20.0 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
beta-BHC	20.0 U	--	--	--	--	--	--	--	--	--	--	14.0 JPD	--	--	--	--
Aldrin	20.0 U	--	--	--	--	--	--	--	--	--	56.0 PD	--	--	--	--	--
Heptachlor epoxide	20.0 U	--	--	--	--	17.0 JPD	57.0 PD	--	--	--	--	--	--	--	--	--
Dieldrin	20.0 U	31.0 JPD	910.0	25.0 D	--	--	--	--	--	--	21.0 JD	25.0 D	--	--	20.0 JPD	--
4,4'-DDE	39.0 U	--	20.0 JPD	--	--	200.0 PD	350.0 PD	--	--	--	55.0 PD	--	--	--	--	--
Endrin	39.0 U	--	--	--	--	36.0 JPD	160.0 D	--	--	23.0 JD	--	--	--	--	21.0 JD	--
4,4'-DDT	39.0 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin Ketone	39.0 U	--	31.0 JPD	--	--	--	--	--	--	28.0 JPD	--	60.0 D	--	--	53.0 PD	--
alpha-Chlordane	20.0 U	--	--	17.0 JPD	--	--	--	--	--	--	--	--	--	--	--	--
gamma-Chlordane	20.0 U	--	--	10.0 JPD	--	--	--	--	--	--	--	--	--	--	--	--
INORGANICS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Aluminum	13300.0	--	--	--	--	--	--	--	--	--	--	--	--	97200.0	--	--
Antimony	5.0 U	--	--	--	--	--	--	--	--	--	--	--	97.5	--	--	--
Arsenic	9.56	--	--	--	--	--	--	--	--	--	--	--	--	56.5	--	30.4
Barium	109.0	536.0	4650.0	--	--	9270.0	11600.0	19100.0	6660.0	--	2510.0	--	9360.0	1160.0	1430.0	226.0
Beryllium	.79	--	--	--	--	--	--	--	--	--	--	3.5	--	--	--	--
Cadmium	.68	8.0	--	--	--	--	--	--	--	--	--	--	36.3	--	3.9	--
Calcium	33700.0	145000.0	--	191000.0	--	--	--	--	--	142000.0	--	--	--	--	--	136000.0
Chromium	18.6	--	147.0	--	--	1950.0	1530.0	3330.0	64.6	--	--	67.1	329.0	949.0	94.9	--
Copper	19.6	792.0	1910.0	--	--	2120.0	20000.0	27000.0	1710.0	--	462.0	--	42600.0	269.0	493.0	--
Lead	49.7	--	705.0	--	--	10660.0	11200.0	15000.0	--	--	--	--	--	--	--	--
Magnesium	19300.0	--	--	100000.0	--	--	--	--	--	70200.0	--	--	--	--	--	--
Mercury	.01 B	0.1	11	--	--	.07	.08 B	.12	.04 B	.03 B	--	.05	.18	.14	.23	--
Nickel	18.3	--	--	--	--	--	--	68.5	--	--	--	--	--	64.7	--	--
Potassium	2470.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8930.0
Selenium	.12 U	2.2	2.2	--	--	--	.28 B	--	--	--	--	--	--	--	--	--
Silver	1.2	3.6	--	--	--	--	--	--	--	--	--	--	12.8	--	--	--
Sodium	149.0 B	471.0 B	608.0 B	--	--	518.0 B	--	--	503.0 B	--	643.0	936.0	--	--	--	40000.0
Zinc	91.7	777.0	2030.0	--	--	6660.0	5790.0	9250.0	570.0	--	374.0	532.0	4230.0	337.0	1150.0	--
Cyanide	1.0 U	--	--	--	--	--	--	2.8	--	--	--	--	29.0	--	1.0	--
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	126000.0

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

MEMORANDUM

DATE: August 6, 1992

TO: Kim Nika

FROM: Ron Turpin & Jim Shaw

SUBJECT: Review of Data Package
Lennon Wallpaper

The Division of Laboratories Quality Assurance Section has reviewed the above referenced data package. The package was for 15 soil samples, 1 water sample and 1 trip blank taken on April 10, 1992. The samples were analyzed at the IEPA laboratories in Springfield (organics) and in Champaign (inorganics).

I have attached summary forms for the Volatile Organics Analyses (VOAs), the Semi-Volatile Analyses (SVs) and the Pesticide/PCB analyses (P/Ps) in soil and water samples. The results on the summary forms have been modified as required by USEPA data validation guidelines. The results on the summary forms are valid as qualified by the associated data qualifiers. The Inorganics Analysis data has been validated and the attached sample analysis data sheets have been modified as required by the data validation process and the USEPA data validation guidelines. The data is valid as qualified on the attached modified sample analysis data sheets.

attachments

cc: John Hurley
Karl Reed

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Data Validation Checklist
Site Name: Lenox Wallpaper
SDG
No.: 215712
Laboratory: IEPA
Page 1 of 50

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:
Samples X110 + X111 were collected on 4/9/92 at 8:45 AM + 9:05 AM respectively. The chain of custody indicates, though, that the empty sample shipping container was received sealed and intact at 10:05 AM on 4/9/92 for sampling.

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:

Data Validation Checklist
Site Name: Lennon Wallpaper
SDG No.: 215712
Laboratory: IEPA
Page 2 of 50

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.
S101	D215-727	4/10/92	4/10/92	4/14/92	4/14/92	4/21/92	4/14/92	6/17/92
X101	-720	4/9		4/14	4/15	4/23	4/20	6/17
X102	-721	4/9		4/14	4/15	4/24	4/20	6/17
X102RE	" RE	4/9		4/14	—	—	—	—
X103	-722	4/9		4/16	4/15	4/23	4/20	6/17
X104	-723	4/9		4/16	4/16	4/22	4/16	6/17
X104RE	" RE	4/9		4/16	—	—	—	—
X104DL	" DL	4/9		4/17	4/16	5/8	—	—
X105	-724	4/9		4/16	4/15	4/30	4/20	6/17
X106	-725	4/9		4/16	4/15	4/24	4/20	6/17
X106RE	" RE	4/9		—	4/15	4/27	—	—
X107	-726	4/9		4/16	4/15	4/27	4/20	6/17
X107RE	" RE	4/9		—	4/15	4/27	—	—
X108	-717	4/9		4/13	4/16	4/22	4/16	6/17
X108RE	" RE	4/9		4/14	—	—	—	—
X109	-718	4/9		4/14	4/15	4/23	4/20	6/17
X110	-712	4/9		4/13	4/15	4/30	4/20	6/17
X111	-713	4/9		4/13	4/15	4/23	4/20	6/17
X111RE	" RE	4/9		4/13	—	—	—	—
X112	"-714	4/10		4/13	4/16	4/22	4/16	6/17
X113	-715	4/10		4/13	4/16	4/22	4/16	6/17

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

VOA - OK
SV - OK
Pest - Water samples exceed extract H.T. - 58 days from extraction to analysis

Data Validation Checklist
Site Name: Lenox Wallpaper
SDG No.: 215712
Laboratory: EPA
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I. Holding Times

Cont'

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.
X113RE	D215715RE	4/10/92	4/10/92	4/13/92	—	—	—	—
X114	D215716	4/10/92	4/10/92	4/14/92	4/15/92	4/23/92	4/20/92	6/17/92
X201	D215719	4/9/92	4/10/92	4/14/92	4/15/92	4/23/92	4/20/92	6/17/92
X201RE	" RE	4/9/92	4/10/92	4/14/92	—	—	—	—
X201DL	" DL	4/9/92	4/10/92	—	4/15/92	4/27/92	—	—

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

see other page of H.T.

Data Validation Checklist
Site Name: Lennon Wallpaper
SDG
No.: 215712
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:

Data Validation Checklist
Site Name: Lemon Wallpaper
SDG No.: 215712
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 $\overline{RRF}$s.***

	YES	NO	
a.	[X]	[ ]	Check and recalculate the *RRFs* and $\overline{RRF}$*s* for several target compounds (at least one associated with each internal standard).
b.	[X]	[ ]	Check that, for all target compounds and surrogates, the $\overline{RRF}$*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:

Data Validation Checklist
Site Name: Lenox Wallpaper
SDG No.: 215712
Laboratory: FEPA
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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:

VOLATILE CALIBRATION OUTLIERS

3/90 SOW

Lab Name: IEPA

Case: Lennon Wallpaper

Instrument # 5100B DATE/TIME: Heated Purge	Minimum RRF	Initial Cal. 4/15/92 1029			Contin. Cal. 4/17/92 1804			Contin. Cal.			Contin. Cal.			Contin. Cal.		
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Chloromethane	0.010															
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															
1,2-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															
,2-Dichloropropane	0.010															
cis-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															
2-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															

VBLKSL4
X104DL

AFFECTED SAMPLES:

Reviewer's Initials/Date: Am 7/8/92

3/92

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

VOLATILE CALIBRATION OUTLIERS

3/90 SOW

Lab Name: IEPA

Case: Lennon Wallpaper

Instrument # 5100 DATE/TIME: Heated Purge	Minimum RRF	Initial Cal. 4/3/92 1016			Contin. Cal. 4/13/92 1031			Contin. Cal. 4/14/92 1010			Contin. Cal. 4/16/92 1024			Contin. Cal.		
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Chloromethane	0.010					28.1	J					65.6	J			
Bromomethane	0.100					37.1	J					32.4	J			
Vinyl Chloride	0.100											28.2	J			
Chloroethane	0.010											49.9	J			
Methylene Chloride	0.010											38.1	J			
Acetone	0.010					31.5	J		145.3	J						
Carbon Disulfide	0.010					34.4	J		40.3	J		29.6	J			
1,1-Dichloroethene	0.100								29.0	J						
1,1-Dichloroethane	0.200															
1,2-Dichloroethene (total)	0.010															
Chloroform	0.200															
1,2-Dichloroethane	0.100															
2-Butanone	0.010					39.2	J		37.3			25.5	J			
1,1,1-Trichloroethane	0.100															
Carbon Tetrachloride	0.100															
Bromodichloromethane	0.200															
1,2-Dichloropropane	0.010															
cis-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															
2-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
X111	X114	X103
X112	X108RE	X105
X113	X109	X106
X108	X201	X107
X110	X101	X104
X111RE	X102	X104RE
X113RE	X201RE	
	X102RE	
	X109MS	
	X109MSD	

Reviewer's Initials/Date: am 7/8/92

3/92

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

VOLATILE CALIBRATION OUTLIERS

3/90 SOW

Lab Name: IEPA

Case: Lennox Wallpaper

Instrument # 5100 B	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME: Non-heated purge	RRF	4/8/92 1329			4/14/92 1327											
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Chloromethane	0.010															
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															
1,2-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															
2-Dichloropropane	0.010															
cis-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															
2-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:

VBLKW
VBLKTB
S101
S101MS
S101MSD

Reviewer's Initials/Date: AM 7/8/92

3/92

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

Data Validation Checklist
Site Name: Lenox Wallpaper
SDG No.: 215712
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.	VBLKW	VBLKSL1	VBLKSL2	VBLKSL3
Date Anal. or Extr.	4/14/92	4/13/92	4/14/92	4/16/92
Instrument	5100	5100 (h. purge)	5100 (h. purge)	5100 (h. purge)

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount
		$MeCl_2$	13	$MeCl_2$	8	$MeCl_2$	6

TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount
		UNK RT 4.55	21				
		Ethyl Ether	9				

Data Validation Checklist
Site Name: Lennon Wallpaper
SDG
No.: 215712
Laboratory: EEPA
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Blank Summary Continued

Blank Sample No.	VBLKSL4			
Date Anal. or Extr.	4/17/92			
Instrument	5100B			

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount

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

Blank Sample No.				
Date Anal. or Extr.				
Instrument				

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount

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

Data Validation Checklist
Site Name: Lennon Wallpaper
SDG No.: 215712
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:
X104 & X104RE Toluene d8-high %R, BFB-% R. low
X104DL Toluene d8 - high % R
X111RE + X113RE - Toluene d8 high % R
X109MS + MSD - 1,2 Dichloroethane-d4 high % R
S101MSD - 1,2 Dichloroethane d4 high % R

Reanalysis to use - use X102RE instead of X102
use X104RE instead of X104
use X108 instead of X108RE
use X111 instead of X111RE
use X113 instead of X113.RE
use X201 instead of X201RE

Data Validation Checklist
Site Name: Lennon Wallpaper
SDG
No.: 215712
Laboratory: EEPA
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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
5101	No compounds identified				
X109	Methylene Chloride	7	5	7	18%

Comments:
Calculations of X109MS + X109MSD spiked compounds left out the % solids factor. Also, the % moisture was not included on form 1's for X109MS + MSD. % R are OK

VIII. Laboratory Control Samples

N/A

IX. Project Specific QA/QC

Evaluation Procedures must follow the project QAPjP.

N/A

Data Validation Checklist
Site Name: Lennon Wallpaper
SDG
No.: 215712
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:

- X104DL Chlorobenzene-ds area low
- X108 Chlorobenzene ds area low
- X111 Chlorobenzene ds area low
- X111RE 1,4 Difluorobenzene + Chlorobenzene ds areas low
- X112 ~~Bromochloromethane~~ + Chlorobenzene ds areas low + Bromochloromethane is low
- X113 1,4 Difluorobenzene + Chlorobenzene ds areas low
- X113RE all 3 low
- X102 + X102RE Chlorobenzene ds area low
- X108RE Chlorobenzene ds area low
- X201 Chlorobenzene ds area low
- X201RE 1,4 Difluorobenzene + Chlorobenzene ds low area
- X109MSD Chlorobenzene ds area low
- X104 1,4 Difluorobenzene + Chlorobenzene ds low areas
- X104RE all areas low

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:

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:

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:

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:

Data Validation Checklist
Site Name: Zenon Wallpaper
SDG
No.: 215712
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:

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 insrtument(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 $\overline{RRF}$s.

	YES	NO	
a.	[X]	[ ]	Check and recalculate the *RRFs* and $\overline{RRF}$*s* for several target compounds (at least one associated with each internal standard).
b.	[X]	[ ]	Check that, for all target compounds and surrogates, the $\overline{RRF}$*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:

_____

_____

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:

SEMIVOLATILE CALIBRATION OUTLIERS

Page 1

Lab Name: IEPA

Case: Lennon Wallpaper

Instrument # INC 500	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	4/21/92 1037			4/21/92 1037			4/22/92 1339			4/23/92 918			4/23/92 1642		
		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-Chloropropanol)	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											36.5	J			
Hexachlorobutadiene	0.010															
4-Chloro-3-methylphenol	0.200															
2-Methylnaphthalene	0.400															
Hexachlorocyclopentadiene	0.010											27.1	J		29.9	J
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					36.3	J					70.7				
Acenaphthene	0.800															
2,4-Dinitrophenol	0.010															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

AFFECTED SAMPLES:

SIBLKW		SBLKSM	SBLKSL	X111
S101	This is	X113	X114	X101
S101MS	SO	X104	X109	X103
S101MSD	RRF	X108	X201	
	from calib.	X112		
	initial	X107MS		
	SBLKW	X107MSD		
	S101			
	S101MS			
	S101MSD			

Reviewer's Initials/Date: 7/9/92

3/92

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

SEMIVOLATILE CALIBRATION OUTLIERS

Page 2

Lab Name: IEPA

Case: Lenox Wallpaper

Instrument # INC500	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	4/21/92 1037			4/21/92 1037			4/22/92 1334			4/23/92 918			4/23/92 1642		
		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								26.8	J		45.4	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															
Carbazole	0.010															
Di-n-butylphthalate	0.010															
Fluoranthene	0.600															
Pyrene	0.600															
Butylbenzylphthalate	0.010															
3,3'-Dichlorobenzidine	0.010															
ızo(a)anthracene	0.800															
ɔhrysene	0.700															
bis(2-Ethylhexyl)phthalate	0.010															
Di-n-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-Fluorobiphenol	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: AM 7/9/92

SEMIVOLATILE CALIBRATION OUTLIERS

Page 1

Lab Name: IEPA

Case: Lenson Wallpaper

Instrument # INC 500	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	4/21/92 1037			4/24/92 956			4/27/92 1201								
		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-Chloropropanol)	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								43.2	J						
Hexachlorobutadiene	0.010					~~38.2~~	~~J~~									
4-Chloro-3-methylphenol	0.200															
2-Methylnaphthalene	0.400															
Hexachlorocyclopentadiene	0.010					38.2	J		44.5	J						
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								37.9	J						
Acenaphthene	0.800															
2,4-Dinitrophenol	0.010								29.3	J						
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

AFFECTED SAMPLES:

X106	X107
X102	X113MS
	X113MSD
	X107RE
	X201DL
	X106RE

Reviewer's Initials/Date Cm 7/9/92

3/92

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

SEMIVOLATILE CALIBRATION OUTLIERS

Page 2

Lab Name: FEPA

Case: Lennon Wallpaper

Instrument # INC 500	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	4/21/92 1037			4/24/92 956			4/27/92 1201								
		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								58.0	J						
4,6-Dinitro-2-methylphenol	0.010															
N-Nitrosodiphenylamine (1)	0.010								25.9	J						
4-Bromophenyl-ethylether	0.100															
Hexachlorobenzene	0.100															
Pentachlorophenol	0.050								25.6	J						
Phenanthrene	0.700															
Anthracene	0.700															
Carbazole	0.010															
Di-n-butylphthalate	0.010															
Fluoranthene	0.600															
Pyrene	0.600															
Butylbenzylphthalate	0.010															
3,3'-Dichlorobenzidine	0.010								28.0	J						
nzo(a)anthracene	0.800															
rysene	0.700															
bis(2-Ethylhexyl)phthalate	0.010															
Di-n-octylphthalate	0.010					48.6	J		49.6	J						
Benzo(b)fluoranthene	0.700															
Benzo(k)fluoranthene	0.700					28.5	J		30.6	J						
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					27.6	J									
Nitrobenzene-d5	0.200															
2-Fluorobiphenol	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 AM 7/9/92

SEMIVOLATILE CALIBRATION OUTLIERS

Page 1

Lab Name: IEPA

Case: Lennon Wallpaper

Instrument # INC 500	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	4/29/92 1407			4/30/92 907											
		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-Chloropropanol)	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					29.5	J									
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					34.0	J									
Acenaphthene	0.800															
2,4-Dinitrophenol	0.010					32.4	J									
4-Nitrophenol	0.010					38.0	J									
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

AFFECTED SAMPLES:

X110
X105

Reviewer's Initials/Date: ark 7/9/92

3/92

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

SEMIVOLATILE CALIBRATION OUTLIERS

Page 2

Lab Name: IEPA

Case: Lennon Wallpaper

Instrument # INC 500	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	4/29/92 1407			4/30/92 907											
		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					48.0	J									
4,6-Dinitro-2-methylphenol	0.010					28.8	J									
N-Nitrosodiphenylamine (1)	0.010					29.2	J									
4-Bromophenyl-ethylether	0.100															
Hexachlorobenzene	0.100															
Pentachlorophenol	0.050															
Phenanthrene	0.700															
Anthracene	0.700															
Carbazole	0.010					34.0	J									
Di-n-butylphthalate	0.010					28.0	J									
Fluoranthene	0.600															
Pyrene	0.600					27.4	J									
Butylbenzylphthalate	0.010					39.5	J									
3,3'-Dichlorobenzidine	0.010					32.7	J									
nzo(a)anthracene	0.800					27.0	J									
rysene	0.700															
bis(2-Ethylhexyl)phthalate	0.010					38.5	J									
Di-n-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-Fluorobiphenol	0.700															
Terphenyl-d14	0.500					26.4	J									
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 AM 7/9/92

SEMIVOLATILE CALIBRATION OUTLIERS

Page 1

Lab Name: IEPA

Case: Lennon Wallpaper

Instrument # INC500	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	5/7/92 1352			5/8/92 1004											
		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-Chloropropanol)	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	0.800															
2-Nitroaniline	0.010															
Dimethylphthalate	0.010															
Acenaphthylene	1.300															
2,6-Dinitrotoluene	0.200															
3-Nitroaniline	0.010															
Acenaphthene	0.800															
2,4-Dinitrophenol	0.010					26.3	J									
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															
					X104DL											

AFFECTED SAMPLES:

Reviewer's Initials/Date: am 7/9/92

3/92

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

SEMIVOLATILE CALIBRATION OUTLIERS

Page 2

Lab Name: IEPA

Case: Lennon Wallpaper

Instrument # INCS50	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	5/7/92 1352			5/8/92 1004											
		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					37.8	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															
Carbazole	0.010															
Di-n-butylphthalate	0.010															
Fluoranthene	0.600															
Pyrene	0.600															
Butylbenzylphthalate	0.010															
3,3'-Dichlorobenzidine	0.010															
nzo(a)anthracene	0.800															
rysene	0.700															
bis(2-Ethylhexyl)phthalate	0.010															
Di-n-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-Fluorobiphenol	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 AM 7/9/92

Data Validation Checklist
Site Name: Lenox Wallpaper
SDG No.: 215712
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.	SBLW	SBLKSL	SBLKSM	
Date Anal. or Extr.	Extr 4/14/92	Ext 4/15/92	4/16/92 Extr.	
Instrument	INC 500	INC 500	INC 500	

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount
		Di-n-butyl	810	bis(2-E.h.)	760		
		Butylbenzyl	720				
		bis(2-E.H)	1500				

TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount
28 UNK.		23 UNK.		Alip. Ketone	1900		
~~[illegible]~~		~~[illegible]~~		UNK RT 8.30	6900		
				Alip. Alcohol	1100		
				UNK RT 12.34	14000		
				UNK RT 13.20	840		

See attached form 1's for TIC UNK's in SBLW + SBLKSL

Data Validation Checklist
Site Name: Lenson Wallpaper
SDG No.: 215712
Laboratory: IEPA
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GPC Blks

Blank Summary Continued

Blank Sample No.	SBLKGPC1	SBLKGPC2	SBLKGPC3	SBLKGPC4
Date Anal. or Extr.	4/22/92	4/22/92	4/23/92	4/23/92
Instrument	INC500	INC500	INC500	INC500

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount

TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount
UNK RT 8.30	39000	UNK RT 8.32	39000	UNK RT 8.28	38000	Alip Ketone	700
Cyclohexenol	7000	Cyclohexenol	6900	Cyclohexenol	7300	UNK RT 8.28	930
UNK RT 12.35	89000	UNK RT 12.35	86000	UNK RT 12.32	86000	UNK RT 12.30	2000
UNK RT 13.24	4700			UNK RT 13.20	4700		

Blank Sample No.				
Date Anal. or Extr.				
Instrument				

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount

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

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKW

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: _____ Case No.: BLANK SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) WATER Lab Sample ID: D215749

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0421W07

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 04/14/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/21/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 28

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNK. TRICHLOROPROPENE	7.68	29	JN
2.	UNKNOWN ALIP. KETONE	7.88	9	AJ
3.	UNKNOWN	8.32	60	J
4.	UNK. TRICHLOROPROPENE	8.72	35	J
5.	UNKNOWN ALIP. ALCOHOL	9.10	25	AJ
6. 2441-97-6	CHLORO CYCLOHEXENE	9.62	44	JN
7.	UNK. TRICHLOROPROPENE	10.59	180	J
8.	UNKNOWN	12.35	140	J
9.	UNKNOWN	12.97	11	J
10.	UNKNOWN	13.24	30	J
11.	UNKNOWN	14.00	5	J
12.	UNKNOWN	14.75	150	J
13.	UNKNOWN	14.84	37	J
14.	UNKNOWN	16.50	13	J
15.	UNKNOWN	17.45	20	J
16.	UNKNOWN	17.84	18	J
17.	UNKNOWN	18.59	13	J
18.	UNKNOWN	20.02	17	J
19.	UNKNOWN ALIP. ACID	22.02	16	J
20.	UNKNOWN	22.55	5	J
21.	UNKNOWN	22.75	31	J
22.	UNKNOWN	25.71	5	J
23.	UNKNOWN	25.86	9	J
24.	UNKNOWN	29.26	17	J
25.	UNKNOWN	29.97	91	J
26.	UNKNOWN	31.67	4	J
27. 2605-67-6	ACETIC ACID METHYL ESTER	32.91	140	JN
28.	UNKNOWN	33.56	6	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKSL

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215927

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0423W03

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 23

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.72	280	J
2.	UNKNOWN ALIP. KETONE	8.13	52000	AJ
3.	UNKNOWN	8.32	2200	J
4.	UNKNOWN ALIP. HYDROCARBON	8.50	730	J
5.	UNKNOWN ALIP. HYDROCARBON	8.70	640	J
6.	UNKNOWN ALIP. ALCOHOL	9.09	280	AJ
7.	UNKNOWN	9.64	210	J
8.	UNKNOWN	9.77	1900	J
9.	UNKNOWN	10.52	3300	J
10.	UNKNOWN	10.74	390	J
11.	UNKNOWN	11.42	310	J
12.	UNKNOWN	11.85	420	J
13.	UNKNOWN	11.95	640	J
14.	UNKNOWN	12.02	500	J
15.	UNKNOWN	12.32	2900	J
16.	UNKNOWN	12.77	3800	J
17.	UNKNOWN	29.07	230	J
18.	UNKNOWN	30.14	1200	J
19.	UNKNOWN	31.72	3400	J
20.	UNKNOWN	31.82	370	J
21.	UNKNOWN ALIP. HYDROCARBON	32.16	630	J
22.	UNKNOWN ALIP. HYDROCARBON	33.07	290	J
23.	UNKNOWN	35.52	280	J

Data Validation Checklist
Site Name: Lenox Wallpaper
SDG
No.: 215712
Laboratory: FEPA
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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:
- Use X106 instead of its reanalysis X106RE
- Use X107RE instead of the original analysis X107

Data Validation Checklist
Site Name: Lemon Wallpaper
SDG
No.: 215712
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.

Compound	Orig. Result	MS Result	MSD Result	%RSD

Comments:

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:

- X106 Perylene-d12 area low
  X113MSD DCB, NPT, + CRY high areas
- X106RE CRY high area, PRY low area
- X107 CRY high area, PRY area low
- X107RE CRY high area
  X113MS CRY high 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:

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:

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:

Data Validation Checklist
Site Name: Lenson Wallpaper
SDG No.: 215712
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:

Data Validation Checklist
Site Name: Lennon Wallpaper
SDG No.: 215712
Laboratory: IEPA
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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:
PEM02 (GC column DB-608) - Endrin % breakdown 25.0
" Combined % " 34.6
PEM04 (Column DB-608) Endrin 21%
Combined 31.6%

Data Validation Checklist
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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:
The following compounds exceeded % RSD (column DB-608)

α-BHC	25.1	4,4'-DDD	22.7
β-BHC	20.8	Endosulfan sulfate	28.5
delta-BHC	36.1	Endrin aldehyde	25.9
4,4'-DDE	20.5		
Endrin	20.2		
Endosulfan II	20.5		

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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:

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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.	PBLK52	PBLK51	PBLKW1	PIBLK01
Date Anal. or Extr.	~~04/17~~ 4/20 Ext 6/17 Ana.	4/16 Ext 6/18 Ana	Ext 4/14 Ana 6/18	Anal 6/17/92
Instrument	HP1 & 2	HP1 & 2	HP1 & 2	HP1 & 2

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount

TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount
N	A	N	A	N	A	N	A

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Blank Summary Continued

Blank Sample No.	P1BLK02	P1BLK03	P1BLK04	
Date Anal. or Extr.	6/17/92	6/17/92	6/18/92	
Instrument	HP1 & 2	HP1 & 2	HP1 & 2	

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount

TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount
N/A		N/A		N/A			

Blank Sample No.				
Date Anal. or Extr.				
Instrument				

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount

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

Data Validation Checklist
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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 affected 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:
X113MS + MSD - surrogates may have been diluted out
* See attached for list of samples exceeding %R
* PBLK52 did not meet %R criteria

Surrogate %R - Pest

(Soils)

PBLKS2	DCB (HP2) high
X101	DCB (both columns) high
X103	DCB (both columns) high
X106	TCX (HP1) high
	DCB (HP2) high
X107	TCX (HP1) high
	DCB (HP2) high
X108	TCX (HP1) low (may be due to dilution)
X109	DCB (HP2) high
X110	TCX (HP1) high
	DCB (both columns) high
X111	TCX (HP1) high
	DCB (HP1) high
X113	all surrogates diluted out
X114	DCB (both columns) high
X201	DCB (HP2) high

(water)

S101	{DCB (HP1) high

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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
No Non-spiked Compounds found in samples.				

Comments:
X113 — all recoveries low (MS + MSD)
%RPD high for Heptachlor, Endrin, 4,4'-DDT
X114 MSD — %R 4,4' DDT high
5101 — all RPD's high
MSD %R high for gamma-BHC, Aldrin, Dieldrin, Endrin + 4,4' DDT

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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:

Florisil % R - 4,4'-DDT 122.5%
- TCX 122.0 %

GPC - % R - gamma BHC 148%
~~[illegible]~~
Aldrin 121%
Dieldrin 133.5%
Endrin 151 %
4,4'-DDT 153 %

* Chromatogram for GPC calibration check not included in package - raw data could not be checked for GPC calib check.

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:

Data Validation Checklist
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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:

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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 qualified as indicated on Form 1's.

ak.

IEPA DIVISION of LABORATORIES

QUALITY ASSURANCE SECTION

INORGANIC DATA VALIDATION

Site: Lennon Wallpaper Laboratory: IEPA Champaign Lab

SDG: 69 Analytical Protocol ILM01.0 Review Date: August 4, 1992

Reviewer: Chris Bridges Reviewer Signature: Chris Bridges

Number Aqueous Samples: 1 Analytes: Trace Metals, Hg, CN, Sulfide, Sulfate, Others:

Number Solid/Soil Samples: 15 Analytes: Trace Metals, Hg, CN, Sulfide, Sulfate, Others:

	YES	NO	N/A
Cover Page - Present?	X		
Do sample numbers on cover page agree with sample numbers on:			
(a) Chain - of - Custody Forms?	X		
(b) Form I's?	X		
Form I (Final Data)			
Are all Form I's present and complete?	X		
Are correct units (ug/l - waters & mg/kg - soils) indicated on Form I's?	X		
Are soil sample results corrected for percent solids?	X		

I. Holding Times:

Mercury (28 days)	exceeded?		X	
Cyanide (14 days)	exceeded?		X	
other Metals (6 months)	exceeded?		X	

ACTIONS: None

II. 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		
	Mercury?	X		
	Cyanide?	X		
Are acceptable calibration present for other parameters?		X		

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

None

	YES	NO	N/A
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		
All Calibration Verification % Recoveries meet criteria?	X		

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

None

III. Form 3 (Blanks)

All necessary Form 3s present and complete?	X		
A. Initial and Continuing Calibration Blanks			
Analyzed at Correct Frequencies?	X		
All ICBs and CCBs meet no contamination criteria?		X	

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

Waters

Al (-169.0/144) S101 is estimated (J)

Sb (-48.3/42) S101 is estimated (J)

Ca & Na - contamination noted, however no samples affected

Soils

~~Be~~ CB Ag (9.3, 10.9/5.0) X101, X102, X103, X104, X105, X106, X107, X108 X109, X110, X111, X114 are flagged (U)

Sr (3.3, 1.7, 1.9, -1.1/1.0) X101, X102 are flagged (U)

Ba, Cu, Pb & Zn - contamination noted, however no samples affected.

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

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

Waters

Zn (51.9/8.0) 5101 is flagged (U)

Pb, Al, Na - contamination noted; however, no samples affected

Soils

Co (-4.0/3.0) X104, X106, X112 are estimated (J)

Ni (22/13) X101, X103, X104, X105, X106, X107, X109, X112 are flagged (U)

Na (530/114) X103, X104, X106, X107, X109, X112, X113, X114, X201 are flagged (U)

(-4.0/3.0) X104, X112 are estimated (J)

Ca, Fe, Pb, Zn, - contamination noted, however, not data affected

IV. Form IV (ICP Interference Check Sample)

Form IV Present and complete?	X		
All % Recoveries of ICSAB Solution +/- 20 % of True Value	X		
For all 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)

The values for Cr, Cu, Mn, and Zn exceed their IDL's; however no samples affected.

	YES	NO	N/A
V. Form VII Laboratory Control Sample: (Note: LCS - not required for aqueous Hg.)			
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 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

	YES	NO	N/A
VI. Form 6 Duplicate Sample Analysis:			
Present and complete for:			
each 20 samples?	X		
each matrix type?	X		
For both AA and ICP when both are used for same analyte?	X		
Were all Duplicate Analyses differences within criteria?	X		

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

None

	YES	NO	N/A
VII. Form 5 (Spike Sample Recovery)			
resent and complete for: each 20 samples?	(X)		
each matrix type?	(X)		
Were all Matrix Spike % Recoveries within criteria?	( )	X	

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

Waters
Al %R 71.3, S101 is estimated (J)
As %R 69.8, S101 is estimated (J)

Soils
Sb 14.4%R, X101, X102, X103, X104, X105, X106, X107, X108, X109
X110, X111, ~~X112~~, X113, X114, X201 are flagged (R)
Sb 14.4%R, X112 is estimated (J)
Se 315%R, X101, X102, X106, X110, X111 are estimated (J)

Sb - the "N" qualifier was in the incorrect analyte on Form I's.

	YES	NO	N/A
VIII. Furnace Atomic Absorption (AA) QC:			
Did the laboratory utilize duplicate injections for all non-MSA analyses?	(X)		
Does the GFAA flow 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)

all results flagged "W" by lab are estimated (J)
all results flagged "+" by lab are estimated (J)
all results flagged "E" by lab are estimated (J)

Waters - Se (S101) the "W" qualifier added to Form I
Soils - Tl (X201) the "W" qualifier added to Form I

	YES	NO	N/A
IX. Form IX (ICP Serial Dilution)			
Was Serial Dilution analysis performed for:			
each 20 or fewer samples?	X		
each matrix type?	X		
Were all serial dilution results within criteria?	X		

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

None

	YES	NO	N/A
Raw Data			
Digestion Log for flame AA/ICP present?	X		
Digestion Log for furnace AA present?	X		
Digestion Log for mercury present?	X		
Digestion Log for cyanides present?	X		
Weights, dilutions and volumes used to obtain values present?	X		
Percent solids calculation present for soil (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 raw data to support all sample analyses and QC operations present?	X		
Legible?	X		
Properly Labeled?	X		

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X114

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215716

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0414BK04

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 17 Date Analyzed: 04/14/92

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	U
67-64-1	Acetone	12	UJ
75-15-0	Carbon Disulfide	12	UJ
75-35-4	1,1-Dichloroethene	12	UJ
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	UJ
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.

X114

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215716

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0414BK04

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 17 Date Analyzed: 04/14/92

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.

X114

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215716

Sample wt/vol: 30.8 (g/mL) G Lab File ID: B0423W05

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

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	UJ
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	UJ
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	940	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	940	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	940	UJ
83-32-9	Acenaphthene	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X114

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215716

Sample wt/vol: 30.8 (g/mL) G Lab File ID: B0423W05

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
51-28-5	2,4-Dinitrophenol	940	U	
100-02-7	4-Nitrophenol	940	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	940	UJ	
534-52-1	4,6-Dinitro-2-methylphenol	940	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	940	U	
85-01-8	Phenanthrene	390	U	
120-12-7	Anthracene	390	U	
86-74-8	Carbazole	390	U	
84-74-2	Di-n-Butylphthalate	1800	~~B~~U	am
206-44-0	Fluoranthene	81	J	
129-00-0	Pyrene	390	U	
85-68-7	Butylbenzylphthalate	130	~~BJ~~U	am
91-94-1	3,3'-Dichlorobenzidine	390	U	
56-55-3	Benzo(a)Anthracene	390	U	
218-01-9	Chrysene	390	U	
117-81-7	bis(2-Ethylhexyl)Phthalate	330	~~BJ~~U	am
117-84-0	Di-n-Octyl Phthalate	390	U	
205-99-2	Benzo(b)Fluoranthene	390	U	
207-08-9	Benzo(k)Fluoranthene	390	U	
50-32-8	Benzo(a)Pyrene	390	U	
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.

X114

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215716

Sample wt/vol: 30.8 (g/mL) G Lab File ID: B0423W05

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

Number TICs found: 22

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. KETONE	8.20	52000	~~BJ~~ U am
2.	UNKNOWN	8.39	2800	~~BJ~~ U
3.	UNKNOWN	9.84	2000	~~BJ~~ U
4.	UNKNOWN	11.60	9500	J
5.	UNKNOWN	11.92	1000	J
6.	UNKNOWN	12.37	3700	J
7.	UNKNOWN	12.80	6600	J
8.	UNKNOWN	15.14	650	J
9.	UNKNOWN ALIP. ACID	26.51	1400	J
10.	UNKNOWN	28.77	780	J
11.	UNKNOWN ALIP. HYDROCARBON	31.21	490	J
12.	UNKNOWN ALIP. HYDROCARBON	32.19	1700	J
13.	UNKNOWN	33.01	14000	J
14.	UNKNOWN ALIP. HYDROCARBON	33.11	470	J
15.	UNKNOWN ALIP. HYDROCARBON	34.04	2400	J
16.	UNKNOWN	34.06	2100	J
17.	UNKNOWN ALIP. HYDROCARBON	35.07	480	J
18.	UNKNOWN	35.57	760	J
19.	UNKNOWN ALIP. HYDROCARBON	36.29	3000	J
20.	UNKNOWN	36.39	2000	J
21.	UNKNOWN ALIP. HYDROCARBON	39.46	4900	J
22.	UNKNOWN ALIP. HYDROCARBON	44.08	1900	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X114

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215716

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

% Moisture: 17 decanted: (Y/N) N Date Received: 04/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/20/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/17/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	20	UJ
319-85-7	beta-BHC	20	UJ
319-86-8	delta-BHC	20	UJ
58-89-9	gamma-BHC (Lindane)	20	U
76-44-8	Heptachlor	20	U
309-00-2	Aldrin	20	U
1024-57-3	Heptachlor epoxide	20	U
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	39	U
72-55-9	4,4'-DDE	39	UJ
72-20-8	Endrin	39	UJ
33213-65-9	Endosulfan II	39	UJ
72-54-8	4,4'-DDD	39	UJ
1031-07-8	Endosulfan sulfate	39	UJ
50-29-3	4,4'-DDT	39	U
72-43-5	Methoxychlor	200	U
53494-70-5	Endrin ketone	39	U
7421-36-3	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	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	390	U
11096-82-5	Aroclor-1260	390	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215720

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0414BK08

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 38 Date Analyzed: 04/14/92

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	16	U
74-83-9	Bromomethane	16	U
75-01-4	Vinyl Chloride	16	U
75-00-3	Chloroethane	16	U
75-09-2	Methylene Chloride	16	U
67-64-1	Acetone	8	J
75-15-0	Carbon Disulfide	16	UJ
75-35-4	1,1-Dichloroethene	16	UJ
75-34-3	1,1-Dichloroethane	16	U
540-59-0	1,2-Dichloroethene (total)	16	U
67-66-3	Chloroform	16	U
107-06-2	1,2-Dichloroethane	16	U
78-93-3	2-Butanone	16	UJ
71-55-6	1,1,1-Trichloroethane	16	U
56-23-5	Carbon Tetrachloride	16	U
75-27-4	Bromodichloromethane	16	U
78-87-5	1,2-Dichloropropane	16	U
10061-01-5	cis-1,3-Dichloropropene	16	U
79-01-6	Trichloroethene	16	U
124-48-1	Dibromochloromethane	16	U
79-00-5	1,1,2-Trichloroethane	16	U
71-43-2	Benzene	16	U
10061-02-6	trans-1,3-Dichloropropene	16	U
75-25-2	Bromoform	16	U
108-10-1	4-Methyl-2-Pentanone	16	U
591-78-6	2-Hexanone	16	U
127-18-4	Tetrachloroethene	16	U
79-34-5	1,1,2,2-Tetrachloroethane	16	U
108-88-3	Toluene	16	U
108-90-7	Chlorobenzene	16	U
100-41-4	Ethylbenzene	16	U
100-42-5	Styrene	16	U
1330-20-7	Xylene (total)	16	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215720

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0414BK08

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 38 Date Analyzed: 04/14/92

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.

X101

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215720

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0423W12

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 38 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/92

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	530	U
111-44-4	bis(2-Chloroethyl)Ether	530	U
95-57-8	2-Chlorophenol	530	U
541-73-1	1,3-Dichlorobenzene	530	U
106-46-7	1,4-Dichlorobenzene	530	U
95-50-1	1,2-Dichlorobenzene	530	U
95-48-7	2-Methylphenol	530	U
108-60-1	2,2'-oxybis(1-Chloropropane)	530	U
106-44-5	4-Methylphenol	530	U
621-64-7	N-Nitroso-Di-n-Propylamine	530	U
67-72-1	Hexachloroethane	530	U
98-95-3	Nitrobenzene	530	U
78-59-1	Isophorone	530	U
88-75-5	2-Nitrophenol	530	U
105-67-9	2,4-Dimethylphenol	530	U
111-91-1	bis(2-Chloroethoxy)Methane	530	U
120-83-2	2,4-Dichlorophenol	530	U
120-82-1	1,2,4-Trichlorobenzene	530	U
91-20-3	Naphthalene	530	U
106-47-8	4-Chloroaniline	530	U
87-68-3	Hexachlorobutadiene	530	U
59-50-7	4-Chloro-3-Methylphenol	530	U
91-57-6	2-Methylnaphthalene	530	U
77-47-4	Hexachlorocyclopentadiene	530	UJ
88-06-2	2,4,6-Trichlorophenol	530	U
95-95-4	2,4,5-Trichlorophenol	1300	U
91-58-7	2-Chloronaphthalene	530	U
88-74-4	2-Nitroaniline	1300	U
131-11-3	Dimethylphthalate	530	U
208-96-8	Acenaphthylene	530	U
606-20-2	2,6-Dinitrotoluene	530	U
99-09-2	3-Nitroaniline	1300	U
83-32-9	Acenaphthene	530	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215720

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0423W12

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 38 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/92

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	1300	U	
100-02-7	4-Nitrophenol	1300	U	
132-64-9	Dibenzofuran	530	U	
121-14-2	2,4-Dinitrotoluene	530	U	
84-66-2	Diethylphthalate	530	U	
7005-72-3	4-Chlorophenyl-phenylether	530	U	
86-73-7	Fluorene	530	U	
100-10-6	4-Nitroaniline	1300	U	
534-52-1	4,6-Dinitro-2-methylphenol	1300	U	
86-30-6	N-Nitrosodiphenylamine (1)	530	U	
101-55-3	4-Bromophenyl-phenylether	530	U	
118-74-1	Hexachlorobenzene	530	U	
87-86-5	Pentachlorophenol	1300	U	
85-01-8	Phenanthrene	160	J	
120-12-7	Anthracene	530	U	
86-74-8	Carbazole	530	U	
84-74-2	Di-n-Butylphthalate	2200	~~B~~U	am
206-44-0	Fluoranthene	280	J	
129-00-0	Pyrene	300	J	
85-68-7	Butylbenzylphthalate	870	~~B~~U	am
91-94-1	3,3'-Dichlorobenzidine	530	U	
56-55-3	Benzo(a)Anthracene	530	U	
218-01-9	Chrysene	530	U	
117-81-7	bis(2-Ethylhexyl)Phthalate	1200	~~B~~U	am
117-84-0	Di-n-Octyl Phthalate	530	U	
205-99-2	Benzo(b)Fluoranthene	530	U	
207-08-9	Benzo(k)Fluoranthene	530	U	
50-32-8	Benzo(a)Pyrene	530	U	
193-39-5	Indeno(1,2,3-cd)Pyrene	530	U	
53-70-3	Dibenz(a,h)Anthracene	530	U	
191-24-2	Benzo(g,h,i)Perylene	530	U	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215720

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0423W12

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 38 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/92

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.	UNKNOWN ALIP. KETONE	8.13	67000	~~BAJ~~ U am
2.	UNKNOWN	32.17	4500	J
3.	UNKNOWN	32.74	1500	J
4.	UNKNOWN ALIP. HYDROCARBON	33.12	1100	~~BJ~~ U am
5.	UNKNOWN	33.21	310	J
6.	UNKNOWN	33.26	250	J
7.	UNKNOWN	33.39	350	J
8.	UNKNOWN	33.39	710	J
9.	UNKNOWN	33.44	540	J
10.	UNKNOWN	33.51	370	J
11.	UNKNOWN	33.56	340	J
12.	UNKNOWN	33.62	160	J
13.	UNKNOWN	33.69	1200	J
14.	UNKNOWN	33.76	29	J
15.	UNKNOWN	33.81	110	J
16.	UNKNOWN	33.87	74	J
17.	UNKNOWN ALIP. HYDROCARBON	34.06	2900	J
18.	UNKNOWN	34.14	1000	J
19.	UNKNOWN	34.22	600	J
20.	UNKNOWN	34.24	300	J
21.	UNKNOWN	34.42	320	J
22.	UNKNOWN	34.47	300	J
23.	UNKNOWN	34.57	100	J
24.	UNKNOWN	34.72	310	J
25.	UNKNOWN	34.77	210	J
26.	UNKNOWN	35.09	2000	J
27.	UNKNOWN	35.09	1700	J
28.	UNKNOWN ALIP. HYDROCARBON	36.32	7100	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101DL

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215720

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

% Moisture: 38 decanted: (Y/N) N Date Received: 04/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/20/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/17/92

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
319-84-6	alpha-BHC	27	UJ
319-85-7	beta-BHC	27	UJ
319-86-8	delta-BHC	27	UJ
58-89-9	gamma-BHC (Lindane)	27	U
76-44-8	Heptachlor	27	U
309-00-2	Aldrin	27	U
1024-57-3	Heptachlor epoxide	27	U
959-98-8	Endosulfan I	27	U
60-57-1	Dieldrin	31	JPD
72-55-9	4,4'-DDE	53	UJ
72-20-8	Endrin	53	UJ
33213-65-9	Endosulfan II	53	UJ
72-54-8	4,4'-DDD	53	UJ
1031-07-8	Endosulfan sulfate	53	UJ
50-29-3	4,4'-DDT	53	U
72-43-5	Methoxychlor	270	U
53494-70-5	Endrin ketone	53	U
7421-36-3	Endrin aldehyde	53	UJ
5103-71-9	alpha-Chlordane	27	U
5103-74-2	gamma-Chlordane	27	U
8001-35-2	Toxaphene	2700	U
12674-11-2	Aroclor-1016	530	U
11104-28-2	Aroclor-1221	1100	U
11141-16-5	Aroclor-1232	530	U
53469-21-9	Aroclor-1242	530	U
12672-29-6	Aroclor-1248	530	U
11097-69-1	Aroclor-1254	530	U
11096-82-5	Aroclor-1260	530	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102RE

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215721RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0414BK11

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 37 Date Analyzed: 04/14/92

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	16	U	
74-83-9	Bromomethane	16	U	
75-01-4	Vinyl Chloride	16	U	
75-00-3	Chloroethane	16	U	
75-09-2	Methylene Chloride	16 ~~B~~	~~BJ~~ U	am
67-64-1	Acetone	16	UJ	
75-15-0	Carbon Disulfide	16	UJ	
75-35-4	1,1-Dichloroethene	16	UJ	
75-34-3	1,1-Dichloroethane	16	U	
540-59-0	1,2-Dichloroethene (total)	16	U	
67-66-3	Chloroform	16	U	
107-06-2	1,2-Dichloroethane	16	U	
78-93-3	2-Butanone	16	UJ	
71-55-6	1,1,1-Trichloroethane	16	U~~J~~	am
56-23-5	Carbon Tetrachloride	16	U~~J~~	am
75-27-4	Bromodichloromethane	16	U~~J~~	am
78-87-5	1,2-Dichloropropane	16	U~~J~~	am
10061-01-5	cis-1,3-Dichloropropene	16	U~~J~~	am
79-01-6	Trichloroethene	16	U~~J~~	am
124-48-1	Dibromochloromethane	16	U~~J~~	am
79-00-5	1,1,2-Trichloroethane	16	U~~J~~	am
71-43-2	Benzene	16	U~~J~~	am
10061-02-6	trans-1,3-Dichloropropene	16	U~~J~~	am
75-25-2	Bromoform	16	U~~J~~	am
108-10-1	4-Methyl-2-Pentanone	16	UJ	
591-78-6	2-Hexanone	16	UJ	
127-18-4	Tetrachloroethene	16	UJ	
79-34-5	1,1,2,2-Tetrachloroethane	16	UJ	
108-88-3	Toluene	16	UJ	
108-90-7	Chlorobenzene	16	UJ	
100-41-4	Ethylbenzene	16	UJ	
100-42-5	Styrene	16	UJ	
1330-20-7	Xylene (total)	16	UJ	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102RE

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215721RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0414BK11

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 37 Date Analyzed: 04/14/92

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	5.12	9	JN

FORM I VOA-TIC

3/90

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215721

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0424K05

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 36 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/24/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	520	U
111-44-4	bis(2-Chloroethyl)Ether	520	U
95-57-8	2-Chlorophenol	520	U
541-73-1	1,3-Dichlorobenzene	520	U
106-46-7	1,4-Dichlorobenzene	520	U
95-50-1	1,2-Dichlorobenzene	520	U
95-48-7	2-Methylphenol	520	U
108-60-1	2,2'-oxybis(1-Chloropropane)	520	U
106-44-5	4-Methylphenol	520	U
621-64-7	N-Nitroso-Di-n-Propylamine	520	U
67-72-1	Hexachloroethane	520	U
98-95-3	Nitrobenzene	520	U
78-59-1	Isophorone	520	U
88-75-5	2-Nitrophenol	520	U
105-67-9	2,4-Dimethylphenol	520	U
111-91-1	bis(2-Chloroethoxy)Methane	520	U
120-83-2	2,4-Dichlorophenol	520	U
120-82-1	1,2,4-Trichlorobenzene	520	U
91-20-3	Naphthalene	80	J
106-47-8	4-Chloroaniline	92	J
87-68-3	Hexachlorobutadiene	520	U
59-50-7	4-Chloro-3-Methylphenol	520	U
91-57-6	2-Methylnaphthalene	110	J
77-47-4	Hexachlorocyclopentadiene	520	UJ
88-06-2	2,4,6-Trichlorophenol	520	U
95-95-4	2,4,5-Trichlorophenol	1200	U
91-58-7	2-Chloronaphthalene	520	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	520	U
208-96-8	Acenaphthylene	520	U
606-20-2	2,6-Dinitrotoluene	520	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	520	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215721

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0424K05

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 36 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/24/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
51-28-5	2,4-Dinitrophenol	1200	U	
100-02-7	4-Nitrophenol	1200	U	
132-64-9	Dibenzofuran	520	U	
121-14-2	2,4-Dinitrotoluene	520	U	
84-66-2	Diethylphthalate	520	U	
7005-72-3	4-Chlorophenyl-phenylether	520	U	
86-73-7	Fluorene	520	U	
100-10-6	4-Nitroaniline	1200	U	
534-52-1	4,6-Dinitro-2-methylphenol	1200	U	
86-30-6	N-Nitrosodiphenylamine (1)	520	U	
101-55-3	4-Bromophenyl-phenylether	520	U	
118-74-1	Hexachlorobenzene	520	U	
87-86-5	Pentachlorophenol	1200	U	
85-01-8	Phenanthrene	250	J	
120-12-7	Anthracene	520	U	
86-74-8	Carbazole	520	U	
84-74-2	Di-n-Butylphthalate	1900	~~B~~U	am
206-44-0	Fluoranthene	270	J	
129-00-0	Pyrene	280	J	
85-68-7	Butylbenzylphthalate	940	~~B~~U	am
91-94-1	3,3'-Dichlorobenzidine	520	U	
56-55-3	Benzo(a)Anthracene	520	U	
218-01-9	Chrysene	520	U	
117-81-7	bis(2-Ethylhexyl)Phthalate	1600	~~B~~U	am
117-84-0	Di-n-Octyl Phthalate	520	UJ	
205-99-2	Benzo(b)Fluoranthene	520	U	
207-08-9	Benzo(k)Fluoranthene	520	UJ	
50-32-8	Benzo(a)Pyrene	520	U	
193-39-5	Indeno(1,2,3-cd)Pyrene	520	U	
53-70-3	Dibenz(a,h)Anthracene	520	U	
191-24-2	Benzo(g,h,i)Perylene	520	UJ	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215721

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0424K05

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 36 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/24/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

Number TICs found: 23

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. KETONE	8.20	19000	~~BAJ~~ u
2.	UNKNOWN	18.74	4200	J
3.	UNKNOWN ALIP. HYDROCARBON	32.21	1900	~~BJ~~ u
4.	UNKNOWN	32.57	240	J
5.	UNKNOWN	32.77	1600	J
6.	UNKNOWN	32.91	250	J
7.	UNKNOWN	32.97	1500	J
8.	UNKNOWN	33.01	270	J
9.	UNKNOWN	33.14	940	J
10.	UNKNOWN	33.37	1800	J
11.	UNKNOWN	33.42	170	J
12.	UNKNOWN	33.57	210	J
13.	UNKNOWN	33.66	350	J
14.	UNKNOWN	33.69	530	J
15.	UNKNOWN	33.84	260	J
16.	UNKNOWN	33.96	160	J
17.	UNKNOWN ALIP. HYDROCARBON	34.07	1400	J
18.	UNKNOWN	34.16	390	J
19.	UNKNOWN	34.26	420	J
20.	UNKNOWN	34.51	200	J
21.	UNKNOWN	34.74	180	J
22.	UNKNOWN	34.79	180	J
23.	UNKNOWN	35.12	3000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102DL

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215721

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

% Moisture: 36 decanted: (Y/N) N Date Received: 04/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/20/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/17/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	26	UJ
319-85-7	beta-BHC	26	UJ
319-86-8	delta-BHC	26	UJ
58-89-9	gamma-BHC (Lindane)	26	U
76-44-8	Heptachlor	26	U
309-00-2	Aldrin	26	U
1024-57-3	Heptachlor epoxide	26	U
959-98-8	Endosulfan I	26	U
60-57-1	Dieldrin	91	D
72-55-9	4,4'-DDE	51	UJ
72-20-8	Endrin	20	JPD
33213-65-9	Endosulfan II	51	UJ
72-54-8	4,4'-DDD	51	UJ
1031-07-8	Endosulfan sulfate	51	UJ
50-29-3	4,4'-DDT	51	U
72-43-5	Methoxychlor	260	U
53494-70-5	Endrin ketone	31	JPDN
7421-36-3	Endrin aldehyde	51	UJ
5103-71-9	alpha-Chlordane	26	U
5103-74-2	gamma-Chlordane	26	U
8001-35-2	Toxaphene	2600	U
12674-11-2	Aroclor-1016	510	U
11104-28-2	Aroclor-1221	1000	U
11141-16-5	Aroclor-1232	510	U
53469-21-9	Aroclor-1242	510	U
12672-29-6	Aroclor-1248	510	U
11097-69-1	Aroclor-1254	510	U
11096-82-5	Aroclor-1260	510	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215722

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0416BK04

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 25 Date Analyzed: 04/16/92

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	UJ
75-01-4	Vinyl Chloride	13	UJ
75-00-3	Chloroethane	13	UJ
75-09-2	Methylene Chloride	13 ~~11~~	~~BJ~~ UJ am
67-64-1	Acetone	11	J
75-15-0	Carbon Disulfide	13	UJ
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	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	UJ
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.

X103

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215722

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0416BK04

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 25 Date Analyzed: 04/16/92

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	5.17	12	JN

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215722

Sample wt/vol: 30.1 (g/mL) G Lab File ID: B0423W13

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 25 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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	440	U
111-44-4	bis(2-Chloroethyl)Ether	440	U
95-57-8	2-Chlorophenol	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
95-50-1	1,2-Dichlorobenzene	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-Di-n-Propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
111-91-1	bis(2-Chloroethoxy)Methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
120-82-1	1,2,4-Trichlorobenzene	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
59-50-7	4-Chloro-3-Methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	UJ
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	1100	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	440	U
208-96-8	Acenaphthylene	440	U
606-20-2	2,6-Dinitrotoluene	440	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	440	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215722

Sample wt/vol: 30.1 (g/mL) G Lab File ID: B0423W13

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 25 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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	1100	U	
100-02-7	4-Nitrophenol	1100	U	
132-64-9	Dibenzofuran	440	U	
121-14-2	2,4-Dinitrotoluene	440	U	
84-66-2	Diethylphthalate	440	U	
7005-72-3	4-Chlorophenyl-phenylether	440	U	
86-73-7	Fluorene	440	U	
100-10-6	4-Nitroaniline	1100	U	
534-52-1	4,6-Dinitro-2-methylphenol	1100	U	
86-30-6	N-Nitrosodiphenylamine (1)	440	U	
101-55-3	4-Bromophenyl-phenylether	440	U	
118-74-1	Hexachlorobenzene	440	U	
87-86-5	Pentachlorophenol	1100	U	
85-01-8	Phenanthrene	220	J	
120-12-7	Anthracene	440	U	
86-74-8	Carbazole	440	U	
84-74-2	Di-n-Butylphthalate	1500	~~B~~U	am
206-44-0	Fluoranthene	350	J	
129-00-0	Pyrene	360	J	
85-68-7	Butylbenzylphthalate	1000	~~B~~U	am
91-94-1	3,3'-Dichlorobenzidine	440	U	
56-55-3	Benzo(a)Anthracene	210	J	
218-01-9	Chrysene	240	J	
117-81-7	bis(2-Ethylhexyl)Phthalate	2000	~~B~~U	am
117-84-0	Di-n-Octyl Phthalate	150	J	
205-99-2	Benzo(b)Fluoranthene	420	J	
207-08-9	Benzo(k)Fluoranthene	440	U	
50-32-8	Benzo(a)Pyrene	440	U	
193-39-5	Indeno(1,2,3-cd)Pyrene	440	U	
53-70-3	Dibenz(a,h)Anthracene	440	U	
191-24-2	Benzo(g,h,i)Perylene	440	U	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215722

Sample wt/vol: 30.1 (g/mL) G Lab File ID: B0423W13

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 25 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2

Number TICs found: 22

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN ALIP. KETONE	8.15	57000	~~BAJ~~ U	am
2.	UNKNOWN	12.34	3700	~~BJ~~ U	-
3.	UNKNOWN	12.79	6400	~~BJ~~ U	am
4.	UNKNOWN	30.12	1200	~~BJ~~ U	am
5.	UNKNOWN ALIP. HYDROCARBON	31.19	850	J	
6.	UNKNOWN	31.72	2200	~~BJ~~ U	am
7.	UNKNOWN	32.04	160	J	
8.	UNKNOWN ALIP. HYDROCARBON	32.16	2000	~~BJ~~ U	am
9.	UNKNOWN	32.51	70	J	
10.	UNKNOWN ALIP. HYDROCARBON	33.09	110	~~BJ~~ U	am
11.	UNKNOWN	33.64	310	J	
12.	UNKNOWN	33.77	260	J	
13.	UNKNOWN ALIP. HYDROCARBON	34.02	2000	J	
14.	UNKNOWN ALIP. HYDROCARBON	35.06	850	J	
15.	UNKNOWN	35.56	540	J	
16.	UNKNOWN	35.84	520	J	
17.	UNKNOWN	35.96	300	J	
18.	UNKNOWN	36.02	190	J	
19.	UNKNOWN ALIP. HYDROCARBON	36.27	2600	J	
20.	UNKNOWN	36.37	430	J	
21.	UNKNOWN	36.51	85	J	
22.	UNKNOWN	36.79	760	J	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103DL

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215722

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

% Moisture: 25 decanted: (Y/N) N Date Received: 04/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/20/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/17/92

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
319-84-6	alpha-BHC	23	UJ
319-85-7	beta-BHC	23	UJ
319-86-8	delta-BHC	23	UJ
58-89-9	gamma-BHC (Lindane)	23	U
76-44-8	Heptachlor	23	U
309-00-2	Aldrin	23	U
1024-57-3	Heptachlor epoxide	25	D
959-98-8	Endosulfan I	23	U
60-57-1	Dieldrin	44	U
72-55-9	4,4'-DDE	44	UJ
72-20-8	Endrin	44	UJ
33213-65-9	Endosulfan II	44	UJ
72-54-8	4,4'-DDD	44	UJ
1031-07-8	Endosulfan sulfate	44	UJ
50-29-3	4,4'-DDT	44	U
72-43-5	Methoxychlor	230	U
53494-70-5	Endrin ketone	44	U
7421-36-3	Endrin aldehyde	44	UJ
5103-71-9	alpha-Chlordane	17	JPD
5103-74-2	gamma-Chlordane	10	JPD
8001-35-2	Toxaphene	2300	U
12674-11-2	Aroclor-1016	440	U
11104-28-2	Aroclor-1221	890	U
11141-16-5	Aroclor-1232	440	U
53469-21-9	Aroclor-1242	440	U
12672-29-6	Aroclor-1248	440	U
11097-69-1	Aroclor-1254	440	U
11096-82-5	Aroclor-1260	440	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104RE

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215723RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0416BK11

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 59 Date Analyzed: 04/16/92

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	24	UJ
74-83-9	Bromomethane	24	UJ
75-01-4	Vinyl Chloride	24	UJ
75-00-3	Chloroethane	24	UJ
75-09-2	Methylene Chloride	32	~~B~~ UJ am
67-64-1	Acetone	240	J
75-15-0	Carbon Disulfide	24	UJ
75-35-4	1,1-Dichloroethene	24	UJ
75-34-3	1,1-Dichloroethane	24	UJ
540-59-0	1,2-Dichloroethene (total)	24	UJ
67-66-3	Chloroform	24	UJ
107-06-2	1,2-Dichloroethane	24	UJ
78-93-3	2-Butanone	130	J
71-55-6	1,1,1-Trichloroethane	24	UJ
56-23-5	Carbon Tetrachloride	24	UJ
75-27-4	Bromodichloromethane	24	UJ
78-87-5	1,2-Dichloropropane	24	UJ
10061-01-5	cis-1,3-Dichloropropene	24	UJ
79-01-6	Trichloroethene	24	UJ
124-48-1	Dibromochloromethane	24	UJ
79-00-5	1,1,2-Trichloroethane	24	UJ
71-43-2	Benzene	24	UJ
10061-02-6	trans-1,3-Dichloropropene	24	UJ
75-25-2	Bromoform	24	UJ
108-10-1	4-Methyl-2-Pentanone	24	UJ
591-78-6	2-Hexanone	420	J
127-18-4	Tetrachloroethene	24	UJ
79-34-5	1,1,2,2-Tetrachloroethane	24	UJ
108-88-3	Toluene	1500	EJ
108-90-7	Chlorobenzene	24	UJ
100-41-4	Ethylbenzene	24	UJ
100-42-5	Styrene	24	UJ
1330-20-7	Xylene (total)	130	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104RE

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215723RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0416BK11

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 59 Date Analyzed: 04/16/92

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

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

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.07	260	J
2.	UNKNOWN	6.30	46	J
3.	UNKNOWN	9.57	24	J
4.	UNKNOWN	11.25	27	J
5.	UNKNOWN ALIP. HYDROCARBON	14.10	120	J
6.	UNKNOWN ALIP. HYDROCARBON	16.29	51	J
7.	UNKNOWN	16.45	60	J
8.	UNKNOWN	17.42	52	J
9.	UNKNOWN	17.50	83	J
10.	UNKNOWN ALIP. HYDROCARBON	17.87	54	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104DL

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215723DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0417GK06

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 59 Date Analyzed: 04/17/92

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	120	U	
74-83-9	Bromomethane	120	U	
75-01-4	Vinyl Chloride	120	U	
75-00-3	Chloroethane	120	U	
75-09-2	Methylene Chloride	120	U	
67-64-1	Acetone	740		
75-15-0	Carbon Disulfide	120	U	
75-35-4	1,1-Dichloroethene	120	U	
75-34-3	1,1-Dichloroethane	120	U	
540-59-0	1,2-Dichloroethene (total)	120	U	
67-66-3	Chloroform	120	U	
107-06-2	1,2-Dichloroethane	120	U	
78-93-3	2-Butanone	390		
71-55-6	1,1,1-Trichloroethane	120	UJ	am
56-23-5	Carbon Tetrachloride	120	UJ	am
75-27-4	Bromodichloromethane	120	UJ	am
78-87-5	1,2-Dichloropropane	120	UJ	am
10061-01-5	cis-1,3-Dichloropropene	120	UJ	am
79-01-6	Trichloroethene	120	UJ	am
124-48-1	Dibromochloromethane	120	UJ	am
79-00-5	1,1,2-Trichloroethane	120	UJ	am
71-43-2	Benzene	120	UJ	am
10061-02-6	trans-1,3-Dichloropropene	120	UJ	am
75-25-2	Bromoform	120	U	
108-10-1	4-Methyl-2-Pentanone	120	UJ	
591-78-6	2-Hexanone	220	J	
127-18-4	Tetrachloroethene	120	UJ	
79-34-5	1,1,2,2-Tetrachloroethane	120	UJ	
108-88-3	Toluene	1300	J	
108-90-7	Chlorobenzene	120	UJ	
100-41-4	Ethylbenzene	120	UJ	
100-42-5	Styrene	120	UJ	
1330-20-7	Xylene (total)	110	JJ	am

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104DL

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215723DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0417GK06

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 59 Date Analyzed: 04/17/92

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

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

Number TICs found: 12

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. ALCOHOL	4.92	250	DJ
2.	UNKNOWN	5.08	390	DJ
3.	UNKNOWN	6.12	140	DJ
4.	UNKNOWN ALIP. HYDROCARBON	12.30	140	DJ
5.	UNKNOWN	13.37	1300	DJ
6.	UNKNOWN ALIP. HYDROCARBON	15.74	800	DJ
7.	UNKNOWN ALIP. HYDROCARBON	15.92	330	DJ
8.	UNKNOWN ALIP. HYDROCARBON	17.02	350	DJ
9.	UNKNOWN ALIP. HYDROCARBON	17.12	560	DJ
10.	UNKNOWN ALIP. HYDROCARBON	17.54	340	DJ
11.	UNKNOWN	17.62	200	DJ
12.	UNKNOWN ALIP. HYDROCARBON	18.57	780	DJ

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215723

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0422W05

Level: (low/med) MED Date Received: 04/10/92

% Moisture: 59 decanted: (Y/N) N Date Extracted: 04/16/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.6

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	U
83-32-9	Acenaphthene	24000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215723

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0422W05

Level: (low/med) MED Date Received: 04/10/92

% Moisture: 59 decanted: (Y/N) N Date Extracted: 04/16/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.6

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.

X104

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215723

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0422W05

Level: (low/med) MED Date Received: 04/10/92

% Moisture: 59 decanted: (Y/N) N Date Extracted: 04/16/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.6

Number TICs found: 25

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN	12.32	84000	~~BJ~~U	am
2.	UNKNOWN ALIP. ACID	24.12	170000	J	
3.	UNKNOWN	26.41	69000	J	
4.	UNKNOWN	26.72	320000	J	
5.	UNKNOWN	27.41	47000	J	
6.	UNKNOWN ALIP. HYDROCARBON	27.51	60000	J	
7.	UNKNOWN ALIP. ACID	27.71	99000	J	
8.	UNKNOWN	28.44	2600	J	
9.	UNKNOWN	28.81	360000	J	
10.	UNKNOWN ALIP. ACID	28.97	390000	J	
11.	UNKNOWN	29.12	26000	J	
12.	UNKNOWN	29.49	22000	J	
13.	UNKNOWN ALIP. HYDROCARBON	29.59	12000	J	
14.	UNKNOWN	29.66	14000	J	
15.	UNKNOWN	30.66	30000	J	
16.	UNKNOWN	30.86	15000	J	
17.	UNKNOWN	31.19	13000	J	
18.	UNKNOWN ALIP. HYDROCARBON	32.17	31000	~~B~~J	am
19.	UNKNOWN	33.14	15000	J	
20.	UNKNOWN ALIP. HYDROCARBON	33.41	22000	J	
21.	UNKNOWN ALIP. HYDROCARBON	33.66	18000	J	
22.	UNKNOWN ALIP. HYDROCARBON	34.04	12000	J	
23.	UNKNOWN	34.11	7000	J	
24.	UNKNOWN ALIP. HYDROCARBON	34.36	15000	J	
25.	UNKNOWN ALIP. HYDROCARBON	35.06	25000	J	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104DL

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215723

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0508W05

Level: (low/med) MED Date Received: 04/10/92

% Moisture: 59 decanted: (Y/N) N Date Extracted: 04/16/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) Y pH: 5.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	200000	U
111-44-4	bis(2-Chloroethyl)Ether	200000	U
95-57-8	2-Chlorophenol	200000	U
541-73-1	1,3-Dichlorobenzene	200000	U
106-46-7	1,4-Dichlorobenzene	200000	U
95-50-1	1,2-Dichlorobenzene	200000	U
95-48-7	2-Methylphenol	200000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	200000	U
106-44-5	4-Methylphenol	200000	U
621-64-7	N-Nitroso-Di-n-Propylamine	200000	U
67-72-1	Hexachloroethane	200000	U
98-95-3	Nitrobenzene	200000	U
78-59-1	Isophorone	200000	U
88-75-5	2-Nitrophenol	200000	U
105-67-9	2,4-Dimethylphenol	200000	U
111-91-1	bis(2-Chloroethoxy)Methane	200000	U
120-83-2	2,4-Dichlorophenol	200000	U
120-82-1	1,2,4-Trichlorobenzene	200000	U
91-20-3	Naphthalene	200000	U
106-47-8	4-Chloroaniline	200000	U
87-68-3	Hexachlorobutadiene	200000	U
59-50-7	4-Chloro-3-Methylphenol	200000	U
91-57-6	2-Methylnaphthalene	200000	U
77-47-4	Hexachlorocyclopentadiene	200000	U
88-06-2	2,4,6-Trichlorophenol	200000	U
95-95-4	2,4,5-Trichlorophenol	490000	U
91-58-7	2-Chloronaphthalene	200000	U
88-74-4	2-Nitroaniline	490000	U
131-11-3	Dimethylphthalate	200000	U
208-96-8	Acenaphthylene	200000	U
606-20-2	2,6-Dinitrotoluene	200000	U
99-09-2	3-Nitroaniline	490000	U
83-32-9	Acenaphthene	200000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104DL

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215723

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0508W05

Level: (low/med) MED Date Received: 04/10/92

% Moisture: 59 decanted: (Y/N) N Date Extracted: 04/16/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) Y pH: 5.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	490000	UJ
100-02-7	4-Nitrophenol	490000	U
132-64-9	Dibenzofuran	200000	U
121-14-2	2,4-Dinitrotoluene	200000	U
84-66-2	Diethylphthalate	200000	U
7005-72-3	4-Chlorophenyl-phenylether	200000	U
86-73-7	Fluorene	200000	U
100-10-6	4-Nitroaniline	490000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	490000	U
86-30-6	N-Nitrosodiphenylamine (1)	200000	U
101-55-3	4-Bromophenyl-phenylether	200000	U
118-74-1	Hexachlorobenzene	200000	U
87-86-5	Pentachlorophenol	490000	U
85-01-8	Phenanthrene	200000	U
120-12-7	Anthracene	200000	U
86-74-8	Carbazole	200000	U
84-74-2	Di-n-Butylphthalate	200000	U
206-44-0	Fluoranthene	200000	U
129-00-0	Pyrene	200000	U
85-68-7	Butylbenzylphthalate	200000	U
91-94-1	3,3'-Dichlorobenzidine	200000	U
56-55-3	Benzo(a)Anthracene	200000	U
218-01-9	Chrysene	200000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	200000	U
117-84-0	Di-n-Octyl Phthalate	200000	U
205-99-2	Benzo(b)Fluoranthene	200000	U
207-08-9	Benzo(k)Fluoranthene	200000	U
50-32-8	Benzo(a)Pyrene	200000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	200000	U
53-70-3	Dibenz(a,h)Anthracene	200000	U
191-24-2	Benzo(g,h,i)Perylene	200000	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104DL

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215723

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0508W05

Level: (low/med) MED Date Received: 04/10/92

% Moisture: 59 decanted: (Y/N) N Date Extracted: 04/16/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0 (uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) Y pH: 5.6

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.10	100000	~~B~~DJ
2.	UNKNOWN	12.15	170000	DJ
3.	UNKNOWN ALIP. ACID	23.84	450000	DJ
4.	UNKNOWN	26.12	96000	DJ
5.	UNKNOWN ALIP. ACID	26.34	1800000	DJ
6.	UNKNOWN	28.39	840000	DJ
7.	UNKNOWN	28.57	470000	DJ

am

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215723

Sample wt/vol: 1.5 (g/mL) G Lab File ID: _____

% Moisture: 59 decanted: (Y/N) N Date Received: 04/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/16/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/17/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 5.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	830	UJ
319-85-7	beta-BHC	830	UJ
319-86-8	delta-BHC	830	UJ
58-89-9	gamma-BHC (Lindane)	830	U
76-44-8	Heptachlor	830	U
309-00-2	Aldrin	830	U
1024-57-3	Heptachlor epoxide	830	U
959-98-8	Endosulfan I	830	U
60-57-1	Dieldrin	1600	U
72-55-9	4,4'-DDE	1600	UJ
72-20-8	Endrin	1600	UJ
33213-65-9	Endosulfan II	1600	UJ
72-54-8	4,4'-DDD	1600	UJ
1031-07-8	Endosulfan sulfate	1600	UJ
50-29-3	4,4'-DDT	1600	U
72-43-5	Methoxychlor	8300	U
53494-70-5	Endrin ketone	1600	U
7421-36-3	Endrin aldehyde	1600	UJ
5103-71-9	alpha-Chlordane	830	U
5103-74-2	gamma-Chlordane	830	U
8001-35-2	Toxaphene	83000	U
12674-11-2	Aroclor-1016	16000	U
11104-28-2	Aroclor-1221	33000	U
11141-16-5	Aroclor-1232	16000	U
53469-21-9	Aroclor-1242	16000	U
12672-29-6	Aroclor-1248	16000	U
11097-69-1	Aroclor-1254	16000	U
11096-82-5	Aroclor-1260	16000	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215724

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0416BK05

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 46 Date Analyzed: 04/16/92

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	19	UJ
74-83-9	Bromomethane	19	UJ
75-01-4	Vinyl Chloride	19	UJ
75-00-3	Chloroethane	19	UJ
75-09-2	Methylene Chloride	19 ~~11~~	~~BJ~~ UJ am
67-64-1	Acetone	13	J
75-15-0	Carbon Disulfide	19	UJ
75-35-4	1,1-Dichloroethene	19	U
75-34-3	1,1-Dichloroethane	19	U
540-59-0	1,2-Dichloroethene (total)	19	U
67-66-3	Chloroform	19	U
107-06-2	1,2-Dichloroethane	19	U
78-93-3	2-Butanone	19	UJ
71-55-6	1,1,1-Trichloroethane	19	U
56-23-5	Carbon Tetrachloride	19	U
75-27-4	Bromodichloromethane	19	U
78-87-5	1,2-Dichloropropane	19	U
10061-01-5	cis-1,3-Dichloropropene	19	U
79-01-6	Trichloroethene	19	U
124-48-1	Dibromochloromethane	19	U
79-00-5	1,1,2-Trichloroethane	19	U
71-43-2	Benzene	19	U
10061-02-6	trans-1,3-Dichloropropene	19	U
75-25-2	Bromoform	19	U
108-10-1	4-Methyl-2-Pentanone	19	U
591-78-6	2-Hexanone	19	U
127-18-4	Tetrachloroethene	19	U
79-34-5	1,1,2,2-Tetrachloroethane	19	U
108-88-3	Toluene	19	U
108-90-7	Chlorobenzene	19	U
100-41-4	Ethylbenzene	19	U
100-42-5	Styrene	19	U
1330-20-7	Xylene (total)	19	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215724

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0416BK05

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 46 Date Analyzed: 04/16/92

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.

X105

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215724

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0430W04

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 46 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/30/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	610	U
111-44-4	bis(2-Chloroethyl)Ether	610	U
95-57-8	2-Chlorophenol	610	U
541-73-1	1,3-Dichlorobenzene	610	U
106-46-7	1,4-Dichlorobenzene	360	J
95-50-1	1,2-Dichlorobenzene	610	U
95-48-7	2-Methylphenol	610	U
108-60-1	2,2'-oxybis(1-Chloropropane)	610	U
106-44-5	4-Methylphenol	610	U
621-64-7	N-Nitroso-Di-n-Propylamine	610	U
67-72-1	Hexachloroethane	610	U
98-95-3	Nitrobenzene	610	U
78-59-1	Isophorone	610	U
88-75-5	2-Nitrophenol	610	U
105-67-9	2,4-Dimethylphenol	610	U
111-91-1	bis(2-Chloroethoxy)Methane	610	U
120-83-2	2,4-Dichlorophenol	610	U
120-82-1	1,2,4-Trichlorobenzene	610	U
91-20-3	Naphthalene	610	U
106-47-8	4-Chloroaniline	610	UJ
87-68-3	Hexachlorobutadiene	610	U
59-50-7	4-Chloro-3-Methylphenol	610	U
91-57-6	2-Methylnaphthalene	610	U
77-47-4	Hexachlorocyclopentadiene	610	U
88-06-2	2,4,6-Trichlorophenol	610	U
95-95-4	2,4,5-Trichlorophenol	1500	U
91-58-7	2-Chloronaphthalene	610	U
88-74-4	2-Nitroaniline	1500	U
131-11-3	Dimethylphthalate	610	U
208-96-8	Acenaphthylene	610	U
606-20-2	2,6-Dinitrotoluene	610	U
99-09-2	3-Nitroaniline	1500	UJ
83-32-9	Acenaphthene	610	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215724

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0430W04

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 46 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/30/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
51-28-5	2,4-Dinitrophenol	1500	UJ	
100-02-7	4-Nitrophenol	1500	UJ	
132-64-9	Dibenzofuran	610	U	
121-14-2	2,4-Dinitrotoluene	610	U	
84-66-2	Diethylphthalate	610	U	
7005-72-3	4-Chlorophenyl-phenylether	610	U	
86-73-7	Fluorene	610	U	
100-10-6	4-Nitroaniline	1500	UJ	
534-52-1	4,6-Dinitro-2-methylphenol	1500	UJ	
86-30-6	N-Nitrosodiphenylamine (1)	610	UJ	
101-55-3	4-Bromophenyl-phenylether	610	U	
118-74-1	Hexachlorobenzene	610	U	
87-86-5	Pentachlorophenol	2900		
85-01-8	Phenanthrene	610	U	
120-12-7	Anthracene	610	U	
86-74-8	Carbazole	610	UJ	
84-74-2	Di-n-Butylphthalate	3100	~~B~~ UJ	am
206-44-0	Fluoranthene	610	U	
129-00-0	Pyrene	610	UJ	
85-68-7	Butylbenzylphthalate	610	UJ	
91-94-1	3,3'-Dichlorobenzidine	610	UJ	
56-55-3	Benzo(a)Anthracene	610	UJ	
218-01-9	Chrysene	610	U	
117-81-7	bis(2-Ethylhexyl)Phthalate	2700	~~B~~ UJ	am
117-84-0	Di-n-Octyl Phthalate	610	U	
205-99-2	Benzo(b)Fluoranthene	610	U	
207-08-9	Benzo(k)Fluoranthene	610	U	
50-32-8	Benzo(a)Pyrene	610	U	
193-39-5	Indeno(1,2,3-cd)Pyrene	610	U	
53-70-3	Dibenz(a,h)Anthracene	610	U	
191-24-2	Benzo(g,h,i)Perylene	610	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: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215724

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0430W04

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 46 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/30/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

Number TICs found: 19

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	31.59	9100	J
2.	UNKNOWN ALIP. HYDROCARBON	31.82	8900	J
3.	UNKNOWN	31.99	4900	J
4.	UNKNOWN	32.11	1700	J
5.	UNKNOWN	32.22	20000	J
6.	UNKNOWN	32.34	250	J
7.	UNKNOWN	32.37	1800	J
8.	UNKNOWN	32.44	230	J
9.	UNKNOWN	32.59	1800	J
10.	UNKNOWN	32.67	210	J
11.	UNKNOWN	32.81	5400	J
12.	UNKNOWN	32.81	4900	J
13.	UNKNOWN	32.87	930	J
14.	UNKNOWN	32.89	3100	J
15.	UNKNOWN	32.94	500	J
16.	UNKNOWN ALIP. HYDROCARBON	33.01	360	J
17.	UNKNOWN	33.07	2100	J
18.	UNKNOWN	33.17	7700	J
19.	UNKNOWN ALIP. HYDROCARBON	33.42	12000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105DL

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215724

Sample wt/vol: 30.7 (g/mL) G Lab File ID: _____

% Moisture: 46 decanted: (Y/N) N Date Received: 04/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/20/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/17/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	31	UJ
319-85-7	beta-BHC	31	UJ
319-86-8	delta-BHC	31	UJ
58-89-9	gamma-BHC (Lindane)	31	U
76-44-8	Heptachlor	31	U
309-00-2	Aldrin	17	JPD
1024-57-3	Heptachlor epoxide	31	U
959-98-8	Endosulfan I	31	U
60-57-1	Dieldrin	200	PD
72-55-9	4,4'-DDE	60	UJ
72-20-8	Endrin	38	JPD
33213-65-9	Endosulfan II	60	UJ
72-54-8	4,4'-DDD	60	UJ
1031-07-8	Endosulfan sulfate	60	UJ
50-29-3	4,4'-DDT	60	U
72-43-5	Methoxychlor	310	U
53494-70-5	Endrin ketone	60	U
7421-36-3	Endrin aldehyde	60	UJ
5103-71-9	alpha-Chlordane	31	U
5103-74-2	gamma-Chlordane	31	U
8001-35-2	Toxaphene	3100	U
12674-11-2	Aroclor-1016	600	U
11104-28-2	Aroclor-1221	1200	U
11141-16-5	Aroclor-1232	600	U
53469-21-9	Aroclor-1242	600	U
12672-29-6	Aroclor-1248	600	U
11097-69-1	Aroclor-1254	600	U
11096-82-5	Aroclor-1260	600	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215725

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0416BK06

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 49 Date Analyzed: 04/16/92

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	UJ
75-01-4	Vinyl Chloride	20	UJ
75-00-3	Chloroethane	20	UJ
75-09-2	Methylene Chloride	20 ~~11~~	~~BJ~~ UJ am
67-64-1	Acetone	14	J
75-15-0	Carbon Disulfide	20	UJ
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	U
107-06-2	1,2-Dichloroethane	20	U
78-93-3	2-Butanone	20	UJ
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.

X106

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215725

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0416BK06

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 49 Date Analyzed: 04/16/92

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: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215725

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B0424K04

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 49 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/24/92

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	640	U
111-44-4	bis(2-Chloroethyl)Ether	640	U
95-57-8	2-Chlorophenol	640	U
541-73-1	1,3-Dichlorobenzene	640	U
106-46-7	1,4-Dichlorobenzene	640	U
95-50-1	1,2-Dichlorobenzene	640	U
95-48-7	2-Methylphenol	640	U
108-60-1	2,2'-oxybis(1-Chloropropane)	640	U
106-44-5	4-Methylphenol	640	U
621-64-7	N-Nitroso-Di-n-Propylamine	640	U
67-72-1	Hexachloroethane	640	U
98-95-3	Nitrobenzene	640	U
78-59-1	Isophorone	640	U
88-75-5	2-Nitrophenol	640	U
105-67-9	2,4-Dimethylphenol	640	U
111-91-1	bis(2-Chloroethoxy)Methane	640	U
120-83-2	2,4-Dichlorophenol	71	J
120-82-1	1,2,4-Trichlorobenzene	75	J
91-20-3	Naphthalene	640	U
106-47-8	4-Chloroaniline	640	U
87-68-3	Hexachlorobutadiene	640	U
59-50-7	4-Chloro-3-Methylphenol	640	U
91-57-6	2-Methylnaphthalene	640	U
77-47-4	Hexachlorocyclopentadiene	640	UJ
88-06-2	2,4,6-Trichlorophenol	640	U
95-95-4	2,4,5-Trichlorophenol	1500	U
91-58-7	2-Chloronaphthalene	640	U
88-74-4	2-Nitroaniline	1500	U
131-11-3	Dimethylphthalate	640	U
208-96-8	Acenaphthylene	640	U
606-20-2	2,6-Dinitrotoluene	640	U
99-09-2	3-Nitroaniline	1500	U
83-32-9	Acenaphthene	640	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215725

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B0424K04

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 49 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/24/92

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	1500	U	
100-02-7	4-Nitrophenol	1500	U	
132-64-9	Dibenzofuran	640	U	
121-14-2	2,4-Dinitrotoluene	640	U	
84-66-2	Diethylphthalate	640	U	
7005-72-3	4-Chlorophenyl-phenylether	640	U	
86-73-7	Fluorene	640	U	
100-10-6	4-Nitroaniline	1500	U	
534-52-1	4,6-Dinitro-2-methylphenol	1500	U	
86-30-6	N-Nitrosodiphenylamine (1)	640	U	
101-55-3	4-Bromophenyl-phenylether	640	U	
118-74-1	Hexachlorobenzene	640	U	
87-86-5	Pentachlorophenol	1500	U	
85-01-8	Phenanthrene	640	U	
120-12-7	Anthracene	640	U	
86-74-8	Carbazole	640	U	
84-74-2	Di-n-Butylphthalate	1500	~~B~~U	am
206-44-0	Fluoranthene	640	U	
129-00-0	Pyrene	640	U	
85-68-7	Butylbenzylphthalate	640	U	
91-94-1	3,3'-Dichlorobenzidine	640	U	
56-55-3	Benzo(a)Anthracene	640	U	
218-01-9	Chrysene	640	U	
117-81-7	bis(2-Ethylhexyl)Phthalate	2300	~~B~~U	am
117-84-0	Di-n-Octyl Phthalate	640	UJ	
205-99-2	Benzo(b)Fluoranthene	640	UJ	
207-08-9	Benzo(k)Fluoranthene	640	UJ	
50-32-8	Benzo(a)Pyrene	640	UJ	
193-39-5	Indeno(1,2,3-cd)Pyrene	640	UJ	
53-70-3	Dibenz(a,h)Anthracene	640	UJ	
191-24-2	Benzo(g,h,i)Perylene	640	UJ	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215725

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B0424K04

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 49 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/24/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7

Number TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	31.27	6600	J
2.	UNKNOWN ALIP. HYDROCARBON	31.31	4800	J
3.	UNKNOWN ALIP. HYDROCARBON	31.41	1900	J
4.	UNKNOWN	31.44	950	J
5.	UNKNOWN	31.56	2300	J
6.	UNKNOWN	31.59	1400	J
7.	UNKNOWN	31.66	4000	J
8.	UNKNOWN ALIP. HYDROCARBON	31.76	2400	J
9.	UNKNOWN	31.79	900	J
10.	UNKNOWN	31.82	2900	J
11.	UNKNOWN	31.87	2800	J
12.	UNKNOWN	31.89	2100	J
13.	UNKNOWN	32.02	3100	J
14.	UNKNOWN	32.14	750	J
15.	UNKNOWN	32.16	1800	J
16.	UNKNOWN ALIP. HYDROCARBON	32.27	10000	J
17.	UNKNOWN	32.42	1200	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106DL

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215725

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 49 decanted: (Y/N) N Date Received: 04/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/20/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/17/92

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
319-84-6	alpha-BHC	33	UJ
319-85-7	beta-BHC	33	UJ
319-86-8	delta-BHC	33	UJ
58-89-9	gamma-BHC (Lindane)	33	U
76-44-8	Heptachlor	33	U
309-00-2	Aldrin	57	PD
1024-57-3	Heptachlor epoxide	33	U
959-98-8	Endosulfan I	33	U
60-57-1	Dieldrin	350	PD
72-55-9	4,4'-DDE	64	UJ
72-20-8	Endrin	160	DJ
33213-65-9	Endosulfan II	64	UJ
72-54-8	4,4'-DDD	64	UJ
1031-07-8	Endosulfan sulfate	64	UJ
50-29-3	4,4'-DDT	64	U
72-43-5	Methoxychlor	330	U
53494-70-5	Endrin ketone	64	U
7421-36-3	Endrin aldehyde	64	UJ
5103-71-9	alpha-Chlordane	33	U
5103-74-2	gamma-Chlordane	33	U
8001-35-2	Toxaphene	3300	U
12674-11-2	Aroclor-1016	640	U
11104-28-2	Aroclor-1221	1300	U
11141-16-5	Aroclor-1232	640	U
53469-21-9	Aroclor-1242	640	U
12672-29-6	Aroclor-1248	640	U
11097-69-1	Aroclor-1254	640	U
11096-82-5	Aroclor-1260	640	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215726

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0416BK08

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 29 Date Analyzed: 04/16/92

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	UJ
75-01-4	Vinyl Chloride	14	UJ
75-00-3	Chloroethane	14	UJ
75-09-2	Methylene Chloride	14 ~~11~~	~~BJ~~ UJ am
67-64-1	Acetone	27	
75-15-0	Carbon Disulfide	14	UJ
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	UJ
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.

X107

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215726

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0416BK08

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 29 Date Analyzed: 04/16/92

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.

X107RE

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215726

Sample wt/vol: 30.5 (g/mL) G Lab File ID: B0427W07

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 29 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/27/92

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	460	U
111-44-4	bis(2-Chloroethyl)Ether	460	U
95-57-8	2-Chlorophenol	460	U
541-73-1	1,3-Dichlorobenzene	460	U
106-46-7	1,4-Dichlorobenzene	460	U
95-50-1	1,2-Dichlorobenzene	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
106-44-5	4-Methylphenol	460	U
621-64-7	N-Nitroso-Di-n-Propylamine	460	U
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethylphenol	460	U
111-91-1	bis(2-Chloroethoxy)Methane	460	U
120-83-2	2,4-Dichlorophenol	460	U
120-82-1	1,2,4-Trichlorobenzene	460	U
91-20-3	Naphthalene	57	J
106-47-8	4-Chloroaniline	180	J
87-68-3	Hexachlorobutadiene	460	U
59-50-7	4-Chloro-3-Methylphenol	460	U
91-57-6	2-Methylnaphthalene	460	U
77-47-4	Hexachlorocyclopentadiene	460	UJ
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	1100	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	460	U
208-96-8	Acenaphthylene	460	U
606-20-2	2,6-Dinitrotoluene	460	U
99-09-2	3-Nitroaniline	1100	UJ
83-32-9	Acenaphthene	460	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107RE

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215726

Sample wt/vol: 30.5 (g/mL) G Lab File ID: B0427W07

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 29 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/27/92

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	1100	UJ
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	460	U
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
7005-72-3	4-Chlorophenyl-phenylether	460	U
86-73-7	Fluorene	460	U
100-10-6	4-Nitroaniline	1100	UJ
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	460	UJ
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
87-86-5	Pentachlorophenol	1100	UJ
85-01-8	Phenanthrene	460	U
120-12-7	Anthracene	460	U
86-74-8	Carbazole	460	U
84-74-2	Di-n-Butylphthalate	3100	~~B~~E u
206-44-0	Fluoranthene	460	U
129-00-0	Pyrene	460	U
85-68-7	Butylbenzylphthalate	460	U
91-94-1	3,3'-Dichlorobenzidine	460	UJ
56-55-3	Benzo(a)Anthracene	460	U
218-01-9	Chrysene	460	U
117-81-7	bis(2-Ethylhexyl)Phthalate	460	U
117-84-0	Di-n-Octyl Phthalate	460	UJ
205-99-2	Benzo(b)Fluoranthene	460	U
207-08-9	Benzo(k)Fluoranthene	460	UJ
50-32-8	Benzo(a)Pyrene	460	U
193-39-5	Indeno(1,2,3-cd)Pyrene	460	U
53-70-3	Dibenz(a,h)Anthracene	460	U
191-24-2	Benzo(g,h,i)Perylene	460	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X107RE

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215726

Sample wt/vol: 30.5 (g/mL) G Lab File ID: B0427W07

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 29 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/27/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. KETONE	8.15	13000	~~BAJ~~ U am
2.	UNKNOWN	29.97	980	J
3.	UNKNOWN	30.01	230	J
4.	UNKNOWN	30.14	360	J
5.	UNKNOWN	30.17	220	J
6.	UNKNOWN ALIP. HYDROCARBON	30.21	1700	J
7.	UNKNOWN	30.41	210	J
8.	UNKNOWN	30.42	120	J
9.	UNKNOWN	30.49	240	J
10.	UNKNOWN	30.57	94	J
11.	UNKNOWN	30.61	350	J
12.	UNKNOWN	30.67	170	J
13.	UNKNOWN	30.77	410	J
14.	UNKNOWN	30.84	220	J
15.	UNKNOWN ALIP. HYDROCARBON	31.21	1600	J
16.	UNKNOWN	31.31	240	J
17.	UNKNOWN	31.41	120	J
18.	UNKNOWN	31.46	380	J
19.	UNKNOWN	31.69	200	J
20.	UNKNOWN	32.06	470	J
21.	UNKNOWN ALIP. HYDROCARBON	32.17	2200	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215726

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

% Moisture: 29 decanted: (Y/N) N Date Received: 04/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/20/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/17/92

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
319-84-6	alpha-BHC	24	UJ
319-85-7	beta-BHC	24	UJ
319-86-8	delta-BHC	24	UJ
58-89-9	gamma-BHC (Lindane)	24	U
76-44-8	Heptachlor	24	U
309-00-2	Aldrin	24	U
1024-57-3	Heptachlor epoxide	24	U
959-98-8	Endosulfan I	24	U
60-57-1	Dieldrin	46	U
72-55-9	4,4'-DDE	46	UJ
72-20-8	Endrin	46	UJ
33213-65-9	Endosulfan II	46	UJ
72-54-8	4,4'-DDD	46	UJ
1031-07-8	Endosulfan sulfate	46	UJ
50-29-3	4,4'-DDT	46	U
72-43-5	Methoxychlor	240	U
53494-70-5	Endrin ketone	46	U
7421-36-3	Endrin aldehyde	46	UJ
5103-71-9	alpha-Chlordane	24	U
5103-74-2	gamma-Chlordane	24	U
8001-35-2	Toxaphene	2400	U
12674-11-2	Aroclor-1016	460	U
11104-28-2	Aroclor-1221	940	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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215717

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0412BK09

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 23 Date Analyzed: 04/13/92

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	UJ	
75-01-4	Vinyl Chloride	13	U	
75-00-3	Chloroethane	13	U	
75-09-2	Methylene Chloride	20	~~B~~U	am
67-64-1	Acetone	13	UJ	
75-15-0	Carbon Disulfide	13	UJ	
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	U	
107-06-2	1,2-Dichloroethane	13	U	
78-93-3	2-Butanone	13	UJ	
71-55-6	1,1,1-Trichloroethane	13	U~~J~~	am
56-23-5	Carbon Tetrachloride	13	U~~J~~	am
75-27-4	Bromodichloromethane	13	U~~J~~	am
78-87-5	1,2-Dichloropropane	13	U~~J~~	am
10061-01-5	cis-1,3-Dichloropropene	13	U~~J~~	am
79-01-6	Trichloroethene	13	U~~J~~	am
124-48-1	Dibromochloromethane	13	U~~J~~	am
79-00-5	1,1,2-Trichloroethane	13	U~~J~~	am
71-43-2	Benzene	13	U~~J~~	am
10061-02-6	trans-1,3-Dichloropropene	13	U~~J~~	am
75-25-2	Bromoform	13	U	
108-10-1	4-Methyl-2-Pentanone	13	UJ	
591-78-6	2-Hexanone	13	UJ	
127-18-4	Tetrachloroethene	13	UJ	
79-34-5	1,1,2,2-Tetrachloroethane	13	UJ	
108-88-3	Toluene	13	UJ	
108-90-7	Chlorobenzene	13	UJ	
100-41-4	Ethylbenzene	13	UJ	
100-42-5	Styrene	13	UJ	
1330-20-7	Xylene (total)	13	UJ	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215717

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0412BK09

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 23 Date Analyzed: 04/13/92

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	20	~~BJN~~ u am

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215717

Sample wt/vol: 1.1 (g/mL) G Lab File ID: B0422W06

Level: (low/med) MED Date Received: 04/10/92

% Moisture: 22 decanted: (Y/N) N Date Extracted: 04/16/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	11000	U
111-44-4	bis(2-Chloroethyl)Ether	11000	U
95-57-8	2-Chlorophenol	11000	U
541-73-1	1,3-Dichlorobenzene	11000	U
106-46-7	1,4-Dichlorobenzene	11000	U
95-50-1	1,2-Dichlorobenzene	11000	U
95-48-7	2-Methylphenol	11000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	11000	U
106-44-5	4-Methylphenol	11000	U
621-64-7	N-Nitroso-Di-n-Propylamine	11000	U
67-72-1	Hexachloroethane	11000	U
98-95-3	Nitrobenzene	11000	U
78-59-1	Isophorone	11000	U
88-75-5	2-Nitrophenol	11000	U
105-67-9	2,4-Dimethylphenol	11000	U
111-91-1	bis(2-Chloroethoxy)Methane	11000	U
120-83-2	2,4-Dichlorophenol	11000	U
120-82-1	1,2,4-Trichlorobenzene	11000	U
91-20-3	Naphthalene	11000	U
106-47-8	4-Chloroaniline	11000	U
87-68-3	Hexachlorobutadiene	11000	U
59-50-7	4-Chloro-3-Methylphenol	11000	U
91-57-6	2-Methylnaphthalene	11000	U
77-47-4	Hexachlorocyclopentadiene	11000	U
88-06-2	2,4,6-Trichlorophenol	11000	U
95-95-4	2,4,5-Trichlorophenol	27000	U
91-58-7	2-Chloronaphthalene	11000	U
88-74-4	2-Nitroaniline	27000	U
131-11-3	Dimethylphthalate	11000	U
208-96-8	Acenaphthylene	11000	U
606-20-2	2,6-Dinitrotoluene	11000	U
99-09-2	3-Nitroaniline	27000	U
83-32-9	Acenaphthene	11000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215717

Sample wt/vol: 1.1 (g/mL) G Lab File ID: B0422W06

Level: (low/med) MED Date Received: 04/10/92

% Moisture: 22 decanted: (Y/N) N Date Extracted: 04/16/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	27000	U
100-02-7	4-Nitrophenol	27000	U
132-64-9	Dibenzofuran	11000	U
121-14-2	2,4-Dinitrotoluene	11000	U
84-66-2	Diethylphthalate	11000	U
7005-72-3	4-Chlorophenyl-phenylether	11000	U
86-73-7	Fluorene	11000	U
100-10-6	4-Nitroaniline	27000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	27000	U
86-30-6	N-Nitrosodiphenylamine (1)	11000	U
101-55-3	4-Bromophenyl-phenylether	11000	U
118-74-1	Hexachlorobenzene	11000	U
87-86-5	Pentachlorophenol	27000	U
85-01-8	Phenanthrene	11000	U
120-12-7	Anthracene	11000	U
86-74-8	Carbazole	11000	U
84-74-2	Di-n-Butylphthalate	1300	J
206-44-0	Fluoranthene	11000	U
129-00-0	Pyrene	11000	U
85-68-7	Butylbenzylphthalate	11000	U
91-94-1	3,3'-Dichlorobenzidine	11000	U
56-55-3	Benzo(a)Anthracene	11000	U
218-01-9	Chrysene	11000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2700	~~BJ~~ U am
117-84-0	Di-n-Octyl Phthalate	11000	U
205-99-2	Benzo(b)Fluoranthene	11000	U
207-08-9	Benzo(k)Fluoranthene	11000	U
50-32-8	Benzo(a)Pyrene	11000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	11000	U
53-70-3	Dibenz(a,h)Anthracene	11000	U
191-24-2	Benzo(g,h,i)Perylene	11000	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215717

Sample wt/vol: 1.1 (g/mL) G Lab File ID: B0422W06

Level: (low/med) MED Date Received: 04/10/92

% Moisture: 22 decanted: (Y/N) N Date Extracted: 04/16/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.28	20000	~~BJ~~ u
2.	UNKNOWN ALIP. ALCOHOL	9.07	3100	~~BAJ~~ u
3.	UNKNOWN	12.32	43000	~~BJ~~ u
4.	UNKNOWN	31.21	3800	J
5.	UNKNOWN	35.52	3000	J
6.	UNKNOWN ALIP. HYDROCARBON	36.24	3000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215717

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

% Moisture: 23 decanted: (Y/N) N Date Received: 04/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/16/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/17/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	640	UJ
319-85-7	beta-BHC	640	UJ
319-86-8	delta-BHC	640	UJ
58-89-9	gamma-BHC (Lindane)	640	U
76-44-8	Heptachlor	640	U
309-00-2	Aldrin	640	U
1024-57-3	Heptachlor epoxide	640	U
959-98-8	Endosulfan I	640	U
60-57-1	Dieldrin	1200	U
72-55-9	4,4'-DDE	1200	UJ
72-20-8	Endrin	1200	UJ
33213-65-9	Endosulfan II	1200	UJ
72-54-8	4,4'-DDD	1200	UJ
1031-07-8	Endosulfan sulfate	1200	UJ
50-29-3	4,4'-DDT	1200	U
72-43-5	Methoxychlor	6400	U
53494-70-5	Endrin ketone	1200	U
7421-36-3	Endrin aldehyde	1200	UJ
5103-71-9	alpha-Chlordane	640	U
5103-74-2	gamma-Chlordane	640	U
8001-35-2	Toxaphene	64000	U
12674-11-2	Aroclor-1016	12000	U
11104-28-2	Aroclor-1221	25000	U
11141-16-5	Aroclor-1232	12000	U
53469-21-9	Aroclor-1242	12000	U
12672-29-6	Aroclor-1248	12000	U
11097-69-1	Aroclor-1254	12000	U
11096-82-5	Aroclor-1260	12000	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215718

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0414BK06

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 16 Date Analyzed: 04/14/92

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	7	~~BJ~~ U am
67-64-1	Acetone	12	UJ
75-15-0	Carbon Disulfide	12	UJ
75-35-4	1,1-Dichloroethene	12	UJ
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	UJ
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.

X109

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215718

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0414BK06

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 16 Date Analyzed: 04/14/92

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	5.13	8	JN

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215718

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B0423W06

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 16 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/92

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	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	UJ
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-Methylphenol	390	U
91-57-6	2-Methylnaphthalene	92	J
77-47-4	Hexachlorocyclopentadiene	390	UJ
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	940	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	940	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	940	UJ
83-32-9	Acenaphthene	390	U

000088

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215718

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B0423W06

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 16 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/92

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	940	U	
100-02-7	4-Nitrophenol	940	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	940	UJ	
534-52-1	4,6-Dinitro-2-methylphenol	940	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	940	U	
85-01-8	Phenanthrene	290	J	
120-12-7	Anthracene	390	U	
86-74-8	Carbazole	390	U	
84-74-2	Di-n-Butylphthalate	1800	~~B~~U	am
206-44-0	Fluoranthene	350	J	
129-00-0	Pyrene	320	J	
85-68-7	Butylbenzylphthalate	280	~~B~~JU	am
91-94-1	3,3'-Dichlorobenzidine	390	U	
56-55-3	Benzo(a)Anthracene	210	J	
218-01-9	Chrysene	230	J	
117-81-7	bis(2-Ethylhexyl)Phthalate	350	~~B~~JU	am
117-84-0	Di-n-Octyl Phthalate	390	U	
205-99-2	Benzo(b)Fluoranthene	230	J	
207-08-9	Benzo(k)Fluoranthene	130	J	
50-32-8	Benzo(a)Pyrene	390	U	
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.

X109

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215718

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B0423W06

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 16 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 24

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. KETONE	8.17	11000	~~BAJ~~ u
2.	UNKNOWN	8.37	1800	~~BJ~~ u
3.	UNKNOWN	9.80	1600	~~BJ~~ u
4.	UNKNOWN	12.80	3100	J
5.	UNKNOWN ALIP. HYDROCARBON	23.37	3100	J
6.	UNKNOWN ALIP. HYDROCARBON	24.70	800	J
7.	UNKNOWN ALIP. HYDROCARBON	25.81	1200	J
8.	UNK. METHYL PHENANTHRENE	26.64	250	J
9.	UNKNOWN ALIP. HYDROCARBON	26.97	1100	J
10.	UNKNOWN ALIP. HYDROCARBON	28.11	1000	J
11.	UNKNOWN ALIP. HYDROCAROON	29.19	1100	J
12.	UNKNOWN	30.17	480	J
13.	UNKNOWN ALIP. HYDROCARBON	30.22	1500	J
14.	UNKNOWN ALIP. HYDROCARBON	31.21	1400	J
15.	UNKNOWN	31.44	450	J
16.	UNKNOWN ALIP. HYDROCARBON	32.17	3000	J
17.	UNKNOWN ALIP. HYDROCARBON	33.11	1400	J
18.	UNKNOWN ALIP. HYDROCARBON	34.04	2800	J
19.	UNKNOWN ALIP. HYDROCARBON	35.07	1200	J
20.	UNKNOWN	35.22	750	J
21.	UNKNOWN	35.57	1700	J
22.	UNKNOWN ALIP. HYDROCARBON	36.29	3500	J
23.	UNKNOWN	36.37	1300	J
24.	UNKNOWN ALIP. HYDROCARBON	39.44	2000	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109DL

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215718

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

% Moisture: 16 decanted: (Y/N) N Date Received: 04/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/20/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/17/92

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
319-84-6	alpha-BHC	20	U J
319-85-7	beta-BHC	20	U J
319-86-8	delta-BHC	20	U J
58-89-9	gamma-BHC (Lindane)	20	U
76-44-8	Heptachlor	20	U
309-00-2	Aldrin	20	U
1024-57-3	Heptachlor epoxide	20	U
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	39	U
72-55-9	4,4'-DDE	23	JDN
72-20-8	Endrin	39	U J
33213-65-9	Endosulfan II	39	U J
72-54-8	4,4'-DDD	39	U J
1031-07-8	Endosulfan sulfate	39	U J
50-29-3	4,4'-DDT	26	JPD
72-43-5	Methoxychlor	200	U
53494-70-5	Endrin ketone	39	U
7421-36-3	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.

X110

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215712

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0412BK10

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 23 Date Analyzed: 04/13/92

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	UJ
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	13	~~B~~ U am
67-64-1	Acetone	12	J
75-15-0	Carbon Disulfide	13	UJ
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	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	UJ
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.

X110

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215712

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0412BK10

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 23 Date Analyzed: 04/13/92

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	5.18	8	~~BJN~~ u am

FORM I VOA-TIC 3/90

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215712

Sample wt/vol: 30.2 (g/mL) G Lab File ID: B0430W03

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 23 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/30/92

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	430	U
111-44-4	bis(2-Chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-Di-n-Propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)Methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	100	J
106-47-8	4-Chloroaniline	430	UJ
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-Methylphenol	430	U
91-57-6	2-Methylnaphthalene	420	J
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	430	U
208-96-8	Acenaphthylene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
99-09-2	3-Nitroaniline	1000	UJ
83-32-9	Acenaphthene	430	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215712

Sample wt/vol: 30.2 (g/mL) G Lab File ID: B0430W03

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 23 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/30/92

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	1000	UJ
100-02-7	4-Nitrophenol	1000	UJ
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
86-73-7	Fluorene	430	U
100-10-6	4-Nitroaniline	1000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	1000	UJ
86-30-6	N-Nitrosodiphenylamine (1)	430	UJ
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	2300	
120-12-7	Anthracene	170	J
86-74-8	Carbazole	430	UJ
84-74-2	Di-n-Butylphthalate	3200	~~B~~UJ am
206-44-0	Fluoranthene	560	
129-00-0	Pyrene	370	J
85-68-7	Butylbenzylphthalate	430	UJ
91-94-1	3,3'-Dichlorobenzidine	430	UJ
56-55-3	Benzo(a)Anthracene	270	J
218-01-9	Chrysene	340	J
117-81-7	bis(2-Ethylhexyl)Phthalate	430	UJ
117-84-0	Di-n-Octyl Phthalate	430	U
205-99-2	Benzo(b)Fluoranthene	430	U
207-08-9	Benzo(k)Fluoranthene	430	U
50-32-8	Benzo(a)Pyrene	430	U
193-39-5	Indeno(1,2,3-cd)Pyrene	430	U
53-70-3	Dibenz(a,h)Anthracene	430	U
191-24-2	Benzo(g,h,i)Perylene	430	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215712

Sample wt/vol: 30.2 (g/mL) G Lab File ID: B0430W03

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 23 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/30/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7

Number TICs found: 26

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. KETONE	8.10	87000	~~BAJ~~ U am
2.	UNKNOWN ALIP. HYDROCARBON	22.55	3400	J
3.	UNKNOWN	22.89	7400	J
4.	UNKNOWN	22.90	1200	J
5.	UNKNOWN	23.04	3000	J
6.	UNKNOWN ALIP. HYDROCARBON	23.34	9700	J
7.	UNK. METHYL PHENANTHRENE	26.29	1700	J
8.	UNK. METHYL PHENANTHRENE	26.54	3200	J
9.	UNK. METHYL PHENANTHRENE	26.61	2100	J
10.	UNKNOWN ALIP. HYDROCARBON	30.16	1500	J
11.	UNKNOWN ALIP. HYDROCARBON	31.16	1600	J
12. 82-05-3	BENZANTHRACENONE	31.41	1600	JNA
13.	UNKNOWN	31.82	430	J
14.	UNKNOWN ALIP. HYDROCARBON	32.12	2500	J
15.	UNKNOWN	32.49	82	J
16.	UNKNOWN	32.82	76	J
17.	UNKNOWN ALIP. HYDROCARBON	33.04	1600	J
18.	UNKNOWN	33.29	950	J
19.	UNKNOWN ALIP. HYDROCARBON	33.59	1100	J
20.	UNKNOWN	33.72	57	J
21.	UNKNOWN	33.82	21	J
22.	UNKNOWN ALIP. HYDROCARBON	33.96	2400	J
23.	UNKNOWN	34.07	1100	J
24.	UNKNOWN	34.67	980	J
25.	UNKNOWN ALIP. HYDROCARBON	34.99	3100	J
26.	UNKNOWN ALIP. HYDROCARBON	36.17	6000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110DL

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215712

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

% Moisture: 23 decanted: (Y/N) N Date Received: 04/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/20/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/17/92

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
319-84-6	alpha-BHC	22	UJ
319-85-7	beta-BHC	56	PDJ
319-86-8	delta-BHC	22	UJ
58-89-9	gamma-BHC (Lindane)	22	U
76-44-8	Heptachlor	22	U
309-00-2	Aldrin	22	U
1024-57-3	Heptachlor epoxide	21	JD
959-98-8	Endosulfan I	22	U
60-57-1	Dieldrin	55	PD
72-55-9	4,4'-DDE	42	UJ
72-20-8	Endrin	42	UJ
33213-65-9	Endosulfan II	42	UJ
72-54-8	4,4'-DDD	42	UJ
1031-07-8	Endosulfan sulfate	42	UJ
50-29-3	4,4'-DDT	42	U
72-43-5	Methoxychlor	220	U
53494-70-5	Endrin ketone	42	U
7421-36-3	Endrin aldehyde	24	JPD
5103-71-9	alpha-Chlordane	22	U
5103-74-2	gamma-Chlordane	22	U
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	420	U
11096-82-5	Aroclor-1260	420	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X111

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215713

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0412BK05

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 17 Date Analyzed: 04/13/92

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	UJ	
75-01-4	Vinyl Chloride	12	U	
75-00-3	Chloroethane	12	U	
75-09-2	Methylene Chloride	28	~~B~~U	am
67-64-1	Acetone	12	UJ	
75-15-0	Carbon Disulfide	12	UJ	
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	UJ	
71-55-6	1,1,1-Trichloroethane	12	U~~J~~	am
56-23-5	Carbon Tetrachloride	12	U~~J~~	am
75-27-4	Bromodichloromethane	12	U~~J~~	am
78-87-5	1,2-Dichloropropane	12	U~~J~~	am
10061-01-5	cis-1,3-Dichloropropene	12	U~~J~~	am
79-01-6	Trichloroethene	12	U~~J~~	am
124-48-1	Dibromochloromethane	12	U~~J~~	am
79-00-5	1,1,2-Trichloroethane	12	U~~J~~	am
71-43-2	Benzene	12	U~~J~~	am
10061-02-6	trans-1,3-Dichloropropene	12	U~~J~~	am
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.

X111

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215713

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0412BK05

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 17 Date Analyzed: 04/13/92

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	5.17	17	~~BJN~~ u

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X111

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215713

Sample wt/vol: 30.6 (g/mL) G Lab File ID: B0423W11

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

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	250	J
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	370	J
77-47-4	Hexachlorocyclopentadiene	390	UJ
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	940	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	940	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	940	U
83-32-9	Acenaphthene	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X111

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215713

Sample wt/vol: 30.6 (g/mL) G Lab File ID: B0423W11

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	940	U
100-02-7	4-Nitrophenol	940	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	940	U
534-52-1	4,6-Dinitro-2-methylphenol	940	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	940	U
85-01-8	Phenanthrene	1500	
120-12-7	Anthracene	140	J
86-74-8	Carbazole	390	U
84-74-2	Di-n-Butylphthalate	1700	~~B~~U am
206-44-0	Fluoranthene	590	
129-00-0	Pyrene	540	
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)Anthracene	480	
218-01-9	Chrysene	580	
117-81-7	bis(2-Ethylhexyl)Phthalate	390	U
117-84-0	Di-n-Octyl Phthalate	390	U
205-99-2	Benzo(b)Fluoranthene	390	U
207-08-9	Benzo(k)Fluoranthene	1200	
50-32-8	Benzo(a)Pyrene	360	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	110	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X111

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215713

Sample wt/vol: 30.6 (g/mL) G Lab File ID: B0423W11

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 24

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. KETONE	8.20	44000	~~BAJ~~ U
2.	UNKNOWN	11.60	7900	J
3.	UNKNOWN ALIP. HYDROCARBON	23.40	10000	J
4.	UNKNOWN ALIP. HYDROCARBON	25.82	2400	J
5.	UNKNOWN METHYL PHENANTHRENE	26.37	1300	J
6.	UNKNOWN METHYL PHENANTHRENE	26.61	2600	J
7.	UNKNOWN METHYL PHENANTHRENE	26.67	1400	J
8.	UNKNOWN ALIP. HYDROCARBON	27.01	1800	J
9.	UNK. DIMETHYL PHENANTHRENE	28.11	200	J
10.	UNKNOWN ALIP. HYDROCARBON	28.14	1700	J
11.	UNKNOWN ALIP. HYDROCARBON	29.21	1800	J
12.	UNKNOWN	29.42	250	J
13.	UNKNOWN	29.94	840	J
14.	UNKNOWN ALIP. HYDROCARBON	30.26	2100	J
15.	UNKNOWN	31.24	540	J
16.	UNKNOWN ALIP. HYDROCARBON	31.24	2200	J
17.	UNKNOWN ALIP. KETONE	31.49	1800	AJ
18.	UNKNOWN	31.81	390	J
19.	UNKNOWN ALIP. HYDROCARBON	32.21	3100	J
20.	UNKNOWN ALIP. HYDROCARBON	33.14	2300	J
21.	UNKNOWN ALIP. HYDROCARBON	33.69	960	J
22.	UNKNOWN ALIP. HYDROCARBON	34.07	3000	J
23.	UNKNOWN ALIP. HYDROCARBON	35.11	2700	J
24.	UNKNOWN ALIP. HYDROCARBON	36.32	4900	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X111DL

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215713

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 04/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/20/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/17/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	14	JPD
319-85-7	beta-BHC	20	UJ
319-86-8	delta-BHC	20	UJ
58-89-9	gamma-BHC (Lindane)	20	U
76-44-8	Heptachlor	20	U
309-00-2	Aldrin	20	U
1024-57-3	Heptachlor epoxide	25	D
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	39	U
72-55-9	4,4'-DDE	39	UJ
72-20-8	Endrin	39	UJ
33213-65-9	Endosulfan II	39	UJ
72-54-8	4,4'-DDD	39	UJ
1031-07-8	Endosulfan sulfate	39	UJ
50-29-3	4,4'-DDT	50	DJ
72-43-5	Methoxychlor	200	U
53494-70-5	Endrin ketone	39	U
7421-36-3	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	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	390	U
11096-82-5	Aroclor-1260	390	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215714

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0412BK06

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 13 Date Analyzed: 04/13/92

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	11	UJ	
74-83-9	Bromomethane	11	UJ	
75-01-4	Vinyl Chloride	11	UJ	
75-00-3	Chloroethane	11	UJ	
75-09-2	Methylene Chloride	7	~~BJ~~ UJ	am
67-64-1	Acetone	11	UJ	
75-15-0	Carbon Disulfide	11	UJ	
75-35-4	1,1-Dichloroethene	11	UJ	
75-34-3	1,1-Dichloroethane	11	UJ	
540-59-0	1,2-Dichloroethene (total)	11	UJ	
67-66-3	Chloroform	11	UJ	
107-06-2	1,2-Dichloroethane	11	UJ	
78-93-3	2-Butanone	11	UJ	
71-55-6	1,1,1-Trichloroethane	11	U~~J~~	am
56-23-5	Carbon Tetrachloride	11	U~~J~~	am
75-27-4	Bromodichloromethane	11	U~~J~~	am
78-87-5	1,2-Dichloropropane	11	U~~J~~	am
10061-01-5	cis-1,3-Dichloropropene	11	U~~J~~	am
79-01-6	Trichloroethene	11	U~~J~~	am
124-48-1	Dibromochloromethane	11	U~~J~~	am
79-00-5	1,1,2-Trichloroethane	11	U~~J~~	am
71-43-2	Benzene	11	U~~J~~	am
10061-02-6	trans-1,3-Dichloropropene	11	U~~J~~	am
75-25-2	Bromoform	11	U~~J~~	am
108-10-1	4-Methyl-2-Pentanone	11	UJ	
591-78-6	2-Hexanone	11	UJ	
127-18-4	Tetrachloroethene	11	UJ	
79-34-5	1,1,2,2-Tetrachloroethane	11	UJ	
108-88-3	Toluene	11	UJ	
108-90-7	Chlorobenzene	11	UJ	
100-41-4	Ethylbenzene	11	UJ	
100-42-5	Styrene	11	UJ	
1330-20-7	Xylene (total)	11	UJ	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215714

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0412BK06

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 13 Date Analyzed: 04/13/92

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	~~BJN~~ U

FORM I VOA-TIC

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215714

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0422W07

Level: (low/med) MED Date Received: 04/10/92

% Moisture: 13 decanted: (Y/N) N Date Extracted: 04/16/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	11000	U
111-44-4	bis(2-Chloroethyl)Ether	11000	U
95-57-8	2-Chlorophenol	11000	U
541-73-1	1,3-Dichlorobenzene	11000	U
106-46-7	1,4-Dichlorobenzene	11000	U
95-50-1	1,2-Dichlorobenzene	11000	U
95-48-7	2-Methylphenol	11000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	11000	U
106-44-5	4-Methylphenol	11000	U
621-64-7	N-Nitroso-Di-n-Propylamine	11000	U
67-72-1	Hexachloroethane	11000	U
98-95-3	Nitrobenzene	11000	U
78-59-1	Isophorone	11000	U
88-75-5	2-Nitrophenol	11000	U
105-67-9	2,4-Dimethylphenol	11000	U
111-91-1	bis(2-Chloroethoxy)Methane	11000	U
120-83-2	2,4-Dichlorophenol	11000	U
120-82-1	1,2,4-Trichlorobenzene	11000	U
91-20-3	Naphthalene	11000	U
106-47-8	4-Chloroaniline	11000	U
87-68-3	Hexachlorobutadiene	11000	U
59-50-7	4-Chloro-3-Methylphenol	11000	U
91-57-6	2-Methylnaphthalene	11000	U
77-47-4	Hexachlorocyclopentadiene	11000	U
88-06-2	2,4,6-Trichlorophenol	11000	U
95-95-4	2,4,5-Trichlorophenol	28000	U
91-58-7	2-Chloronaphthalene	11000	U
88-74-4	2-Nitroaniline	28000	U
131-11-3	Dimethylphthalate	11000	U
208-96-8	Acenaphthylene	11000	U
606-20-2	2,6-Dinitrotoluene	11000	U
99-09-2	3-Nitroaniline	28000	U
83-32-9	Acenaphthene	11000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215714

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0422W07

Level: (low/med) MED Date Received: 04/10/92

% Moisture: 13 decanted: (Y/N) N Date Extracted: 04/16/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	28000	U
100-02-7	4-Nitrophenol	28000	U
132-64-9	Dibenzofuran	11000	U
121-14-2	2,4-Dinitrotoluene	11000	U
84-66-2	Diethylphthalate	11000	U
7005-72-3	4-Chlorophenyl-phenylether	11000	U
86-73-7	Fluorene	11000	U
100-10-6	4-Nitroaniline	28000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	28000	U
86-30-6	N-Nitrosodiphenylamine (1)	11000	U
101-55-3	4-Bromophenyl-phenylether	11000	U
118-74-1	Hexachlorobenzene	11000	U
87-86-5	Pentachlorophenol	28000	U
85-01-8	Phenanthrene	11000	U
120-12-7	Anthracene	11000	U
86-74-8	Carbazole	11000	U
84-74-2	Di-n-Butylphthalate	2300	J
206-44-0	Fluoranthene	11000	U
129-00-0	Pyrene	11000	U
85-68-7	Butylbenzylphthalate	11000	U
91-94-1	3,3'-Dichlorobenzidine	11000	U
56-55-3	Benzo(a)Anthracene	11000	U
218-01-9	Chrysene	11000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2100	~~BJ~~ U
117-84-0	Di-n-Octyl Phthalate	11000	U
205-99-2	Benzo(b)Fluoranthene	11000	U
207-08-9	Benzo(k)Fluoranthene	11000	U
50-32-8	Benzo(a)Pyrene	11000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	11000	U
53-70-3	Dibenz(a,h)Anthracene	11000	U
191-24-2	Benzo(g,h,i)Perylene	11000	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: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215714

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0422W07

Level: (low/med) MED Date Received: 04/10/92

% Moisture: 13 decanted: (Y/N) N Date Extracted: 04/16/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

Number TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. KETONE	7.82	5200	~~B~~AJ
2.	UNKNOWN	8.27	17000	~~BJ~~ u
3.	UNKNOWN ALIP. ALCOHOL	9.05	2900	~~B~~AJ
4.	UNKNOWN	12.32	38000	~~B~~J
5. 135-19-3	NAPHTHALENOL	20.92	4700	JNA
6.	UNKNOWN ALIP. ALCOHOL	21.29	4200	AJ
7.	UNKNOWN	30.91	3000	J
8.	UNKNOWN	31.21	7000	J
9.	UNKNOWN	32.57	51000	J
10.	UNKNOWN	32.97	1900	J
11.	UNKNOWN	33.61	2700	J
12.	UNKNOWN	34.11	34000	J
13.	UNKNOWN	35.52	6100	J
14.	UNKNOWN	35.96	1800	J
15.	UNKNOWN	36.41	4100	J
16.	UNKNOWN	37.89	2600	J
17.	UNKNOWN	41.21	45000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215714

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

% Moisture: 13 decanted: (Y/N) N Date Received: 04/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/16/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/17/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	550	UJ
319-85-7	beta-BHC	550	UJ
319-86-8	delta-BHC	550	UJ
58-89-9	gamma-BHC (Lindane)	550	U
76-44-8	Heptachlor	550	U
309-00-2	Aldrin	550	U
1024-57-3	Heptachlor epoxide	550	U
959-98-8	Endosulfan I	550	U
60-57-1	Dieldrin	1100	U
72-55-9	4,4'-DDE	1100	UJ
72-20-8	Endrin	1100	UJ
33213-65-9	Endosulfan II	1100	UJ
72-54-8	4,4'-DDD	1100	UJ
1031-07-8	Endosulfan sulfate	1100	UJ
50-29-3	4,4'-DDT	1100	U
72-43-5	Methoxychlor	5500	U
53494-70-5	Endrin ketone	1100	U
7421-36-3	Endrin aldehyde	1100	UJ
5103-71-9	alpha-Chlordane	550	U
5103-74-2	gamma-Chlordane	550	U
8001-35-2	Toxaphene	55000	U
12674-11-2	Aroclor-1016	11000	U
11104-28-2	Aroclor-1221	22000	U
11141-16-5	Aroclor-1232	11000	U
53469-21-9	Aroclor-1242	11000	U
12672-29-6	Aroclor-1248	11000	U
11097-69-1	Aroclor-1254	11000	U
11096-82-5	Aroclor-1260	11000	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215715

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0412BK07

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 36 Date Analyzed: 04/13/92

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	16	UJ	
74-83-9	Bromomethane	16	UJ	
75-01-4	Vinyl Chloride	16	U~~J~~	am
75-00-3	Chloroethane	16	U~~J~~	am
75-09-2	Methylene Chloride	60	~~B~~ U~~J~~	am
67-64-1	Acetone	16	UJ	
75-15-0	Carbon Disulfide	16	UJ	
75-35-4	1,1-Dichloroethene	16	U~~J~~	am
75-34-3	1,1-Dichloroethane	16	U~~J~~	am
540-59-0	1,2-Dichloroethene (total)	16	U~~J~~	am
67-66-3	Chloroform	16	U~~J~~	am
107-06-2	1,2-Dichloroethane	16	U~~J~~	am
78-93-3	2-Butanone	16	UJ	
71-55-6	1,1,1-Trichloroethane	11	J	
56-23-5	Carbon Tetrachloride	16	UJ	
75-27-4	Bromodichloromethane	16	UJ	
78-87-5	1,2-Dichloropropane	16	UJ	
10061-01-5	cis-1,3-Dichloropropene	16	UJ	
79-01-6	Trichloroethene	16	UJ	
124-48-1	Dibromochloromethane	16	UJ	
79-00-5	1,1,2-Trichloroethane	16	UJ	
71-43-2	Benzene	16	UJ	
10061-02-6	trans-1,3-Dichloropropene	16	UJ	
75-25-2	Bromoform	16	UJ	
108-10-1	4-Methyl-2-Pentanone	16	UJ	
591-78-6	2-Hexanone	16	UJ	
127-18-4	Tetrachloroethene	16	UJ	
79-34-5	1,1,2,2-Tetrachloroethane	16	UJ	
108-88-3	Toluene	16	UJ	
108-90-7	Chlorobenzene	16	UJ	
100-41-4	Ethylbenzene	16	UJ	
100-42-5	Styrene	16	UJ	
1330-20-7	Xylene (total)	16	UJ	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215715

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0412BK07

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 36 Date Analyzed: 04/13/92

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	5.12	29	~~BJN~~ u

am

FORM I VOA-TIC

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215715

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0422W04

Level: (low/med) MED Date Received: 04/10/92

% Moisture: 36 decanted: (Y/N) N Date Extracted: 04/16/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	15000	U
111-44-4	bis(2-Chloroethyl)Ether	15000	U
95-57-8	2-Chlorophenol	15000	U
541-73-1	1,3-Dichlorobenzene	15000	U
106-46-7	1,4-Dichlorobenzene	15000	U
95-50-1	1,2-Dichlorobenzene	15000	U
95-48-7	2-Methylphenol	15000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	15000	U
106-44-5	4-Methylphenol	15000	U
621-64-7	N-Nitroso-Di-n-Propylamine	15000	U
67-72-1	Hexachloroethane	15000	U
98-95-3	Nitrobenzene	15000	U
78-59-1	Isophorone	15000	U
88-75-5	2-Nitrophenol	15000	U
105-67-9	2,4-Dimethylphenol	15000	U
111-91-1	bis(2-Chloroethoxy)Methane	15000	U
120-83-2	2,4-Dichlorophenol	15000	U
120-82-1	1,2,4-Trichlorobenzene	15000	U
91-20-3	Naphthalene	15000	U
106-47-8	4-Chloroaniline	15000	U
87-68-3	Hexachlorobutadiene	15000	U
59-50-7	4-Chloro-3-Methylphenol	15000	U
91-57-6	2-Methylnaphthalene	15000	U
77-47-4	Hexachlorocyclopentadiene	15000	U
88-06-2	2,4,6-Trichlorophenol	15000	U
95-95-4	2,4,5-Trichlorophenol	38000	U
91-58-7	2-Chloronaphthalene	15000	U
88-74-4	2-Nitroaniline	38000	U
131-11-3	Dimethylphthalate	15000	U
208-96-8	Acenaphthylene	15000	U
606-20-2	2,6-Dinitrotoluene	15000	U
99-09-2	3-Nitroaniline	38000	U
83-32-9	Acenaphthene	15000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215715

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0422W04

Level: (low/med) MED Date Received: 04/10/92

% Moisture: 36 decanted: (Y/N) N Date Extracted: 04/16/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	38000	U
100-02-7	4-Nitrophenol	38000	U
132-64-9	Dibenzofuran	15000	U
121-14-2	2,4-Dinitrotoluene	15000	U
84-66-2	Diethylphthalate	15000	U
7005-72-3	4-Chlorophenyl-phenylether	15000	U
86-73-7	Fluorene	15000	U
100-10-6	4-Nitroaniline	38000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	38000	U
86-30-6	N-Nitrosodiphenylamine (1)	15000	U
101-55-3	4-Bromophenyl-phenylether	15000	U
118-74-1	Hexachlorobenzene	15000	U
87-86-5	Pentachlorophenol	38000	U
85-01-8	Phenanthrene	2500	J
120-12-7	Anthracene	15000	U
86-74-8	Carbazole	15000	U
84-74-2	Di-n-Butylphthalate	1600	J
206-44-0	Fluoranthene	3800	J
129-00-0	Pyrene	3700	J
85-68-7	Butylbenzylphthalate	15000	U
91-94-1	3,3'-Dichlorobenzidine	15000	U
56-55-3	Benzo(a)Anthracene	2100	J
218-01-9	Chrysene	2600	J
117-81-7	bis(2-Ethylhexyl)Phthalate	3400	~~BJ~~ U am
117-84-0	Di-n-Octyl Phthalate	15000	U
205-99-2	Benzo(b)Fluoranthene	2600	J
207-08-9	Benzo(k)Fluoranthene	1900	J
50-32-8	Benzo(a)Pyrene	2200	J
193-39-5	Indeno(1,2,3-cd)Pyrene	15000	U
53-70-3	Dibenz(a,h)Anthracene	15000	U
191-24-2	Benzo(g,h,i)Perylene	15000	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: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215715

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0422W04

Level: (low/med) MED Date Received: 04/10/92

% Moisture: 36 decanted: (Y/N) N Date Extracted: 04/16/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/22/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8

Number TICs found: 22

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. KETONE	7.88	4900	~~BAJ~~ U
2.	UNKNOWN	8.32	27000	~~BJ~~ U
3.	UNKNOWN ALIP. ALCOHOL	9.10	4500	~~BAJ~~ U
4.	UNKNOWN	12.35	58000	~~BJ~~ U
5.	UNKNOWN ALIP. HYDROCARBON	26.97	9800	J
6.	UNKNOWN ALIP. HYDROCARBON	28.11	27000	J
7.	UNKNOWN ALIP. HYDROCARBON	29.17	72000	J
8.	UNKNOWN ALIP. HYDROCARBON	29.57	6500	J
9.	UNKNOWN ALIP. HYDROCARBON	30.22	100000	J
10.	UNKNOWN ALIP. HYDROCARBON	31.21	120000	J
11.	UNKNOWN ALIP. HYDROCARBON	31.82	6100	J
12.	UNKNOWN ALIP. HYDROCARBON	32.17	120000	J
13.	UNKNOWN ALIP. HYDROCARBON	33.11	110000	J
14.	UNKNOWN ALIP. HYDROCARBON	33.66	7200	J
15.	UNKNOWN ALIP. HYDROCARBON	34.02	86000	J
16.	UNKNOWN ALIP. HYDROCARBON	35.06	97000	J
17.	UNKNOWN	35.94	3200	J
18.	UNKNOWN ALIP. HYDROCARBON	36.27	73000	J
19.	UNKNOWN	36.79	3500	J
20.	UNKNOWN ALIP. HYDROCARBON	37.69	42000	J
21.	UNKNOWN ALIP. HYDROCARBON	39.41	27000	J
22.	UNKNOWN ALIP. HYDROCARBON	41.49	14000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215715

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

% Moisture: 36 decanted: (Y/N) N Date Received: 04/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/16/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/17/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 5.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	760	UJ
319-85-7	beta-BHC	760	UJ
319-86-8	delta-BHC	760	UJ
58-89-9	gamma-BHC (Lindane)	760	U
76-44-8	Heptachlor	760	U
309-00-2	Aldrin	760	U
1024-57-3	Heptachlor epoxide	760	U
959-98-8	Endosulfan I	760	U
60-57-1	Dieldrin	1500	U
72-55-9	4,4'-DDE	1500	UJ
72-20-8	Endrin	1500	UJ
33213-65-9	Endosulfan II	1500	UJ
72-54-8	4,4'-DDD	1500	UJ
1031-07-8	Endosulfan sulfate	1500	UJ
50-29-3	4,4'-DDT	1500	U
72-43-5	Methoxychlor	7600	U
53494-70-5	Endrin ketone	1500	U
7421-36-3	Endrin aldehyde	1500	UJ
5103-71-9	alpha-Chlordane	760	U
5103-74-2	gamma-Chlordane	760	U
8001-35-2	Toxaphene	76000	U
12674-11-2	Aroclor-1016	15000	U
11104-28-2	Aroclor-1221	30000	U
11141-16-5	Aroclor-1232	15000	U
53469-21-9	Aroclor-1242	15000	U
12672-29-6	Aroclor-1248	15000	U
11097-69-1	Aroclor-1254	15000	U
11096-82-5	Aroclor-1260	15000	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215719

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0414BK07

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 24 Date Analyzed: 04/14/92

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	U	
74-83-9	Bromomethane	13	U	
75-01-4	Vinyl Chloride	13	U	
75-00-3	Chloroethane	13	U	
75-09-2	Methylene Chloride	138	~~BJ~~ U	am
67-64-1	Acetone	13	UJ	
75-15-0	Carbon Disulfide	13	UJ	
75-35-4	1,1-Dichloroethene	13	UJ	
75-34-3	1,1-Dichloroethane	13	U	
540-59-0	1,2-Dichloroethene (total)	13	U	
67-66-3	Chloroform	13	U	
107-06-2	1,2-Dichloroethane	13	U	
78-93-3	2-Butanone	13	UJ	
71-55-6	1,1,1-Trichloroethane	3	J~~J~~	am
56-23-5	Carbon Tetrachloride	13	U~~J~~	am
75-27-4	Bromodichloromethane	13	U~~J~~	am
78-87-5	1,2-Dichloropropane	13	U~~J~~	am
10061-01-5	cis-1,3-Dichloropropene	13	U~~J~~	am
79-01-6	Trichloroethene	13	U~~J~~	am
124-48-1	Dibromochloromethane	13	U~~J~~	am
79-00-5	1,1,2-Trichloroethane	13	U~~J~~	am
71-43-2	Benzene	13	U~~J~~	am
10061-02-6	trans-1,3-Dichloropropene	13	U~~J~~	am
75-25-2	Bromoform	13	U	
108-10-1	4-Methyl-2-Pentanone	13	UJ	
591-78-6	2-Hexanone	13	UJ	
127-18-4	Tetrachloroethene	13	UJ	
79-34-5	1,1,2,2-Tetrachloroethane	13	UJ	
108-88-3	Toluene	13	UJ	
108-90-7	Chlorobenzene	13	UJ	
100-41-4	Ethylbenzene	13	UJ	
100-42-5	Styrene	13	UJ	
1330-20-7	Xylene (total)	13	UJ	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X201

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215719

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0414BK07

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. 24 Date Analyzed: 04/14/92

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	10	JN

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215719

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B0423W07

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 24 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-Di-n-Propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)Methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	120	J
106-47-8	4-Chloroaniline	430	UJ
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-Methylphenol	430	U
91-57-6	2-Methylnaphthalene	100	J
77-47-4	Hexachlorocyclopentadiene	430	UJ
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	430	U
208-96-8	Acenaphthylene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
99-09-2	3-Nitroaniline	1000	UJ
83-32-9	Acenaphthene	430	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215719

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B0423W07

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 24 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
51-28-5	2,4-Dinitrophenol	1000	U	
100-02-7	4-Nitrophenol	1000	U	
132-64-9	Dibenzofuran	430	U	
121-14-2	2,4-Dinitrotoluene	430	U	
84-66-2	Diethylphthalate	430	U	
7005-72-3	4-Chlorophenyl-phenylether	430	U	
86-73-7	Fluorene	430	U	
100-10-6	4-Nitroaniline	1000	UJ	
534-52-1	4,6-Dinitro-2-methylphenol	1000	U	
86-30-6	N-Nitrosodiphenylamine (1)	430	U	
101-55-3	4-Bromophenyl-phenylether	430	U	
118-74-1	Hexachlorobenzene	430	U	
87-86-5	Pentachlorophenol	1000	U	
85-01-8	Phenanthrene	700		
120-12-7	Anthracene	430	U	
86-74-8	Carbazole	430	U	
84-74-2	Di-n-Butylphthalate	2100	~~B~~U	am
206-44-0	Fluoranthene	970		
129-00-0	Pyrene	930		
85-68-7	Butylbenzylphthalate	9600	~~B~~E	am
91-94-1	3,3'-Dichlorobenzidine	430	U	
56-55-3	Benzo(a)Anthracene	450		
218-01-9	Chrysene	570		
117-81-7	bis(2-Ethylhexyl)Phthalate	14000	~~B~~E	am
117-84-0	Di-n-Octyl Phthalate	220	J	
205-99-2	Benzo(b)Fluoranthene	520		
207-08-9	Benzo(k)Fluoranthene	390	J	
50-32-8	Benzo(a)Pyrene	430		
193-39-5	Indeno(1,2,3-cd)Pyrene	430	U	
53-70-3	Dibenz(a,h)Anthracene	430	U	
191-24-2	Benzo(g,h,i)Perylene	430	U	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X201

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215719

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B0423W07

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 24 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/23/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. KETONE	8.15	63000	~~BAJ~~ U
2.	UNKNOWN	12.34	4000	J
3.	UNKNOWN	12.79	7300	~~BJ~~ U
4.	UNKNOWN	31.02	23000	J
5.	UNKNOWN ALIP. HYDROCARBON	32.16	2400	J
6.	UNKNOWN	32.32	1600	J
7.	UNKNOWN	32.61	470	J
8.	UNKNOWN ALIP. HYDROCARBON	33.09	1000	J
9.	UNKNOWN ALIP. HYDROCARBON	34.04	3000	J
10.	UNKNOWN	34.44	290	J
11.	UNKNOWN	34.89	1300	J
12.	UNKNOWN ALIP. HYDROCARBON	35.06	1100	J
13.	UNKNOWN	35.12	2600	J
14.	UNKNOWN	35.19	380	J
15.	UNKNOWN ALIP. HYDROCARBON	35.36	290	J
16.	UNKNOWN	35.57	1900	J
17.	UNKNOWN ALIP. HYDROCARBON	35.67	760	J
18.	UNKNOWN ALIP. HYDROCARBON	36.29	4000	J
19.	UNKNOWN	36.37	5900	J
20.	UNKNOWN BENZOFLUORANTHENE	36.81	1600	J
21.	UNKNOWN ALIP. HYDROCARBON	39.46	9000	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201DL

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215719

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B0427W08

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 24 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/27/92

Injection Volume: 2.0(uL) Dilution Factor: 6.0

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

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	2600	U
106-47-8	4-Chloroaniline	2600	UJ
87-68-3	Hexachlorobutadiene	2600	U
59-50-7	4-Chloro-3-Methylphenol	2600	U
91-57-6	2-Methylnaphthalene	2600	U
77-47-4	Hexachlorocyclopentadiene	2600	UJ
88-06-2	2,4,6-Trichlorophenol	2600	U
95-95-4	2,4,5-Trichlorophenol	6200	U
91-58-7	2-Chloronaphthalene	2600	U
88-74-4	2-Nitroaniline	6200	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	6200	UJ
83-32-9	Acenaphthene	2600	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201DL

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215719

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B0427W08

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 24 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/27/92

Injection Volume: 2.0(uL) Dilution Factor: 6.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
51-28-5	2,4-Dinitrophenol	6200	UJ	
100-02-7	4-Nitrophenol	6200	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	6200	UJ	
534-52-1	4,6-Dinitro-2-methylphenol	6200	U	
86-30-6	N-Nitrosodiphenylamine (1)	2600	UJ	
101-55-3	4-Bromophenyl-phenylether	2600	U	
118-74-1	Hexachlorobenzene	2600	U	
87-86-5	Pentachlorophenol	6200	UJ	
85-01-8	Phenanthrene	2600	U	
120-12-7	Anthracene	2600	U	
86-74-8	Carbazole	2600	U	
84-74-2	Di-n-Butylphthalate	760	~~BJ~~ U	am
206-44-0	Fluoranthene	2600	U	
129-00-0	Pyrene	2600	U	
85-68-7	Butylbenzylphthalate	5300	~~B~~	am
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	26000	~~B~~E	am
117-84-0	Di-n-Octyl Phthalate	2600	UJ	
205-99-2	Benzo(b)Fluoranthene	2600	U	
207-08-9	Benzo(k)Fluoranthene	2600	UJ	
50-32-8	Benzo(a)Pyrene	2600	U	
193-39-5	Indeno(1,2,3-cd)Pyrene	2600	U	
53-70-3	Dibenz(a,h)Anthracene	2600	U	
191-24-2	Benzo(g,h,i)Perylene	2600	U	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X201DL

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215719

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B0427W08

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: 24 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/27/92

Injection Volume: 2.0(uL) Dilution Factor: 6.0

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. KETONE	7.82	24000	~~B~~AJ

cm

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201DL

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) SOIL Lab Sample ID: D215719

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

% Moisture: 24 decanted: (Y/N) N Date Received: 04/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/20/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/17/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	22	UJ
319-85-7	beta-BHC	22	UJ
319-86-8	delta-BHC	22	UJ
58-89-9	gamma-BHC (Lindane)	22	U
76-44-8	Heptachlor	22	U
309-00-2	Aldrin	22	U
1024-57-3	Heptachlor epoxide	20	JPD
959-98-8	Endosulfan I	22	U
60-57-1	Dieldrin	43	U
72-55-9	4,4'-DDE	21	JDN
72-20-8	Endrin	43	UJ
33213-65-9	Endosulfan II	43	UJ
72-54-8	4,4'-DDD	43	UJ
1031-07-8	Endosulfan sulfate	43	UJ
50-29-3	4,4'-DDT	53	PDJ
72-43-5	Methoxychlor	220	U
53494-70-5	Endrin ketone	43	U
7421-36-3	Endrin aldehyde	43	UJ
5103-71-9	alpha-Chlordane	22	U
5103-74-2	gamma-Chlordane	22	U
8001-35-2	Toxaphene	2200	U
12674-11-2	Aroclor-1016	430	U
11104-28-2	Aroclor-1221	880	U
11141-16-5	Aroclor-1232	430	U
53469-21-9	Aroclor-1242	430	U
12672-29-6	Aroclor-1248	430	U
11097-69-1	Aroclor-1254	430	U
11096-82-5	Aroclor-1260	430	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) WATER Lab Sample ID: D215727

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0414LC05

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. ____ Date Analyzed: 04/14/92

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/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S101

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) WATER Lab Sample ID: D215727

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0414LC05

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. ____ Date Analyzed: 04/14/92

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/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) WATER Lab Sample ID: D215727

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0421W08

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 04/14/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/21/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	UJ
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) WATER Lab Sample ID: D215727

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0421W08

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 04/14/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/21/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S101

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) WATER Lab Sample ID: D215727

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0421W08

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 04/14/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/21/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 28

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN	8.32	28	~~BJ~~ U	am
2.	UNKNOWN ALIP. ALCOHOL	9.10	13	~~BAJ~~ U	am
3.	UNKNOWN TRICHLOROPROPENE	10.59	82	~~BJ~~ U	am
4.	UNKNOWN	14.75	62	~~BJ~~ U	am
5.	UNKNOWN	21.02	23	J	
6.	UNKNOWN ALIP. ACID	22.04	19	~~BJ~~ U	am
7.	UNKNOWN	22.19	9	J	
8.	UNKNOWN ALIP. ACID	26.51	7	J	
9.	UNKNOWN ALIP. HYDROCARBON	32.19	20	J	
10.	UNKNOWN ALIP. HYDROCARBON	33.11	17	J	
11.	UNKNOWN ALIP. HYDROCARBON	34.04	92	J	
12.	UNKNOWN ALIP. HYDROCARBON	35.06	24	J	
13.	UNKNOWN	35.57	29	J	
14.	UNKNOWN	35.92	15	J	
15.	UNKNOWN ALIP. HYDROCARBON	36.31	130	J	
16.	UNKNOWN	36.42	16	J	
17.	UNKNOWN	36.91	16	J	
18.	UNKNOWN	37.29	37	J	
19.	UNKNOWN	38.49	180	J	
20.	UNKNOWN	38.91	35	J	
21.	UNKNOWN	39.17	78	J	
22.	UNKNOWN ALIP. HYDROCARBON	39.46	59	J	
23.	UNKNOWN	39.67	35	J	
24.	UNKNOWN	40.39	13	J	
25.	UNKNOWN	40.87	21	J	
26.	UNKNOWN	42.73	140	J	
27.	UNKNOWN	43.71	30	J	
28.	UNKNOWN	44.49	21	J	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) WATER Lab Sample ID: D215727

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 04/10/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/14/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/17/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	UJ
319-85-7	beta-BHC	0.050	UJ
319-86-8	delta-BHC	0.050	UJ
58-89-9	gamma-BHC (Lindane)	0.050	UJ
76-44-8	Heptachlor	0.050	UJ
309-00-2	Aldrin	0.050	UJ
1024-57-3	Heptachlor epoxide	0.050	UJ
959-98-8	Endosulfan I	0.050	UJ
60-57-1	Dieldrin	0.10	UJ
72-55-9	4,4'-DDE	0.10	UJ
72-20-8	Endrin	0.10	UJ
33213-65-9	Endosulfan II	0.10	UJ
72-54-8	4,4'-DDD	0.10	UJ
1031-07-8	Endosulfan sulfate	0.10	UJ
50-29-3	4,4'-DDT	0.10	UJ
72-43-5	Methoxychlor	0.50	UJ
53494-70-5	Endrin ketone	0.10	UJ
7421-36-3	Endrin aldehyde	0.10	UJ
5103-71-9	alpha-Chlordane	0.050	UJ
5103-74-2	gamma-Chlordane	0.050	UJ
8001-35-2	Toxaphene	5.0	UJ
12674-11-2	Aroclor-1016	1.0	UJ
11104-28-2	Aroclor-1221	2.0	UJ
11141-16-5	Aroclor-1232	1.0	UJ
53469-21-9	Aroclor-1242	1.0	UJ
12672-29-6	Aroclor-1248	1.0	UJ
11097-69-1	Aroclor-1254	1.0	UJ
11096-82-5	Aroclor-1260	1.0	UJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKTB

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) WATER Lab Sample ID: D215728

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0414LC04

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. ____ Date Analyzed: 04/14/92

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/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKTB

Lab Name: ILLINOIS EPA Contract: 1970455001

Lab Code: SPFLD Case No.: LENNON SAS No.: _____ SDG No.: 215712

Matrix: (soil/water) WATER Lab Sample ID: D215728

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0414LC04

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. ____ Date Analyzed: 04/14/92

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/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LENNON WALLPAPER

Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —69—

SOW No.: ILM01.0

EPA Sample No.	Lab Sample ID
S101	B204967
S101S	B204967S
S101D	B204967D
X101	B204968
X102	B204969
X103	B204970
X104	B204971
X105	B204972
X106	B204973
X107	B204974
X108	B204975
X109	B204976
X110	B204977
X111	B204978
X112	B204979
X113	B204980

Were ICP interelement corrections applied? Yes ——

Were ICP background corrections applied? Yes ——
If yes, were raw data generated before application of background corrections? No ——

Comments: -1.0 ML OF ~~1:1~~ HCL ADDED TO MICROWAVE DIGESTION PROCEDURE FOR SOILS TO IMPROVE ANTIMONY RECOVERY.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other t the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Roy Frazier Name: ROY FRAZIER
Date: 5/28/92 Title: LAB MGR

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LENNON WALLPAPER

Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —69—

SOW No.: ILM01.0

EPA Sample No.	Lab Sample ID
X114	B204981
X114S	B204981S
X114D	B204981D
X201	B204982

Were ICP interelement corrections applied? Yes ——

Were ICP background corrections applied? Yes ——
If yes, were raw data generated before application of background corrections? No ——

Comments: -1.0 ML OF ~~1:1~~ HCL ADDED TO MICROWAVE DIGESTION PROCEDURE FOR SOILS TO IMPROVE ANTIMONY RECOVERY.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other that the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: ——— Name: ———
Date: ——— Title: ———

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LENNON WALLPAPER
Lab Code: Case No.: SAS No.: SDG No.: 69
Matrix (Water): Lab Sample ID: B204967
Level (Low/Med): Date Received: 4/10/92
% Solids:

Concentration Units (ug/L):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	964		N	PM
7440-36-0	Antimony	42.0	U		PM
7440-38-2	Arsenic	30.4			FM
7440-39-3	Barium	228			PM
7440-41-7	Beryllium	1.0	U		PM
7440-43-9	Cadmium	5.0	U		PM
7440-70-2	Calcium	136000			PM
7440-47-3	Chromium	3.0	U		PM
7440-48-4	Cobalt	3.0	U		PM
7440-50-8	Copper	23.2	B		PM
7439-89-6	Iron	61000			PM
7439-92-1	Lead	24.2			FM
7439-95-4	Magnesium	51900			PM
7439-96-5	Manganese	1850			PM
7439-97-6	Mercury	0.01	U		AV
7440-02-2	Nickel	18.5	B		PM
7440-09-7	Potassium	8930			PM
7782-49-2	Selenium	5.0	U		FM
7440-22-4	Silver	5.0	U		PM
7440-23-5	Sodium	40000			PM
7440-28-0	Thallium	3.0	U		FM
7440-62-2	Vanadium	4.7	B		PM
7440-66-6	Zinc	100			PM
	Cyanide	10.0	U		AS
	Sulfide	1000.0	U		T
	Sulfate	128000			AS

Color Before: Colorless Clarity Before: Clear Texture:
Color After: Colorless Clarity After: Clear Artifacts:
Comments: SULFIDE SW846 METHODOLOGY
SULFATE IEPA METHODOLOGY

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LENNON WALLPAPER
Lab Code: Case No.: SAS No.: SDG No.: 69
Matrix (Soil): Lab Sample ID: B204968
Level (Low/Med): Date Received: 4/10/92
% Solids: 62.3

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11300			PM
7440-36-0	Antimony	6.2	U		PM
7440-38-2	Arsenic	5.0		+,N	FM
7440-39-3	Barium	536			PM
7440-41-7	Beryllium	0.50	B		PM
7440-43-9	Cadmium	8.0			PM
7440-70-2	Calcium	145000			PM
7440-47-3	Chromium	37.7			PM
7440-48-4	Cobalt	5.4	B		PM
7440-50-8	Copper	792			PM
7439-89-6	Iron	12100			PM
7439-92-1	Lead	126			FM
7439-95-4	Magnesium	39700			PM
7439-96-5	Manganese	306			PM
7439-97-6	Mercury	0.10			AS
7440-02-2	Nickel	16.2			PM
7440-09-7	Potassium	2620			PM
7782-49-2	Selenium	2.2		W,N	FM
7440-22-4	Silver	3.6			PM
7440-23-5	Sodium	471	B		PM
7440-28-0	Thallium	2.2	U		FM
7440-62-2	Vanadium	19.5			PM
7440-66-6	Zinc	777			PM
	Cyanide	1.3	U		AS

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

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SOIL

3/90

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LENNON WALLPAPER
Lab Code: Case No.: SAS No.: SDG No.: 69
Matrix (Soil): Lab Sample ID: B204969
Level (Low/Med): Date Received: 4/10/92
% Solids: 62.8

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11900			PM
7440-36-0	Antimony	6.3	U		PM
7440-38-2	Arsenic	10.5		S,N	FM
7440-39-3	Barium	4550			PM
7440-41-7	Beryllium	1.1			PM
7440-43-9	Cadmium	12.1			PM
7440-70-2	Calcium	54100			PM
7440-47-3	Chromium	147			PM
7440-48-4	Cobalt	6.7	B		PM
7440-50-8	Copper	1910			PM
7439-89-6	Iron	19100			PM
7439-92-1	Lead	705			FM
7439-95-4	Magnesium	13000			PM
7439-96-5	Manganese	630			PM
7439-97-6	Mercury	0.11			AS
7440-02-2	Nickel	28.0			PM
7440-09-7	Potassium	1070			PM
7782-49-2	Selenium	2.2		W,N	FM
7440-22-4	Silver	0.75	U		PM
7440-23-5	Sodium	606	B		PM
7440-28-0	Thallium	2.2	U		FM
7440-62-2	Vanadium	25.9			PM
7440-66-6	Zinc	2030			PM
	Cyanide	1.3	U		AS

Color Before: Gray Clarity Before: Opaque Texture: Medium
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LENNON WALLPAPER
Lab Code: Case No.: SAS No.: SDG No.: 69
Matrix (Soil): Lab Sample ID: B2049701
Level (Low/Med): Date Received: 4/10/92
% Solids: 75.2

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7620			PM
7440-36-0	Antimony	6.0	U		PM
7440-38-2	Arsenic	6.0		S,N	FM
7440-39-3	Barium	45			PM
7440-41-7	Beryllium	0.43	B		PM
7440-43-9	Cadmium	0.72	U		PM
7440-70-2	Calcium	191000			PM
7440-47-3	Chromium	11.7			PM
7440-48-4	Cobalt	3.6	B		PM
7440-50-8	Copper	13.6			PM
7439-89-6	Iron	11700			PM
7439-92-1	Lead	33.4			FM
7439-95-4	Magnesium	100000			PM
7439-96-5	Manganese	462			PM
7439-97-6	Mercury	0.03	B		AS
7440-02-2	Nickel	7.6			PM
7440-09-7	Potassium	1980			PM
7782-49-2	Selenium	0.72	U	+,N	FM
7440-22-4	Silver	1.1	B		PM
7440-23-5	Sodium	197	B		PM
7440-28-0	Thallium	2.2	U		FM
7440-62-2	Vanadium	18.1			PM
7440-66-6	Zinc	56.5			PM
	Cyanide	1.1	U		AS

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LENNON WALLPAPER
Lab Code: Case No.: SAS No.: SDG No.: 69
Matrix (Soil): Lab Sample ID: B204971
Level (Low/Med): Date Received: 4/10/92
% Solids: 36.1

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	597			PM
7440-36-0	Antimony	11.9	U		PM
7440-38-2	Arsenic	0.59	B	W,N	FM
7440-39-3	Barium	38.9	B		PM
7440-41-7	Beryllium	0.28	U		PM
7440-43-9	Cadmium	1.2	B		PM
7440-70-2	Calcium	7840			PM
7440-47-3	Chromium	1.8	B		PM
7440-48-4	Cobalt	0.85	U		PM
7440-50-8	Copper	21.6			PM
7439-89-6	Iron	833			PM
7439-92-1	Lead	51.5			FM
7439-95-4	Magnesium	1300	B		PM
7439-96-5	Manganese	29.2			PM
7439-97-6	Mercury	0.006	U		AS
7440-02-2	Nickel	4.0	B		PM
7440-09-7	Potassium	184	U		PM
7782-49-2	Selenium	0.28	U	N	FM
7440-22-4	Silver	2.1	B		PM
7440-23-5	Sodium	130	B		PM
7440-28-0	Thallium	4.2	U		FM
7440-62-2	Vanadium	0.85	U		PM
7440-66-6	Zinc	49.1			PM
	Cyanide	2.3	U		AS

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

B000007

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LENNON WALLPAPER
Lab Code: Case No.: SAS No.: SDG No.: 69
Matrix (Soil): Lab Sample ID: B204972
Level (Low/Med): Date Received: 4/10/92
% Solids: 60.9

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8940			PM
7440-36-0	Antimony	6.5	U		PM
7440-38-2	Arsenic	6.08		S,N	FM
7440-39-3	Barium	9270			PM
7440-41-7	Beryllium	0.16	U		PM
7440-43-9	Cadmium	471			PM
7440-70-2	Calcium	9510			PM
7440-47-3	Chromium	1950			PM
7440-48-4	Cobalt	4.8	B		PM
7440-50-8	Copper	2120			PM
7439-89-6	Iron	14700			PM
7439-92-1	Lead	10660		S	FM
7439-95-4	Magnesium	584	B		PM
7439-96-5	Manganese	489			PM
7439-97-6	Mercury	0.07			AS
7440-02-2	Nickel	5.8	B		PM
7440-09-7	Potassium	197	B		PM
7782-49-2	Selenium	0.16	U	W,N	FM
7440-22-4	Silver	0.81	B		PM
7440-23-5	Sodium	518	B		PM
7440-28-0	Thallium	2.3	U	E	FM
7440-62-2	Vanadium	32.0			PM
7440-66-6	Zinc	6860			PM
	Cyanide	1.4	U		AS

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

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LENNON WALLPAPER
Lab Code: Case No.: SAS No.: SDG No.: 69
Matrix (Soil): Lab Sample ID: B204973
Level (Low/Med): Date Received: 4/10/92
% Solids: 55.5

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11000			PM
7440-36-0	Antimony	35.1	U		PM
7440-38-2	Arsenic	8.55		S,N	FM
7440-39-3	Barium	11600			PM
7440-41-7	Beryllium	0.84	U		PM
7440-43-9	Cadmium	10.0			PM
7440-70-2	Calcium	8450			PM
7440-47-3	Chromium	1530			PM
7440-48-4	Cobalt	3.8	B		PM
7440-50-8	Copper	20000			PM
7439-89-6	Iron	16100			PM
7439-92-1	Lead	11200		S	FM
7439-95-4	Magnesium	664	B		PM
7439-96-5	Manganese	434			PM
7439-97-6	Mercury	0.06	B		AS
7440-02-2	Nickel	11.0	U		PM
7440-09-7	Potassium	544	U		PM
7782-49-2	Selenium	0.28	B	W,N	FM
7440-22-4	Silver	4.2	U		PM
7440-23-5	Sodium	350	B		PM
7440-28-0	Thallium	2.5	U	E	FM
7440-62-2	Vanadium	34.9			PM
7440-66-6	Zinc	5790			PM
	Cyanide	1.5	U		AS

Color Before: Gray Clarity Before: Opaque Texture: Fine
Color After: Colorless Clarity After: Clear Artifacts:
Comments: All ICP data taken from the 5X dilution. All IDL's 5X.

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LENNON WALLPAPER
Lab Code: Case No.: SAS No.: SDG No.: 69
Matrix (Soil): Lab Sample ID: B204974
Level (Low/Med): Date Received: 4/10/92
% Solids: 58.8

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9740			PM
7440-36-0	Antimony	33.0	U		PM
7440-38-2	Arsenic	15.1		S,N	FM
7440-39-3	Barium	13100			PM
7440-41-7	Beryllium	0.78	U		PM
7440-43-9	Cadmium	439			PM
7440-70-2	Calcium	22700			PM
7440-47-3	Chromium	3330			PM
7440-48-4	Cobalt	2.4	U		PM
7440-50-8	Copper	27000			PM
7439-89-6	Iron	12700			PM
7439-92-1	Lead	15000		S	FM
7439-95-4	Magnesium	5740			PM
7439-96-5	Manganese	438			PM
7439-97-6	Mercury	0.12			AS
7440-02-2	Nickel	68.5			PM
7440-09-7	Potassium	512	U		PM
7782-49-2	Selenium	0.78	U	S,N	FM
7440-22-4	Silver	1.6	U		PM
7440-23-5	Sodium	135	B		PM
7440-28-0	Thallium	2.4	U	W	FM
7440-62-2	Vanadium	31.8			PM
7440-66-6	Zinc	9250			PM
	Cyanide	2.8			AS

Color Before: Black Clarity Before: Opaque Texture: Fine
Color After: Green Clarity After: Clear Artifacts:
Comments: All ICP data taken from the 5X dilution. All IDL's 5x.

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LENNON WALLPAPER
Lab Code: Case No.: SAS No.: SDG No.: 69
Matrix (Soil): Lab Sample ID: B204975
Level (Low/Med): Date Received: 4/10/92
% Solids: 76.8

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	36900			PM
7440-36-0	Antimony	5.4	U		PM
7440-38-2	Arsenic	12.2		S,N	FM
7440-39-3	Barium	6660			PM
7440-41-7	Beryllium	0.60	B		PM
7440-43-9	Cadmium	0.64	U		PM
7440-70-2	Calcium	27200			PM
7440-47-3	Chromium	64.8			PM
7440-48-4	Cobalt	6.4			PM
7440-50-8	Copper	1710			PM
7439-89-6	Iron	35700			PM
7439-92-1	Lead	56.1			FM
7439-95-4	Magnesium	6710			PM
7439-96-5	Manganese	985			PM
7439-97-6	Mercury	0.04	B		AS
7440-02-2	Nickel	20.6			PM
7440-09-7	Potassium	1790			PM
7782-49-2	Selenium	0.64	U	+,N	FM
7440-22-4	Silver	0.81	B		PM
7440-23-5	Sodium	503	B		PM
7440-28-0	Thallium	1.9	U	W	FM
7440-62-2	Vanadium	50.2			PM
7440-66-6	Zinc	570			PM
	Cyanide	1.1	U		AS

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

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LENNON WALLPAPER
Lab Code: Case No.: SAS No.: SDG No.: 69
Matrix (Soil): Lab Sample ID: B204976
Level (Low/Med): Date Received: 4/10/92
% Solids: 90.1

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3750			PM
7440-36-0	Antimony	4.5	U		PM
7440-38-2	Arsenic	14.8		N	FM
7440-39-3	Barium	80.8			PM
7440-41-7	Beryllium	0.41	B		PM
7440-43-9	Cadmium	0.54	U		PM
7440-70-2	Calcium	142000			PM
7440-47-3	Chromium	8.1			PM
7440-48-4	Cobalt	4.7	B		PM
7440-50-8	Copper	57.5			PM
7439-89-6	Iron	30900			PM
7439-92-1	Lead	95.0			FM
7439-95-4	Magnesium	70200			PM
7439-96-5	Manganese	1150			PM
7439-97-6	Mercury	0.03	B		AS
7440-02-2	Nickel	11.0			PM
7440-09-7	Potassium	1090			PM
7782-49-2	Selenium	0.54	U	W,N	FM
7440-22-4	Silver	1.4			PM
7440-23-5	Sodium	193	B		PM
7440-28-0	Thallium	1.6	U		PM
7440-62-2	Vanadium	12.8			PM
7440-66-6	Zinc	81.3			PM
	Cyanide	1.0	U		AS

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

B000012

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LENNON WALLPAPER
Lab Code: Case No.: SAS No.: SDG No.: 69
Matrix (Soil): Lab Sample ID: B204977
Level (Low/Med): Date Received: 4/10/92
% Solids: 80.7

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10000			PM
7440-36-0	Antimony	5.2	U		PM
7440-38-2	Arsenic	9.2		S,N	FM
7440-39-3	Barium	2510			PM
7440-41-7	Beryllium	1.7			PM
7440-43-9	Cadmium	0.62	U		PM
7440-70-2	Calcium	8240			PM
7440-47-3	Chromium	28.1			PM
7440-48-4	Cobalt	8.0			PM
7440-50-8	Copper	482			PM
7439-89-6	Iron	27600			PM
7439-92-1	Lead	48.9			FM
7439-95-4	Magnesium	1440			PM
7439-96-5	Manganese	733			PM
7439-97-6	Mercury	0.02	B		AS
7440-02-2	Nickel	26.3			PM
7440-09-7	Potassium	1290			PM
7782-49-2	Selenium	0.33	B	W,N	FM
7440-22-4	Silver	0.62	U		PM
7440-23-5	Sodium	643			PM
7440-28-0	Thallium	1.9	U		FM
7440-62-2	Vanadium	23.9			PM
7440-66-6	Zinc	374			PM
	Cyanide	1.0	U		AS

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

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X111

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LENNON WALLPAPER
Lab Code: Case No.: SAS No.: SDG No.: 69
Matrix (Soil): Lab Sample ID: B204978
Level (Low/Med): Date Received: 4/10/92
% Solids: 83.9

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13400			PM
7440-36-0	Antimony	5.5	U		PM
7440-38-2	Arsenic	9.0		S,N	FM
7440-39-3	Barium	276			PM
7440-41-7	Beryllium	3.3			PM
7440-43-9	Cadmium	0.65	U		PM
7440-70-2	Calcium	21800			PM
7440-47-3	Chromium	22.2			PM
7440-48-4	Cobalt	11.9			PM
7440-50-8	Copper	67.1			PM
7439-89-6	Iron	42300			PM
7439-92-1	Lead	68.1			FM
7439-95-4	Magnesium	1770			PM
7439-96-5	Manganese	535			PM
7439-97-6	Mercury	0.05			AS
7440-02-2	Nickel	42			PM
7440-09-7	Potassium	1260			PM
7782-49-2	Selenium	0.92		+,N	FM
7440-22-4	Silver	0.65	U		PM
7440-23-5	Sodium	938			PM
7440-28-0	Thallium	2.0	U	W	FM
7440-62-2	Vanadium	29			PM
7440-66-6	Zinc	332			PM
	Cyanide	1.0	U		AS

Color Before: Black 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.

X112

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LENNON WALLPAPER
Lab Code: Case No.: SAS No.: SDG No.: 69
Matrix (Soil): Lab Sample ID: B204979
Level (Low/Med): Date Received: 4/10/92
% Solids: 84.6

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8480			PM
7440-36-0	Antimony	97.5			PM
7440-38-2	Arsenic	8.6		S,N	FM
7440-39-3	Barium	9390			PM
7440-41-7	Beryllium	1.2	U		PM
7440-43-9	Cadmium	38.3			PM
7440-70-2	Calcium	8290			PM
7440-47-3	Chromium	10700			PM
7440-48-4	Cobalt	1.8	U		PM
7440-50-8	Copper	329			PM
7439-89-6	Iron	15900			PM
7439-92-1	Lead	42800			FM
7439-95-4	Magnesium	127	B		PM
7439-96-5	Manganese	132			PM
7439-97-6	Mercury	0.18			AS
7440-02-2	Nickel	8.0			PM
7440-09-7	Potassium	394	U		PM
7782-49-2	Selenium	0.12	U	W,N	FM
7440-22-4	Silver	12.8			PM
7440-23-5	Sodium	234	B		PM
7440-28-0	Thallium	1.8	U	E	FM
7440-62-2	Vanadium	13.7			PM
7440-66-6	Zinc	4230			PM
	Cyanide	29.0			AS

Color Before: Red Clarity Before: Opaque Texture: Fine
Color After: Green Clarity After: Clear Artifacts:
Comments: All ICP data taken from the 10X dilution. All IDL's 10X.

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LENNON WALLPAPER
Lab Code: Case No.: SAS No.: SDG No.: 69
Matrix (Soil): Lab Sample ID: B204980
Level (Low/Med): Date Received: 4/10/92
% Solids: 65.9

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	97200			PM
7440-36-0	Antimony	6.4	U		PM
7440-38-2	Arsenic	56.5		+,N	FM
7440-39-3	Barium	1160			PM
7440-41-7	Beryllium	0.92			PM
7440-43-9	Cadmium	1.6			PM
7440-70-2	Calcium	1440			PM
7440-47-3	Chromium	116			PM
7440-48-4	Cobalt	3.6	B		PM
7440-50-8	Copper	949			PM
7439-89-6	Iron	29300			PM
7439-92-1	Lead	289			FM
7439-95-4	Magnesium	833			PM
7439-96-5	Manganese	138			PM
7439-97-6	Mercury	0.14			AS
7440-02-2	Nickel	64.7			PM
7440-09-7	Potassium	597	B		PM
7782-49-2	Selenium	0.76	U	W,N	FM
7440-22-4	Silver	3.53			PM
7440-23-5	Sodium	173	B		PM
7440-28-0	Thallium	0.46	U	W	FM
7440-62-2	Vanadium	14.8			PM
7440-66-6	Zinc	337			PM
	Cyanide	1.3	U		AS

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

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X114

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LENNON WALLPAPER
Lab Code: Case No.: SAS No.: SDG No.: 69
Matrix (Soil): Lab Sample ID: B204981
Level (Low/Med): Date Received: 4/10/92
% Solids: 83.3

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13300			PM
7440-36-0	Antimony	5.0	U		PM
7440-38-2	Arsenic	9.56		N	FM
7440-39-3	Barium	109			PM
7440-41-7	Beryllium	0.79			PM
7440-43-9	Cadmium	0.68			PM
7440-70-2	Calcium	33700			PM
7440-47-3	Chromium	18.6			PM
7440-48-4	Cobalt	11.6			PM
7440-50-8	Copper	19.6			PM
7439-89-6	Iron	21200			PM
7439-92-1	Lead	49.7		S	FM
7439-95-4	Magnesium	19300			PM
7439-96-5	Manganese	1250			PM
7439-97-6	Mercury	0.01	B		AS
7440-02-2	Nickel	18.3			PM
7440-09-7	Potassium	2470			PM
7782-49-2	Selenium	0.12	U	W,N	FM
7440-22-4	Silver	1.2			PM
7440-23-5	Sodium	149	B		PM
7440-28-0	Thallium	0.36	U	W	FM
7440-62-2	Vanadium	30.7			PM
7440-66-6	Zinc	91.7			PM
	Cyanide	1.0	U		AS

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

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: LENNON WALLPAPER
Lab Code: Case No.: SAS No.: SDG No.: 69
Matrix (Soil): Lab Sample ID: B204982
Level (Low/Med): Date Received: 4/10/92
% Solids: 79.6

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11100			PM
7440-36-0	Antimony	5.6	U		PM
7440-38-2	Arsenic	19.9		S,N	FM
7440-39-3	Barium	1430			PM
7440-41-7	Beryllium	1.1			PM
7440-43-9	Cadmium	3.9			PM
7440-70-2	Calcium	58800			PM
7440-47-3	Chromium	32.7			PM
7440-48-4	Cobalt	9.32			PM
7440-50-8	Copper	94.9			PM
7439-89-6	Iron	44100			PM
7439-92-1	Lead	493			FM
7439-95-4	Magnesium	29900			PM
7439-96-5	Manganese	950			PM
7439-97-6	Mercury	0.23			AS
7440-02-2	Nickel	24.6			PM
7440-09-7	Potassium	2590			PM
7782-49-2	Selenium	0.67	U	W,N	FM
7440-22-4	Silver	3.0			PM
7440-23-5	Sodium	244	B		PM
7440-28-0	Thallium	2.0	U		FM
7440-62-2	Vanadium	22.6			PM
7440-66-6	Zinc	1150			PM
	Cyanide	1.0			AS

Color Before: Black Clarity Before: Opaque Texture: Fine
Color After: Yel;low Clarity After: Clear Artifacts:
Comments: