1197 030 5004 - Will County
Illiana Scrap Processing / Crete
ILD 984 731 673
Superfund - Technical Reports

CERCLA

Screening Site Inspection Analytical Results

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

RELEASED
DATE 10/22/96
RIN # 2947-96
INITIALS

EPA Region 5 Records Ctr.
328301

Confidential Material May be Enclosed

Printed on Recycled Paper

APPENDIX G

Analytical Results of April 29, 1992
Screening Site Inspection Samples
Analyzed for Target Compound List Parameters

L197 030 5004 - Will County
Illiana Scrap Processing / Crete
ILD 984 791 673
Superfund - Technical Reports

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Date: August 24, 1992

Subject: Review of CLP Data

From: Ron Turpin
Contract Laboratories Administrator
Division of Laboratories

To: Data User: Bruce Ford

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

SITE NAME: Illiana Scrap

CASE/SDG No.: 216600 / 73

Date(s) Received for Review: 31-jul-92 8-jul-92

No. of Samples: 11 soils, 4 waters, 1 trip

Laboratory(s): IEPA

Hours Used for Review: D 27 + I 13 = 40

Reviewer(s): Alicia Mudd
Chris Bridges

The following narrative represents our findings:

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

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IEPA/DLPC

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

cc: Karl Reed
Tom Crause

Data Validation Checklist
Site Name: Illinois Scrap
SDG
No.: 216600
Laboratory: IEPA
Page 19 of 49

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 instrument(s).

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

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

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

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

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

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

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

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

Comments:

_____

_____

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: Illinois Scrap

Instrument # INC506	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	5/19/92 1456			5/20/92 920			5/21/92 845								
		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		37.8	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					50.9	J		26.8	J						
Acenaphthene	0.800															
2,4-Dinitrophenol	0.010															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

AFFECTED SAMPLES:

SBLKW
G201
G202
G203
G204
G203MS
G203MSD

G204RE

Reviewer's Initials/Date: AW 8/10/92

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: Deliana Scrap

Instrument #	INC50D	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:		RRF	5/19/92 1456			5/20/92 920			5/21/92 845								
			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															
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															
Benzo(a)anthracene		0.800															
Chrysene		0.700															
bi[illegible]Ethylhexyl)phthalate		0.010															
[illegible]-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

8/10/92

SEMIVOLATILE CALIBRATION OUTLIERS

Page 1

Lab Name: IEPA

Case: Illiana Scrap

Instrument # FINN	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	6/11/92 1259			6/11/92 1828			6/12/92 915								
		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								25.8	J						
Naphthalene	0.700															
4-Chloroaniline	0.010		32.8	J												
Hexachlorobutadiene	0.010					25.6	J		34.4	J						
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								26.5	J						
2-Chloronaphthalene	0.800															
2-Nitroaniline	0.010															
Dimethylphthalate	0.010															
Acenaphthylene	1.300															
2,6-Dinitrotoluene	0.200															
3-Nitroaniline	0.010	.032	47.8	J		137.5	J		109.4	J						
Acenaphthene	0.800															
2,4-Dinitrophenol	0.010															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

AFFECTED SAMPLES:

SBLKSL
X101
X102
X103
X104
X112
X108
X105

X105RE
X106
X113MS
X113MSD

Reviewer's Initials/Date: AM 8/18/92

3/92

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

SEMIVOLATILE CALIBRATION OUTLIERS

Page 2

'a. ..ame: IEPA

Case: Silvana Scrap

Instrument # FINN	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	6/11/92 1259			6/11/92 1828			6/12/92 915								
		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					79.6	J		25.9	J						
4,6-Dinitro-2-methylphenol	0.010															
N-Nitrosodiphenylamine (1)	0.010															
4-Bromophenyl-ethylether	0.100															
Hexachlorobenzene	0.100															
Pentachlorophenol	0.050								32.2	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								27.7	J						
Benzo(a)anthracene	0.800															
Chrysene	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															
2,4,6-Tribromophenol									32.7	J						

3/92

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

SEE PAGE 1 FOR AFFECTED SAMPLES

Reviewer's
Initi ..ate

8/18/92

SEMIVOLATILE CALIBRATION OUTLIERS

Page 1

Lab Name: IEPA

Case: Illinois Scrap

Instrument # XL	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	6/23/92 1401			6/24/92 944											
		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					36.8	J									
2,4,6-Trichlorophenol	0.200															
2,4,5-Trichlorophenol	0.200															
2-Chloronaphthalene	0.800															
2-Nitroaniline	0.010					25.4	J									
Dimethylphthalate	0.010															
Acenaphthylene	1.300															
2,6-Dinitrotoluene	0.200															
3-Nitroaniline	0.010															
Acenaphthene	0.800															
2,4-Dinitrophenol	0.010															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

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AFFECTED SAMPLES:

X113
X109
X107

Reviewer's Initials/Date Am 8/10/92

3/92

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

IEPA - CLP
CHAIN OF CUSTODY

L216611

Seal # 7379

Date Sealed: 4/28/92 By: RKM

Facility Name : ILLIANA SCRAP
Region: MAYWOOD
County: WILL

Site Inventory # : 1970305004
Site Billing Code: SA06-650
Project Manager : BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
L216611	G201	4-29-92	12:50pm

Sample Appearance : clear

Collector Comments:

Sampler Signature : Lee Kerwin Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	1	40ml		VOA	N	4.29.92	12:50pm
2	3	80oz		BNA	N	↓	↓
2	4	80oz		PESTICIDE/PCB	N	↓	↓

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Bruce Ford Signature: Bruce Ford

Date: 4-29-92 Time: 12:20pm Seal #: 7379 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Bruce Ford Signature: Bruce Ford

Date: 4-29-92 Time: 1:15pm Seal # 7380

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards
MARILYN MOORE Marilyn Moore

Date: 4-30-92 Time: 10:30AM Seal #: 7380 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

IEPA - CLP
CHAIN OF CUSTODY

L215512

Seal # 7377

Date Sealed: 4/28/92 By: RKM

Facility
Name : ILLIANA SCRAP
Region: MAYWOOD
County: WILL

Site Inventory # : 1970305004
Site Billing Code: SA06-650
Project Manager : BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
L215512	6202	4-29-92	4:40pm

Sample Appearance :

Collector Comments: Private Water Well

Sampler Signature : [signature] Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	1	40ml		VOA	N	4-29-92	4:40pm
2	3	80oz		BNA	N	↓	↓
2	4	80oz		PESTICIDE/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Bruce Ford Signature: [signature]

Date: 4-29-92 Time: 4:20pm Seal #: 7377 Intact? (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Bruce Ford Signature: [signature]

Date: 4-29-92 Time: 4:55pm Seal # 7378

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: Bruce Ford

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: [signature]
MARILYN MOORE [signature]

Date: 4-30-92 Time: 10:30AM Seal #: 7378 Intact? (Y) / N

Lab Name: Springfield IEPA Comments:

IEPA - CLP
CHAIN OF CUSTODY

L216613

Seal # 7399

Date Sealed: 4/28/92 By: RKM

Facility Name : ILLIANA SCRAP
Region: MAYWOOD
County: WILL

Site Inventory # : 1970305004
Site Billing Code: SA06-650
Project Manager : BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
L216613	G 203	4-29-92	5:35pm

Sample Appearance : "clear"

Collector Comments:

Sampler Signature : Gregory W. D— Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	1	40ml		VOA	N	4-29-92	5:35pm
2	3	8oz		BNA	N	↓	↓
2	4	8oz		PESTICIDE/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Bruce Ford Signature: Bruce Ford

Date: 4-29-92 Time: 5:05pm Seal #: 7399 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Bruce Ford Signature: Bruce Ford

Date: 4-29-92 Time: 5:45pm Seal # 7400

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: Bruce Ford

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Marilyn Moore Marilyn Moore

Date: 4-30-92 Time: 10:30AM Seal #: 7400 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

IEPA - CLP
CHAIN OF CUSTODY

L216614

Seal # 7461

Date Sealed: 4/28/92 By: Rich

Facility
Name : ILLIANA SCRAP
Region: MAYWOOD
County: WILL

Site Inventory # : 1970305004
Site Billing Code: SA06-650
Project Manager : BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
L216614	S 204	4-29-92	12:50 pm

Sample Appearance : clear

Collector Comments:

Sampler Signature : Hugh W. D. Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	1	40ml		VOA	N	4-29-92	12:50 pm
2	3	8oz		BNA	N	↓	↓
2	4	8oz		PESTICIDE/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Bruce Ford Signature: Bruce Ford

Date: 4-29-92 Time: 12:20 pm Seal #: 7461 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Bruce Ford Signature: Bruce Ford

Date: 4-29-92 Time: 1:15 pm Seal # 7462

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: Bruce Ford

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS MARILYN MOORE Signature: Harvey Edwards Marilyn Moore

Date: 4-30-92 Time: 10:30 AM Seal #: 7462 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

L216614

IEPA - CLP
CHAIN OF CUSTODY

L216615

Seal # 7399

Date Sealed: 4/28/92 By: RKM

Facility
Name: ILLIANA SCRAP
Region: MAYWOOD
County: WILL

Site Inventory # : 1970305004
Site Billing Code: SA06-650
Project Manager : BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
L216615	Trip Blank	4-29-92	—

Sample Appearance : —

Collector Comments: —

Sampler Signature : — Division/Company —

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	15	40ml		TRIP BLANK	N/A		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Bruce Ford Signature: [signature]

Date: 4-29-92 Time: 5:05pm Seal #: 7399 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Bruce Ford Signature: [signature]

Date: 4-29-92 Time: 5:45pm Seal # 7400

Courier - Sample Pickup: EPA Personnel

Courier - Sample Delivery: Bruce Ford

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Harvey Eduardo Signature: Harvey Eduardo
Marilyn Moore Marilyn Moore

Date: 4-30-92 Time: 10:30AM Seal #: 7400 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments: —

L216615

IEPA - CLP
CHAIN OF CUSTODY

D216600

Seal # 7455

Date Sealed: 4/28/92 By: RKM

Facility
Name : ILLIANA SCRAP
Region: MAYWOOD
County: WILL

Site Inventory # : 1970305004
Site Billing Code: SA06-650
Project Manager : BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
D216600	X101	4-29-92	8:55 AM

Sample Appearance : 1"-4" deep Brown silty loam

Collector Comments:

Sampler Signature : Gregory W. D— Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N	4-29-92	8:55
1	10	32oz		BNA,PEST/PCB	N	" "	

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Bruce Ford Signature: Bruce Ford

Date: 4-29-92 Time: 8:46 Seal #: 7455 Intact?: (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Bruce Ford Signature: Bruce Ford

Date: 4-29-92 Time: 8:15pm Seal # 7456

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: Bruce Ford

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS / MARILYN MOORE Signature: Harvey Edwards / Marilyn Moore

Date: 4/30/92 Time: 10:30AM Seal #: 7456 Intact: (Y) N

Lab Name: Springfield IEPA Comments: D216600

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7455

Date Sealed: 4/28/92 By: Rkm

Facility Name : ILLIANA SCRAP
Region: MAYWOOD
County: WILL

Site Inventory # : 1970305004
Site Billing Code: SA06-650
Project Manager : BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
[illegible]	X102	4-29-92	4:00 pm

Sample Appearance : 0'-4' deep black silty loam

Collector Comments:

Sampler Signature : [signature] Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N	4-29-92	4 pm
1	10	32oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Bruce Ford Signature: [signature]

Date: 4-29-92 Time: 8:46AM Seal #: 7455 Intact?: Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Bruce Ford Signature: [signature]

Date: 4-29-92 Time: 8:15pm Seal # 7456

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: Bruce Ford

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards
Marilyn Moore Marilyn Moore

Date: 4/30/92 Time: 10:30AM Seal #: 7456 Intact?: Y / N

Lab Name: Springfield IEPA Comments:

IEPA - CLP
CHAIN OF CUSTODY

D216602

Seal # 7455

Date Sealed: 4/28/92 By: RKM

Facility
Name : ILLIANA SCRAP
Region: MAYWOOD
County: WILL

Site Inventory # : 1970305004
Site Billing Code: SA06-650
Project Manager : BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
D216602	X103	4-29-92	6:05 pm

Sample Appearance : 1"-3" deep dk brown silty/loam w/ some sand

Collector Comments:

Sampler Signature : [signature] Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N	4-29-92	6:05 pm
1	10	32oz		BNA,PEST/PCB	N	"	"

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Bruce Ford Signature: [signature]

Date: 4-29-92 Time: 8:46AM Seal #: 7455 Intact?: (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Bruce Ford Signature: [signature]

Date: 4-29-92 Time: 8:15pm Seal # 7456

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: Bruce Ford

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: [signature]

Marilyn Moore [signature]

Date: 4/30/92 Time: 10:30AM Seal # 7456 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

IEPA - CLP
CHAIN OF CUSTODY

D216603

Seal # 7455

Date Sealed: 4/28/92 By: RICM

Facility ID: D216603
Name : ILLIANA SCRAP
Region: MAYWOOD
County: WILL

Site Inventory # : 1970305004
Site Billing Code: SA06-650
Project Manager : BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
D216603	X104	4-29-92	6:50 pm

Sample Appearance : 1'-6" deep dk brown silty loam

Collector Comments:

Sampler Signature : [signature] Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N	4-29-92	6:50pm
1	10	32oz		BNA,PEST/PCB	N	"	"

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Bruce Ford Signature: [signature]

Date: 4-29-92 Time: 8:46AM Seal #: 7455 Intact?: (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Bruce Ford Signature: [signature]

Date: 4-29-92 Time: 8:15pm Seal # 7456

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: Bruce Ford

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Marilyn Moore Marilyn Moore

Date: 4/30/92 Time: 10:30AM Seal #: 7456 Intact?: (Y) N

Lab Name: Springfield IEPA Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7455

Date Sealed: 4/28/92 BY: Rich

Facility
Name : ILLIANA SCRAP
Region: MAYWOOD
County: WILL

Site Inventory # : 1970305004
Site Billing Code: SA06-650
Project Manager : BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
216604	X105	4-29-92	7:10pm

Sample Appearance : thick black clayish material sat. w/HC mat'l.

Collector Comments:

Sampler Signature : [signature] Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N	4-29-92	7:10pm
1	10	32oz		BNA,PEST/PCB	N	"	"

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Bruce Ford Signature: [signature]

Date: 4-29-92 Time: 8:46AM Seal #: 7455 Intact? (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Bruce Ford Signature: [signature]

Date: 4-29-92 Time: 8:15pm Seal # 7456

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: Bruce Ford

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Harvey Edwards Signature: [signature]

Date: 4-30-92 Time: 10:30AM Seal # 7456 Intact? (Y) N

Lab Name: Springfield IEPA Comments:

IEPA - CLP
CHAIN OF CUSTODY

216605

Seal # 7455

Date Sealed: 4/28/92 By: RKM

Facility Name : ILLIANA SCRAP
Region: MAYWOOD
County: WILL

Site Inventory # : 1970305004
Site Billing Code: SA06-650
Project Manager : BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
216605	X106	4-29-92	9:50 AM

Sample Appearance : 0'-5' deep Black to grey silty clay

Collector Comments: "Organic decay smell"

Sampler Signature : [signature] Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N	4-29-92	9:50A
1	10	32oz		BNA,PEST/PCB	N	" "	"

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Bruce Ford Signature: [signature]

Date: 4-29-92 Time: 8:46 AM Seal #: 7455 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Bruce Ford Signature: [signature]

Date: 4-29-92 Time: 8:15pm Seal # 7456

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: Bruce Ford

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: [signature]
MARILYN MOORE [signature]

Date: 4-30-92 Time: 10:30AM Seal #: 7456 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

IEPA - CLP
CHAIN OF CUSTODY

D216606

Seal # 7457
Date Sealed: 4/28/92 By: RKM

Facility
Name : ILLIANA SCRAP
Region: MAYWOOD
County: WILL

Site Inventory # : 1970305004
Site Billing Code: SA06-650
Project Manager : BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
D216606	X107	4-29-92	10:20 AM

Sample Appearance : 6"-8" deep black fill, fine grained w/ some cinders present

Collector Comments:

Sampler Signature : [signature] Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N	4-29-92	10:20A
1	10	32oz		BNA,PEST/PCB	N	" "	" "

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Bruce Ford Signature: [signature]

Date: 4-29-92 Time: 10:11AM Seal #: 7457 Intact: (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Bruce Ford Signature: [signature]

Date: 4-29-92 Time: 2:10 pm Seal # 7458

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: Bruce Ford

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Harry Edwards Marilyn Moore Signature: [signature] [signature]

Date: 4-30-92 Time: 10:30AM Seal #: 7458 Intact: (Y) N

Lab Name: Springfield IEPA Comments:

IEPA - CLP
CHAIN OF CUSTODY

D216607

Seal # 7457

Date Sealed: 4/28/42 By: RKM

Facility Name : ILLIANA SCRAP
Region: MAYWOOD
County: WILL

Site Inventory # : 1970305004
Site Billing Code: SA06-650
Project Manager : BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
D216607	X108	4-29-92	11:30AM

Sample Appearance : 0"-6" deep Black silty loam

Collector Comments:

Sampler Signature : Bruce W. [illegible] Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N	4-29-92	11:30A
1	10	32oz		BNA,PEST/PCB	N	"	"

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Bruce Ford Signature: [illegible]

Date: 4-29-92 Time: 10:11 AM Seal #: 7457 Intact? (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Bruce Ford Signature: [illegible]

Date: 4-29-92 Time: 2:10 pm Seal # 7458

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: Bruce Ford

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Harvey Edwards Signature: Harvey Edwards
Marilyn Moore Marilyn Moore

Date: 4-30-92 Time: 10:30AM Seal # 7458 Intact? (Y) N

Lab Name: Springfield IEPA Comments:

D216607

IEPA - CLP
CHAIN OF CUSTODY

D216608

Seal # 7457

D216607

Date Sealed: 4/28/92 By: RKM

Facility
Name : ILLIANA SCRAP
Region: MAYWOOD
County: WILL

Site Inventory # : 1970305004
Site Billing Code: SA06-650
Project Manager : BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
D216608 / D216607	X109	4-29-92	1:40 pm

Sample Appearance : 0"-4" deep black slag/fill material

Collector Comments:

Sampler Signature : [signature] Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N	4-24-92	1:40 pm
1	10	32oz		BNA,PEST/PCB	N	"	"

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Bruce Ford Signature: [signature]

Date: 4-29-92 Time: 10:11 AM Seal #: 7457 Intact?: Y N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Bruce Ford Signature: [signature]

Date: 4-29-92 Time: 2:10 pm Seal # 7458

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: BRUCE FORD

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: [signature]
MARILYN MOORE [signature]

Date: 4-30-92 Time: 10:30 AM Seal #: 7458 Intact?: Y N

Lab Name: Springfield Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7457
Date Sealed: 4/28/92 By: RKM

Facility Name : ILLIANA SCRAP
Region: MAYWOOD
County: WILL

Site Inventory # : 1970305004
Site Billing Code: SA06-650
Project Manager : BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
	X112	4-29-92	11:00 AM

Sample Appearance : Black silty loam 0"-4" deep

Collector Comments:

Sampler Signature : Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N	4-29-92	11:00 A
1	10	32oz		BNA.PEST/PCB	N	"	"

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Bruce Ford Signature: Bruce Ford

Date: 4-29-92 Time: 10:11 AM Seal #: 7457 Intact?: Y N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Bruce Ford Signature: Bruce Ford

Date: 4-29-92 Time: 2:10 pm Seal # 7458

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: Bruce Ford

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: HARVEY EDWARDS
MARILYN MOORE Marilyn S. Moore

Date: 4-30-92 Time: 10:30 AM Seal #: 7458 Intact?: Y N

Lab Name: Springfield Comments:

IEPA - CLP
CHAIN OF CUSTODY

E216610

Seal # 7457

Date Sealed: 4/28/92 By: RKM

Facility
Name : ILLIANA SCRAP
Region: MAYWOOD
County: WILL

Site Inventory # : 1970305004
Site Billing Code: SA06-650
Project Manager : BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
[illegible]	X113	4-29-92	1:40 pm

Sample Appearance : 0'-4" deep black slag fill material

Collector Comments:

Sampler Signature : [signature] Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N	4-29-92	1:40pm
1	10	32oz		BNA.PEST/PCB	N	"	"

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Bruce Ford Signature: [signature]

Date: 4-29-92 Time: 10:11 AM Seal #: 7457 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Bruce Ford Signature: [signature]

Date: 4-29-92 Time: 2:10pm Seal # 7458

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: Bruce Ford

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Mary Harvey Edwards Signature: [signature]

Date: 4-30-92 Time: 10:30AM Seal #: 7458 Intact?: (Y) N

Lab Name: Springfield Comments:

Data Validation Checklist
Site Name: Alliana Scrap
SDG
No.: 216600
Laboratory: IEPA
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PRELIMINARY REVIEW

1. *Chain-of-Custody*

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

Comments:

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: Allison Scrap
SDG No.: 216600
Laboratory: IEPA
Page 2 of 49

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.
G201	D216611	4/29/92	4/30/92	5/1/92	5/4/92	5/20/92	5/4/92	6/12/92
G202	-612	4/29	4/30	5/1	5/4	5/20	5/4	6/12
G202RE	-612	4/29	4/30	5/1	—	—	—	—
G203	-613	4/29	4/30	5/1	5/4	5/20	5/4	6/12
G204	-614	4/29	4/30	5/1	5/4	5/20	5/4	6/12
G204RE	-614	4/29	4/30	—	5/4	5/21	—	—
VBLKTB	-615	4/29	4/30	5/1	—	—	—	—
X101	-600	4/29	4/30	5/6	5/7	6/11	5/7	6/14
X102	-601	4/29	4/30	5/6	5/7	6/11	5/7	6/14
X103	-602	4/29	4/30	5/4	5/7	6/12	5/7	6/14
X104	-603	4/29	4/30	5/6	5/7	6/12	5/7	6/14
X104RE	-603	4/29	4/30	5/6	—	—	—	—
X105	-604	4/29	4/30	5/4	5/7	6/12	5/7	6/14
X105RE	-604	4/29	4/30	5/6	5/7	6/12	—	—
X106	-605	4/29	4/30	5/4	5/7	6/12	5/7	6/14
X107	-606	4/29	4/30	5/5	5/7	6/24	5/7	6/14
X107RE	-606	4/29	4/30	5/5	—	—	—	—
X107DL	-606	4/29	4/30	5/6	—	—	—	—
X108	-607	4/29	4/30	5/5	5/7	6/12	5/7	6/14
X109	-608	4/29	4/30	5/5	5/7	6/24	5/7	6/14
X109RE	-608	4/29	4/30	5/5	—	—	—	—

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

VOA - OK
SV- Samples X107, X109 + X113 analyses 48 days from extraction exceeds contractual H.T.
Pest- OK

Data Validation Checklist
Site Name: Alliance Scrap
SDG
No.: 216600
Laboratory: IEPA
Page 3 of 49

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.
X109DL	D216608	4/29/92	4/30/92	5/6/92	—	—	—	—
X112	-609	4/29	4/30	5/5	5/7/92	6/12/92	5/7/92	6/14/92
X113	-610	4/29	4/30	5/5	5/7	6/24	5/7	6/14
X113RE	-610	4/29	4/30	5/5	—	—	—	—
X113DL	-610	4/29	4/30	5/6	—	—	—	—

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

Data Validation Checklist
Site Name: Illiana Scrap
SDG
No.: 216600
Laboratory: IEPA
Page 4 of 49

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 instrument(s).

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

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

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

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

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

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

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

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

Comments:

_____

_____

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: Allison Scrap

Instrument # 5100B	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	4/24/92 1154			5/1/92 1403											
non-heated purge		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															
[illegible]-Dichloropropane	0.010															
[illegible]-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
G201
G202
G203
G204
G202RE
VBLKTB
G201MS
G201MSD

Reviewer's Initials/Date: AM 8/10/92

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: Dellana Scrap

Instrument # 5100	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	4/22/92 1248			5/4/92 1532			5/5/92 0940			5/6/92 0936					
heated purge		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Chloromethane	0.010					51.5	J		48.8	J						
Bromomethane	0.100															
Vinyl Chloride	0.100															
Chloroethane	0.010															
Methylene Chloride	0.010					33.0	J		49.5	J						
Acetone	0.010		60.6	J												
Carbon Disulfide	0.010															
1,1-Dichloroethene	0.100					31.5	J									
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															
1,2-Dichloropropane	0.010															
cis-1,3-Dichloropropene	0.200															
Trichloroethene	0.300															
Dibromochloromethane	0.100					25.4	J									
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
X105	X107	X101
X106	X109	X102
X103	X112	X104
	X113	X107DL
	X108	X109DL
	X107RE	X113DL
	X109RE	X104RE
	X113RE	X101MS
		X101MSD
		X105RE

Reviewer's Initials/Date: cm 8/10/92

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

Data Validation Checklist
Site Name: Allied Scrap
SDG No.: 216600
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.	5/1/92	5/4/92	5/5/92	5/6/92
Instrument	5100B	5100	5100	5100

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount
		$MeCl_2$	9				

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

Data Validation Checklist
Site Name: Alliana Scrap
SDG
No.: 216600
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:
G202 1,2-Dichloroethane d4 high % R
G202RE 1,2 Dichloroethane d4 high % R
G201MSD 1,2 Dichloroethane d4 high % R

X105 BFB high % R
X105RE BFB high % R
X107RE Toluene d8 high % R

4.) Use G202 instead of G202RE.
Use X104 instead of X104RE.
Use X105RE instead of X105.
Use X107 instead of X107RE.
Use X109 instead of X109RE.
Use X113 instead of X113RE.

Data Validation Checklist
Site Name: Alliana Group
SDG No.: 216600
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
G201 - no nonspiked	compounds	detected		
X101				
Methylene Chloride	100	31	26	79%

Comments:
X101MS + MSD - 1,1 Dichloroethene low %R, high RPD

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: Illiana Scrap
SDG No.: 216600
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:
- X107 - all 3 i.s. low areas
- X107RE - all 3 i.s low areas
- X109 all 3 i.s. low areas
- X109RE all 3 i.s. low areas
- X113 all 3 i.s. low areas
- X113RE all 3 i.s. low areas
- X104 Chlorobenzene ds low area
- X104RE Chlorobenzene ds low area
- X107DL 1,4 Difluorobenzene + Chlorobenzene ds low areas
- X109DL Chlorobenzene ds low area
- X113DL Chlorobenzene ds low area

Data Validation Checklist
Site Name: Allison Scrap
SDG
No.: 216600
Laboratory: IEPA
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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:

SEMIVOLATILE CALIBRATION OUTLIERS

Page 2

Lab Name: IEPA

Case: Delaware Scrap

Instrument # XL	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	6/23/92 1401			6/24/92 944											
		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					64.6	J									
4,6-Dinitro-2-methylphenol	0.010															
N-Nitrosodiphenylamine (1)	0.010					28.6	J									
4-Bromophenyl-ethylether	0.100															
Hexachlorobenzene	0.100					26.9	J									
Pentachlorophenol	0.050															
Phenanthrene	0.700															
Anthracene	0.700															
Carbazole	0.010					38.7	J									
Di-n-butylphthalate	0.010															
Fluoranthene	0.600					35.9	J									
Pyrene	0.600		32.7	J												
Butylbenzylphthalate	0.010															
3,3'-Dichlorobenzidine	0.010					67.1	J									
Benzo(a)anthracene	0.800															
Chrysene	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					25.9	J									
Benzo(g,h,i)perylene	0.500															
Nitrobenzene-d5	0.200															
2-Fluorobiphenol	0.700															
Terphenyl-d14	0.500		31.2	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															
2,4,6 Tribromophenol						27.0	J									

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

8/10/92

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. No method blk. for instrument XL.

Blank Summary

Blank Sample No.	SBLKW	SBLK5L	GPCBLK1	GPCBLK2
Date Anal. or Extr.	5/4 5/20	5/7 6/11	5/7 6/11	5/7 6/11
Instrument	INC 500	FINN	FINN	FINN

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount
		Di-n-Bu	220			bis(2Eh)	110

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

see next pages for TICs

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
p 29 of 49
SBLKW

La. Name: ILLINOIS EPA Contract: 1970305004

.b Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) WATER Lab Sample ID: D216786

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0520W03

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/20/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 25

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNK. TRICHLOROPROPENE	9.00	11	J
. 872-53-7	CYCLOPENTANECARBOXALDEHYDE	9.22	7	JN
3.	UNKNOWN	9.65	68	J
4.	UNK. TRICHLOROPROPENE	9.99	12	J
5.	UNKNOWN ALIP. ALCOHOL	10.39	17	AJ
6.	UNK. CHLOROCYCLOHEXENE	10.55	5	J
7.	UNK. CHLOROCYCLOHEXENE	10.94	81	J
8.	UNK. TETRACHLOROETHANE	10.99	11	J
9.	UNK. CYCLOHEXENONE	11.47	7	AJ
10.	UNK. TRICHLOROPROPENE	11.89	120	J
11.	UNKNOWN	12.20	4	J
12.	UNKNOWN	14.09	5	J
13.	UNKNOWN	14.27	8	J
14.	UNKNOWN	15.24	6	J
15.	UNKNOWN	15.35	3	J
16.	UNKNOWN	16.10	44	J
17.	UNKNOWN	16.19	5	J
18.	UNKNOWN	18.87	26	J
19.	UNKNOWN	19.27	22	J
20.	UNKNOWN	19.99	7	J
21.	UNKNOWN	21.44	5	J
22.	UNKNOWN	24.24	5	J
23.	UNKNOWN	27.22	4	J
24.	UNKNOWN	27.39	5	J
25.	UNKNOWN	33.29	2	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
p 30 of 49
SBLKSL

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216975

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A0611T04

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/11/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 9

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.08	47	J
2.	UNKNOWN ALIPHATIC KETONE	8.95	7300	AJ
3.	UNKNOWN	10.60	3	J
4.	UNKNOWN	11.32	3	J
5.	UNKNOWN	11.62	5000	J
6.	UNKNOWN	13.19	190	J
7.	UNKNOWN PHTHALATE	26.39	3	J
8.	UNKNOWN ALIPHATIC ACID	27.31	4	J
9.	UNKNOWN ALIP. ACID ESTER	32.02	610	J

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:
- all surrogates OK

4) Use G204RE instead of G204.
Use X105 instead of X105RE.

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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
G203 - no non-spiked compounds detected				
X113 Naphthalene	970	800	740	14%
2-Methylnaphthalene	1600	1300	1400	11%
Phenanthrene	3600	3100	2500	18%
Fluoranthene	2000	2500	2000	13%
Benzo(a)Anthracene	1200	900	860	19%
Chrysene	2300	1900	1900	11%

Comments: Benzo(b)Fluoranthene 5000 U U —
Indeno(1,2,3-cd)Pyrene 3200 98 U —
Benzo(g,h,i)Perylene 3800 U 230 —

X113 MSD 2,4-Dinitrotoluene high %R
X113 MS/MSD Pyrene high RPD

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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:
- X105 - Acenaphthene d10, Phenanthrene d10, Chrysene d12, + Perylene d12 all high areas
- X105RE - same as original sample above
- X113MS/MSD - all int stds. low areas
- G204 - all int. stds a low areas (except Perylene d12 no area or R.T. reported)
- G204RE - Phenanthrene d10, Chrysene d12, + Perylene d12 low areas

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:
Sample X105RE - Scan #'s & R.T. from spectra do not match up with Quant Report for TIC's # 10, 11, & 12 on the Form 1. Also, there is an extra spectrum included for RT ~ 25.48.
Sample X107 - Scan # & R.T. from spectrum does not match up with Quant Report for TIC# 28 on Form 1.
Sample X112 - Scan # & R.T. from spectrum does not match up with Quant Report for TIC# 26 on Form 1.

1,1,2,2-Tetrachloroethane (VOA target compound) is reported as a TIC in samples SBLKW
G201
G202
G203

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:

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:

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:

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.

All instrument blks OK.

Blank Summary

Blank Sample No.	PBLKW1	PBLKS1		
Date Anal. or Extr.	5/4 6/12	5/7 6/15		
Instrument	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					

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VI. Surrogate Spikes

Pesticides

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

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

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

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

3 ***Evaluate Possible Interferences.***

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

4. ***Evaluate Retention Times.***

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

5. ***Evaluate Any Low Recoveries.***

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

6. ***Evaluate Surrogate Analyses in Blanks.***

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

Comments:
Water samples (including PBLKW) TCX 10 ng/2 R both col.
See next page.

Pest Surrogates:

PBLKW1	TCX (both col) low % R
	DCB (DB 1701) low % R
G201	TCX (both col) low % R
	DCB (DB 608) low % R
G202	TCX (both col) low % R
	DCB (DB 1701) low % R
G203	TCX + DCB (both col) low % R
G204	TCX (both col) low % R
	DCB (DB 1701) low % R
G204MS/MSD	TCX (both col) low % R
	DCB (DB 1701) low % R
X105	TCX (DB 1701) high % R
X106	DCB (DB 608) 0 % R
X109	DCB (DB 608) 0 % R
X113	DCB (DB 608) high % R

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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.

X112

Compound	Orig. Result	MS Result	MSD Result	%RSD
4,4-DDE	3.4	2.1	4.1	32%
Endosulfan II	2.0	3.2	1.8	32%
G204 - No nonspiked compounds detected.				

Comments:
X112MSD - gamma BHC, Heptachlor, Endrin, + 4,4 DDT high %Rs
X112 MS/MSD - Dieldrin high RPD

G204MS - gamma BHC low %R
G204MSD/MS - gamma BHC, Dieldrin, + Endrin high RPD

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:
1b.) 4,4DDT + TCX slightly high %R
2b) Endrin + 4,4 DDT slightly high %R
No Aroclor patterns in GPC calib. check mixture analysis.

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:

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:

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.

ar

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G201

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) WATER Lab Sample ID: D216611

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0501LC08

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/01/92

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.

G201

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) WATER Lab Sample ID: D216611

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0501LC08

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. _____ Date Analyzed: 05/01/92

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G202

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) WATER Lab Sample ID: D216612

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0501LC09

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/01/92

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.

G202

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) WATER Lab Sample ID: D216612

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0501LC09

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/01/92

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G203

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) WATER Lab Sample ID: D216613

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0501LC10

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/01/92

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.

G203

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) WATER Lab Sample ID: D216613

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0501LC10

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/01/92

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G204

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) WATER Lab Sample ID: D216614

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0501LC11

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/01/92

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.

G204

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) WATER Lab Sample ID: D216614

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0501LC11

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/01/92

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKTB

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) WATER Lab Sample ID: D216615

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0501LC14

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/01/92

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	3	J
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: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) WATER Lab Sample ID: D216615

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0501LC14

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/01/92

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216600

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0506BK05

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 24 Date Analyzed: 05/06/92

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	100	
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	7	J
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.

X101

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216600

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0506BK05

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 24 Date Analyzed: 05/06/92

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216601

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0506BK06

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 22 Date Analyzed: 05/06/92

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216601

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0506BK06

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 22 Date Analyzed: 05/06/92

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216602

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0504GK08

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 21 Date Analyzed: 05/04/92

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	U	
75-01-4	Vinyl Chloride	13	U	
75-00-3	Chloroethane	13	U	
75-09-2	Methylene Chloride	81	~~B~~ UJ	am
67-64-1	Acetone	13	U	
75-15-0	Carbon Disulfide	13	U	
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	U	
71-55-6	1,1,1-Trichloroethane	13	U	
56-23-5	Carbon Tetrachloride	13	U	
75-27-4	Bromodichloromethane	13	U	
78-87-5	1,2-Dichloropropane	13	U	
10061-01-5	cis-1,3-Dichloropropene	13	U	
79-01-6	Trichloroethene	13	U	
124-48-1	Dibromochloromethane	13	UJ	
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	5	J	
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: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216602

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0504GK08

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 21 Date Analyzed: 05/04/92

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216603

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0506BK07

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 25 Date Analyzed: 05/06/92

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	140	
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	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	9	J
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.

X104

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216603

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0506BK07

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 25 Date Analyzed: 05/06/92

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105RE

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216604RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0506GK03

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 44 Date Analyzed: 05/06/92

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	18	U
74-83-9	Bromomethane	18	U
75-01-4	Vinyl Chloride	18	U
75-00-3	Chloroethane	18	U
75-09-2	Methylene Chloride	150	
67-64-1	Acetone	62	J
75-15-0	Carbon Disulfide	18	U
75-35-4	1,1-Dichloroethene	18	U
75-34-3	1,1-Dichloroethane	18	U
540-59-0	1,2-Dichloroethene (total)	18	U
67-66-3	Chloroform	18	U
107-06-2	1,2-Dichloroethane	18	U
78-93-3	2-Butanone	58	
71-55-6	1,1,1-Trichloroethane	18	U
56-23-5	Carbon Tetrachloride	18	U
75-27-4	Bromodichloromethane	18	U
78-87-5	1,2-Dichloropropane	18	U
10061-01-5	cis-1,3-Dichloropropene	18	U
79-01-6	Trichloroethene	18	U
124-48-1	Dibromochloromethane	18	U
79-00-5	1,1,2-Trichloroethane	18	U
71-43-2	Benzene	18	U
10061-02-6	trans-1,3-Dichloropropene	18	U
75-25-2	Bromoform	18	U
108-10-1	4-Methyl-2-Pentanone	18	U
591-78-6	2-Hexanone	18	U
127-18-4	Tetrachloroethene	18	U
79-34-5	1,1,2,2-Tetrachloroethane	18	U
108-88-3	Toluene	9	J
108-90-7	Chlorobenzene	18	U
100-41-4	Ethylbenzene	18	U
100-42-5	Styrene	18	U
1330-20-7	Xylene (total)	18	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105RE

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216604RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0506GK03

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 44 Date Analyzed: 05/06/92

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

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

Number TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.75	9	J
2.	UNKNOWN	16.40	150	J
3.	UNKNOWN	17.27	82	J
4.	UNKNOWN	17.55	210	J
5.	UNKNOWN	17.70	41	J
6.	UNKNOWN ALIP. HYDROCARBON	17.84	390	J
7.	UNKNOWN	18.30	42	J
8.	UNKNOWN ALIP. HYDROCARBON	18.45	28	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216605

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0504GK05

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 33 Date Analyzed: 05/04/92

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	15	UJ
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	15 8	~~BJ~~ J cm
67-64-1	Acetone	22	J
75-15-0	Carbon Disulfide	15	U
75-35-4	1,1-Dichloroethene	15	UJ
75-34-3	1,1-Dichloroethane	15	U
540-59-0	1,2-Dichloroethene (total)	15	U
67-66-3	Chloroform	15	U
107-06-2	1,2-Dichloroethane	15	U
78-93-3	2-Butanone	15	U
71-55-6	1,1,1-Trichloroethane	15	U
56-23-5	Carbon Tetrachloride	15	U
75-27-4	Bromodichloromethane	15	U
78-87-5	1,2-Dichloropropane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
79-01-6	Trichloroethene	15	U
124-48-1	Dibromochloromethane	15	UJ
79-00-5	1,1,2-Trichloroethane	15	U
71-43-2	Benzene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
75-25-2	Bromoform	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-88-3	Toluene	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
100-42-5	Styrene	15	U
1330-20-7	Xylene (total)	15	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216605

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0504GK05

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 33 Date Analyzed: 05/04/92

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216606

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0505BK04

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 20 Date Analyzed: 05/05/92

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	UJ
75-00-3	Chloroethane	12	UJ
75-09-2	Methylene Chloride	1800	EJ
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	UJ
540-59-0	1,2-Dichloroethene (total)	12	UJ
67-66-3	Chloroform	12	UJ
107-06-2	1,2-Dichloroethane	12	UJ
78-93-3	2-Butanone	12	UJ
71-55-6	1,1,1-Trichloroethane	7	J
56-23-5	Carbon Tetrachloride	12	UJ
75-27-4	Bromodichloromethane	12	UJ
78-87-5	1,2-Dichloropropane	12	UJ
10061-01-5	cis-1,3-Dichloropropene	12	UJ
79-01-6	Trichloroethene	12	UJ
124-48-1	Dibromochloromethane	12	UJ
79-00-5	1,1,2-Trichloroethane	12	UJ
71-43-2	Benzene	12	UJ
10061-02-6	trans-1,3-Dichloropropene	12	UJ
75-25-2	Bromoform	12	UJ
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	38	J
108-90-7	Chlorobenzene	12	UJ
100-41-4	Ethylbenzene	12	UJ
100-42-5	Styrene	12	UJ
1330-20-7	Xylene (total)	6	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216606

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0505BK04

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 20 Date Analyzed: 05/05/92

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	23	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107DL

ab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216606DL

Sample wt/vol: 2.0 (g/mL) G Lab File ID: A0506BK08

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 20 Date Analyzed: 05/06/92

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	31	U
74-83-9	Bromomethane	31	U
75-01-4	Vinyl Chloride	31	U
75-00-3	Chloroethane	31	U
75-09-2	Methylene Chloride	330	
67-64-1	Acetone	31	U
75-15-0	Carbon Disulfide	31	U
75-35-4	1,1-Dichloroethene	31	U
75-34-3	1,1-Dichloroethane	31	U
540-59-0	1,2-Dichloroethene (total)	31	U
67-66-3	Chloroform	31	U
107-06-2	1,2-Dichloroethane	31	U
78-93-3	2-Butanone	31	U
71-55-6	1,1,1-Trichloroethane	31	UJ
56-23-5	Carbon Tetrachloride	31	UJ
75-27-4	Bromodichloromethane	31	UJ
78-87-5	1,2-Dichloropropane	31	UJ
10061-01-5	cis-1,3-Dichloropropene	31	UJ
79-01-6	Trichloroethene	31	UJ
124-48-1	Dibromochloromethane	31	UJ
79-00-5	1,1,2-Trichloroethane	31	UJ
71-43-2	Benzene	31	UJ
10061-02-6	trans-1,3-Dichloropropene	31	UJ
75-25-2	Bromoform	31	UJ
108-10-1	4-Methyl-2-Pentanone	31	UJ
591-78-6	2-Hexanone	31	UJ
127-18-4	Tetrachloroethene	31	UJ
79-34-5	1,1,2,2-Tetrachloroethane	31	UJ
108-88-3	Toluene	9	J
108-90-7	Chlorobenzene	31	UJ
100-41-4	Ethylbenzene	31	UJ
100-42-5	Styrene	31	UJ
1330-20-7	Xylene (total)	31	UJ

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X107DL

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216606DL

Sample wt/vol: 2.0 (g/mL) G Lab File ID: A0506BK08

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 20 Date Analyzed: 05/06/92

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216607

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0505GK03

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 32 Date Analyzed: 05/05/92

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	15	UJ
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	48	J
67-64-1	Acetone	12	J
75-15-0	Carbon Disulfide	15	U
75-35-4	1,1-Dichloroethene	15	U
75-34-3	1,1-Dichloroethane	15	U
540-59-0	1,2-Dichloroethene (total)	15	U
67-66-3	Chloroform	15	U
107-06-2	1,2-Dichloroethane	15	U
78-93-3	2-Butanone	15	U
71-55-6	1,1,1-Trichloroethane	15	U
56-23-5	Carbon Tetrachloride	15	U
75-27-4	Bromodichloromethane	15	U
78-87-5	1,2-Dichloropropane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
79-01-6	Trichloroethene	15	U
124-48-1	Dibromochloromethane	15	U
79-00-5	1,1,2-Trichloroethane	15	U
71-43-2	Benzene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
75-25-2	Bromoform	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-88-3	Toluene	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
100-42-5	Styrene	15	U
1330-20-7	Xylene (total)	15	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216607

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0505GK03

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 32 Date Analyzed: 05/05/92

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216608

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0505BK08

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 18 Date Analyzed: 05/05/92

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	UJ
75-00-3	Chloroethane	12	UJ
75-09-2	Methylene Chloride	1400	EJ
67-64-1	Acetone	55	J
75-15-0	Carbon Disulfide	12	UJ
75-35-4	1,1-Dichloroethene	12	UJ
75-34-3	1,1-Dichloroethane	12	UJ
540-59-0	1,2-Dichloroethene (total)	12	UJ
67-66-3	Chloroform	12	UJ
107-06-2	1,2-Dichloroethane	12	UJ
78-93-3	2-Butanone	79	J
71-55-6	1,1,1-Trichloroethane	12	UJ
56-23-5	Carbon Tetrachloride	12	UJ
75-27-4	Bromodichloromethane	12	UJ
78-87-5	1,2-Dichloropropane	12	UJ
10061-01-5	cis-1,3-Dichloropropene	12	UJ
79-01-6	Trichloroethene	12	UJ
124-48-1	Dibromochloromethane	12	UJ
79-00-5	1,1,2-Trichloroethane	12	UJ
71-43-2	Benzene	4	J
10061-02-6	trans-1,3-Dichloropropene	12	UJ
75-25-2	Bromoform	12	UJ
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	39	J
108-90-7	Chlorobenzene	12	UJ
100-41-4	Ethylbenzene	12	UJ
100-42-5	Styrene	12	UJ
1330-20-7	Xylene (total)	9	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216608

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0505BK08

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 18 Date Analyzed: 05/05/92

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	17	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109DL

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216608DL

Sample wt/vol: 2.0 (g/mL) G Lab File ID: A0506BK09

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 18 Date Analyzed: 05/06/92

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	30	U
74-83-9	Bromomethane	30	U
75-01-4	Vinyl Chloride	30	U
75-00-3	Chloroethane	30	U
75-09-2	Methylene Chloride	490	
67-64-1	Acetone	30	U
75-15-0	Carbon Disulfide	30	U
75-35-4	1,1-Dichloroethene	30	U
75-34-3	1,1-Dichloroethane	30	U
540-59-0	1,2-Dichloroethene (total)	30	U
67-66-3	Chloroform	30	U
107-06-2	1,2-Dichloroethane	30	U
78-93-3	2-Butanone	30	U
71-55-6	1,1,1-Trichloroethane	30	U
56-23-5	Carbon Tetrachloride	30	U
75-27-4	Bromodichloromethane	30	U
78-87-5	1,2-Dichloropropane	30	U
10061-01-5	cis-1,3-Dichloropropene	30	U
79-01-6	Trichloroethene	30	U
124-48-1	Dibromochloromethane	30	U
79-00-5	1,1,2-Trichloroethane	30	U
71-43-2	Benzene	30	U
10061-02-6	trans-1,3-Dichloropropene	30	U
75-25-2	Bromoform	30	U
108-10-1	4-Methyl-2-Pentanone	30	UJ
591-78-6	2-Hexanone	30	UJ
127-18-4	Tetrachloroethene	30	UJ
79-34-5	1,1,2,2-Tetrachloroethane	30	UJ
108-88-3	Toluene	10	J
108-90-7	Chlorobenzene	30	UJ
100-41-4	Ethylbenzene	30	UJ
100-42-5	Styrene	30	UJ
1330-20-7	Xylene (total)	30	UJ

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X109DL

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216608DL

Sample wt/vol: 2.0 (g/mL) G Lab File ID: A0506BK09

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 18 Date Analyzed: 05/06/92

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216609

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0505BK10

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 31 Date Analyzed: 05/05/92

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	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	210	J
67-64-1	Acetone	14	U
75-15-0	Carbon Disulfide	14	U
75-35-4	1,1-Dichloroethene	14	U
75-34-3	1,1-Dichloroethane	14	U
540-59-0	1,2-Dichloroethene (total)	14	U
67-66-3	Chloroform	14	U
107-06-2	1,2-Dichloroethane	14	U
78-93-3	2-Butanone	14	U
71-55-6	1,1,1-Trichloroethane	14	U
56-23-5	Carbon Tetrachloride	14	U
75-27-4	Bromodichloromethane	14	U
78-87-5	1,2-Dichloropropane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
79-01-6	Trichloroethene	14	U
124-48-1	Dibromochloromethane	14	U
79-00-5	1,1,2-Trichloroethane	14	U
71-43-2	Benzene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
75-25-2	Bromoform	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-88-3	Toluene	5	J
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
100-42-5	Styrene	14	U
1330-20-7	Xylene (total)	14	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216609

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0505BK10

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 31 Date Analyzed: 05/05/92

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216610

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0505BK11

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 17 Date Analyzed: 05/05/92

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	UJ
75-00-3	Chloroethane	12	UJ
75-09-2	Methylene Chloride	1700	EJ
67-64-1	Acetone	73	J
75-15-0	Carbon Disulfide	12	UJ
75-35-4	1,1-Dichloroethene	12	UJ
75-34-3	1,1-Dichloroethane	12	UJ
540-59-0	1,2-Dichloroethene (total)	12	UJ
67-66-3	Chloroform	12	UJ
107-06-2	1,2-Dichloroethane	12	UJ
78-93-3	2-Butanone	91	J
71-55-6	1,1,1-Trichloroethane	12	UJ
56-23-5	Carbon Tetrachloride	12	UJ
75-27-4	Bromodichloromethane	12	UJ
78-87-5	1,2-Dichloropropane	12	UJ
10061-01-5	cis-1,3-Dichloropropene	12	UJ
79-01-6	Trichloroethene	12	UJ
124-48-1	Dibromochloromethane	12	UJ
79-00-5	1,1,2-Trichloroethane	12	UJ
71-43-2	Benzene	4	J
10061-02-6	trans-1,3-Dichloropropene	12	UJ
75-25-2	Bromoform	12	UJ
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	40	J
108-90-7	Chlorobenzene	12	UJ
100-41-4	Ethylbenzene	12	UJ
100-42-5	Styrene	12	UJ
1330-20-7	Xylene (total)	10	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216610

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0505BK11

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 17 Date Analyzed: 05/05/92

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	18	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113DL

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216610DL

Sample wt/vol: 2.0 (g/mL) G Lab File ID: A0506BK10

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 17 Date Analyzed: 05/06/92

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	30	U
74-83-9	Bromomethane	30	U
75-01-4	Vinyl Chloride	30	U
75-00-3	Chloroethane	30	U
75-09-2	Methylene Chloride	520	
67-64-1	Acetone	16	J
75-15-0	Carbon Disulfide	30	U
75-35-4	1,1-Dichloroethene	30	U
75-34-3	1,1-Dichloroethane	30	U
540-59-0	1,2-Dichloroethene (total)	30	U
67-66-3	Chloroform	30	U
107-06-2	1,2-Dichloroethane	30	U
78-93-3	2-Butanone	30	U
71-55-6	1,1,1-Trichloroethane	30	U
56-23-5	Carbon Tetrachloride	30	U
75-27-4	Bromodichloromethane	30	U
78-87-5	1,2-Dichloropropane	30	U
10061-01-5	cis-1,3-Dichloropropene	30	U
79-01-6	Trichloroethene	30	U
124-48-1	Dibromochloromethane	30	U
79-00-5	1,1,2-Trichloroethane	30	U
71-43-2	Benzene	30	U
10061-02-6	trans-1,3-Dichloropropene	30	U
75-25-2	Bromoform	30	U
108-10-1	4-Methyl-2-Pentanone	30	UJ
591-78-6	2-Hexanone	30	UJ
127-18-4	Tetrachloroethene	30	UJ
79-34-5	1,1,2,2-Tetrachloroethane	30	UJ
108-88-3	Toluene	15	J
108-90-7	Chlorobenzene	30	UJ
100-41-4	Ethylbenzene	30	UJ
100-42-5	Styrene	30	UJ
1330-20-7	Xylene (total)	30	UJ

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X113DL

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216610DL

Sample wt/vol: 2.0 (g/mL) G Lab File ID: A0506BK10

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 17 Date Analyzed: 05/06/92

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.

G201

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) WATER Lab Sample ID: D216611

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0520W04

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/20/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

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

CAS NO.	COMPOUND		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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	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	50	UJ
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G201

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) WATER Lab Sample ID: D216611

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0520W04

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/20/92

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	50	U
100-02-7	4-Nitrophenol	50	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	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
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	20	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.

G201

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) WATER Lab Sample ID: D216611

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0520W04

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/20/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 18

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	8.97	10	~~BJN~~ U	am
2.	UNKNOWN ALIPHATIC KETONE	9.10	5	~~BAJ~~ U	am
3.	UNKNOWN	9.62	35	~~BJ~~ U	am
4. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	9.97	11	~~BJN~~ U	am
5.	UNKNOWN ALIPHATIC ALCOHOL	10.35	13	~~BAJ~~ U	am
6.	UNKNOWN CHLOROCYCLOHEXANE	10.49	3	~~BJ~~ U	am
7.	UNKNOWN CHLOROCYCLOHEXANE	10.90	6	~~BJ~~ U	am
8. 79-34-5	ETHANE, 1,1,2,2-TETRACHLORO-	10.95	10	~~BJN~~ U	am
9.	UNKNOWN TRICHLOROPROPENE	11.84	74	~~BJ~~ U	am
10.	UNKNOWN	13.64	5	~~BJ~~ U	am
11.	UNKNOWN	14.25	2	~~BJ~~ U	am
12.	UNKNOWN	16.07	110	~~BJ~~ U	am
13.	UNKNOWN	17.87	10	~~BJ~~ U	am
14.	UNKNOWN	19.45	8	~~BJ~~ U	am
15.	UNKNOWN	19.95	5	~~BJ~~ U	am
16.	UNKNOWN	21.40	3	~~BJ~~ U	am
17.	UNKNOWN	24.22	11	~~BJ~~ U	am
18.	UNKNOWN	27.36	2	~~BJ~~ U	am

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G202

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) WATER Lab Sample ID: D216612

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0520W05

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/20/92

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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	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	50	UJ
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G202

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) WATER Lab Sample ID: D216612

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0520W05

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/20/92

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	50	U
100-02-7	4-Nitrophenol	50	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	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
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	20	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.

G202

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) WATER Lab Sample ID: D216612

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0520W05

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/20/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	8.97	7	~~BJN~~ U	am
2.	UNKNOWN	9.62	18	~~BJ~~ U	am
3. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	9.95	8	~~BJN~~ U	
4.	UNKNOWN ALIPHATIC ALCOHOL	10.35	8	~~BAJ~~ U	
5.	UNKNOWN CHLOROCYCLOHEXENE	10.90	3	~~BJ~~ U	am
6. 79-34-5	ETHANE, 1,1,2,2-TETRACHLORO-	10.95	7	~~BJN~~ U	am
7.	UNKNOWN TRICHLOROPROPENE	11.84	79	~~BJ~~ U	am
8.	UNKNOWN	13.64	4	~~BJ~~ U	am
9.	UNKNOWN	16.07	69	~~BJ~~ U	am
10.	UNKNOWN	16.15	11	~~BJ~~ U	am
11.	UNKNOWN	17.87	6	~~BJ~~ U	am
12.	UNKNOWN	19.45	5	~~BJ~~ U	am
13.	UNKNOWN	19.95	4	~~BJ~~ U	am
14.	UNKNOWN	21.40	4	~~BJ~~ U	am
15.	UNKNOWN	24.22	10	~~BJ~~ U	am
16.	UNKNOWN	27.36	3	~~BJ~~ U	am
17.	UNKNOWN	30.82	5	~~BJ~~ U	am

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G203

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) WATER Lab Sample ID: D216613

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0520W06

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/20/92

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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	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	50	UJ
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G203

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) WATER Lab Sample ID: D216613

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0520W06

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/20/92

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	50	U
100-02-7	4-Nitrophenol	50	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	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
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	20	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.

G203

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) WATER Lab Sample ID: D216613

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0520W06

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/20/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 15

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	8.99	8	JN	
2.	UNKNOWN ALIPHATIC KETONE	9.14	12	~~BAJ~~ U	am
3.	UNKNOWN	9.64	32	~~BJ~~ U	am
4. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	9.99	9	~~BJN~~ U	am
5.	UNKNOWN ALIPHATIC ALCOHOL	10.39	12	~~BAJ~~ U	am
6.	UNKNOWN CHLOROCYCLOHEXANE	10.50	3	~~BJ~~ U	am
7. 79-34-5	ETHANE, 1,1,2,2-TETRACHLORO-	10.99	5	~~BJN~~ U	am
8.	UNKNOWN TRICHLOROPROPENE	11.87	65	~~BJ~~ U	am
9.	UNKNOWN	13.67	4	~~BJ~~ U	am
10.	UNKNOWN	16.10	74	~~BJ~~ U	am
11.	UNKNOWN	16.19	9	~~BJ~~ U	am
12.	UNKNOWN	17.90	5	~~BJ~~ U	am
13.	UNKNOWN	19.99	2	~~BJ~~ U	am
14.	UNKNOWN	21.44	3	~~BJ~~ U	am
15.	UNKNOWN	24.25	7	~~BJ~~ U	am

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G204RE

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) WATER Lab Sample ID: D216614

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0521W03

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/21/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

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

CAS NO.	COMPOUND		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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	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	50	UJ
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G204RE

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) WATER Lab Sample ID: D216614

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0521W03

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/21/92

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	50	U
100-02-7	4-Nitrophenol	50	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	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	UJ
86-30-6	N-Nitrosodiphenylamine (1)	10	UJ
101-55-3	4-Bromophenyl-phenylether	10	UJ
118-74-1	Hexachlorobenzene	10	UJ
87-86-5	Pentachlorophenol	50	UJ
85-01-8	Phenanthrene	10	UJ
120-12-7	Anthracene	10	UJ
86-74-8	Carbazole	10	UJ
84-74-2	Di-n-Butylphthalate	10	UJ
206-44-0	Fluoranthene	10	UJ
129-00-0	Pyrene	10	UJ
85-68-7	Butylbenzylphthalate	10	UJ
91-94-1	3,3'-Dichlorobenzidine	20	UJ
56-55-3	Benzo(a)Anthracene	10	UJ
218-01-9	Chrysene	10	UJ
117-81-7	bis(2-Ethylhexyl)Phthalate	10	UJ
117-84-0	Di-n-Octyl Phthalate	10	UJ
205-99-2	Benzo(b)Fluoranthene	10	UJ
207-08-9	Benzo(k)Fluoranthene	10	UJ
50-32-8	Benzo(a)Pyrene	10	UJ
193-39-5	Indeno(1,2,3-cd)Pyrene	10	UJ
53-70-3	Dibenz(a,h)Anthracene	10	UJ
191-24-2	Benzo(g,h,i)Perylene	10	UJ

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G204RE

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) WATER Lab Sample ID: D216614

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0521W03

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/21/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 14

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	9.00	2	~~BJN~~ U	am
2.	UNKNOWN	9.65	4	~~BJ~~ U	am
3. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	10.00	2	~~BJN~~ U	
4.	UNKNOWN ALIPHATIC ALCOHOL	10.39	2	~~BAJ~~ U	am
5. 79-34-5	ETHANE, 1,1,2,2-TETRACHLORO-	10.99	2	~~BJN~~ U	am
6.	UNKNOWN TRICHLOROPROPENE	11.89	23	~~BJ~~ U	am
7.	UNKNOWN	13.67	1	~~BJ~~ U	am
8.	UNKNOWN	16.10	27	~~BJ~~ U	am
9.	UNKNOWN	16.20	4	~~BJ~~ U	am
10.	UNKNOWN	17.90	2	~~BJ~~ U	am
11.	UNKNOWN	19.49	4	~~BJ~~ U	am
12.	UNKNOWN	19.99	1	~~BJ~~ U	am
13.	UNKNOWN	21.44	0.9	~~BJ~~ U	am
14.	UNKNOWN	24.25	4	~~BJ~~ U	am

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216600

Sample wt/vol: 30.2 (g/mL) G Lab File ID: A0611T06

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/11/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

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	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	UJ
59-50-7	4-Chloro-3-Methylphenol	460	U
91-57-6	2-Methylnaphthalene	460	U
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	2200	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	2200	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	2200	UJ
83-32-9	Acenaphthene	460	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216600

Sample wt/vol: 30.2 (g/mL) G Lab File ID: A0611T06

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/11/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2200	U
100-02-7	4-Nitrophenol	2200	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	2200	UJ
534-52-1	4,6-Dinitro-2-methylphenol	2200	U
86-30-6	N-Nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
87-86-5	Pentachlorophenol	2200	U
85-01-8	Phenanthrene	460	U
120-12-7	Anthracene	460	U
86-74-8	Carbazole	460	U
84-74-2	Di-n-Butylphthalate	460 ~~410~~	~~BJ~~ U am
206-44-0	Fluoranthene	150	J
129-00-0	Pyrene	150	J
85-68-7	Butylbenzylphthalate	460	U
91-94-1	3,3'-Dichlorobenzidine	910	U
56-55-3	Benzo(a)Anthracene	460	U
218-01-9	Chrysene	110	J
117-81-7	bis(2-Ethylhexyl)Phthalate	460	U
117-84-0	Di-n-Octyl Phthalate	460	U
205-99-2	Benzo(b)Fluoranthene	150	J
207-08-9	Benzo(k)Fluoranthene	460	U
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.

X101

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216600

Sample wt/vol: 30.2 (g/mL) G Lab File ID: A0611T06

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/11/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 19

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN ALIPHATIC KETONE	8.99	840	~~BAJ~~ U	am
2.	UNKNOWN	10.64	190	J	
3.	UNKNOWN	12.37	20	J	
4.	UNKNOWN	13.64	16	J	
5.	UNKNOWN	15.95	230	J	
6.	UNKNOWN ALIPHATIC ACID	25.67	590	J	
7.	UNKNOWN PHTHALATE	26.41	5	~~BJ~~ U	am
8.	UNKNOWN	27.14	10	J	
9.	UNKNOWN ALIPHATIC ACID	27.34	1900	~~B~~J	am
10.	UNKNOWN	29.39	5	J	
11.	UNKNOWN ALIPHATIC ACID	29.59	5	J	
12.	UNKNOWN ALIP. ACID ESTER	32.06	600	~~BJ~~ U	am
13.	UNKNOWN	32.97	420	J	
14.	UNKNOWN	36.66	290	J	
15.	UNKNOWN ALIP. HYDROCARBON	37.46	820	J	
16.	UNKNOWN	37.57	7500	J	
17.	UNKNOWN ALIP. HYDROCARBON	41.02	1900	J	
18.	UNKNOWN	43.11	1100	J	
19.	UNKNOWN	48.86	1400	J	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216601

Sample wt/vol: 30.2 (g/mL) G Lab File ID: A0611T07

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/11/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

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	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	UJ
59-50-7	4-Chloro-3-Methylphenol	460	U
91-57-6	2-Methylnaphthalene	460	U
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	2200	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	2200	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	2200	UJ
83-32-9	Acenaphthene	460	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216601

Sample wt/vol: 30.2 (g/mL) G Lab File ID: A0611T07

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/11/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2200	U
100-02-7	4-Nitrophenol	2200	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	2200	UJ
534-52-1	4,6-Dinitro-2-methylphenol	2200	U
86-30-6	N-Nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
87-86-5	Pentachlorophenol	2200	U
85-01-8	Phenanthrene	460	U
120-12-7	Anthracene	460	U
86-74-8	Carbazole	460	U
84-74-2	Di-n-Butylphthalate	460 ~~420~~	~~BJ~~ U am
206-44-0	Fluoranthene	110	J
129-00-0	Pyrene	130	J
85-68-7	Butylbenzylphthalate	460	U
91-94-1	3,3'-Dichlorobenzidine	910	U
56-55-3	Benzo(a)Anthracene	460	U
218-01-9	Chrysene	98	J
117-81-7	bis(2-Ethylhexyl)Phthalate	460	U
117-84-0	Di-n-Octyl Phthalate	460	U
205-99-2	Benzo(b)Fluoranthene	210	J
207-08-9	Benzo(k)Fluoranthene	460	U
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.

X102

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216601

Sample wt/vol: 30.2 (g/mL) G Lab File ID: A0611T07

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/11/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

Number TICs found: 24

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN ALIPHATIC KETONE	8.95	9800	~~BAJ~~ U	am
2.	UNKNOWN	10.60	4	~~BJ~~ U	
3.	UNKNOWN	11.30	3	~~BJ~~ U	
4.	UNKNOWN	12.32	4200	J	
5.	UNKNOWN	13.60	3400	J	
6.	UNKNOWN	23.45	2	J	
7.	UNKNOWN	23.62	2	J	
8.	UNKNOWN ALIPHATIC ACID	25.62	350	J	
9.	UNKNOWN PHTHALATE	26.37	3	~~BJ~~ U	am
10.	UNKNOWN	27.09	3	J	
11.	UNKNOWN ALIPHATIC ACID	27.29	1800	~~B~~J	am
12.	UNKNOWN	29.34	840	J	
13.	UNKNOWN ALIP. ACID ESTER	32.01	300	~~BJ~~ U	am
14.	UNKNOWN	32.91	940	J	
15.	UNKNOWN	34.24	380	J	
16.	UNKNOWN ALIP. HYDROCARBON	34.86	1300	J	
17.	UNKNOWN	36.62	1700	J	
18.	UNKNOWN ALIP. HYDROCARBON	37.41	1400	J	
19.	UNKNOWN	37.51	3800	J	
20.	UNKNOWN	39.91	490	J	
21.	UNKNOWN ALIP. HYDROCARBON	40.97	1300	J	
22.	UNKNOWN	43.04	830	J	
23.	UNKNOWN	46.68	1200	J	
24.	UNKNOWN	46.66	860	J	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216602

Sample wt/vol: 30.2 (g/mL) G Lab File ID: A0611T08

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/12/92

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	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	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	UJ
59-50-7	4-Chloro-3-Methylphenol	460	U
91-57-6	2-Methylnaphthalene	460	U
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	2200	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	2200	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	2200	UJ
83-32-9	Acenaphthene	460	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216602

Sample wt/vol: 30.2 (g/mL) G Lab File ID: A0611T08

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/12/92

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	2200	U
100-02-7	4-Nitrophenol	2200	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	2200	UJ
534-52-1	4,6-Dinitro-2-methylphenol	2200	U
86-30-6	N-Nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
87-86-5	Pentachlorophenol	2200	U
85-01-8	Phenanthrene	460	U
120-12-7	Anthracene	460	U
86-74-8	Carbazole	460	U
84-74-2	Di-n-Butylphthalate	460 ~~350~~	~~BJ~~ 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	910	U
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	U
205-99-2	Benzo(b)Fluoranthene	460	U
207-08-9	Benzo(k)Fluoranthene	460	U
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.

X103

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216602

Sample wt/vol: 30.2 (g/mL) G Lab File ID: A0611T08

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/12/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 15

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN	8.03	1500	~~BJ~~	am
2.	UNKNOWN ALIPHATIC KETONE	8.90	360	~~BAJ~~ U	am
3.	UNKNOWN	10.57	8	~~BJ~~ U	am
4.	UNKNOWN	12.29	8300	J	
5.	UNKNOWN	13.57	8800	J	
6.	UNKNOWN ALIPHATIC ACID	25.59	6	J	
7.	UNKNOWN	27.06	13	J	
8.	UNKNOWN ALIPHATIC ACID	27.26	2900	J	
9.	UNKNOWN	29.31	6	J	
10.	UNKNOWN ALIP. ACID ESTER	31.99	70	~~BJ~~ U	am
11.	UNKNOWN ALIP. HYDROCARBON	32.87	1500	J	
12.	UNKNOWN ALIP. HYDROCARBON	34.84	1400	J	
13.	UNKNOWN	36.59	1000	J	
14.	UNKNOWN ALIPHATIC ALCOHOL	37.47	19000	J	
15.	UNKNOWN ALIP. HYDROCARBON	40.96	5800	J	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216603

Sample wt/vol: 30.1 (g/mL) G Lab File ID: A0611T09

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 26 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/12/92

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	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	UJ
59-50-7	4-Chloro-3-Methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	2200	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	2200	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	2200	UJ
83-32-9	Acenaphthene	440	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216603

Sample wt/vol: 30.1 (g/mL) G Lab File ID: A0611T09

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 26 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/12/92

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	2200	U
100-02-7	4-Nitrophenol	2200	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	2200	UJ
534-52-1	4,6-Dinitro-2-methylphenol	2200	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	2200	U
85-01-8	Phenanthrene	330	J
120-12-7	Anthracene	440	U
86-74-8	Carbazole	440	U
84-74-2	Di-n-Butylphthalate	440 ~~190~~	~~BJ~~ U am
206-44-0	Fluoranthene	140	J
129-00-0	Pyrene	110	J
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	890	U
56-55-3	Benzo(a)Anthracene	440	U
218-01-9	Chrysene	440	U
117-81-7	bis(2-Ethylhexyl)Phthalate	440	U
117-84-0	Di-n-Octyl Phthalate	440	U
205-99-2	Benzo(b)Fluoranthene	90	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.

X104

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216603

Sample wt/vol: 30.1 (g/mL) G Lab File ID: A0611T09

Level: - (low/med) LOW Date Received: 04/30/92

% Moisture: 26 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/12/92

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 ALIPHATIC KETONE	8.94	720	~~BJ~~ u am
2.	UNKNOWN	10.59	160	~~B~~J
3.	UNKNOWN	11.30	2	~~BJ~~ u
4.	UNKNOWN	12.30	13	J
5.	UNKNOWN	13.60	4300	J
6.	UNKNOWN	15.90	260	J
7.	UNKNOWN ALIP. HYDROCARBON	21.27	5	J
8.	UNKNOWN ALIP. HYDROCARBON	22.70	13	J
9.	UNKNOWN ALIP. HYDROCARBON	23.39	730	J
10.	UNKNOWN ALIP. HYDROCARBON	24.07	6	J
11.	UNKNOWN ALIP. HYDROCARBON	24.14	~~13~~	J
12.	UNKNOWN ALIP. HYDROCARBON	25.36	960	J
13.	UNKNOWN ALIP. HYDROCARBON	25.49	380	J
14.	UNKNOWN ALIP. HYDROCARBON	26.59	180	J
15.	UNKNOWN ALIPHATIC ACID	27.27	1500	~~B~~J am
16.	UNKNOWN ALIP. HYDROCARBON	28.87	580	J
17.	UNKNOWN ALIPHATIC ACID	29.32	540	J
18.	UNKNOWN ALIP. ACID ESTER	32.01	9900	~~B~~J am
19.	UNKNOWN ALIP. HYDROCARBON	32.91	980	J
20.	UNKNOWN ALIP. HYDROCARBON	33.84	260	J
21.	UNKNOWN ALIP. HYDROCARBON	34.86	1100	J
22.	UNKNOWN	36.62	1300	J
23.	UNKNOWN ALIP. HYDROCARBON	37.41	1300	J
24.	UNKNOWN	37.51	3600	J
25.	UNKNOWN ALIP. HYDROCARBON	40.99	3000	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216604

Sample wt/vol: 5.8 (g/mL) G Lab File ID: A0611T12

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 26 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/12/92

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	2300	U
111-44-4	bis(2-Chloroethyl)Ether	2300	U
95-57-8	2-Chlorophenol	2300	U
541-73-1	1,3-Dichlorobenzene	2300	U
106-46-7	1,4-Dichlorobenzene	2300	U
95-50-1	1,2-Dichlorobenzene	2300	U
95-48-7	2-Methylphenol	2300	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2300	U
106-44-5	4-Methylphenol	2300	U
621-64-7	N-Nitroso-Di-n-Propylamine	2300	U
67-72-1	Hexachloroethane	2300	U
98-95-3	Nitrobenzene	2300	U
78-59-1	Isophorone	2300	U
88-75-5	2-Nitrophenol	2300	U
105-67-9	2,4-Dimethylphenol	2300	U
111-91-1	bis(2-Chloroethoxy)Methane	2300	U
120-83-2	2,4-Dichlorophenol	2300	U
120-82-1	1,2,4-Trichlorobenzene	2300	U
91-20-3	Naphthalene	1500	J
106-47-8	4-Chloroaniline	2300	U
87-68-3	Hexachlorobutadiene	2300	UJ
59-50-7	4-Chloro-3-Methylphenol	2300	U
91-57-6	2-Methylnaphthalene	1500	J
77-47-4	Hexachlorocyclopentadiene	2300	U
88-06-2	2,4,6-Trichlorophenol	2300	U
95-95-4	2,4,5-Trichlorophenol	11000	U
91-58-7	2-Chloronaphthalene	2300	U
88-74-4	2-Nitroaniline	11000	U
131-11-3	Dimethylphthalate	2300	U
208-96-8	Acenaphthylene	2300	U
606-20-2	2,6-Dinitrotoluene	2300	U
99-09-2	3-Nitroaniline	11000	UJ
83-32-9	Acenaphthene	1600	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216604

Sample wt/vol: 5.8 (g/mL) G Lab File ID: A0611T12

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 26 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/12/92

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	11000	U
100-02-7	4-Nitrophenol	11000	U
132-64-9	Dibenzofuran	3100	J
121-14-2	2,4-Dinitrotoluene	2300	U
84-66-2	Diethylphthalate	2300	U
7005-72-3	4-Chlorophenyl-phenylether	2300	U
86-73-7	Fluorene	4800	J
100-10-6	4-Nitroaniline	11000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	11000	U
86-30-6	N-Nitrosodiphenylamine (1)	2300	U
101-55-3	4-Bromophenyl-phenylether	2300	U
118-74-1	Hexachlorobenzene	2300	U
87-86-5	Pentachlorophenol	11000	U
85-01-8	Phenanthrene	2600	J
120-12-7	Anthracene	970	J
86-74-8	Carbazole	2300	U
84-74-2	Di-n-Butylphthalate	2300 ~~990~~	~~BJ~~ U am
206-44-0	Fluoranthene	1400	J
129-00-0	Pyrene	1600	J
85-68-7	Butylbenzylphthalate	2300	U
91-94-1	3,3'-Dichlorobenzidine	4600	U
56-55-3	Benzo(a)Anthracene	540	J
218-01-9	Chrysene	680	J
117-81-7	bis(2-Ethylhexyl)Phthalate	2300	U
117-84-0	Di-n-Octyl Phthalate	2300	U
205-99-2	Benzo(b)Fluoranthene	650	J
207-08-9	Benzo(k)Fluoranthene	2300	U
50-32-8	Benzo(a)Pyrene	2300	U
193-39-5	Indeno(1,2,3-cd)Pyrene	2300	U
53-70-3	Dibenz(a,h)Anthracene	2300	U
191-24-2	Benzo(g,h,i)Perylene	2300	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: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216604

Sample wt/vol: 5.8 (g/mL) G Lab File ID: A0611T12

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 26 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/12/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 18

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN ALIPHATIC KETONE	8.97	4200	~~BAJ~~ U	am
2.	UNKNOWN TRIMETHYLBENZENE	22.44	20000	J	
3.	UNKNOWN	23.25	7	J	
4.	UNKNOWN ALIP. HYDROCARBON	23.45	11000	J	
5.	UNKNOWN	23.52	5600	J	
6.	UNKNOWN	23.74	58	J	
7.	UNKNOWN	24.60	2700	J	
8.	UNKNOWN ALIP. HYDROCARBON	24.72	6100	J	
9.	UNKNOWN	24.80	2600	J	
10.	UNKNOWN	25.09	4100	J	
11.	UNKNOWN	25.12	13000	J	
12.	UNKNOWN	25.42	1400	J	
13.	UNKNOWN ALIP. HYDROCARBON	25.56	3400	J	
14.	UNKNOWN	26.21	5800	J	
15.	UNKNOWN	26.56	5500	J	
16.	UNK. METHYLDIBENZOTHIOPHENE	26.72	8700	J	
17.	UNKNOWN	28.27	2600	J	
18.	UNKNOWN ALIP. ACID ESTER	32.06	45000	J	am

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216605

Sample wt/vol: 30.1 (g/mL) G Lab File ID: A0612W04

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 26 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/12/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

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	UJ
91-20-3	Naphthalene	130	J
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	UJ
59-50-7	4-Chloro-3-Methylphenol	440	U
91-57-6	2-Methylnaphthalene	220	J
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	2200	UJ
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	2200	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	2200	UJ
83-32-9	Acenaphthene	440	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

ab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216605

Sample wt/vol: 30.1 (g/mL) G Lab File ID: A0612W04

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 26 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/12/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2200	U
100-02-7	4-Nitrophenol	2200	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	2200	UJ
534-52-1	4,6-Dinitro-2-methylphenol	2200	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	2200	UJ
85-01-8	Phenanthrene	730	
120-12-7	Anthracene	120	J
86-74-8	Carbazole	440	U
84-74-2	Di-n-Butylphthalate	440 ~~190~~	~~BJ~~ U am
206-44-0	Fluoranthene	790	
129-00-0	Pyrene	500	
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	890	UJ
56-55-3	Benzo(a)Anthracene	350	J
218-01-9	Chrysene	790	
117-81-7	bis(2-Ethylhexyl)Phthalate	440	U
117-84-0	Di-n-Octyl Phthalate	440	U
205-99-2	Benzo(b)Fluoranthene	440	U
207-08-9	Benzo(k)Fluoranthene	440	U
50-32-8	Benzo(a)Pyrene	280	J
193-39-5	Indeno(1,2,3-cd)Pyrene	460	
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.

X106

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216605

Sample wt/vol: 30.1 (g/mL) G Lab File ID: A0612W04

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 26 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/12/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

Number TICs found: 19

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIPHATIC KETONE	8.95	1100	~~BAJ~~ U
2.	UNKNOWN ALIP. HYDROCARBON	24.19	22	J
3.	UNKNOWN ALIP. ACID ESTER	32.07	24000	~~B~~J
4.	UNKNOWN	32.44	43	J
5.	UNKNOWN	32.74	0.2	J
6.	UNKNOWN ALIP. HYDROCARBON	32.96	35	J
7.	UNKNOWN	33.32	3	J
8.	UNKNOWN	33.66	70	J
9.	UNKNOWN ALIP. HYDROCARBON	33.89	790	J
10.	UNKNOWN	34.31	500	J
11.	UNKNOWN	34.51	410	J
12.	UNKNOWN ALIP. HYDROCARBON	34.92	3500	J
13.	UNKNOWN	35.16	360	J
14.	UNKNOWN	35.29	270	J
15.	UNKNOWN	35.91	26	J
16.	UNKNOWN ALIP. HYDROCARBON	36.11	1900	J
17.	UNKNOWN ALIP. HYDROCARBON	37.51	5900	J
18.	UNKNOWN	37.61	1500	J
19.	UNKNOWN PNA	38.52	490	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216606

Sample wt/vol: 30.2 (g/mL) G Lab File ID: C0624K11

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/24/92

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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	4600	U
111-44-4	bis(2-Chloroethyl)Ether	4600	U
95-57-8	2-Chlorophenol	4600	U
541-73-1	1,3-Dichlorobenzene	4600	U
106-46-7	1,4-Dichlorobenzene	4600	U
95-50-1	1,2-Dichlorobenzene	4600	U
95-48-7	2-Methylphenol	4600	U
108-60-1	2,2'-oxybis(1-Chloropropane)	4600	U
106-44-5	4-Methylphenol	4600	U
621-64-7	N-Nitroso-Di-n-Propylamine	4600	U
67-72-1	Hexachloroethane	4600	U
98-95-3	Nitrobenzene	4600	U
78-59-1	Isophorone	4600	U
88-75-5	2-Nitrophenol	4600	U
105-67-9	2,4-Dimethylphenol	4600	U
111-91-1	bis(2-Chloroethoxy)Methane	4600	U
120-83-2	2,4-Dichlorophenol	4600	U
120-82-1	1,2,4-Trichlorobenzene	4600	U
91-20-3	Naphthalene	2900	J
106-47-8	4-Chloroaniline	4600	U
87-68-3	Hexachlorobutadiene	4600	U
59-50-7	4-Chloro-3-Methylphenol	4600	U
91-57-6	2-Methylnaphthalene	5900	
77-47-4	Hexachlorocyclopentadiene	4600	UJ
88-06-2	2,4,6-Trichlorophenol	4600	U
95-95-4	2,4,5-Trichlorophenol	22000	U
91-58-7	2-Chloronaphthalene	4600	U
88-74-4	2-Nitroaniline	22000	UJ
131-11-3	Dimethylphthalate	4600	U
208-96-8	Acenaphthylene	4600	U
606-20-2	2,6-Dinitrotoluene	4600	U
99-09-2	3-Nitroaniline	22000	U
83-32-9	Acenaphthene	4600	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216606

Sample wt/vol: 30.2 (g/mL) G Lab File ID: C0624K11

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/24/92

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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	22000	U
100-02-7	4-Nitrophenol	22000	U
132-64-9	Dibenzofuran	1900	J
121-14-2	2,4-Dinitrotoluene	4600	U
84-66-2	Diethylphthalate	4600	U
7005-72-3	4-Chlorophenyl-phenylether	4600	U
86-73-7	Fluorene	4600	U
100-10-6	4-Nitroaniline	22000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	22000	U
86-30-6	N-Nitrosodiphenylamine (1)	4600	~~U~~ UJ am
101-55-3	4-Bromophenyl-phenylether	4600	U
118-74-1	Hexachlorobenzene	4600	UJ
87-86-5	Pentachlorophenol	22000	U
85-01-8	Phenanthrene	9200	
120-12-7	Anthracene	4600	U
86-74-8	Carbazole	4600	UJ
84-74-2	Di-n-Butylphthalate	4600	U
206-44-0	Fluoranthene	3200	J
129-00-0	Pyrene	3200	J
85-68-7	Butylbenzylphthalate	4600	U
91-94-1	3,3'-Dichlorobenzidine	9100	UJ
56-55-3	Benzo(a)Anthracene	1600	J
218-01-9	Chrysene	2500	J
117-81-7	bis(2-Ethylhexyl)Phthalate	4600	U
117-84-0	Di-n-Octyl Phthalate	4600	U
205-99-2	Benzo(b)Fluoranthene	5000	
207-08-9	Benzo(k)Fluoranthene	4600	U
50-32-8	Benzo(a)Pyrene	1600	J
193-39-5	Indeno(1,2,3-cd)Pyrene	2100	J
53-70-3	Dibenz(a,h)Anthracene	1600	J
191-24-2	Benzo(g,h,i)Perylene	2900	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216606

Sample wt/vol: 30.2 (g/mL) G Lab File ID: C0624K11

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/24/92

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

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

Number TICs found: 29

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIPHATIC KETONE	8.80	96000	~~B~~AJ
2.	UNK. DIMETHYLNAPHTHALENE	20.54	7600	J
3.	UNKNOWN ALIP. HYDROCARBON	20.80	11000	J
4.	UNKNOWN ALIP. HYDROCARBON	21.35	6200	J
5.	UNKNOWN ALIP. HYDROCARBON	22.79	13000	J
6.	UNKNOWN ALIP. HYDROCARBON	24.15	19000	J
7.	UNKNOWN ALIP. HYDROCARBON	24.24	52000	J
8.	UNKNOWN	25.11	4400	J
9.	UNKNOWN	25.14	5900	J
10.	UNKNOWN ALIP. HYDROCARBON	25.46	18000	J
11.	UNKNOWN ALIP. HYDROCARBON	25.59	11000	J
12.	UNKNOWN	26.36	2600	J
13.	UNKNOWN	26.61	5700	J
14.	UNKNOWN ALIP. HYDROCARBON	26.67	14000	J
15.	UNKNOWN PNA	27.36	4100	J
16.	UNKNOWN PNA	27.67	2900	J
17.	UNKNOWN ALIP. HYDROCARBON	27.86	9400	J
18.	UNK. DIMETHYLPHENANTHRENE	28.92	2500	J
19.	UNKNOWN ALIP. HYDROCARBON	28.97	8500	J
20.	UNKNOWN ALIP. HYDROCARBON	30.06	10000	J
21.	UNKNOWN PNA	30.94	2400	J
22.	UNKNOWN ALIP. HYDROCARBON	31.09	7900	J
23.	UNKNOWN PNA	31.59	1900	J
24.	UNKNOWN ALIP. ACID ESTER	32.12	42000	~~B~~J
25.	UNKNOWN	32.51	3200	J
26.	UNKNOWN	32.84	1100	J
27.	UNKNOWN ALIP. HYDROCARBON	33.04	9300	J
28.	UNKNOWN ALIP. HYDROCARBON	33.99	6300	J
29.	UNKNOWN ALIP. HYDROCARBON	35.07	8600	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216607

Sample wt/vol: 30.1 (g/mL) G Lab File ID: A0611T11

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 26 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/12/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.2

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	UJ
59-50-7	4-Chloro-3-Methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	2200	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	2200	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	2200	UJ
83-32-9	Acenaphthene	440	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216607

Sample wt/vol: 30.1 (g/mL) G Lab File ID: A0611T11

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 26 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/12/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2200	U
100-02-7	4-Nitrophenol	2200	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	2200	UJ
534-52-1	4,6-Dinitro-2-methylphenol	2200	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	2200	U
85-01-8	Phenanthrene	120	J
120-12-7	Anthracene	440	U
86-74-8	Carbazole	440	U
84-74-2	Di-n-Butylphthalate	440 ~~140~~	~~BJ~~ U am
206-44-0	Fluoranthene	190	J
129-00-0	Pyrene	200	J
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	890	U
56-55-3	Benzo(a)Anthracene	160	J
218-01-9	Chrysene	210	J
117-81-7	bis(2-Ethylhexyl)Phthalate	440	U
117-84-0	Di-n-Octyl Phthalate	440	U
205-99-2	Benzo(b)Fluoranthene	240	J
207-08-9	Benzo(k)Fluoranthene	150	J
50-32-8	Benzo(a)Pyrene	190	J
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	240	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216607

Sample wt/vol: 30.1 (g/mL) G Lab File ID: A0611T11

Level: - (low/med) LOW Date Received: 04/30/92

% Moisture: 26 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/12/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.2

Number TICs found: 24

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN ALIPHATIC KETONE	8.95	850	~~BJ~~ U	am
2.	UNKNOWN	10.62	190	~~B~~J	
3.	UNKNOWN	11.32	3	~~BJ~~ U	
4.	UNKNOWN BENZALDEHYDE	11.69	0.04	J	
5.	UNKNOWN	12.34	4000	J	
6.	UNKNOWN	13.49	2000	J	
7.	UNKNOWN	13.62	28	J	
8.	UNKNOWN	18.47	0.1	J	
9.	UNKNOWN ALIPHATIC ACID	25.64	550	J	
10.	UNKNOWN	27.11	2	J	
11.	UNKNOWN	27.21	4	J	
12.	UNKNOWN ALIPHATIC ACID	27.31	1400	~~B~~J	am
13.	UNKNOWN	29.39	830	J	
14.	UNKNOWN ALIPHATIC ACID	29.56	110	J	
15.	UNKNOWN ALIP. ACID ESTER	32.06	25000	~~B~~J	am
16.	UNKNOWN	32.91	1200	J	
17.	UNKNOWN ALIP. HYDROCARBON	34.87	1800	J	
18.	UNKNOWN	36.62	870	J	
19.	UNKNOWN ALIP. HYDROCARBON	37.42	4200	J	
20.	UNKNOWN	37.52	1500	J	
21.	UNKNOWN ALIP. HYDROCARBON	41.01	4400	J	
22.	UNKNOWN	41.24	670	J	
23.	UNKNOWN	43.08	3200	J	
24.	UNKNOWN	46.73	1200	J	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216608

Sample wt/vol: 30.1 (g/mL) G Lab File ID: C0624K10

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/24/92

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

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	4600	U
111-44-4	bis(2-Chloroethyl)Ether	4600	U
95-57-8	2-Chlorophenol	4600	U
541-73-1	1,3-Dichlorobenzene	4600	U
106-46-7	1,4-Dichlorobenzene	4600	U
95-50-1	1,2-Dichlorobenzene	4600	U
95-48-7	2-Methylphenol	4600	U
108-60-1	2,2'-oxybis(1-Chloropropane)	4600	U
106-44-5	4-Methylphenol	4600	U
621-64-7	N-Nitroso-Di-n-Propylamine	4600	U
67-72-1	Hexachloroethane	4600	U
98-95-3	Nitrobenzene	4600	U
78-59-1	Isophorone	4600	U
88-75-5	2-Nitrophenol	4600	U
105-67-9	2,4-Dimethylphenol	4600	U
111-91-1	bis(2-Chloroethoxy)Methane	4600	U
120-83-2	2,4-Dichlorophenol	4600	U
120-82-1	1,2,4-Trichlorobenzene	4600	U
91-20-3	Naphthalene	4600	U
106-47-8	4-Chloroaniline	4600	U
87-68-3	Hexachlorobutadiene	4600	U
59-50-7	4-Chloro-3-Methylphenol	4600	U
91-57-6	2-Methylnaphthalene	1400	J
77-47-4	Hexachlorocyclopentadiene	4600	UJ
88-06-2	2,4,6-Trichlorophenol	4600	U
95-95-4	2,4,5-Trichlorophenol	22000	U
91-58-7	2-Chloronaphthalene	4600	U
88-74-4	2-Nitroaniline	22000	UJ
131-11-3	Dimethylphthalate	4600	U
208-96-8	Acenaphthylene	4600	U
606-20-2	2,6-Dinitrotoluene	4600	U
99-09-2	3-Nitroaniline	22000	U
83-32-9	Acenaphthene	4600	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216608

Sample wt/vol: 30.1 (g/mL) G Lab File ID: C0624K10

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/24/92

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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	22000	U
100-02-7	4-Nitrophenol	22000	U
132-64-9	Dibenzofuran	4600	U
121-14-2	2,4-Dinitrotoluene	4600	U
84-66-2	Diethylphthalate	4600	U
7005-72-3	4-Chlorophenyl-phenylether	4600	U
86-73-7	Fluorene	4600	U
100-10-6	4-Nitroaniline	22000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	22000	U
86-30-6	N-Nitrosodiphenylamine (1)	4600	UJ
101-55-3	4-Bromophenyl-phenylether	4600	U
118-74-1	Hexachlorobenzene	4600	UJ
87-86-5	Pentachlorophenol	22000	U
85-01-8	Phenanthrene	3400	J
120-12-7	Anthracene	4600	U
86-74-8	Carbazole	4600	UJ
84-74-2	Di-n-Butylphthalate	4600	U
206-44-0	Fluoranthene	2100	J
129-00-0	Pyrene	2500	J
85-68-7	Butylbenzylphthalate	4600	U
91-94-1	3,3'-Dichlorobenzidine	9100	UJ
56-55-3	Benzo(a)Anthracene	1300	J
218-01-9	Chrysene	2500	J
117-81-7	bis(2-Ethylhexyl)Phthalate	4600	U
117-84-0	Di-n-Octyl Phthalate	4600	U
205-99-2	Benzo(b)Fluoranthene	5000	
207-08-9	Benzo(k)Fluoranthene	4600	U
50-32-8	Benzo(a)Pyrene	4600	U
193-39-5	Indeno(1,2,3-cd)Pyrene	4600	U
53-70-3	Dibenz(a,h)Anthracene	4600	UJ
191-24-2	Benzo(g,h,i)Perylene	3600	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216608

Sample wt/vol: 30.1 (g/mL) G Lab File ID: C0624K10

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 28 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/24/92

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN	8.08	7000	~~B~~J	am
2.	UNKNOWN ALIPHATIC KETONE	8.79	130000	~~B~~AJ	am
3.	UNKNOWN ALIP. HYDROCARBON	19.82	2800	J	
4.	UNKNOWN ALIP. HYDROCARBON	20.79	4100	J	
5.	UNKNOWN ALIP. HYDROCARBON	21.34	3600	J	
6.	UNKNOWN ALIP. HYDROCARBON	22.77	5600	J	
7.	UNKNOWN ALIP. HYDROCARBON	23.47	4300	J	
8.	UNKNOWN ALIP. HYDROCARBON	24.14	7700	J	
9.	UNKNOWN ALIP. HYDROCARBON	24.24	21000	J	
10.	UNKNOWN PNA	25.11	1700	J	
11.	UNKNOWN ALIP. HYDROCARBON	25.44	8000	J	
12.	UNKNOWN ALIP. HYDROCARBON	25.57	5200	J	
13.	UNKNOWN PNA	26.34	1200	J	
14.	UNKNOWN	26.59	2300	J	
15.	UNKNOWN ALIP. HYDROCARBON	26.67	7700	J	
16.	UNKNOWN PNA	27.34	2100	J	
17.	UNKNOWN PNA	27.66	1400	J	
18.	UNKNOWN ALIP. HYDROCARBON	27.84	6500	J	
19.	UNKNOWN ALIP. HYDROCARBON	28.96	5800	J	
20.	UNKNOWN ALIP. HYDROCARBON	30.04	7600	J	
21.	UNKNOWN PNA	30.99	2700	J	
22.	UNKNOWN ALIP. HYDROCARBON	31.07	7200	J	
23.	UNKNOWN ACID ESTER	32.11	68000	~~B~~J	am
24.	UNKNOWN	32.51	2700	J	
25.	UNKNOWN ALIP. HYDROCARBON	33.02	7400	J	
26.	UNKNOWN ALIP. HYDROCARBON	33.99	4000	J	
27.	UNKNOWN ALIP. HYDROCARBON	35.06	4700	J	
28.	UNKNOWN ALIP. HYDROCARBON	36.31	3200	J	
29.	UNKNOWN ALIP. HYDROCARBON	37.79	6400	J	
30.	UNKNOWN PNA	38.77	8800	J	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216609

Sample wt/vol: 30.2 (g/mL) G Lab File ID: A0611T10

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 27 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/12/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	450	U
111-44-4	bis(2-Chloroethyl)Ether	450	U
95-57-8	2-Chlorophenol	450	U
541-73-1	1,3-Dichlorobenzene	450	U
106-46-7	1,4-Dichlorobenzene	450	U
95-50-1	1,2-Dichlorobenzene	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2'-oxybis(1-Chloropropane)	450	U
106-44-5	4-Methylphenol	450	U
621-64-7	N-Nitroso-Di-n-Propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
111-91-1	bis(2-Chloroethoxy)Methane	450	U
120-83-2	2,4-Dichlorophenol	450	U
120-82-1	1,2,4-Trichlorobenzene	450	U
91-20-3	Naphthalene	450	U
106-47-8	4-Chloroaniline	450	U
87-68-3	Hexachlorobutadiene	450	UJ
59-50-7	4-Chloro-3-Methylphenol	450	U
91-57-6	2-Methylnaphthalene	450	U
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	2200	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	2200	U
131-11-3	Dimethylphthalate	450	U
208-96-8	Acenaphthylene	450	U
606-20-2	2,6-Dinitrotoluene	450	U
99-09-2	3-Nitroaniline	2200	UJ
83-32-9	Acenaphthene	450	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216609

Sample wt/vol: 30.2 (g/mL) G Lab File ID: A0611T10

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 27 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/12/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2200	U
100-02-7	4-Nitrophenol	2200	U
132-64-9	Dibenzofuran	450	U
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
7005-72-3	4-Chlorophenyl-phenylether	450	U
86-73-7	Fluorene	450	U
100-10-6	4-Nitroaniline	2200	UJ
534-52-1	4,6-Dinitro-2-methylphenol	2200	U
86-30-6	N-Nitrosodiphenylamine (1)	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
87-86-5	Pentachlorophenol	2200	U
85-01-8	Phenanthrene	450	U
120-12-7	Anthracene	450	U
86-74-8	Carbazole	450	U
84-74-2	Di-n-Butylphthalate	450 ~~120~~	~~B~~J am
206-44-0	Fluoranthene	450	U
129-00-0	Pyrene	450	U
85-68-7	Butylbenzylphthalate	450	U
91-94-1	3,3'-Dichlorobenzidine	900	U
56-55-3	Benzo(a)Anthracene	450	U
218-01-9	Chrysene	450	U
117-81-7	bis(2-Ethylhexyl)Phthalate	450	U
117-84-0	Di-n-Octyl Phthalate	450	U
205-99-2	Benzo(b)Fluoranthene	92	J
207-08-9	Benzo(k)Fluoranthene	450	U
50-32-8	Benzo(a)Pyrene	450	U
193-39-5	Indeno(1,2,3-cd)Pyrene	450	U
53-70-3	Dibenz(a,h)Anthracene	450	U
191-24-2	Benzo(g,h,i)Perylene	450	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: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216609

Sample wt/vol: 30.2 (g/mL) G Lab File ID: A0611T10

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 27 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/12/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1

Number TICs found: 28

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN ALIPATIC KETONE	8.95	760	~~BJ~~ U	am
2.	UNKNOWN	10.60	160	~~B~~J	am
3.	UNKNOWN	11.15	0.1	J	
4.	UNKNOWN	12.34	20	J	
5.	UNKNOWN	13.25	43	J	
6.	UNKNOWN	13.62	4300	J	
7.	UNKNOWN	15.92	3	J	
8.	UNKNOWN	19.92	3	J	
9.	UNKNOWN	20.02	56	J	
10.	UNKNOWN	23.80	2	J	
11.	UNKNOWN ALIPHATIC ACID	25.62	3	J	
12.	UNKNOWN	26.52	600	J	
13.	UNKNOWN	27.11	480	J	
14.	UNKNOWN	27.21	210	J	
15.	UNKNOWN ALIPHATIC ACID	27.31	2000	~~B~~J	am
16.	UNKNOWN	28.34	240	J	
17.	UNKNOWN	29.34	1500	J	
18.	UNKNOWN ALIPHATIC ACID	29.54	410	J	
19.	UNKNOWN ALIP. ACID ESTER	32.04	19000	~~B~~J	am
20.	UNKNOWN	32.91	1100	J	
21.	UNKNOWN	34.24	190	J	
22.	UNKNOWN ALIP. HYDROCARBON	34.87	1300	J	
23.	UNKNOWN	36.62	890	J	
24.	UNKNOWN ALIP. HYDROCARBON	37.41	2100	J	
25.	UNKNOWN	37.51	1000	J	
26.	UNKNOWN ALIP. HYDROCARBON	41.01	4400	J	
27.	UNKNOWN ALIP. HYDROCARBON	46.23	1800	J	
28.	UNKNOWN	46.71	770	J	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216610

Sample wt/vol: 30.1 (g/mL) G Lab File ID: C0624K09

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 27 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/24/92

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

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	4500	U
111-44-4	bis(2-Chloroethyl)Ether	4500	U
95-57-8	2-Chlorophenol	4500	U
541-73-1	1,3-Dichlorobenzene	4500	U
106-46-7	1,4-Dichlorobenzene	4500	U
95-50-1	1,2-Dichlorobenzene	4500	U
95-48-7	2-Methylphenol	4500	U
108-60-1	2,2'-oxybis(1-Chloropropane)	4500	U
106-44-5	4-Methylphenol	4500	U
621-64-7	N-Nitroso-Di-n-Propylamine	4500	U
67-72-1	Hexachloroethane	4500	U
98-95-3	Nitrobenzene	4500	U
78-59-1	Isophorone	4500	U
88-75-5	2-Nitrophenol	4500	U
105-67-9	2,4-Dimethylphenol	4500	U
111-91-1	bis(2-Chloroethoxy)Methane	4500	U
120-83-2	2,4-Dichlorophenol	4500	U
120-82-1	1,2,4-Trichlorobenzene	4500	U
91-20-3	Naphthalene	970	J
106-47-8	4-Chloroaniline	4500	U
87-68-3	Hexachlorobutadiene	4500	U
59-50-7	4-Chloro-3-Methylphenol	4500	U
91-57-6	2-Methylnaphthalene	1600	J
77-47-4	Hexachlorocyclopentadiene	4500	UJ
88-06-2	2,4,6-Trichlorophenol	4500	U
95-95-4	2,4,5-Trichlorophenol	22000	U
91-58-7	2-Chloronaphthalene	4500	U
88-74-4	2-Nitroaniline	22000	UJ
131-11-3	Dimethylphthalate	4500	U
208-96-8	Acenaphthylene	4500	U
606-20-2	2,6-Dinitrotoluene	4500	U
99-09-2	3-Nitroaniline	22000	U
83-32-9	Acenaphthene	4500	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216610

Sample wt/vol: 30.1 (g/mL) G Lab File ID: C0624K09

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 27 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/24/92

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

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	22000	U
100-02-7	4-Nitrophenol	22000	U
132-64-9	Dibenzofuran	4500	U
121-14-2	2,4-Dinitrotoluene	4500	U
84-66-2	Diethylphthalate	4500	U
7005-72-3	4-Chlorophenyl-phenylether	4500	U
86-73-7	Fluorene	4500	U
100-10-6	4-Nitroaniline	22000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	22000	U
86-30-6	N-Nitrosodiphenylamine (1)	4500	UJ
101-55-3	4-Bromophenyl-phenylether	4500	U
118-74-1	Hexachlorobenzene	4500	UJ
87-86-5	Pentachlorophenol	22000	U
85-01-8	Phenanthrene	3600	J
120-12-7	Anthracene	4500	U
86-74-8	Carbazole	4500	UJ
84-74-2	Di-n-Butylphthalate	4500	U
206-44-0	Fluoranthene	2000	J
129-00-0	Pyrene	2400	J
85-68-7	Butylbenzylphthalate	4500	U
91-94-1	3,3'-Dichlorobenzidine	9000	UJ
56-55-3	Benzo(a)Anthracene	1200	J
218-01-9	Chrysene	2300	J
117-81-7	bis(2-Ethylhexyl)Phthalate	4500	U
117-84-0	Di-n-Octyl Phthalate	4500	U
205-99-2	Benzo(b)Fluoranthene	5000	
207-08-9	Benzo(k)Fluoranthene	4500	U
50-32-8	Benzo(a)Pyrene	4500	U
193-39-5	Indeno(1,2,3-cd)Pyrene	3200	J
53-70-3	Dibenz(a,h)Anthracene	4500	UJ
191-24-2	Benzo(g,h,i)Perylene	3800	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 21660

Matrix: (soil/water) SOIL Lab Sample ID: D216610

Sample wt/vol: 30.1 (g/mL) G Lab File ID: C0624K09

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: 27 decanted: (Y/N) N Date Extracted: 05/07/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/24/92

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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

Number TICs found: 29

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIPHATIC KETONE	8.82	130000	~~B~~AJ
2.	UNKNOWN ALIP. HYDROCARBON	22.82	5400	J
3.	UNKNOWN ALIP. HYDROCARBON	23.49	4800	J
4.	UNKNOWN ALIP. HYDROCARBON	24.17	8700	J
5.	UNKNOWN ALIP. HYDROCARBON	24.27	20000	J
6.	UNKNOWN ALIP. HYDROCARBON	25.46	8700	J
7.	UNKNOWN ALIP. HYDROCARBON	25.61	5500	J
8.	UNKNOWN ALIP. HYDROCARBON	26.62	2300	J
9.	UNKNOWN ALIP. HYDROCARBON	26.71	8900	J
10.	UNKNOWN METHYLPHENANTHRENE	27.37	2100	J
11.	UNKNOWN PNA	27.69	1500	J
12.	UNKNOWN ALIP. HYDROCARBON	27.87	7400	J
13.	UNKNOWN ALIP. HYDROCARBON	29.01	6200	J
14.	UNKNOWN	29.89	790	J
15.	UNKNOWN ALIP. HYDROCARBON	30.07	8500	J
16.	UNKNOWN	30.72	1700	J
17.	UNKNOWN ALIP. HYDROCARBON	31.11	6800	J
18.	UNKNOWN	31.61	1300	J
19.	UNKNOWN	31.74	750	J
20.	ALIPHATIC ACID ESTER	32.16	75000	~~B~~J
21.	UNKNOWN	32.44	460	J
22.	UNKNOWN	32.54	2500	J
23.	UNKNOWN	32.86	710	J
24.	UNKNOWN ALIP. HYDROCARBON	33.07	7400	J
25.	UNKNOWN ALIP. HYDROCARBON	34.02	4900	J
26.	UNKNOWN ALIP. HYDROCARBON	35.11	5500	J
7.	UNKNOWN ALIP. HYDROCARBON	36.34	3600	J
28.	UNKNOWN ALIP. HYDROCARBON	37.82	7500	J
29.	UNKNOWN PNA	38.81	9900	J

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G201

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) WATER Lab Sample ID: D216611

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/04/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/12/92

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	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G202

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) WATER Lab Sample ID: D216612

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/04/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/12/92

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	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G203

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) WATER Lab Sample ID: D216613

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/04/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/12/92

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	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G204

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) WATER Lab Sample ID: D216614

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/04/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/12/92

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	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216600

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

% Moisture: 28 decanted: (Y/N) N Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/14/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	2.2	JP
72-55-9	4,4'-DDE	4.6	U
72-20-8	Endrin	4.6	U
33213-65-9	Endosulfan II	4.6	U
72-54-8	4,4'-DDD	4.6	U
1031-07-8	Endosulfan sulfate	4.6	U
50-29-3	4,4'-DDT	4.6	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.6	U
7421-36-3	Endrin aldehyde	4.6	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	92	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	46	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216601

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

% Moisture: 28 decanted: (Y/N) N Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/14/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	3.8	
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	5.8	
72-55-9	4,4'-DDE	2.2	BJP
72-20-8	Endrin	4.6	U
33213-65-9	Endosulfan II	4.6	U
72-54-8	4,4'-DDD	4.6	U
1031-07-8	Endosulfan sulfate	4.6	U
50-29-3	4,4'-DDT	6.2	P
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.6	U
7421-36-3	Endrin aldehyde	4.6	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	92	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	46	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216602

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

% Moisture: 28 decanted: (Y/N) N Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/14/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	0.91	J
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.6	U
72-55-9	4,4'-DDE	4.6	U
72-20-8	Endrin	4.6	U
33213-65-9	Endosulfan II	4.6	U
72-54-8	4,4'-DDD	4.6	U
1031-07-8	Endosulfan sulfate	4.6	U
50-29-3	4,4'-DDT	3.3	JP
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.6	U
7421-36-3	Endrin aldehyde	4.6	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	92	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	46	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216603

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

% Moisture: 26 decanted: (Y/N) N Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/14/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	120	P
72-55-9	4,4'-DDE	4.4	U
72-20-8	Endrin	4.4	U
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4'-DDD	4.4	U
1031-07-8	Endosulfan sulfate	4.4	U
50-29-3	4,4'-DDT	7.4	
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.4	U
7421-36-3	Endrin aldehyde	4.4	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	90	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	44	U
11096-82-5	Aroclor-1260	44	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

ab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216604

Sample wt/vol: 6.5 (g/mL) G Lab File ID: _____

% Moisture: 26 decanted: (Y/N) N Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/14/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	11	U
319-85-7	beta-BHC	11	U
319-86-8	delta-BHC	11	U
58-89-9	gamma-BHC (Lindane)	11	U
76-44-8	Heptachlor	11	P
309-00-2	Aldrin	36	P
1024-57-3	Heptachlor epoxide	5.3	JP
959-98-8	Endosulfan I	11	U
60-57-1	Dieldrin	13	JP
72-55-9	4,4'-DDE	20	U
72-20-8	Endrin	20	U
33213-65-9	Endosulfan II	20	JP
72-54-8	4,4'-DDD	14	JP
1031-07-8	Endosulfan sulfate	20	U
50-29-3	4,4'-DDT	20	U
72-43-5	Methoxychlor	110	U
53494-70-5	Endrin ketone	20	U
7421-36-3	Endrin aldehyde	20	U
5103-71-9	alpha-Chlordane	11	U
5103-74-2	gamma-Chlordane	11	U
8001-35-2	Toxaphene	1100	U
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	600	P
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	200	U
12672-29-6	Aroclor-1248	200	U
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	200	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216605

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

% Moisture: 26 decanted: (Y/N) N Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/14/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	5.0	P
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.2	J
60-57-1	Dieldrin	550	P
72-55-9	4,4'-DDE	6.0	P
72-20-8	Endrin	14	P
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4'-DDD	20	P
1031-07-8	Endosulfan sulfate	4.4	U
50-29-3	4,4'-DDT	4.4	U
72-43-5	Methoxychlor	5.1	JP
53494-70-5	Endrin ketone	4.4	U
7421-36-3	Endrin aldehyde	4.4	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	90	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	170	P
11096-82-5	Aroclor-1260	44	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216606

Sample wt/vol: 5.7 (g/mL) G Lab File ID: _____

% Moisture: 28 decanted: (Y/N) N Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/14/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	12	U
319-85-7	beta-BHC	12	U
319-86-8	delta-BHC	12	JP
58-89-9	gamma-BHC (Lindane)	9.1	JP
76-44-8	Heptachlor	120	P
309-00-2	Aldrin	16	P
1024-57-3	Heptachlor epoxide	49	P
959-98-8	Endosulfan I	16	P
60-57-1	Dieldrin	460	P
72-55-9	4,4'-DDE	24	U
72-20-8	Endrin	25	P
33213-65-9	Endosulfan II	24	U
72-54-8	4,4'-DDD	71	
1031-07-8	Endosulfan sulfate	24	U
50-29-3	4,4'-DDT	24	U
72-43-5	Methoxychlor	120	U
53494-70-5	Endrin ketone	24	U
7421-36-3	Endrin aldehyde	24	U
5103-71-9	alpha-Chlordane	12	U
5103-74-2	gamma-Chlordane	12	U
8001-35-2	Toxaphene	1200	U
12674-11-2	Aroclor-1016	240	U
11104-28-2	Aroclor-1221	490	U
11141-16-5	Aroclor-1232	240	U
53469-21-9	Aroclor-1242	240	U
12672-29-6	Aroclor-1248	240	U
11097-69-1	Aroclor-1254	240	U
11096-82-5	Aroclor-1260	240	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216607

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

% Moisture: 26 decanted: (Y/N) N Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/14/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 5.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	1.2	JP
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	170	
72-55-9	4,4'-DDE	1.8	BJP
72-20-8	Endrin	4.4	U
33213-65-9	Endosulfan II	4.7	
72-54-8	4,4'-DDD	4.4	U
1031-07-8	Endosulfan sulfate	4.4	U
50-29-3	4,4'-DDT	6.9	P
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.4	U
7421-36-3	Endrin aldehyde	4.4	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	90	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	44	U
11096-82-5	Aroclor-1260	44	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216608

Sample wt/vol: 6.4 (g/mL) G Lab File ID: _____

% Moisture: 28 decanted: (Y/N) N Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/14/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	11	U
319-85-7	beta-BHC	11	U
319-86-8	delta-BHC	11	U
58-89-9	gamma-BHC (Lindane)	5.4	JP
76-44-8	Heptachlor	90	P
309-00-2	Aldrin	14	P
1024-57-3	Heptachlor epoxide	46	P
959-98-8	Endosulfan I	17	P
60-57-1	Dieldrin	620	P
72-55-9	4,4'-DDE	21	U
72-20-8	Endrin	23	P
33213-65-9	Endosulfan II	21	U
72-54-8	4,4'-DDD	76	P
1031-07-8	Endosulfan sulfate	54	P
50-29-3	4,4'-DDT	21	U
72-43-5	Methoxychlor	110	U
53494-70-5	Endrin ketone	21	U
7421-36-3	Endrin aldehyde	21	U
5103-71-9	alpha-Chlordane	11	U
5103-74-2	gamma-Chlordane	16	P
8001-35-2	Toxaphene	1100	U
12674-11-2	Aroclor-1016	210	U
11104-28-2	Aroclor-1221	430	U
11141-16-5	Aroclor-1232	210	U
53469-21-9	Aroclor-1242	210	U
12672-29-6	Aroclor-1248	210	U
11097-69-1	Aroclor-1254	210	U
11096-82-5	Aroclor-1260	210	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216609

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

% Moisture: 27 decanted: (Y/N) N Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/14/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	0.96	JP
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	270	
72-55-9	4,4'-DDE	3.4	BJ
72-20-8	Endrin	2.4	JP
33213-65-9	Endosulfan II	2.0	JP
72-54-8	4,4'-DDD	4.5	U
1031-07-8	Endosulfan sulfate	4.5	U
50-29-3	4,4'-DDT	4.6	P
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.5	U
7421-36-3	Endrin aldehyde	4.5	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	45	U
11104-28-2	Aroclor-1221	91	U
11141-16-5	Aroclor-1232	45	U
53469-21-9	Aroclor-1242	45	U
12672-29-6	Aroclor-1248	45	U
11097-69-1	Aroclor-1254	45	U
11096-82-5	Aroclor-1260	45	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113

ab Name: ILLINOIS EPA Contract: 1970305004

Lab Code: SPFLD Case No.: ILIANA SAS No.: _____ SDG No.: 216600

Matrix: (soil/water) SOIL Lab Sample ID: D216610

Sample wt/vol: 6.2 (g/mL) G Lab File ID: _____

% Moisture: 28 decanted: (Y/N) N Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/14/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	11	U
319-85-7	beta-BHC	11	U
319-86-8	delta-BHC	11	U
58-89-9	gamma-BHC (Lindane)	11	U
76-44-8	Heptachlor	11	U
309-00-2	Aldrin	7.8	JP
1024-57-3	Heptachlor epoxide	11	U
959-98-8	Endosulfan I	12	P
60-57-1	Dieldrin	390	P
72-55-9	4,4'-DDE	22	U
72-20-8	Endrin	22	U
33213-65-9	Endosulfan II	43	P
72-54-8	4,4'-DDD	22	U
1031-07-8	Endosulfan sulfate	22	U
50-29-3	4,4'-DDT	22	U
72-43-5	Methoxychlor	31	JP
53494-70-5	Endrin ketone	22	U
7421-36-3	Endrin aldehyde	43	P
5103-71-9	alpha-Chlordane	11	U
5103-74-2	gamma-Chlordane	11	U
8001-35-2	Toxaphene	1100	U
12674-11-2	Aroclor-1016	220	U
11104-28-2	Aroclor-1221	450	U
11141-16-5	Aroclor-1232	220	U
53469-21-9	Aroclor-1242	220	U
12672-29-6	Aroclor-1248	220	U
11097-69-1	Aroclor-1254	370	P
11096-82-5	Aroclor-1260	220	U

IEPA DIVISION of LABORATORIES

QUALITY ASSURANCE SECTION

INORGANIC DATA VALIDATION

Site: Illiana Scrap Laboratory: IEPA Champaign Lab

SDG: 73 Analytical Protocol IL001.0 Review Date: August 11-1992

Reviewer: Chris Bridges Reviewer Signature: Chris Bridges

Number Aqueous Samples: 4 Analytes: Trace Metals, Hg, CN, Sulfide, Sulfate, Others:

Number Solid/Soil Samples: 11 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: Hg holding time criteria exceeded; however, no samples were affected (The criteria for water samples was applied to all samples)

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:

Ba and Na; contamination noted however no samples were affected

Soils:

Ag (-5.1/5.0) X102, X103, X104, X105, X106, X107, X108, X109
X112, X113 are estimated (J)

Ba, Cr, Pb, & Se; contamination noted; however, no samples were 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)

Soils:
Se (1.1/1.0) X101, X102, X108, X112 are flagged (U)
Na (213/114) X102, X103, X104, X106, X108, X112 are flagged (U)
Ba - The prep blank is estimated by the ICB so no samples are qualified on the basis of the prep blank.
Pb, Ca, Cu, Fe, & Zn - contamination noted; however no samples were affected.

Waters:
Cu (5.7/5.0) G201, G202, G203, G204 are flagged (U)
Zn (10.7/8.0) G201, G202, G203, G204 are flagged (U)
Ba; Prep blank is qualified by the ICB so no samples are qualified on the basis of the prep blank.
Ca & Na; contamination noted; however, no samples 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)

Soils: Cr, Co, Cu, Mn, & V - IDL's exceeded; however no samples affected.

Waters: Cd, Cr, Ni, Zn, & V - IDL's exceeded; 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)

Soils Sb 59.2%R X101, X102, X103, X104, X105, X106, X107, X108, X109, X112 and X113 are flagged (UJ)

Waters: 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)

Soils:

Ca 72.1%RPD; X101, X102, X103, X104, X105, X106, X107, X108, X109, X112, X113 are estimated (J)

Mg 48.5 RPD; X101, X102, X103, X104, X105, X106, ~~X104~~ X107 Ca, X108, X109, X112, X113 are estimated (J)

As 46.9 RPD; X101, X102, X103, X104, X105, X106, X107, X108, X109, X112, X113, are estimated (J)

Waters: None

	YES	NO	N/A
VI. Form 5 (Spike Sample Recovery)			
Present 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)

Ba 4.8%R X101, X102, X103, X104, X105, X106, X107, X108, X109, X112, X113 are unusable (R)

Cs 68.3%R X101, X102, X103, X104, X105, X106, X107, X108, X109, X112, X113 are estimated (J)

Mn 400.0 %R X101, X102, X103, X104, X105, X106, X107, X108, X109, X112, X113 are estimated (J)

Mg 71.1%R X101, X102, X103, X104, X105, X106, X107, X108, X109, X112, X113 are flagged (UJ)

Notes:

None

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)

	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		

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

G201

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: ILLIANA SCRAP
Lab Code: Case No.: SAS No.: SDG No.: 73
Matrix (Water): Lab Sample ID: B206286
Level (Low/Med): Date Received: 5/01/92
% Solids:

Concentration Units (ug/L):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	144	U		PM
7440-36-0	Antimony	42.0	U		PM
7440-38-2	Arsenic	2.0	U		FM
7440-39-3	Barium	37.0	B		PM
7440-41-7	Beryllium	1.0	U		PM
7440-43-9	Cadmium	5.0	U		PM
7440-70-2	Calcium	140000			PM
7440-47-3	Chromium	3.0	U		PM
7440-48-4	Cobalt	3.0	U		PM
7440-50-8	Copper	6.0	U ~~B~~		PM
7439-89-6	Iron	880			PM
7439-92-1	Lead	1.0	U		FM
7439-95-4	Magnesium	64100			PM
7439-96-5	Manganese	14.1	B		PM
7439-97-6	Mercury	0.01	U		AV
7440-02-2	Nickel	13.0	U		PM
7440-09-7	Potassium	3130	B		PM
7782-49-2	Selenium	5.0	U		FM
7440-22-4	Silver	5.0	U		PM
7440-23-5	Sodium	49300			PM
7440-28-0	Thallium	3.0	U		FM
7440-62-2	Vanadium	3.0	U		PM
7440-66-6	Zinc	17.8	U ~~B~~		PM
	Cyanide	10.0	U		AS
	Sulfide	1000	U		T
	Sulfate	34200			AS

Color Before: -Colorless- Clarity Before: -Clear- Texture:
Color After: -Colorless- Clarity After: -Clear- Artifacts:
Comments: -SULFIDE SW846 METHODOLOGY-
- -SULFATE IEPA METHODOLOGY-

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

G204

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: ILLIANA SCRAP
Lab Code: Case No.: SAS No.: SDG No.: 73
Matrix (Water): Lab Sample ID: B206287
Level (Low/Med): Date Received: 5/01/92
% Solids:

Concentration Units (ug/L):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	144	U		PM
7440-36-0	Antimony	42.0	U		PM
7440-38-2	Arsenic	2.0	U		FM
7440-39-3	Barium	36.7	B		PM
7440-41-7	Beryllium	1.0	U		PM
7440-43-9	Cadmium	5.0	U		PM
7440-70-2	Calcium	141000			PM
7440-47-3	Chromium	3.0	U		PM
7440-48-4	Cobalt	3.0	U		PM
7440-50-8	Copper	5.0	U		PM
7439-89-6	Iron	946			PM
7439-92-1	Lead	1.7	B		FM
7439-95-4	Magnesium	64100			PM
7439-96-5	Manganese	13.8	B		PM
7439-97-6	Mercury	0.01	U		AV
7440-02-2	Nickel	13.0	U		PM
7440-09-7	Potassium	2740	B		PM
7782-49-2	Selenium	5.0	U		FM
7440-22-4	Silver	5.0	U		PM
7440-23-5	Sodium	49100			PM
7440-28-0	Thallium	3.0	U		FM
7440-62-2	Vanadium	3.0	U		PM
7440-66-6	Zinc	27.4	U		PM
	Cyanide	10.0	U		AS
	Sulfide	1000	U		T
	Sulfate	332000			AS

Color Before: Colorless Clarity Before: Clear Texture:
Color After: Colorless Clarity After: Clear Artifacts:
Comments: SULFIDE SW846 METHODOLOGY
SULFATE IEPA METHODOLOGY

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

G202

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: ILLIANA SCRAP
Lab Code: Case No.: SAS No.: SDG No.: 73
Matrix (Water): Lab Sample ID: B206288
Level (Low/Med): Date Received: 5/01/92
% Solids:

Concentration Units (ug/L):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	144	U		PM	
7440-36-0	Antimony	42.0	U		PM	
7440-38-2	Arsenic	2.0	U		FM	
7440-39-3	Barium	31.7	B		PM	
7440-41-7	Beryllium	1.0	U		PM	
7440-43-9	Cadmium	5.0	U		PM	
7440-70-2	Calcium	143000			PM	
7440-47-3	Chromium	3.0	U		PM	
7440-48-4	Cobalt	3.0	U		PM	
7440-50-8	Copper	6.4	~~B~~ U		PM	
7439-89-6	Iron	3180			PM	
7439-92-1	Lead	1.0	U		FM	
7439-95-4	Magnesium	61700			PM	
7439-96-5	Manganese	55.0			PM	
7439-97-6	Mercury	0.01	U		AV	
7440-02-2	Nickel	13.0	U		PM	
7440-09-7	Potassium	2800	B		PM	
7782-49-2	Selenium	1.0	U	W	FM	J
7440-22-4	Silver	5.0	U		PM	
7440-23-5	Sodium	33700			PM	
7440-28-0	Thallium	3.0	U		FM	
7440-62-2	Vanadium	3.0	U		PM	
7440-66-6	Zinc	19.9	~~B~~ U		PM	
	Cyanide	10.0	U		AS	
	Sulfide	1000	U		T	
	Sulfate	356000			AS	

Color Before: -Colorless- Clarity Before: Clear Texture:
Color After: -Colorless- Clarity After: Clear Artifacts:
Comments: SULFIDE SW846 METHODOLOGY
SULFATE IEPA METHODOLOGY

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

G203

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: ILLIANA SCRAP
Lab Code: Case No.: SAS No.: SDG No.: 73
Matrix (Water): Lab Sample ID: B206289
Level (Low/Med): Date Received: 5/01/92
% Solids:

Concentration Units (ug/L):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	144	U		PM
7440-36-0	Antimony	42.0	U		PM
7440-38-2	Arsenic	2.0	U		FM
7440-39-3	Barium	58.9	B		PM
7440-41-7	Beryllium	1.0	U		PM
7440-43-9	Cadmium	5.0	U		PM
7440-70-2	Calcium	91200			PM
7440-47-3	Chromium	3.0	U		PM
7440-48-4	Cobalt	3.0	U		PM
7440-50-8	Copper	5.5	U ~~B~~		PM
7439-89-6	Iron	2380			PM
7439-92-1	Lead	1.0	U		FM
7439-95-4	Magnesium	40400			PM
7439-96-5	Manganese	39.4			PM
7439-97-6	Mercury	0.01	U		AV
7440-02-2	Nickel	13.0	U		PM
7440-09-7	Potassium	1570	B		PM
7782-49-2	Selenium	1.0	U	W	FM J
7440-22-4	Silver	5.0	U		PM
7440-23-5	Sodium	6610			PM
7440-28-0	Thallium	3.0	U		FM
7440-62-2	Vanadium	3.0	U		PM
7440-66-6	Zinc	37.1	U		PM
	Cyanide	10.0	U		AS
	Sulfide	1000	U		T
	Sulfate	155000			AS

Color Before: -Colorless- Clarity Before: Clear Texture:
Color After: -Colorless- Clarity After: Clear Artifacts:
Comments: SULFIDE SW846 METHODOLOGY
SULFATE IEPA METHODOLOGY

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: ILLIANA SCRAP
Lab Code: Case No.: SAS No.: SDG No.: 73
Matrix (Soil): Lab Sample ID: B206290
Level (Low/Med): Date Received: 5/01/92
% Solids: 77.5

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	22100			PM	
7440-36-0	Antimony	5.4	U	N	PM	R
7440-38-2	Arsenic	9.98		S,N,*	FM	J
7440-39-3	Barium	91.1			PM	
7440-41-7	Beryllium	0.99			PM	
7440-43-9	Cadmium	0.64	U		PM	
7440-70-2	Calcium	15900		*	PM	J
7440-47-3	Chromium	28.9			PM	
7440-48-4	Cobalt	11.8			PM	
7440-50-8	Copper	21.0			PM	
7439-89-6	Iron	24100			PM	
7439-92-1	Lead	34.06			FM	
7439-95-4	Magnesium	12300		*	PM	J
7439-96-5	Manganese	481		N	PM	J
7439-97-6	Mercury	0.06	B		AS	
7440-02-2	Nickel	28.2			PM	
7440-09-7	Potassium	5820		*	PM	
7782-49-2	Selenium	0.64	U	W	FM	J
7440-22-4	Silver	0.64	U	N	PM	J
7440-23-5	Sodium	150	B		PM	
7440-28-0	Thallium	0.39	U		FM	
7440-62-2	Vanadium	35.5		N	PM	
7440-66-6	Zinc	89.2			PM	
	Cyanide	1.1	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.

X102

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: ILLIANA SCRAP
Lab Code: Case No.: SAS No.: SDG No.: 73
Matrix (Soil): Lab Sample ID: B206291
Level (Low/Med): Date Received: 5/01/92
% Solids: 78.2

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	14800			PM	
7440-36-0	Antimony	5.4	U	N	PM	R
7440-38-2	Arsenic	4.8		N,*	FM	J
7440-39-3	Barium	121			PM	
7440-41-7	Beryllium	0.70			PM	
7440-43-9	Cadmium	0.64	U		PM	
7440-70-2	Calcium	2500		*	PM	J
7440-47-3	Chromium	19.5			PM	
7440-48-4	Cobalt	4.6	B		PM	
7440-50-8	Copper	17.4			PM	
7439-89-6	Iron	16300			PM	
7439-92-1	Lead	64.8			FM	
7439-95-4	Magnesium	2350		*	PM	J
7439-96-5	Manganese	313		N	PM	J
7439-97-6	Mercury	0.08	B		AS	
7440-02-2	Nickel	13.1			PM	
7440-09-7	Potassium	2120		*	PM	
7782-49-2	Selenium	0.20	U ~~B~~	W	FM	J
7440-22-4	Silver	0.64	U	N	PM	J
7440-23-5	Sodium	91.6	U ~~B~~		PM	
7440-28-0	Thallium	0.38	U		FM	
7440-62-2	Vanadium	24.6		N	PM	
7440-66-6	Zinc	88.0			PM	
	Cyanide	1.1	U		AS	

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

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U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

ab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: ILLIANA SCRAP
ab Code: Case No.: SAS No.: SDG No.: 73
atrix (Soil): Lab Sample ID: B206292
evel (Low/Med): Date Received: 5/01/92
Solids: 79.4

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	8050			PM	
7440-36-0	Antimony	5.3	U	N	PM	R
7440-38-2	Arsenic	3.09		N,*	FM	J
7440-39-3	Barium	59.2			PM	
7440-41-7	Beryllium	0.43	B		PM	
7440-43-9	Cadmium	0.63	U		PM	
7440-70-2	Calcium	11500		*	PM	J
7440-47-3	Chromium	12.8			PM	
7440-48-4	Cobalt	5.1	B		PM	
7440-50-8	Copper	11.4			PM	
7439-89-6	Iron	9670			PM	
7439-92-1	Lead	33.8			FM	
7439-95-4	Magnesium	6750		*	PM	J
7439-96-5	Manganese	343		N	PM	J
7439-97-6	Mercury	0.08	B		AS	
7440-02-2	Nickel	11.3			PM	
7440-09-7	Potassium	1300		*	PM	
7782-49-2	Selenium	0.13	U	W	FM	J
7440-22-4	Silver	0.63	U	N	PM	J
7440-23-5	Sodium	90.9	U R		PM	
7440-28-0	Thallium	0.38	U		FM	
7440-62-2	Vanadium	15.5		N	PM	
7440-66-6	Zinc	77.3			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

X104

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: ILLIANA SCRAP
Lab Code: Case No.: SAS No.: SDG No.: 73
Matrix (Soil): Lab Sample ID: B206293
Level (Low/Med): Date Received: 5/01/92
% Solids: 74.4

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	15600			PM	
7440-36-0	Antimony	6.1	U	N	PM	R
7440-38-2	Arsenic	6.57		N,*	FM	J
7440-39-3	Barium	143			PM	
7440-41-7	Beryllium	0.73	B		PM	
7440-43-9	Cadmium	0.73	U		PM	
7440-70-2	Calcium	3190		*	PM	J
7440-47-3	Chromium	20			PM	
7440-48-4	Cobalt	9.2			PM	
7440-50-8	Copper	48.2			PM	
7439-89-6	Iron	17700			PM	
7439-92-1	Lead	90.52			FM	
7439-95-4	Magnesium	2410		*	PM	J
7439-96-5	Manganese	926		N	PM	J
7439-97-6	Mercury	0.09	B		AS	
7440-02-2	Nickel	13.9			PM	
7440-09-7	Potassium	2510		*	PM	
7782-49-2	Selenium	0.25	B	W	FM	J
7440-22-4	Silver	0.73	U	N	PM	J
7440-23-5	Sodium	75.9	~~B~~ U		PM	
7440-28-0	Thallium	0.44	U		FM	
7440-62-2	Vanadium	32.9		N	PM	
7440-66-6	Zinc	99.7			PM	
	Cyanide	1.1	U		AS	

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

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F000010

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: ILLIANA SCRAP
Lab Code: Case No.: SAS No.: SDG No.: 73
Matrix (Soil): Lab Sample ID: B206294
Level (Low/Med): Date Received: 5/01/92
% Solids: 60.1

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	11900			PM	
7440-36-0	Antimony	7.3	U	N	PM	R
7440-38-2	Arsenic	13.93		N,*	FM	J
7440-39-3	Barium	116			PM	
7440-41-7	Beryllium	2.2			PM	
7440-43-9	Cadmium	4.4			PM	
7440-70-2	Calcium	24700		*	PM	J
7440-47-3	Chromium	20.5			PM	
7440-48-4	Cobalt	12.7			PM	
7440-50-8	Copper	663			PM	
7439-89-6	Iron	44300			PM	
7439-92-1	Lead	132		S	FM	
7439-95-4	Magnesium	9680		*	PM	J
7439-96-5	Manganese	452		N	PM	J
7439-97-6	Mercury	~~0.69~~ 0.71	B		AS	
7440-02-2	Nickel	38.5			PM	
7440-09-7	Potassium	2260		*	PM	
7782-49-2	Selenium	1.82		S	FM	
7440-22-4	Silver	0.86	U	N	PM	J
7440-23-5	Sodium	285	B		PM	
7440-28-0	Thallium	0.99	B	W	FM	J
7440-62-2	Vanadium	39.5		N	PM	
7440-66-6	Zinc	484			PM	
	Cyanide	1.4	U		AS	

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

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SOIL

6000011

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO
X106

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: ILLIANA SCRAP
Lab Code: Case No.: SAS No.: SDG No.: 73
Matrix (Soil): Lab Sample ID: B206295
Level (Low/Med): Date Received: 5/01/92
% Solids: 67.9

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	23200			PM	
7440-36-0	Antimony	6.9	U	N	PM	R
7440-38-2	Arsenic	14.02		N,*	FM	J
7440-39-3	Barium	111			PM	
7440-41-7	Beryllium	1.6			PM	
7440-43-9	Cadmium	1.1			PM	
7440-70-2	Calcium	5400		*	PM	J
7440-47-3	Chromium	36.4			PM	
7440-48-4	Cobalt	12.7			PM	
7440-50-8	Copper	70.8			PM	
7439-89-6	Iron	37100			PM	
7439-92-1	Lead	162			FM	
7439-95-4	Magnesium	5960		*	PM	J
7439-96-5	Manganese	335		N	PM	J
7439-97-6	Mercury	~~0.16~~ 0.17 CB			AS	
7440-02-2	Nickel	36.2			PM	
7440-09-7	Potassium	4940		*	PM	
7782-49-2	Selenium	0.69		S	FM	
7440-22-4	Silver	0.82	U	N	PM	J
7440-23-5	Sodium	170	~~R~~ CC		PM	
7440-28-0	Thallium	0.49	U		FM	
7440-62-2	Vanadium	44.5		N	PM	
7440-66-6	Zinc	246			PM	
	Cyanide	1.2	U		AS	

Color Before: Black 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.

X107

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: ILLIANA SCRAP
Lab Code: Case No.: SAS No.: SDG No.: 73
Matrix (Soil): Lab Sample ID: B206296
Level (Low/Med): Date Received: 5/01/92
% Solids: 81.9

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2540			PM	
7440-36-0	Antimony	9.9	U	N	PM	R
7440-38-2	Arsenic	9.59		N,*	FM	J
7440-39-3	Barium	32.4			PM	
7440-41-7	Beryllium	1.4			PM	
7440-43-9	Cadmium	1.5			PM	
7440-70-2	Calcium	8980		*	PM	J
7440-47-3	Chromium	12.3			PM	
7440-48-4	Cobalt	5.7	B		PM	
7440-50-8	Copper	40.3			PM	
7439-89-6	Iron	35400			PM	
7439-92-1	Lead	78.96			FM	
7439-95-4	Magnesium	3960		*	PM	J
7439-96-5	Manganese	299		N	PM	J
7439-97-6	Mercury	0.11	B		AS	
7440-02-2	Nickel	17.5			PM	
7440-09-7	Potassium	790	B	*	PM	
7782-49-2	Selenium	1.1		S	FM	
7440-22-4	Silver	1.2	U	N	PM	J
7440-23-5	Sodium	263	B		PM	
7440-28-0	Thallium	0.70	U	W	FM	J
7440-62-2	Vanadium	18.1		N	PM	
7440-66-6	Zinc	370			PM	
	Cyanide	1.0	U		AS	

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

B000013

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U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

X108

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: ILLIANA SCRAP
Lab Code: Case No.: SAS No.: SDG No.: 73
Matrix (Soil): Lab Sample ID: B206297
Level (Low/Med): Date Received: 5/01/92
% Solids: 68.3

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	20600			PM	
7440-36-0	Antimony	5.9	U	N	PM	R
7440-38-2	Arsenic	7.05		N,*	FM	J
7440-39-3	Barium	130			PM	
7440-41-7	Beryllium	0.87			PM	
7440-43-9	Cadmium	0.70	U		PM	
7440-70-2	Calcium	2040		*	PM	J
7440-47-3	Chromium	26.2			PM	
7440-48-4	Cobalt	7.6			PM	
7440-50-8	Copper	24.2			PM	
7439-89-6	Iron	20800			PM	
7439-92-1	Lead	39.06			FM	
7439-95-4	Magnesium	3010		*	PM	J
7439-96-5	Manganese	573		N	PM	J
7439-97-6	Mercury	0.04	B		AS	
7440-02-2	Nickel	18.9			PM	
7440-09-7	Potassium	3550		*	PM	
7782-49-2	Selenium	0.25	~~R~~ U	W	FM	J
7440-22-4	Silver	0.70	U	N	PM	J
7440-23-5	Sodium	102	~~R~~ U		PM	
7440-28-0	Thallium	0.42	U		FM	
7440-62-2	Vanadium	36.3		N	PM	
7440-66-6	Zinc	96.3			PM	
	Cyanide	1.2	U		AS	

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

6000014

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SOIL

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U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: ILLIANA SCRAP
Lab Code: Case No.: SAS No.: SDG No.: 73
Matrix (Soil): Lab Sample ID: B206298
Level (Low/Med): Date Received: 5/01/92
% Solids: 83.9

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9000			PM	
7440-36-0	Antimony	4.8	U	N	PM	R
7440-38-2	Arsenic	33.24		N,*	FM	J
7440-39-3	Barium	80.1			PM	
7440-41-7	Beryllium	1.3			PM	
7440-43-9	Cadmium	2.3			PM	
7440-70-2	Calcium	17100		*	PM	J
7440-47-3	Chromium	24			PM	
7440-48-4	Cobalt	7.2			PM	
7440-50-8	Copper	716			PM	
7439-89-6	Iron	47400			PM	
7439-92-1	Lead	455		S	FM	
7439-95-4	Magnesium	1210		*	PM	J
7439-96-5	Manganese	320		N	PM	J
7439-97-6	Mercury	~~0.11~~ 0.12 CB	B		AS	
7440-02-2	Nickel	30.3			PM	
7440-09-7	Potassium	770		*	PM	
7782-49-2	Selenium	1.44		W	FM	J
7440-22-4	Silver	0.58	U	N	PM	J
7440-23-5	Sodium	593			PM	
7440-28-0	Thallium	0.34	U		FM	
7440-62-2	Vanadium	22.0		N	PM	
7440-66-6	Zinc	1460			PM	
	Cyanide	0.99	U		AS	

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

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: ILLIANA SCRAP
Lab Code: Case No.: SAS No.: SDG No.: 73
Matrix (Soil): Lab Sample ID: B206299
Level (Low/Med): Date Received: 5/01/92
% Solids: 70.3

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	20400			PM	
7440-36-0	Antimony	6.0	U	N	PM	R
7440-38-2	Arsenic	8.3		N,*	FM	J
7440-39-3	Barium	148			PM	
7440-41-7	Beryllium	0.95			PM	
7440-43-9	Cadmium	0.71	U		PM	
7440-70-2	Calcium	2770		*	PM	J
7440-47-3	Chromium	26.4			PM	
7440-48-4	Cobalt	11.5			PM	
7440-50-8	Copper	29.0			PM	
7439-89-6	Iron	23300			PM	
7439-92-1	Lead	40.6			FM	
7439-95-4	Magnesium	3220		*	PM	J
7439-96-5	Manganese	1070		N	PM	J
7439-97-6	Mercury	~~0.08~~ 0.39	B		AS	
7440-02-2	Nickel	19.8			PM	
7440-09-7	Potassium	3590		*	PM	
7782-49-2	Selenium	0.34	~~B~~ U	W	FM	J
7440-22-4	Silver	0.71	U	N	PM	J
7440-23-5	Sodium	101	~~B~~ U		PM	
7440-28-0	Thallium	0.43	U		FM	
7440-62-2	Vanadium	38.6		N	PM	
7440-66-6	Zinc	100.0			PM	
	Cyanide	1.2	U		AS	

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

B000016

FORM I - IN
SOIL

3/90

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: ILLIANA SCRAP
Lab Code: Case No.: SAS No.: SDG No.: 73
Matrix (Soil): Lab Sample ID: B206300
Level (Low/Med): Date Received: 5/01/92
% Solids: 84.1

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	11000			PM	
7440-36-0	Antimony	10.0	U	N	PM	R
7440-38-2	Arsenic	52.84		N,*	FM	J
7440-39-3	Barium	116			PM	
7440-41-7	Beryllium	2.0			PM	
7440-43-9	Cadmium	2.7			PM	
7440-70-2	Calcium	5110		*	PM	J
7440-47-3	Chromium	60.2			PM	
7440-48-4	Cobalt	11.1			PM	
7440-50-8	Copper	933			PM	
7439-89-6	Iron	82300			PM	
7439-92-1	Lead	1237			FM	
7439-95-4	Magnesium	1950		*	PM	J
7439-96-5	Manganese	485		N	PM	J
7439-97-6	Mercury	~~0.13~~ 0.14 CB			AS	
7440-02-2	Nickel	47.4			PM	
7440-09-7	Potassium	1100	B	*	PM	
7782-49-2	Selenium	1.45		S	FM	
7440-22-4	Silver	1.2	U	N	PM	J
7440-23-5	Sodium	798	B		PM	
7440-28-0	Thallium	0.71	U	W	FM	J
7440-62-2	Vanadium	30.7		N	PM	
7440-66-6	Zinc	1870			PM	
	Cyanide	0.99	U		AS	

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

B000017

APPENDIX H

Analytical Results of April 29, 1992
Screening Site Inspection Samples
Analyzed for 2,3,7,8-Tetrachlorodibenzodioxin

L197 030 5004 - Will County
Illiana Scrap Processing / Crete
ILD 984 791 673
Superfund - Technical Reports

UNITED STATES ENVIRONMENTAL PROTECTION AG
REGION V.

DATE: 9/9/92

SUBJECT: Review of Region V CLP Data
Received for Review on Aug 14, 1992

FROM: Charles T. Elly, Director(SSCRL)
Central Regional Laboratory
Patrick J. Chunilla for C.T. Elly

TO: Data User: IEPA

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

SITE NAME: Illiana Scrap Processing (IL) SMO Case No. SAS 7303E

EPA Data Set No. _____ No. of Samples 9 DU/Activity Numbers _____

CRL No. _____

SMO Traffic No. E01-E09 + (FIV636 + HFP 229)

CLP Laboratory: TMS Analytical Hrs. for Review 8hrs

Following are our findings:

THIS DATA HAS NOT BEEN REVIEWED.
THE DATA ARE PRELIMINARY. PENDING REVIEW.
Patrick J. Chunilla
9/9/92

( ) Data are acceptable for use.
( ) Data are acceptable for use with qualifications.
(X) Data are preliminary - pending verification by laboratory.
( ) Data are unacceptable.

cc: Elenor McLean, Sample Mgmt. Office
Edward Kantor, EMSL-Las Vegas

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No._____ CERCLIS No. (IL)

Case No. SAS73032 Site Name Location: Elliana Scrap Processing

Contractor or EPA Lab: TMS Analytical Data User: IEPA

No. of Samples: 9 Date Samples or Data Received: 8-14-92

Have Chain-of-Custody records been received? YES ✓ NO____
Have traffic reports or packing lists been received? YES ✓ NO____
If no, are traffic report or packing list numbers written on the chain-of-custody record? YES____ NO____
If no, which traffic report or packing list numbers are missing?

_____ _____ _____ _____
_____ _____ _____ _____

Are basic data forms in? YES ✓ NO____
No. of samples claimed: 9 No. of samples received: 9

Received by: Lynette Burnett Date: 8-14-92

Received by LSCS: DMM Date: 8-14-92

Review started:_____ Reviewer Signature:_____

Total time spent on review:_____ Date review completed:_____

Copied by: Patricia J. Chmilla Date: 9/9/92

Mailed to user by: Pat Chmilla Date: 9/9/92

DATA USERS:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, SSCRL

Data received by:_____ Date:_____

Data review received by:_____ Date:_____
Inorganic Data Complete( ) Suitable for Intended Purpose( ) ✓if OK
Organic Data Complete ( ) Suitable for Intended Purpose( ) list
Dioxin Data Complete ( ) Suitable for Intended Purpose( ) prblms
SAS Data Complete ( ) Suitable for Intended Purpose( ) below.
PROBLEMS: Please indicate reasons why data are not suitable for your uses.

_____

_____

Received by Data Mgmt. Coordinator for Files Date:_____

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. _____ SDG No. E01 SDG Nos. To Follow _____ _____ _____ SAS No. 7303E Date Rcvd 8/14/92

EPA Lab ID: TMS Analytical

Lab Location: Indianapolis, IN

Region: V Audit No.: _____

Re-Submitted CSF? Yes___ No___

Box No(s): _____

COMMENTS:

HS Custody Seals were present at time of arrival

Over for additional comments.

ITEMS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	✓		
2. Intact upon receipt?	✓		
FORM DC-2			
3. Numbering scheme accurate?			
4. Are enclosed documents listed?			
5. Are listed documents enclosed?			
FORM DC-1			
6. Present?			
7. Complete?			
8. Accurate?			
CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?			
10. Dated?			
TRAFFIC REPORT(s) PACKING LIST(s)			
11. Signed?			
12. Dated?			
AIRBILLS/AIRBILL STICKER			
13. Present?			
14. Signed?			
15. Dated?			
SAMPLE TAGS			
16. Does DC-1 list tags as being included?			–
17. Present?			–
ALL DOCUMENTS			
18. Activities identified?		–	
19. Legible?			
20. Original?			
20a. If "NO," does the copy indicate where original documents are located?			

Received by: Lynette Burnett Lynette Burnett / Data Coord. Date 8/14/92

Audited by: _____ _____ Date __/__/__

Audited by: _____ _____ Date __/__/__

Signature Printed Name/Title

TO BE COMPLETED BY CEAT

Date Rcvd by CEAT: ___/___/___ Date Entered: ___/___/___ Date Reviewed: ___/___/___

Entered by: _____ _____

Reviewed by: _____ _____

Signature Printed Name/Title

TMS
Analytical Services

August 13, 1992

RECEIVED
AUG 14 1992
US EPA ... REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

Chuck Elly
USEPA Region V, ESD
536 S. Clark Street
Tenth Floor, 5SCRL
Chicago, IL 60605

Dear Mr. Elly:

Enclosed is the CSF original data package for the analysis of nine (9) soil samples, one PEM and one PEM blank soil for low concentration 2,3,7,8,-TCDD by 8/88 SOW (routine turn around time). The soil samples were received for analysis on July 2, 1992 at 10:30 as case 7303-E under **SAS Contract No. 7303-E.**

This hardcopy report was shipped by UPS on August 13, 1992 to arrive on August 14, 1992.

If you should have any questions regarding this data or this report, please feel free to contact a client services representative at (317) 875-5894.

Sincerely,

Dale M. Pershing

Dale M. Pershing
Document Control Officer

enclosure:

cc: Maka Grogard
Sample Management Office
300 N. Lee Street, Ste. 200
Alexandria, VA 22314

TMS Analytical Services

RECEIVED
AUG 14 1992
US EPA REGIONAL LAB.
5 S. CLARK ST.
CHICAGO, ILLINOIS 60605

TMS Analytical Services, Indianapolis, IN

Case No. 7303-E SDG No. 7303-E-01 SDG Nos. to follow none

SAS No. 7303-E Contract No. 68-D9-0135 SOW No. 8/88 (ROUT)

	PAGES FROM:	TO:	CHECK LAB:	EPA:
1. Document Inventory Sheet (DC-2)				
2. SDG Case Narrative	000000	000001	DMP	
3. Data Summary	000002	000011	DMP	
TCDD Final Data Report (FORM B-1)				
Initial Calibration Summary (FORM B-2)				
Routine Calibration Summary (FORM B-3)				
Quality Control Summary (FORM B-4)				
4. Raw Data (blank, samples, and QC)	000012	000100	DMP	
5. Standards Data				
Initial Calibration Chromatograms	000101	000178	DMP	
Routine Calibration Chromatograms	000179	000190	DMP	
Column Performance (Beginning & Ending)	000191	000214	DMP	
6. Miscellaneous Data				
Sample Tracking Record (prep log)	000215	000215	DMP	
Sequence Files (instrument run logs)	000216	000219	DMP	
Additional Supporting Raw Data	000220	000240	DMP	
7. EPA Shipping/Receiving Documents				
Airbills	000241	000242	DMP	
Chain-of-Custody Records	000243	000252	DMP	
Sample Tags	000254	000254	DMP	
Sample Log-In Sheet (DC-1)	000255	000255	DMP	
Cover Sheet	000256	000256	DMP	
PE Forms (from ICF)	000257	000260	DMP	
8. Other Records				
Communication Records	000260	000264	DMP	
SAS Order	000265	000270	DMP	

9. Comments: contained in narrative

Completed by: Dale M. Pershing (Signature) Dale M. Pershing (Printed Name/Title) 8/13/92 (Date)
(Lab)

Audited by: _____ (Signature) _____ (Printed Name/Title) _____ (Date)
(EPA)

SDG NARRATIVE

Laboratory Name: TMS Analytical Services, Inc.

VIAR Prime Contract No.: 68-D9-0135 SAS Contract / Order No.: 7303-E Case No.: 7303-E

TCDD

RECEIVED
AUG 14 1992
US EPA ... REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

EPA Sample No.:	Lab ID No.:
E01	0545-01
E02	0545-02
E03	0545-03
E04	0545-04
E05	0545-05
E06	0545-06
E07	0545-07
E08	0545-08
E09	0545-09
E09	0545-09S
FIV636	0545-10
HFP229	0545-11

Narrative of Method/Deviations/Problems Encountered: Contained of following page.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Kelly E. Mills
(signature lab manager/designee)

Kelly E. Mills Technicial Manager 8-13-92
(signer's name) (title) (date)

TMS
Analytical Services

SAS 7303E CASE NARRATIVE

Samples for SAS 7303E were received on July 2, 1992. These samples were inspected, logged, and assigned laboratory identification numbers according to the current S.O.P. Any discrepancies noted during this process have been documented on the chain of custody.

The samples were spiked according to the protocol published in 8/88 S.O.W. for Analysis of 2,3,7,8-TCDD for Routine Turnaround Analysis, and the procedures specified for Alternative II were followed. Jar extraction was utilized as specified in the above referenced method. Extract clean-up employed alumina, silica, and carbon/celite chromatography. The recovery standard added prior to analysis was also specified by Alternative II procedures.

No particular problems were encountered during analysis. Samples E03 and E04 had lower than normal recovery of the internal standard. However, for both of these samples, the detection limits and signal to noise ratio for the surrogate were achieved. Sample FIV636 surrogate's signal to noise ratio was outside of the control limit despite having excellent recovery of the internal standard. No apparent reason for this occurrence is available.

Both P.E. samples were found to be non-detect. Sample FIV636 was found to contain 0.26 ppb of 1,2,3,4-TCDD but no 2,3,7,8-TCDD. These extracts were analyzed in duplicate to ensure than no transcription error was present during the creation of the batch file. The duplicate analysis confirmed no such error and can be found in the Supporting Documentation Section of the case file. Due to time constraints and instrument availability, sample FIV636 was not re-extracted and reanalyzed.

The sample identified as LCS is the laboratory control sample, and 90% of the spike amount added was recovered. All other QA/QC criteria, with the exception of 37Cl signal to noise ratio on FIV636, fell within the documented guidelines.

PRELIMINARY DATA 9/9/92

FORM B-1S TCDD SOIL DATA REPORT FORM

Lab: IMS ANALYTICAL SERVICES

Report Date: 8/10/92

Case: SAS 7303E

Column: SP2331: 60M X 0.25
ISOMER SPECIFIC FOR 2,3,7,8-TCDD

Instrument ID: HP 5970MSD

CLIENT Sample Number	Extr. Date	Wet Wt.	ug/kg Meas.	TCDD MPC	GC/MS Date	Analysis Time	SURR. S/N Ratio	% REC. (IS)
MB	7/7/92	10.11	0.00	0.08	8/10/92	0052	7.3	70.7
E01	7/7/92	10.14	0.00	0.11	8/10/92	0130	4.4	30.5
E02	7/7/92	10.09	0.00	0.07	8/10/92	0208	7.3	63.3
E03	7/7/92	10.27	0.00	0.57	8/10/92	0246	3.7	6.3
E04	7/7/92	10.19	0.00	0.69	8/10/92	0324	2.4	6.7
E05	7/7/92	10.47	0.00	0.22	8/10/92	0402	7.3	59.1
E05-D	7/7/92	10.09	0.00	0.87	8/10/92	0440	2.4	27.4
E06	7/7/92	9.96	0.39	ERR	8/10/92	0518	9.0	61.2
E07	7/7/92	10.61	0.00	0.10	8/10/92	0556	7.3	64.3
E08	7/7/92	10.04	0.00	0.68	8/10/92	1153	4.4	32.6
E09	7/7/92	9.98	0.00	0.22	8/10/92	1231	7.3	73.4
E09-N	7/7/92	10.00	1.00	ERR	8/10/92	1426	7.3	46.3
FIV636	7/7/92	9.99	0.00	0.40	8/10/92	1309	1.7	105.2
HFP223	7/7/92	10.00	0.00	0.35	8/10/92	1347	3.7	21.4
LCS	7/7/92	9.96	0.90	ERR	8/10/92	1504	7.3	60.4

MB	MB =	Method Blank	FB =	Field Blank
N	N =	Native TCDD Spike	IS =	Internal Standard
D	D =	Duplicate/Fortified Field Blank	RR =	Rerun
PE	PE =	EMSL-LV Performance Evaluation Sample	ND =	Not Detected
MPC	MPC =	Maximum Possible Concentration	RS =	Recovery Standard

Lab: TMS ANALYTICAL SERVICES

Report Date: 8/10/92

Case: SAS 7303E

Column: SP2331; 60M X 0.25
ISOMER SPECIFIC FOR 2,3,7,8-TCDD

Instrument ID: HP 5970MSD #2

CLIENT Sample Number	Relative Response Ratios 320/322	332/334IS	332/334RS	Response (Area) 259	320	322	328	332IS	334IS	332RS	334RS
MB	ERR	0.76	0.80				2162	24402	32185	37221	46602
E01	ERR	0.75	0.79				1215	12966	17225	45692	57875
E02	ERR	0.77	0.79				3056	35936	46947	60396	76683
E03	ERR	0.72	0.79				327	1980	2769	34600	43962
E04	ERR	0.84	0.80				118	1494	1778	22686	28245
E05	ERR	0.77	0.79				2140	26957	35018	48423	61272
E05-D	ERR	0.69	0.77				119	2310	3341	9360	12193
E06	0.77	0.76	0.76	1085	3855	5030	7445	46038	60181	78504	103163
E07	ERR	0.78	0.79				9443	115932	148524	189938	240179
E08	ERR	0.74	0.74				360	2939	3978	9458	12779
E09	ERR	0.78	0.78				6128	81434	104262	116308	148545
E09-N	0.75	0.78	0.80	1473	5524	7391	2298	26396	34013	60523	76068
FIV636	ERR	0.80	0.77				238	8036	10027	7751	10044
HFP229	ERR	0.75	0.79				581	4458	5954	22482	28494
LCS	0.78	0.77	0.79	1644	4631	5964	2065	24092	31433	42316	53883

MB = Method Blank
N = Native TCDD Spike
D = Duplicate/Fortified Field Blank
PE = EMSL-LV Performance Evaluation Sample
MPC = Maximum Possible Concentration

FB = Field Blank
IS = Internal Standard
RR = Rerun
ND = Not Detected
RS = Recovery Standard

FORM B-1S TCDD SOIL DATA REPORT FORM

Lab: TMS ANALYTICAL SERVICES

Case: SAS 7303E

Instrument ID: HP 5970MSD

CLIENT Sample Number	PEAK HEIGHT: NOISE & SIGNAL SURR SIGNAL	SURR NOISE	NATIVE SIGNAL	INTERNAL STD SIGNAL
MB	22	3	30	4500
E01	22	5	28	3000
E02	22	3	30	5000
E03	22	6	25	500
E04	22	9	30	500
E05	22	3	100	5000
E05-D	22	9	45	600
E06	9	1		
E07	22	3	200	22000
E08	22	5	35	600
E09	22	3	300	16000
E09-N	22	3		
FIV636	20	12	50	1450
HFP229	22	6	30	1000
LCS	22	3		

FORM B-2

INITIAL CALIBRATION SUMMARY

Laboratory: TMS ANALYTICAL SERVICES

CC Solution Alternative: II

Instrument ID: HP5970MSD

Date	Time	Sol. ID	Measured RRFn	Mean RRFn	Measured RRFi	Mean RRFi
8/9/92	1429	CC1	1.085		0.833	
8/9/92	1507	CC1	1.061	1.082	0.852	0.820
8/9/92	1545	CC1	1.099		0.775	
8/9/92	1624	CC2	1.112		0.774	
8/9/92	1702	CC2	1.049	1.057	0.873	0.824
8/9/92	1740	CC2	1.010		0.824	
8/9/92	1818	CC3	1.087		0.878	
8/9/92	1856	CC3	1.069	1.075	0.868	0.878
8/9/92	1934	CC3	1.068		0.888	
8/9/92	2012	CC4	1.025		0.978	
8/9/92	2050	CC4	1.055	1.058	0.966	0.952
8/9/92	2129	CC4	1.095		0.913	

Solution ID Codes:

CC1 = Concentration Calibration Solution #1
CC2 = Concentration Calibration Solution #2
CC3 = Concentration Calibration Solution #3
CC4 = Concentration Calibration Solution #4

%RSD:	RRFn	RRFi
CC1 =	1.78	4.87
CC2 =	4.39	5.99
CC3 =	0.97	1.12
CC4 =	3.32	3.60

Native Mean of Means: 1.07 IS Mean of Means: 0.87

FORM B-2

INITIAL CALIBRATION SUMMARY

Laboratory: CMS ANALYTICAL SERVICES

CC Solution Alternative: II

Instrument ID: HP5970MSD

Date	Time	Sol. ID	AREA 320	322	328	332IS	334IS	332RS	334RS
8/9/92	1429	CC1	2486	3024	1959	11719	14936	8122	10168
8/9/92	1507	CC1	3460	4475	3405	16958	22315	11485	14852
8/9/92	1545	CC1	2862	3871	2353	13861	18313	10225	13490
8/9/92	1624	CC2	16150	21133	5475	14850	20347	11402	14582
8/9/92	1702	CC2	13881	18851	5233	14190	18581	9091	12367
8/9/92	1740	CC2	16222	20493	6160	16470	21701	11668	14796
8/9/92	1818	CC3	91550	119584	11062	17662	23147	11566	14998
8/9/92	1856	CC3	91711	118553	10654	18217	23086	11991	15206
8/9/92	1934	CC3	114627	148055	13937	22468	29185	14334	18926
8/9/92	2012	CC4	512450	662709	xxx	26182	34002	15510	19669
8/9/92	2050	CC4	457424	590549	xxx	22695	29462	13544	17309
8/9/92	2129	CC4	387179	500687	xxx	18194	24369	11199	15430

Solution ID Codes:

CC1 = Concentration Calibration Solution #1
CC2 = Concentration Calibration Solution #2
CC3 = Concentration Calibration Solution #3
CC4 = Concentration Calibration Solution #4

* Not present in CC Solution Alternative One

FORM B-2

INITIAL CALIBRATION SUMMARY

ION RATIOS

Laboratory: TMS ANALYTICAL SERVICES

CC Solution Alternative: II

Instrument ID: HP5970MSD

Date	Time	Sol. ID	RELATIVE RESPONSE RATIOS 320/322	IS 332/334	RS 332/334
8/9/92	1429	CC1	0.822	0.785	0.799
8/9/92	1507	CC1	0.773	0.760	0.773
8/9/92	1545	CC1	0.739	0.757	0.758
8/9/92	1624	CC2	0.764	0.730	0.782
8/9/92	1702	CC2	0.736	0.764	0.735
8/9/92	1740	CC2	0.792	0.759	0.789
8/9/92	1818	CC3	0.766	0.763	0.771
8/9/92	1856	CC3	0.774	0.789	0.789
8/9/92	1934	CC3	0.774	0.770	0.757
8/9/92	2012	CC4	0.773	0.770	0.789
8/9/92	2050	CC4	0.775	0.770	0.782
8/9/92	2129	CC4	0.773	0.747	0.726

Solution ID Codes:

CC1 = Concentration Calibration Solution #1
CC2 = Concentration Calibration Solution #2
CC3 = Concentration Calibration Solution #3
CC4 = Concentration Calibration Solution #4

INITIAL CALIBRATION SUMMARY

CC Solution Alternative: II

	TCDD NATIVE	TCDD INTERNAL	TCDD RECOVERY
CC1	0.1818	0.9545	0.5455
CC2	0.9091	0.9545	0.5455
CC3	4.545	0.9545	0.5455
CC4	18.18	0.9545	0.5455

CC Solution Alternative: II

QIS	50
QRS	45.455

DAILY CALIBRATION SUMMARY

Laboratory: TMS ANALYTICAL SERVICES CC Solution Alternative: II

Instrument ID: HP5970MSD

Date	Time	Sol. ID	AREA 320	322	323	332IS	334IS	332RS	334RS
3/10/92	0014	CC1	5634	7076	4679	26949	35180	16406	21787
3/10/92	1115	CC1	8759	11503	7686	43418	55994	26430	34398
		CC1							

DAILY CALIBRATION SUMMARY

Laboratory: TMS ANALYTICAL SERVICES

Date	Time	Sol. ID	RRFn Measured RRFn	RRFn % DEVIATION FROM INIT CAL	RRFi Measured RRFi	RRFi % DEVIATION FROM INIT CAL	RELATIVE RESPONSE RATIOS 320/322	IS 332/334	RS 332/334
3/10/92	0014	CC1	1.074	0.6	0.930	7.0	0.796	0.766	0.753
3/10/92	1115	CC1	1.070	3.2	0.934	7.5	0.761	0.775	0.768
		CC1	ERR	ERR	ERR	ERR	ERR	ERR	ERR

TMS

TMS ANALYTICAL SERVICES, INC.

7726 Moller Road Indianapolis, Indiana 46268 317-875-5894 FAX 317-872-6169

FORM B - 3

ROUTINE CALIBRATION SUMMARY

Laboratory: TMS Analytical CC Solution Alternatives: II

Case/Batch No.: SAS 7303C Instrument ID: HP 5970-1

	(PCS) PERFORMANCE CHECK SOL.						(CCI) CON. CALID. SOL. #1		
DATE	8.9.92	8.10.92	8.10.92	8.10.92			8.10.92	8.10.92	
TIME	2336	0920	1037	1542			0014	1115	
RESPONSE									
259	1374	3875	2309	4612 ~~5205~~			1197	2711	
320	3824	13883	7479	16329 ~~10317~~			5634	8759	
322	4971	18118	9769	21332 ~~13734~~			7076	11503	
28	988	3086	2068	3741			4679	7686	
332IS	10800	38130	21926	44196			26949	43418	
334IS	14534	49032	28561	57817			35180	55994	
332RS	25672	71017	41624	83774			16406	26430	
334RS	32247	89154	52502	105496			21787	34398	
RATIOS									
320/322	.77	.77	.77	.76			.80	.76	
332/334IS	.74	.78	.77	.76			.77	.76	
332/334RS	.80	.80	.79	.79			.75	.77	
RRFn	—	—	—	—	—	—	1.074	1.070	
RRF1	—	—	—	—	—	—	0.930	0.934	
% Valley	16.6	18.2	18.2	16.6			—	—	—

TMS

TMS ANALYTICAL SERVICES, INC.

7726 Moller Road Indianapolis, Indiana 46268 317-875-5894 FAX 317-872-6189

FORM B - 4

QUALITY CONTROL SUMMARY

Laboratory: TMS Analytical Case/Batch No.: SAS 7303 E

Instrument ID: HP-5970 #1

SOIL

Accuracy, Fortified/ Spike Field Blank: 100% EPA Sample Number: E09

Relative Difference (%) Duplicate Analysis: 0 EPA Sample Number: E05

WATER

Accuracy, Fortified/ Spike Field Blank: _____ EPA Sample Number: _____

Relative Difference (%) Duplicate Analysis: _____ EPA Sample Number: _____