EPA Region 5 Records Ctr.
345415

APPENDIX D
L1630450056 – St. Clair Co.
Lefton Iron & Metal
ILD#984809244
SF/HRS

CERCLA

Analytical Results

Illinois Environmental
Protection Agency

DATE: September 13, 2002

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Lefton Iron and Metals

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
30859	Envirosystems	20	E0167	Soil

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

SEP 1 6 2002

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

SEP 1 3 2002

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE: _____

SUBJECT: **Electronic (Level 2) Review of Data**

Received for Review on September 10, 2002

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

The following data has been electronically reviewed by CADRE. No review of the raw data, laboratory narrative, laboratory forms or chain-of-custody forms was performed.

SITE NAME: Lefton Iron and Metals (IL)

CASE NUMBER: 30859 SDG NUMBER: E0167

Number and Type of Samples: 20 Soils (P/P)

Sample Numbers: E0167 - E0186

Laboratory: Envirosystems Hrs. for Review: _____

Following are our findings:

SEP 1 6 2002

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

Case Number : 30859
Site Name: LEFTON IRON & METALS (IL)

SDG Number: E0167
Laboratory: ENVIROSYSTEMS

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Twenty (20) soil samples, numbered *E0167* through *E0186*, were collected on *August 27, 2002*. The lab received the samples on *August 29, 2002* in good condition. All samples were analyzed for only the pesticide/PCB list of organic analytes. All were analyzed according to CLP SOW *OLM04.2* 5/99.

Level 2 - Assembled By: Allison Harvey/IITRI-ESAT
Date: September 12, 2002

Case Number : 30859
Site Name: LEFTON IRON & METALS (IL)

SDG Number: E0167
Laboratory: ENVIROSYSTEMS

1. HOLDING TIME

No defects found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

DC-9 The following pesticide samples are associated with a continuing PEM in which the percent difference between the nominal and calculated amounts for a PEM compound is outside criteria. Hits are qualified "J" and non-detects are qualified "UJ".

4,4-DDT
E0176, E0176DL, E0177, E0178, E0179, E0180, E0180DL, E0181, E0181DL, E0182, E0182DL, E0183, E0184, E0184DL, E0185, E0186

DC-16 The following pesticide samples are associated with an initial PEM in which the endrin % breakdown exceeds criteria. Endrin detected in all samples is qualified "J". Non-detects are flagged "R".

Endrin
E0167MS, E0167MSD, E0173, E0184, E0184DL

DC-17 The following pesticide samples are associated with an initial PEM in which the endrin % breakdown exceeds criteria. Endrin aldehyde and/or endrin ketone was detected in the sample but endrin was not detected. Non-detect endrin in all samples is qualified "R".

Endrin
E0169, E0183

DC-18 The following pesticide samples are associated with an initial PEM in which the endrin % breakdown exceeds criteria. Endrin aldehyde and/or endrin ketone detected in all samples is qualified "NJ".

Endrin ketone
E0173

Endrin aldehyde
E0173, E0184, E0184DL

DC-23 The following pesticide samples are associated with a continuing PEM in which the endrin % breakdown exceeds criteria. Endrin detected in associated samples is qualified "J".

Case Number : 30859
Site Name: LEFTON IRON & METALS (IL)

SDG Number: E0167
Laboratory: ENVIROSYSTEMS

Endrin
E0167MS, E0167MSD, E0173

DC-24 The following pesticide samples are associated with a continuing PEM in which the endrin % breakdown exceeds criteria. Endrin aldehyde and/or endrin ketone was detected in the sample, but endrin was not detected. Non-detect endrin in associated samples is qualified "R".

Endrin
E0169

DC-25 The following pesticide samples are associated with a continuing PEM in which the endrin % breakdown exceeds criteria. Endrin aldehyde and/or endrin ketone detected in associated samples are qualified "NJ".

Endrin ketone, **Endrin aldehyde**
E0173

DC-31 The following pesticide samples are associated with an initial PEM in which the endrin % breakdown exceeds criteria. Endrin was not detected in associated samples. Endrin aldehyde and/or endrin ketone detected in all samples is qualified "NJ".

Endrin ketone
E0183

Endrin aldehyde
E0169

DC-32 The following pesticide samples are associated with a continuing PEM in which the endrin % breakdown exceeds criteria. Endrin was not detected in associated samples. Endrin aldehyde and/or endrin ketone detected in all samples is qualified "NJ".

Endrin aldehyde
E0169

3. CALIBRATION

No defects found.

4. BLANKS

No defects found.

Case Number : 30859 SDG Number: E0167
Site Name: LEFTON IRON & METALS (IL) Laboratory: ENVIROSYSTEMS

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

DC-2 The following pesticide samples have surrogate percent recoveries which exceed the upper limit of the criteria window. Hits are qualified "J" and non-detects are not flagged.

E0167, E0167DL, E0167MS, E0167MSD, E0168, E0169, E0170, E0170DL, E0171, E0171DL, E0173, E0175, E0175DL, E0176, E0176DL, E0177, E0178, E0180, E0180DL, E0181, E0181DL, E0182, E0182DL, E0183, E0184, E0184DL, E0186

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

DC-1 The relative percent difference (RPD) between the following pesticide matrix spike and matrix spike duplicate recoveries is outside criteria. Results for the outlier compounds in the unspiked sample E0167 are estimated, "J" and non-detects are estimated, "UJ".

E0167MS, E0167MSD
gamma-BHC (Lindane), Heptachlor, Aldrin, Dieldrin, Endrin, 4,4-DDT

DC-2 The following pesticide matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Results for the outlier compounds in the unspiked sample E0167 are estimated, "J" and non-detects are estimated, "UJ".

E0167MS
Heptachlor, Dieldrin, Endrin, 4,4-DDT

E0167MSD
gamma-BHC (Lindane), Heptachlor, Dieldrin, Endrin, 4,4-DDT

7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as field blanks or field duplicates. Results are not qualified based upon the results of the field blank or field duplicates.

8. INTERNAL STANDARDS

Not Applicable.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

Case Number : 30859
Site Name: LEFTON IRON & METALS (IL)

SDG Number: E0167
Laboratory: ENVIROSYSTEMS

DC-1 The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E0167MS
Aldrin

E0169
gamma-Chlordane

DC-3 The following pesticide samples have analytes for which the percent difference between columm results exceeds primary criteria. Professional judgement should be used to qualify the data.

E0167
Aroclor-1260

E0167MS
gamma-BHC (Lindane), Heptachlor, Aldrin, Dieldrin, Endrin, 4,4-DDT, Aroclor-1260

E0167MSD
gamma-BHC (Lindane), Aldrin, Dieldrin, Endrin, 4,4-DDT, Aroclor-1260

E0168
alpha-BHC, Aroclor-1260

E0169
gamma-BHC (Lindane), Heptachlor, Endosulfan I, 4,4-DDE, 4,4-DDT, Endrin aldehyde, alpha-Chlordane, gamma-Chlordane

E0170DL
Aroclor-1248

E0173
4,4-DDE, Endrin ketone

E0177
alpha-BHC, Aroclor-1254

E0181
Aroclor-1254, Aroclor-1260

E0181DL, E0182DL
Aroclor-1254

Level 2 - Assembled By: Allison Harvey/IITRI-ESAT
Date: September 12, 2002

Case Number : 30859 SDG Number: E0167
Site Name: LEFTON IRON & METALS (IL) Laboratory: ENVIROSYSTEMS

E0182
4,4-DDE, Aroclor-1254

E0183
gamma-BHC (Lindane)

E0184
alpha-BHC, beta-BHC, Heptachlor epoxide, Endrin, Endrin aldehyde, Aroclor-1254

E0184DL
alpha-BHC, beta-BHC, Heptachlor epoxide, Endrin, 4,4-DDD, Endrin aldehyde, Aroclor-1254

E0186
gamma-Chlordane

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

Qualification: CADRE Reserved **Protocol: PES**

DC-2 Verification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

E0167, E0167DL, E0167MS, E0167MSD, E0168, E0169, E0170, E0170DL, E0171, E0171DL, E0172, E0173, E0174, E0175, E0175DL, E0176, E0176DL, E0177, E0178, E0179, E0180, E0180DL, E0181, E0181DL, E0182, E0182DL, E0183, E0184, E0184DL, E0185, E0186, PBLK09

Case Number : 30859 SDG Number: E0167
Site Name: LEFTON IRON & METALS (IL) Laboratory: ENVIROSYSTEMS

Data Review Results
Lab ID: ENVSYS Case No.: 30859 Method: OLM04.2 Flag :R5FLAG
File Name: E0167 SDG No.: E0167 Criteria: OLM04.2 Defects: R5DEFECT

Data Review Criteria Set Options:

Detection Limit CADRE association rules X
PEST pct D expanded criteria
Use MDL IPC/Tune
Expanded criteria
Holding Time
Region 3 PAH option System Performance
Region 3 PCB option Use initial PEM pct resolution X
Expanded criteria X Use continuing PEM pct resolution
Inorganic missing pH option
CRDL/CRQL Standards
Calibrations Region 2 validation rules
RRF expanded criteria Region 3 validation rules
VOA/BNA PctD expanded criteria
VOA/BNA PctRSD expanded criteria LCS
Use mean RRF Pct rec expanded criteria
Use VOA/BNA dual purpose standard option X
Use initial INDA/INDB pct resolution X Duplicates
Use continuing INDA/INDB pct resolution RPD and AD expanded criteria
Use PEST low concentration option
PEST low concentration PctRSD expanded criteria Furnace AA QC
Use DMC/SMC/Surrogate option X Pct R expanded upper criteria
Use INORG extreme high pct recovery Corr coef expanded criteria
Matrix Spikes Blanks
Use PEST low concentration rules Raise to detection limit X
Use VOA storage inst blanks X
DMC/SMC/Surrogates Use low concentration rules
Region 3 validation rules
Check dilution factor X Field QC
Use advisory surrogates Combine method/field blanks
Use low concentration rules CRDL contamination criteria

WinCADRE 3.1 0.10

Level 2 - Assembled By: Allison Harvey/IITRI-ESAT
Date: September 12, 2002

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case #: 30859 SDG : E0167
Site : LEFTON IRON & METAL
Lab. : ENVSYS
Reviewer :
Date :

Number of Soil Samples : 20
Number of Water Samples : 0

Sample Number :	E0167		E0167DL		E0167MS		E0167MSD		E0168	
Sampling Location :	X101		X101		X101		X101		X102	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	08/27/2002		08/27/2002		08/27/2002		08/27/2002		08/27/2002	
Time Sampled :	10:15		10:15		10:15		10:15		10:50	
%Moisture :	18		18		18		18		29	
pH :	7.2		7.2		7.2		7.2		7.6	
Dilution Factor :	5.0		50.0		5.0		5.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4,4'-DDT	20	U	200	U	1200	J	2100	J	4.6	U
gamma-BHC (Lindane)	10	U	100	U	23	J	46	J	2.4	U
Dieldrin	20	U	200	U	280	J	760	J	4.6	U
Endrin	20	U	200	U	110	J	190	J	4.6	U
Methoxychlor	100	U	1000	U	100	U	100	U	24	U
4,4'-DDD	20	U	200	U	20	U	20	U	4.6	U
4,4'-DDE	20	U	200	U	20	U	20	U	4.6	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 30859 SDG : E0167
Site : LEFTON IRON & METAL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0169		E0170		E0170DL		E0171		E0171DL	
Sampling Location :	X103		X104		X104		X105		X105	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	08/27/2002		08/27/2002		08/27/2002		08/27/2002		08/27/2002	
Time Sampled :	11:10		11:20		11:20		11:20		11:20	
%Moisture :	23		27		27		26		26	
pH :	7.3		7.6		7.6		7.3		7.3	
Dilution Factor :	1.0		1.0		10.0		1.0		5.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4,4'-DDT	11	J	4.5	U	45	U	4.5	U	22	U
gamma-BHC (Lindane)	2.3	J	2.3	U	23	U	2.3	U	11	U
Dieldrin	27	J	4.5	U	45	U	4.5	U	22	U
Endrin	4.3	R	4.5	U	45	U	4.5	U	22	U
Methoxychlor	22	U	23	U	230	U	23	U	110	U
4,4'-DDD	11	J	4.5	U	45	U	4.5	U	22	U
4,4'-DDE	12	J	4.5	U	45	U	4.5	U	22	U

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Analytical Results (Qualified Data)

Case #: 30859 SDG : E0167
Site : LEFTON IRON & METAL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0172		E0173		E0174		E0175		E0175DL	
Sampling Location :	X106		X107		X108		X109		X109	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	08/27/2002		08/27/2002		08/27/2002		08/27/2002		08/27/2002	
Time Sampled :	11:45		11:55		13:15		13:30		13:30	
%Moisture :	28		29		19		22		22	
pH :	9.2		7.7		6.9		7.1		7.1	
Dilution Factor :	1.0		1.0		1.0		1.0		10.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4,4'-DDT	4.6	U	30	J	4.1	U	4.2	U	42	U
gamma-BHC (Lindane)	2.4	U	2.4	U	2.1	U	2.2	U	22	U
Dieldrin	4.6	U	15	J	4.1	U	4.2	U	42	U
Endrin	4.6	U	21	J	4.1	U	4.2	U	42	U
Methoxychlor	24	U	24	U	21	U	22	U	220	U
4,4'-DDD	4.6	U	4.6	U	4.1	U	4.2	U	42	U
4,4'-DDE	4.6	U	5.7	J	4.1	U	4.2	U	42	U

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Analytical Results (Qualified Data)

Case #: 30859 SDG : E0167
Site : LEFTON IRON & METAL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0176		E0176DL		E0177		E0178		E0179	
Sampling Location :	X110		X110		X111		X112		X113	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	08/27/2002		08/27/2002		08/27/2002		08/27/2002		08/27/2002	
Time Sampled :	13:40		13:40		14:00		14:20		14:35	
%Moisture :	28		28		30		24		22	
pH :	6.8		6.8		8.2		8.2		7.8	
Dilution Factor :	1.0		5.0		1.0		1.0		1.0	
Pesticide/PCB Compound	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*
4,4'-DDT	4.6	UJ	23	UJ	4.7	UJ	4.3	UJ	4.2	UJ
gamma-BHC (Lindane)	2.4	U	12	U	2.5	J	2.2	U	2.2	U
Dieldrin	4.6	U	23	U	4.7	U	4.3	U	4.2	U
Endrin	4.6	U	23	U	4.7	U	4.3	U	4.2	U
Methoxychlor	24	U	120	U	24	U	22	U	22	U
4,4'-DDD	4.6	U	23	U	4.7	U	4.3	U	4.2	U
4,4'-DDE	4.6	U	23	U	4.7	U	4.3	U	4.2	U

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Analytical Results (Qualified Data)

Case #: 30859 SDG : E0167
Site : LEFTON IRON & METAL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0180		E0180DL		E0181		E0181DL		E0182	
Sampling Location :	X114		X114		X115		X115		X116	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	08/27/2002		08/27/2002		08/27/2002		08/27/2002		08/27/2002	
Time Sampled :	14:50		14:50		15:00		15:00		15:25	
%Moisture :	14		14		15		15		15	
pH :	8.3		8.3		8.9		8.9		8.8	
Dilution Factor :	2.0		20.0		1.0		4.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4,4'-DDT	7.7	UJ	77	UJ	3.9	UJ	16	UJ	150	J
gamma-BHC (Lindane)	4.0	U	40	U	2.0	U	8.0	U	2.0	U
Dieldrin	7.7	U	77	U	3.9	U	16	U	3.9	U
Endrin	7.7	U	77	U	3.9	U	16	U	3.9	U
Methoxychlor	40	U	400	U	20	U	80	U	20	U
4,4'-DDD	7.7	U	77	U	3.9	U	16	U	3.9	U
4,4'-DDE	7.7	U	77	U	3.9	U	16	U	130	J

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Analytical Results (Qualified Data)

Case #: 30859 SDG : E0167
Site : LEFTON IRON & METAL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0182DL		E0183		E0184		E0184DL		E0185	
Sampling Location :	X116		X117		X118		X118		X119	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	08/27/2002		08/27/2002		08/27/2002		08/27/2002		08/27/2002	
Time Sampled :	15:25		15:40		15:55		15:55		16:00	
%Moisture :	15		14		12		12		23	
pH :	8.8		8.3		7.9		7.9		8.3	
Dilution Factor :	4.0		1.0		1.0		2.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4,4'-DDT	110	J	6.9	J	110	J	110	J	4.3	UJ
gamma-BHC (Lindane)	8.0	U	2.5	J	1.9	U	3.9	U	2.2	U
Dieldrin	16	U	3.8	U	3.7	U	7.5	U	4.3	U
Endrin	16	U	3.8	R	8.9	J	8.3	J	4.3	U
Methoxychlor	80	U	20	U	19	U	39	U	22	U
4,4'-DDD	16	U	22	J	55	J	45	J	4.3	U
4,4'-DDE	85	J	3.8	U	45	J	39	J	4.3	U

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Analytical Results (Qualified Data)

Case #: 30859 SDG : E0167
Site : LEFTON IRON & METAL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0186		PBLK09							
Sampling Location :	X120									
Matrix :	Soil		Soil							
Units :	ug/Kg		ug/Kg							
Date Sampled :	08/27/2002									
Time Sampled :	16:25									
%Moisture :	24		N/A							
pH :	8.1		6.0							
Dilution Factor :	1.0		1.0							
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4,4'-DDT	18	J	3.3	U						
gamma-BHC (Lindane)	2.2	U	1.7	U						
Dieldrin	4.3	U	3.3	U						
Endrin	4.3	U	3.3	U						
Methoxychlor	22	U	17	U						
4,4'-DDD	4.3	U	3.3	U						
4,4'-DDE	4.3	U	3.3	U						

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Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 9-10-03

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: LEFTON IRON AND METALS (IL)

CASE NUMBER: 30859 SDG NUMBER: E0167

Number and Type of Samples: 20 (SOIL)

Sample Numbers: E0167-86

Laboratory: ENVIROSYSTEMS Hrs for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

Contract Laboratory Program

Sample Delivery Group (SDG)
Traffic Report (TR) Cover Sheet

Laboratory Name Envirosystems, Inc. Laboratory Code ENVSYS

Contract No. 68-W-99-022 Case No. 30859

Analysis Price $449.98 per sample (FTCL) SDG Turnaround 7 Days

EPA Sample Numbers in SGD (Listed in Numerical Order)

1) E0167	7) E0173	13) E0179	19) E0185
2) E0168	8) E0174	14) E0180	20) E0186
3) E0169	9) E0175	15) E0181	19)
4) E0170	10) E0176	16) E0182	20)
5) E0171	11) E0177	17) E0183	21)
6) E0172	12) E0178	18) E0184	22)

E0167

SDG No./First Sample in SDG

E0186

Last Sample in SDG

8/29/02

First Sample Receipt Date

8/29/02

Last Sample Receipt Date

Note: There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature Kadria Crook Date 8/29/02

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 30859
DAS No:
SDG No: E0167 / E0197

L

Date Shipped: 8/28/02 Carrier Name: UPS Airbill: IZ6215892210021618 Shipped to: Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	Date Received/Received by: 8/29/02 Barbara Crook Lab Contract No: 68W99022 Unit Price: Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Gerald E Willman Relinquished By: Gerald E Willman	Date / Time: 8/28/02 1336	Received By:
		Relinquished By:	Date / Time:	Received By:
		Relinquished By:	Date / Time:	Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0167	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-066557 (Ice Only) (1)	X101	8/27/02 10:15		
E0168	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66558 (Ice Only) (1)	X102	8/27/02 10:50		
E0169	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66559 (Ice Only) (1)	X103	8/27/02 11:10		
E0170	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66560 (Ice Only) (1)	X104	8/27/02 11:20		
E0171	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66561 (Ice Only) (1)	X105	8/27/02 11:20		
E0172	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66562 (Ice Only) (1)	X106	8/27/02 11:45		
E0173	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66563 (Ice Only) (1)	X107	8/27/02 11:55		
E0174	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66564 (Ice Only) (1)	X108	8/27/02 13:15		
E0175	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66565 (Ice Only) (1)	X109	8/27/02 13:30		
E0176	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66566 (Ice Only) (1)	X110	8/27/02 13:40		
E0177	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66567 (Ice Only) (1)	X111	8/27/02 14:00		
E0178	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66568 (Ice Only) (1)	X112	8/27/02 14:20		
E0179	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66569 (Ice Only) (1)	X113	8/27/02 14:35		
E0180	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66570 (Ice Only) (1)	X114	8/27/02 14:50		
E0181	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66571 (Ice Only) (1)	X115	8/27/02 15:00		

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E0167, E0197	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 28876, 28877
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓
PEST = CLP TCL Pesticide/PCBs				

PR provides preliminary results. Requests for preliminary resuls will increase analytical costs.
Send Copy to Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-082802-0001

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 30859
DAS No:
SDG No: E0167 / E0187

L

Date Shipped: 8/28/02 Carrier Name: UPS Airbill: IZ6215892210021618 Shipped to: Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	Date Received/Received by: 8/29/02 Barbara Crook Lab Contract No: 68W99022 Unit Price: Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Gerald E Willman Relinquished By: Gerald E Willman Relinquished By: Relinquished By:	Date / Time: 8/28/02 1336 Date / Time: Date / Time:
		Received By: Received By: Received By:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0182	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66572 (Ice Only) (1)	X116	8/27/02 15:25		
E0183	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66573 (Ice Only) (1)	X117	8/27/02 15:40		
E0184	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66574 (Ice Only) (1)	X118	8/27/02 15:55		
E0185	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66575 (Ice Only) (1)	X119	8/27/02 16:00		
E0186	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66576 (Ice Only) (1)	X120	8/27/02 16:25		
E0187	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66577 (Ice Only) (1)	X121	8/27/02 16:40		
E0188	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66578 (Ice Only) (1)	X122	8/27/02 16:50		
E0189	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66579 (Ice Only) (1)	X123	8/27/02 17:10		
E0190	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66580 (Ice Only) (1)	X124	8/27/02 17:25		
E0191	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66581 (Ice Only) (1)	X125	8/28/02 8:50		
E0192	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66582 (Ice Only) (1)	X126	8/28/02 9:05		
E0193	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66583 (Ice Only) (1)	X127	8/28/02 9:15		
E0194	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66584 (Ice Only) (1)	X128	8/28/02 9:30		
E0195	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66585 (Ice Only) (1)	X129	8/28/02 9:45		
E0196	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66586 (Ice Only) (1)	X130	8/28/02 9:50		

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E0167, E0197	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 28876, 28877
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Shipment Iced?
PEST = CLP TCL Pesticide/PCBs				

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-082802-0001

SEP 1 0 2002

SDG NARRATIVE

LABORATORY NAME: ENVIROSYSTEMS, INC.

CASE #: 30859 SDG #: E0167 REGION: V

CONTRACT: 68-W9-9022

DATE SAMPLES RECEIVED AT LABORATORY: 29 AUGUST 2002

SAMPLE ANALYSES INCLUDED IN THIS REPORT:

EPA SAMPLE #	LAB ID #	ANALYSIS	MATRIX
E0167	02081775	PEST	SOIL
E0167DL	02081775	PEST	SOIL
E0168	02081776	PEST	SOIL
E0169	02081777	PEST	SOIL
E0170	02081778	PEST	SOIL
E0170DL	02081778	PEST	SOIL
E0171	02081779	PEST	SOIL
E0171DL	02081779	PEST	SOIL
E0172	02081780	PEST	SOIL
E0173	02081781	PEST	SOIL
E0174	02081782	PEST	SOIL
E0175	02081783	PEST	SOIL
E0175DL	02081783	PEST	SOIL
E0176	02081784	PEST	SOIL
E0176DL	02081784	PEST	SOIL
E0177	02081785	PEST	SOIL
E0178	02081786	PEST	SOIL
E0179	02081787	PEST	SOIL
E0180	02081788	PEST	SOIL
E0180DL	02081788	PEST	SOIL
E0181	02081789	PEST	SOIL
E0181DL	02081789	PEST	SOIL
E0182	02081790	PEST	SOIL
E0182DL	02081790	PEST	SOIL
E0183	02081791	PEST	SOIL
E0184	02081792	PEST	SOIL
E0184DL	02081792	PEST	SOIL
E0185	02081793	PEST	SOIL
E0186	02081794	PEST	SOIL

Matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample E0167.

Samples for this contract are analyzed by EPA SOW OLM04.2 for multi-media multi-concentration organics

The cooler temperature blank was measured to be within the acceptable range

PESTICIDE/AROCLOR SECTION:

The primary analytical column was a Restek RTXCLP, 0.53mm ID, 0.50 micron film thickness. Confirmation analysis was performed using a Restek RTXCLP2, 0.53 mm ID, 0.42 micron film thickness GC column.

The %D for DDT was above the QC limit in continuing calibration standard PEM03 on the RTXCLP column only.

Endrin recovery was above the QC limit in the GPC calibration verification.

All samples except E0172, E0174 E0179, E0185 and method blank PBLK09 had at least one DCB surrogate recovery above the EPA advisory Qc limit due to matrix interference

All other QC criteria was met for all samples in this SDG.

Several soil samples required dilution due to high concentrations of target compounds.

Nine of the twelve MS/MSD recoveries and each of the six MS/MSD RPD values were outside the EPA advisory QC limits due to matrix interference. The sample selected for QC required a fiftyfold dilution due to high concentrations of aroclors.

Manual integrations were performed on the following samples and/or standards due to poor peak shape, coelution and/or baseline corrections: PBLK09 and E0172.

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/HER DESIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURE

William Brewington — DATE: 9/9/02

William Brewington
Organics Section Manager

9 September 2002

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

GC Column(1): RTXCLP ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK09	59	54	69	64			0
02	E0167	104	84	1385*	1860*			2
03	E0167DL	1308D	76D	1738D	2045D			0
04	E0168	49	40	156*	182*			2
05	E0169	67	58	171*	565*			2
06	E0170	96	70	1072*	1598*			2
07	E0170DL	114D	65D	1420D	1602D			0
08	E0171	98	75	1192*	1958*			2
09	E0171DL	94D	61D	1470D	1720D			2
10	E0172	68	63	76	69			0
11	E0173	66	60	179*	72			1
12	E0174	50	42	102	36			0
13	E0175	88	65	370*	495*			2
14	E0175DL	119D	63D	438D	400D			0
15	E0176	76	66	680*	858*			2
16	E0176DL	80D	62D	785D	848D			0
17	E0177	73	65	388*	450*			2
18	E0178	80	72	532*	638*			2
19	E0179	69	62	69	67			0
20	E0180	88	72	730*	1015*			2
21	E0180DL	107D	72D	782D	852D			0
22	E0181	96	80	418*	213*			2
23	E0181DL	98D	69D	422D	715D			0
24	E0182	83	71	960*	1278*			2
25	E0182DL	60D	44D	710D	909D			0
26	E0183	72	64	578*	730*			2
27	E0184	102	85	1065*	1515*			2
28	E0184DL	102D	79D	1160D	1415D			0
29	E0185	77	63	74	60			0
30	E0186	78	68	172*	184*			2

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

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

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

GC Column(1): RTXCLP ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	E0167MS	43	38	512*	625*			2
02	E0167MSD	86	74	962*	1220*			2

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

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

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix Spike - EPA Sample No.: E0167

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	20.300	0	23.0	113	46-127
Heptachlor	20.300	0	62.2	306 *	35-130
Aldrin	20.300	0	7.89	39	34-132
Dieldrin	40.600	0	253	697 *	31-134
Endrin	40.600	0	105	259 *	42-139
4,4'-DDT	40.600	0	1190	2931 *	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	20.300	46.0	227 *	67 *	50	46-127
Heptachlor	20.300	120	591 *	64 *	31	35-130
Aldrin	20.300	16.1	79	68 *	43	34-132
Dieldrin	40.600	755	1860 *	91 *	38	31-134
Endrin	40.600	191	470 *	58 *	45	42-139
4,4'-DDT	40.600	2100	5172 *	55 *	50	23-134

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

* Values outside of QC limits

RPD: 6 out of 6 outside limits
Spike Recovery: 9 out of 12 outside limits

COMMENTS:

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK09

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Lab Sample ID: 0829PSB2 Lab File ID:

Matrix:(soil/water) SOIL Extraction: (Type) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 08/29/02

Date Analyzed (1): 09/07/02 Date Analyzed (2): 09/07/02

Time Analyzed (1): 1210 Time Analyzed (2): 1210

Instrument ID (1): HP90B1 Instrument ID (2): HP90B2

GC Column (1): RTXCLP ID: 0.53 (mm) GC Column (2): RTXCLP2 ID: 0.53 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	E0167	02081775	09/07/02	09/07/02
02	E0167DL	02081775DL	09/07/02	09/07/02
03	E0168	02081776	09/07/02	09/07/02
04	E0169	02081777	09/07/02	09/07/02
05	E0170	02081778	09/07/02	09/07/02
06	E0170DL	02081778DL	09/07/02	09/07/02
07	E0171	02081779	09/07/02	09/07/02
08	E0171DL	02081779DL	09/07/02	09/07/02
09	E0172	02081780	09/07/02	09/07/02
10	E0173	02081781	09/07/02	09/07/02
11	E0174	02081782	09/07/02	09/07/02
12	E0175	02081783	09/07/02	09/07/02
13	E0175DL	02081783DL	09/07/02	09/07/02
14	E0176	02081784	09/07/02	09/07/02
15	E0176DL	02081784DL	09/08/02	09/08/02
16	E0177	02081785	09/08/02	09/08/02
17	E0178	02081786	09/08/02	09/08/02
18	E0179	02081787	09/08/02	09/08/02
19	E0180	02081788	09/08/02	09/08/02
20	E0180DL	02081788DL	09/08/02	09/08/02
21	E0181	02081789	09/08/02	09/08/02
22	E0181DL	02081789DL	09/08/02	09/08/02
23	E0182	02081790	09/08/02	09/08/02
24	E0182DL	02081790DL	09/08/02	09/08/02
25	E0183	02081791	09/08/02	09/08/02
26	E0184	02081792	09/08/02	09/08/02

COMMENTS:

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK09

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Lab Sample ID: 0829PSB2 Lab File ID:

Matrix:(soil/water) SOIL Extraction: (Type) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 08/29/02

Date Analyzed (1): 09/07/02 Date Analyzed (2): 09/07/02

Time Analyzed (1): 1210 Time Analyzed (2): 1210

Instrument ID (1): HP90B1 Instrument ID (2): HP90B2

GC Column (1): RTXCLP ID: 0.53 (mm) GC Column (2): RTXCLP2 ID: 0.53 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	E0184DL	02081792DL	09/08/02	09/08/02
02	E0185	02081793	09/08/02	09/08/02
03	E0186	02081794	09/08/02	09/08/02
04	E0167MS	02081775MS	09/07/02	09/07/02
05	E0167MSD	02081775MSD	09/07/02	09/07/02

COMMENTS:

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0167

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081775

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

% Moisture: 18 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/07/02

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

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	10	U
319-85-7	beta-BHC	10	U
319-86-8	delta-BHC	10	U
58-89-9	gamma-BHC (Lindane)	10	U
76-44-8	Heptachlor	10	U
309-00-2	Aldrin	10	U
1024-57-3	Heptachlor epoxide	10	U
959-98-8	Endosulfan I	10	U
60-57-1	Dieldrin	20	U
72-55-9	4,4'-DDE	20	U
72-20-8	Endrin	20	U
33213-65-9	Endosulfan II	20	U
72-54-8	4,4'-DDD	20	U
1031-07-8	Endosulfan sulfate	20	U
50-29-3	4,4'-DDT	20	U
72-43-5	Methoxychlor	100	U
53494-70-5	Endrin ketone	20	U
7421-93-4	Endrin aldehyde	20	U
5103-71-9	alpha-Chlordane	10	U
5103-74-2	gamma-Chlordane	10	U
8001-35-2	Toxaphene	1000	U
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	410	U
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	200	U
12672-29-6	Aroclor-1248	12000	E
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	15000	PE

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0167DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081775DL

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

% Moisture: 18 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/07/02

Injection Volume: 2.00 (uL) Dilution Factor: 50.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	100	U
319-85-7	beta-BHC	100	U
319-86-8	delta-BHC	100	U
58-89-9	gamma-BHC (Lindane)	100	U
76-44-8	Heptachlor	100	U
309-00-2	Aldrin	100	U
1024-57-3	Heptachlor epoxide	100	U
959-98-8	Endosulfan I	100	U
60-57-1	Dieldrin	200	U
72-55-9	4,4'-DDE	200	U
72-20-8	Endrin	200	U
33213-65-9	Endosulfan II	200	U
72-54-8	4,4'-DDD	200	U
1031-07-8	Endosulfan sulfate	200	U
50-29-3	4,4'-DDT	200	U
72-43-5	Methoxychlor	1000	U
53494-70-5	Endrin ketone	200	U
7421-93-4	Endrin aldehyde	200	U
5103-71-9	alpha-Chlordane	100	U
5103-74-2	gamma-Chlordane	100	U
8001-35-2	Toxaphene	10000	U
12674-11-2	Aroclor-1016	2000	U
11104-28-2	Aroclor-1221	4100	U
11141-16-5	Aroclor-1232	2000	U
53469-21-9	Aroclor-1242	2000	U
12672-29-6	Aroclor-1248	17000	D
11097-69-1	Aroclor-1254	2000	U
11096-82-5	Aroclor-1260	26000	D

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0167MS

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081775MS

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

% Moisture: 18 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/07/02

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

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	10	U
319-85-7	beta-BHC	10	U
319-86-8	delta-BHC	10	U
58-89-9	gamma-BHC (Lindane)	23	P
76-44-8	Heptachlor	62	P
309-00-2	Aldrin	7.9	JP
1024-57-3	Heptachlor epoxide	10	U
959-98-8	Endosulfan I	10	U
60-57-1	Dieldrin	280	P
72-55-9	4,4'-DDE	20	U
72-20-8	Endrin	110	P
33213-65-9	Endosulfan II	20	U
72-54-8	4,4'-DDD	20	U
1031-07-8	Endosulfan sulfate	20	U
50-29-3	4,4'-DDT	1200	PE
72-43-5	Methoxychlor	100	U
53494-70-5	Endrin ketone	20	U
7421-93-4	Endrin aldehyde	20	U
5103-71-9	alpha-Chlordane	10	U
5103-74-2	gamma-Chlordane	10	U
8001-35-2	Toxaphene	1000	U
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	410	U
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	200	U
12672-29-6	Aroclor-1248	4800	
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	10000	E

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0167MSD

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081775MSD

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

% Moisture: 18 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/07/02

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

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	10	U
319-85-7	beta-BHC	10	U
319-86-8	delta-BHC	10	U
58-89-9	gamma-BHC (Lindane)	46	P
76-44-8	Heptachlor	120	
309-00-2	Aldrin	16	P
1024-57-3	Heptachlor epoxide	10	U
959-98-8	Endosulfan I	10	U
60-57-1	Dieldrin	760	PE
72-55-9	4,4'-DDE	20	U
72-20-8	Endrin	190	P
33213-65-9	Endosulfan II	20	U
72-54-8	4,4'-DDD	20	U
1031-07-8	Endosulfan sulfate	20	U
50-29-3	4,4'-DDT	2100	PE
72-43-5	Methoxychlor	100	U
53494-70-5	Endrin ketone	20	U
7421-93-4	Endrin aldehyde	20	U
5103-71-9	alpha-Chlordane	10	U
5103-74-2	gamma-Chlordane	10	U
8001-35-2	Toxaphene	1000	U
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	410	U
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	200	U
12672-29-6	Aroclor-1248	9000	
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	18000	PE

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0168

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081776

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

% Moisture: 29 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/07/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	25	P
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	2.4	U
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	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	4.6	U
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	4.6	U
7421-93-4	Endrin aldehyde	4.6	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	2.4	U
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	94	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	380	
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	740	P

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0169

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081777

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

% Moisture: 23 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/07/02

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	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.3	P
76-44-8	Heptachlor	2.8	P
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	4.3	P
60-57-1	Dieldrin	27	
72-55-9	4,4'-DDE	12	P
72-20-8	Endrin	4.3	U
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	11	
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	11	P
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.3	U
7421-93-4	Endrin aldehyde	5.2	P
5103-71-9	alpha-Chlordane	2.5	P
5103-74-2	gamma-Chlordane	1.5	JP
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	87	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	350	
11097-69-1	Aroclor-1254	43	U
11096-82-5	Aroclor-1260	43	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0170

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081778

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

% Moisture: 27 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/07/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	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	4.5	U
72-55-9	4,4'-DDE	4.5	U
72-20-8	Endrin	4.5	U
33213-65-9	Endosulfan II	4.5	U
72-54-8	4,4'-DDD	4.5	U
1031-07-8	Endosulfan sulfate	4.5	U
50-29-3	4,4'-DDT	4.5	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.5	U
7421-93-4	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	92	U
11141-16-5	Aroclor-1232	45	U
53469-21-9	Aroclor-1242	45	U
12672-29-6	Aroclor-1248	2100	
11097-69-1	Aroclor-1254	45	U
11096-82-5	Aroclor-1260	3900	E

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0171

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081779

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

% Moisture: 26 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/07/02

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	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	4.5	U
72-55-9	4,4'-DDE	4.5	U
72-20-8	Endrin	4.5	U
33213-65-9	Endosulfan II	4.5	U
72-54-8	4,4'-DDD	4.5	U
1031-07-8	Endosulfan sulfate	4.5	U
50-29-3	4,4'-DDT	4.5	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.5	U
7421-93-4	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	1200	
11097-69-1	Aroclor-1254	45	U
11096-82-5	Aroclor-1260	3000	E

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0171DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081779DL

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

% Moisture: 26 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/07/02

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

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	11	U
1024-57-3	Heptachlor epoxide	11	U
959-98-8	Endosulfan I	11	U
60-57-1	Dieldrin	22	U
72-55-9	4,4'-DDE	22	U
72-20-8	Endrin	22	U
33213-65-9	Endosulfan II	22	U
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	110	U
53494-70-5	Endrin ketone	22	U
7421-93-4	Endrin aldehyde	22	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	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	3300	D
11097-69-1	Aroclor-1254	220	U
11096-82-5	Aroclor-1260	2900	D

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0172

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081780

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

% Moisture: 28 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/07/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 9.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	2.4	U
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	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	4.6	U
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	4.6	U
7421-93-4	Endrin aldehyde	4.6	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	2.4	U
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	93	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	57	
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	46	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0173

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081781

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

% Moisture: 29 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/07/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	2.4	U
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	15	
72-55-9	4,4'-DDE	5.7	P
72-20-8	Endrin	21	
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	30	
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	10	P
7421-93-4	Endrin aldehyde	7.7	
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	2.4	U
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	94	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	120	
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	260	

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0174

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081782

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

% Moisture: 19 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/07/02

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	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
[illegible]	Toxaphene	210	U
[illegible]	Aroclor-[illegible]	41	U
11104-28-2	Aroclor-1221	83	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0175

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081783

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

% Moisture: 22 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/07/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	1500	
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	3800	E

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0175DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081783DL

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

% Moisture: 22 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/07/02

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
58-89-9	gamma-BHC (Lindane)	22	U
76-44-8	Heptachlor	22	U
309-00-2	Aldrin	22	U
1024-57-3	Heptachlor epoxide	22	U
959-98-8	Endosulfan I	22	U
60-57-1	Dieldrin	42	U
72-55-9	4,4'-DDE	42	U
72-20-8	Endrin	42	U
33213-65-9	Endosulfan II	42	U
72-54-8	4,4'-DDD	42	U
1031-07-8	Endosulfan sulfate	42	U
50-29-3	4,4'-DDT	42	U
72-43-5	Methoxychlor	220	U
53494-70-5	Endrin ketone	42	U
7421-93-4	Endrin aldehyde	42	U
5103-71-9	alpha-Chlordane	22	U
5103-74-2	gamma-Chlordane	22	U
8001-35-2	Toxaphene	2200	U
12674-11-2	Aroclor-1016	420	U
11104-28-2	Aroclor-1221	860	U
11141-16-5	Aroclor-1232	420	U
53469-21-9	Aroclor-1242	420	U
12672-29-6	Aroclor-1248	2100	D
11097-69-1	Aroclor-1254	420	U
11096-82-5	Aroclor-1260	4900	D

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0176

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081784

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

% Moisture: 28 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/07/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	2.4	U
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	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	4.6	U
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	4.6	U
7421-93-4	Endrin aldehyde	4.6	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	2.4	U
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	93	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	1100	
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	2700	E

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0176DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081784DL

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

% Moisture: 28 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000. (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 6.8 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	U
58-89-9	gamma-BHC (Lindane)	12	U
76-44-8	Heptachlor	12	U
309-00-2	Aldrin	12	U
1024-57-3	Heptachlor epoxide	12	U
959-98-8	Endosulfan I	12	U
60-57-1	Dieldrin	23	U
72-55-9	4,4'-DDE	23	U
72-20-8	Endrin	23	U
33213-65-9	Endosulfan II	23	U
72-54-8	4,4'-DDD	23	U
1031-07-8	Endosulfan sulfate	23	U
50-29-3	4,4'-DDT	23	U
72-43-5	Methoxychlor	120	U
53494-70-5	Endrin ketone	23	U
7421-93-4	Endrin aldehyde	23	U
5103-71-9	alpha-Chlordane	12	U
5103-74-2	gamma-Chlordane	12	U
8001-35-2	Toxaphene	[illegible]	[illegible]
12674-11-2	Aroclor-1016	230	U
11104-28-2	Aroclor-1221	470	U
11141-16-5	Aroclor-1232	230	U
53469-21-9	Aroclor-1242	230	U
12672-29-6	Aroclor-1248	1400	D
11097-69-1	Aroclor-1254	230	U
11096-82-5	Aroclor-1260	3100	D

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0177

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081785

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

% Moisture: 30 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.6	P
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	2.5	
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	4.7	U
72-55-9	4,4'-DDE	4.7	U
72-20-8	Endrin	4.7	U
33213-65-9	Endosulfan II	4.7	U
72-54-8	4,4'-DDD	4.7	U
1031-07-8	Endosulfan sulfate	4.7	U
50-29-3	4,4'-DDT	4.7	U
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	4.7	U
7421-93-4	Endrin aldehyde	4.7	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	2.4	U
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	97	U
11104-28-2	Aroclor-1221	96	U
11141-16-5	Aroclor-1232	47	U
53469-21-9	Aroclor-1242	47	U
12672-29-6	Aroclor-1248	47	U
11097-69-1	Aroclor-1254	710	P
11096-82-5	Aroclor-1260	400	

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0178

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081786

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

% Moisture: 24 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.3	U
72-55-9	4,4'-DDE	4.3	U
72-20-8	Endrin	4.3	U
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	4.3	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.3	U
7421-93-4	Endrin aldehyde	4.3	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	88	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	220	
11096-82-5	Aroclor-1260	130	

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0179

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081787

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

% Moisture: 22 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
11674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0180

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081788

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

% Moisture: 14 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.0	U
319-85-7	beta-BHC	4.0	U
319-86-8	delta-BHC	4.0	U
58-89-9	gamma-BHC (Lindane)	4.0	U
76-44-8	Heptachlor	4.0	U
309-00-2	Aldrin	4.0	U
1024-57-3	Heptachlor epoxide	4.0	U
959-98-8	Endosulfan I	4.0	U
60-57-1	Dieldrin	7.7	U
72-55-9	4,4'-DDE	7.7	U
72-20-8	Endrin	7.7	U
33213-65-9	Endosulfan II	7.7	U
72-54-8	4,4'-DDD	7.7	U
1031-07-8	Endosulfan sulfate	7.7	U
50-29-3	4,4'-DDT	7.7	U
72-43-5	Methoxychlor	40	U
53494-70-5	Endrin ketone	7.7	U
7421-93-4	Endrin aldehyde	7.7	U
5103-71-9	alpha-Chlordane	4.0	U
5103-74-2	gamma-Chlordane	4.0	U
8001-35-2	Toxaphene	400	U
12674-11-2	Aroclor-1016	77	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	77	U
53469-21-9	Aroclor-1242	77	U
12672-29-6	Aroclor-1248	1300	
11097-69-1	Aroclor-1254	77	U
11096-82-5	Aroclor-1260	6500	E

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0180DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081788DL

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

% Moisture: 14 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	40	U
319-85-7	beta-BHC	40	U
319-86-8	delta-BHC	40	U
58-89-9	gamma-BHC (Lindane)	40	U
76-44-8	Heptachlor	40	U
309-00-2	Aldrin	40	U
1024-57-3	Heptachlor epoxide	40	U
959-98-8	Endosulfan I	40	U
60-57-1	Dieldrin	77	U
72-55-9	4,4'-DDE	77	U
72-20-8	Endrin	77	U
33213-65-9	Endosulfan II	77	U
72-54-8	4,4'-DDD	77	U
1031-07-8	Endosulfan sulfate	77	U
50-29-3	4,4'-DDT	77	U
72-43-5	Methoxychlor	400	U
53494-70-5	Endrin ketone	77	U
7421-93-4	Endrin aldehyde	77	U
5103-71-9	alpha-Chlordane	40	U
5103-74-2	gamma-Chlordane	40	U
8001-35-2	Toxaphene	[illegible]	U
12674-11-2	Aroclor-1016	770	U
11104-28-2	Aroclor-1221	1600	U
11141-16-5	Aroclor-1232	770	U
53469-21-9	Aroclor-1242	770	U
12672-29-6	Aroclor-1248	1600	D
11097-69-1	Aroclor-1254	770	U
11096-82-5	Aroclor-1260	7500	D

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0181

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081789

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

% Moisture: 15 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	1900	P
11096-82-5	Aroclor-1260	1100	PE

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0181DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081789DL

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

% Moisture: 15 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 4.00

GPC Cleanup: (Y/N) Y pH: 8.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	8.0	U
319-85-7	beta-BHC	8.0	U
319-86-8	delta-BHC	8.0	U
58-89-9	gamma-BHC (Lindane)	8.0	U
76-44-8	Heptachlor	8.0	U
309-00-2	Aldrin	8.0	U
1024-57-3	Heptachlor epoxide	8.0	U
959-98-8	Endosulfan I	8.0	U
60-57-1	Dieldrin	16	U
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	16	U
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan sulfate	16	U
50-29-3	4,4'-DDT	16	U
72-43-5	Methoxychlor	80	U
53494-70-5	Endrin ketone	16	U
7421-93-4	Endrin aldehyde	16	U
5103-71-9	alpha-Chlordane	8.0	U
5103-74-2	gamma-Chlordane	8.0	U
[illegible]	Toxaphene	800	[illegible]
[illegible]	Aroclor-[illegible]	160	U
11104-28-2	Aroclor-1221	320	U
[illegible]	Aroclor-1232	160	U
[illegible]	Aroclor-1242	160	U
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	2100	PD
11096-82-5	Aroclor-1260	1000	D

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0182

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081790

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

% Moisture: 15 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.8 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	
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	130	PE
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	150	E
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
11104-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	1900	P
11096-82-5	Aroclor-1260	990	

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0182DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081790DL

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

% Moisture: 15 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 4.00

GPC Cleanup: (Y/N) Y pH: 8.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	8.0	U
319-85-7	beta-BHC	8.0	U
319-86-8	delta-BHC	8.0	U
58-89-9	gamma-BHC (Lindane)	8.0	U
76-44-8	Heptachlor	8.0	U
309-00-2	Aldrin	8.0	U
1024-57-3	Heptachlor epoxide	8.0	U
959-98-8	Endosulfan I	8.0	U
60-57-1	Dieldrin	16	U
72-55-9	4,4'-DDE	85	D
72-20-8	Endrin	16	U
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan sulfate	16	U
50-29-3	4,4'-DDT	110	D
72-43-5	Methoxychlor	80	U
53494-70-5	Endrin ketone	16	U
7421-93-4	Endrin aldehyde	16	U
5103-71-9	alpha-Chlordane	8.0	U
5103-74-2	gamma-Chlordane	8.0	U
8001-35-2	Toxaphene	800	U
12674-11-2	Aroclor-1016	160	U
11104-28-2	Aroclor-1221	320	U
11141-16-5	Aroclor-1232	160	U
53469-21-9	Aroclor-1242	160	U
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	1400	PD
11096-82-5	Aroclor-1260	710	D

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0183

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081791

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

% Moisture: 14 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.5	P
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	22	
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	6.9	
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	6.8	
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.6	
8001-35-2	Toxaphene	[illegible]	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0184

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081792

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

% Moisture: 12 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.5	P
319-85-7	beta-BHC	5.8	P
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	7.5	P
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.7	U
72-55-9	4,4'-DDE	45	
72-20-8	Endrin	8.9	P
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	55	
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	110	E
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	3.7	U
7421-93-4	Endrin aldehyde	26	P
5103-71-9	alpha-Chlordane	13	
5103-74-2	gamma-Chlordane	28	
8001-35-2	Toxaphene	[illegible]	
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	76	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	960	P
11096-82-5	Aroclor-1260	680	

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0184DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081792DL

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

% Moisture: 12 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.5	PD
319-85-7	beta-BHC	5.5	PD
319-86-8	delta-BHC	3.9	U
58-89-9	gamma-BHC (Lindane)	3.9	U
76-44-8	Heptachlor	3.9	U
309-00-2	Aldrin	3.9	U
1024-57-3	Heptachlor epoxide	6.8	PD
959-98-8	Endosulfan I	3.9	U
60-57-1	Dieldrin	7.5	U
72-55-9	4,4'-DDE	39	D
72-20-8	Endrin	8.3	PD
33213-65-9	Endosulfan II	7.5	U
72-54-8	4,4'-DDD	45	PD
1031-07-8	Endosulfan sulfate	7.5	U
50-29-3	4,4'-DDT	110	D
72-43-5	Methoxychlor	39	U
53494-70-5	Endrin ketone	7.5	U
7421-93-4	Endrin aldehyde	27	PD
5103-71-9	alpha-Chlordane	11	D
5103-74-2	gamma-Chlordane	26	D
8001-35-2	Toxaphene	390	U
12674-11-2	Aroclor-1016	75	U
11104-28-2	Aroclor-1221	150	U
11141-16-5	Aroclor-1232	75	U
53469-21-9	Aroclor-1242	75	U
12672-29-6	Aroclor-1248	75	U
11097-69-1	Aroclor-1254	950	PD
11096-82-5	Aroclor-1260	670	D

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0185

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081793

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

% Moisture: 23 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.3	U
72-55-9	4,4'-DDE	4.3	U
72-20-8	Endrin	4.3	U
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	4.3	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.3	U
7421-93-4	Endrin aldehyde	4.3	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
[illegible]	[illegible]	220	U
[illegible]	[illegible]	43	U
[illegible]	[illegible]	87	U
[illegible]	[illegible]	43	U
[illegible]	[illegible]	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	43	U
11096-82-5	Aroclor-1260	43	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0186

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 02081794

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

% Moisture: 24 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.3	U
72-55-9	4,4'-DDE	4.3	U
72-20-8	Endrin	4.3	U
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	18	
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.3	U
7421-93-4	Endrin aldehyde	4.3	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.4	P
8001-35-2	Toxaphene	[illegible]	[illegible]
[illegible]	[illegible]	43	U
[illegible]	[illegible]	88	U
[illegible]	[illegible]	43	U
[illegible]	[illegible]	43	U
11104-28-2	Aroclor-1221	43	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	43	U
11096-82-5	Aroclor-1260	120	

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK09

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0167

Matrix: (soil/water) SOIL Lab Sample ID: 0829PSB2

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

% Moisture: decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 08/29/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/07/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	[illegible]	U
12674-11-2	Aroclor-1016	[illegible]	U
11104-28-2	Aroclor-1221	[illegible]	U
11141-16-5	Aroclor-1232	[illegible]	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E0167 CERCLIS No: ILD984809244

Case No: 30859 Site Name/Location: LEFTON IRON AND METALS

Contractor or EPA Lab: ENVIROSYSTEMS Data User: IEPA

No. of Samples: 20 Date Sampled or Date Received: 9-10-02

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: 20 No. of samples received: 20

Received by: EVA M. DIXON/ESAT Date: 9-10-02

Received by LSSS: EVA M. DIXON/ESAT Date: 9-10-02

Review started: ____ Reviewer Signature: ____

Total time spent on review: ____ Date review completed: ____

Copied by: EVA M. DIXON/ESAT Date: 9-13-02

Mailed to user by: EVA M. DIXON/ESAT Date: 9-13-02

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

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 [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files: Date: ____

DATE: September 18, 2002

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Lefton Iron and Metals

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
30859	Envirosystems	20	E0187	Soil

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

RECEIVED
SEP 2 3 2002
IEPA-ECL-FSRS

SEP 1 8 2002

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE: _____

SUBJECT: **Electronic (Level 2) Review of Data**

Received for Review on September 11, 2002

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

The following data has been electronically reviewed by CADRE. No review of the raw data, laboratory narrative, laboratory forms or chain-of-custody forms was performed.

SITE NAME: Lefton Iron and Metals (IL)

CASE NUMBER: 30859 SDG NUMBER: E0187

Number and Type of Samples: 20 Soils

Sample Numbers: E0187 - E0199, E01A0 - E01A6

Laboratory: Envirosystems Hrs. for Review: _____

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

Case Number : 30859
Site Name: LEFTON IRON & METALS (IL)

SDG Number: E0187
Laboratory: ENVIROSYSTEMS

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Twenty (20) soil samples, numbered *E0187* through *E0199* and *E01A0* through *E01A6*, were collected *August 27 - 28, 2002*. The lab received the samples on *August 29, 2002* in good condition. All samples were analyzed for only the pesticide list of organic analytes. All were analyzed according to CLP SOW *OLM04.2* 5/99.

Level 2 - Assembled By: Allison Harvey/IITRI-ESAT
Date: September 17, 2002

Case Number : 30859
Site Name: LEFTON IRON & METALS (IL)

SDG Number: E0187
Laboratory: ENVIROSYSTEMS

1. HOLDING TIME

No defects found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

DC-9 The following pesticide samples are associated with a continuing PEM in which the percent difference between the nominal and calculated amounts for a PEM compound is outside criteria. Hits are qualified "J" and non-detects are qualified "UJ".

4,4-DDT
E0187, E0187DL, E0188, E0188DL, E0189, E0190, E0190DL, E0191, E0192, E0193, E0194, E0194DL, E0195, E0196, E0196DL, E0197, E0197DL, E0197MS, E0197MSD, E0198, E0199, E0199DL, E01A0, E01A0DL, E01A1, E01A1DL, E01A2, E01A2DL, E01A3, E01A3DL, E01A4, E01A5, E01A6, E01A6DL, PBLK12

DC-16 The following pesticide samples are associated with an initial PEM in which the endrin % breakdown exceeds criteria. Endrin detected in all samples is qualified "J". Non-detects are flagged "R".

Endrin
E0188, E0190, E0190DL, E0194, E0196, E0197, E0197MS, E0197MSD, E0199, E01A0, E01A1, E01A1DL, E01A2, E01A6, E01A6DL

DC-17 The following pesticide samples are associated with an initial PEM in which the endrin % breakdown exceeds criteria. Endrin aldehyde and/or endrin ketone was detected in the sample but endrin was not detected. Non-detect endrin in all samples is qualified "R".

Endrin
E0187, E0187DL, E0189, E0192, E01A0DL, E01A2DL, E01A3, E01A3DL

DC-18 The following pesticide samples are associated with an initial PEM in which the endrin % breakdown exceeds criteria. Endrin aldehyde and/or endrin ketone detected in all samples is qualified "NJ".

Endrin ketone
E0188, E0190, E0190DL, E0194, E0199, E01A0, E01A2

Endrin aldehyde
E0188, E0190, E0190DL, E0194, E0196, E0197, E0197MS, E0197MSD, E0199, E01A0, E01A1, E01A1DL, E01A2, E01A6, E01A6DL

Case Number : 30859 SDG Number: E0187
Site Name: LEFTON IRON & METALS (IL) Laboratory: ENVIROSYSTEMS

DC-31 The following pesticide samples are associated with an initial PEM in which the endrin % breakdown exceeds criteria. Endrin was not detected in associated samples. Endrin aldehyde and/or endrin ketone detected in all samples is qualified "NJ".

Endrin ketone
E0187, E0189, E01A3, E01A3DL

Endrin aldehyde
E0187, E0187DL, E0189, E0192, E01A0DL, E01A2DL, E01A3, E01A3DL

3. CALIBRATION

DC-9 The percent difference between the nominal and the calculated amount of an analyte in the midpoint INDA/INDB exceeded criteria. Hits are qualified "J" and non-detects are qualified "UJ".

4,4-DDD
E0187, E0187DL, E0188, E0188DL, E0189, E0190, E0190DL, E0191, E0192, E0193, E0194, E0194DL, E0195, E0196, E0196DL, E0197, E0197DL, E0197MS, E0197MSD, E0198, E0199, E0199DL, E01A0, E01A0DL, E01A2, E01A2DL, E01A4, E01A5, E01A6

4. BLANKS

No defects found.

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

DC-2 The following pesticide samples have surrogate percent recoveries which exceed the upper limit of the criteria window. Hits are qualified "J" and non-detects are not flagged.

E0187, E0187DL, E0188, E0188DL, E0189, E0190, E0190DL, E0191, E0192, E0194, E0194DL, E0196, E0196DL, E0197, E0197DL, E0197MS, E0197MSD, E0199, E0199DL, E01A2, E01A2DL, E01A3, E01A6, E01A6DL

DC-4 The following diluted pesticide samples have surrogate percent recoveries of less than 10%. Professional judgement is recommended. Professional judgement should be used to qualify the data.

E0196, E0196DL, E0199, E0199DL

DC-5 The following pesticide samples have surrogate percent recoveries outside the lower limit of the criteria window, but greater than 10%. Hits are qualified "J" and non-detects are qualified "UJ".

Case Number : 30859
Site Name: LEFTON IRON & METALS (IL)

SDG Number: E0187
Laboratory: ENVIROSYSTEMS

E01A3DL

DC-6 The following pesticide samples are not fully qualified for surrogate RT because of missing RT information. Hits and non-detects are not flagged.

E0196, E0196DL, E0199, E0199DL

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

DC-1 The relative percent difference (RPD) between the following pesticide matrix spike and matrix spike duplicate recoveries is outside criteria. Results for the outlier compound in the unspiked sample E0197 is estimated, "J" and a non-detect is estimated, "UJ".

E0197MS, E0197MSD
4,4-DDT

DC-2 The following pesticide matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Results for the outlier compounds in the unspiked sample E0197 are estimated, "J" and non-detects are estimated, "UJ".

E0197MS
4,4-DDT

E0197MSD
Heptachlor, Endrin, 4,4-DDT

7. FIELD BLANK AND FIELD DUPLICATE

Sample *E01A1* is a field duplicate of Sample *E01A0*. Results are not qualified based upon the results of the field blank or field duplicates.

8. INTERNAL STANDARDS

Not applicable.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

C-1 The following pesticide samples have analyte concentrations below the quantitation limit

Case Number : 30859 SDG Number: E0187
Site Name: LEFTON IRON & METALS (IL) Laboratory: ENVIROSYSTEMS

(CRQL). All results below the CRQL are qualified "J".

E0190
beta-BHC

DC-3 The following pesticide samples have analytes for which the percent difference between columm results exceeds primary criteria. Professional judgement should be used to qualify the data.

E0187
Aldrin, Heptachlor epoxide, Endosulfan I, Dieldrin, 4,4-DDE, Endrin ketone, gamma-Chlordane, Aroclor-1254

E0187DL
Aldrin, Heptachlor epoxide, Dieldrin, 4,4-DDE, gamma-Chlordane, Aroclor-1254

E0188
Aldrin, Heptachlor epoxide, Endosulfan I, 4,4-DDE, Endrin, Endosulfan II, 4,4-DDD, Endrin ketone, Endrin aldehyde, alpha-Chlordane, gamma-Chlordane

E0188DL
4,4-DDE, 4,4-DDD, gamma-Chlordane

E0189
Endrin ketone, Endrin aldehyde

E0190
beta-BHC, Heptachlor epoxide, Dieldrin, Endrin, 4,4-DDD, Methoxychlor, Endrin ketone, gamma-Chlordane, Aroclor-1254

E0190DL
Dieldrin, Endrin, Endrin ketone, Endrin aldehyde, alpha-Chlordane, gamma-Chlordane, Aroclor-1254, Aroclor-1260

E0192
4,4-DDE, Endrin aldehyde, gamma-Chlordane

E0194
beta-BHC, Heptachlor epoxide, Dieldrin, 4,4-DDE, Endrin ketone, Endrin aldehyde, Aroclor-1254

E0194DL
4,4-DDD, Aroclor-1254

Case Number : 30859
Site Name: LEFTON IRON & METALS (IL)

SDG Number: E0187
Laboratory: ENVIROSYSTEMS

E0196
beta-BHC, gamma-BHC (Lindane), Heptachlor, Endosulfan I, Endrin, Endosulfan II

E0196DL
Heptachlor, 4,4-DDE, 4,4-DDT

E0197
beta-BHC, gamma-BHC (Lindane), Heptachlor, Heptachlor epoxide, Endosulfan I, 4,4-DDE, Endrin, Endosulfan II, Endrin aldehyde

E0197DL
4,4-DDE, Aroclor-1232

E0197MS
beta-BHC, gamma-BHC (Lindane), Heptachlor, Heptachlor epoxide, Endosulfan I, 4,4-DDE, Endrin, Endosulfan II, Endrin aldehyde, Aroclor-1254

E0197MSD
beta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Heptachlor epoxide, Endosulfan I, 4,4-DDE, Endrin, Endosulfan II, Endrin aldehyde, Aroclor-1254

E0199
alpha-BHC, beta-BHC, gamma-BHC (Lindane), Heptachlor, Endosulfan I, 4,4-DDE, Endrin, Endosulfan II, Endrin ketone

E0199DL
Heptachlor, 4,4-DDE

E01A0
Endosulfan I, 4,4-DDE, Endrin, Endosulfan II, Endrin ketone, Endrin aldehyde, gamma-Chlordane

E01A0DL
Endrin aldehyde

E01A1
Endosulfan I, Endosulfan II, Endrin aldehyde

E01A1DL
Aldrin, Endrin aldehyde

E01A2
alpha-BHC, beta-BHC, gamma-BHC (Lindane), Endosulfan I, Endrin, Endosulfan II,

Case Number : 30859 SDG Number: E0187
Site Name: LEFTON IRON & METALS (IL) Laboratory: ENVIROSYSTEMS

Methoxychlor, Endrin ketone, alpha-Chlordane, gamma-Chlordane, Aroclor-1248

E01A2DL
4,4-DDE, 4,4-DDD, Endrin aldehyde, alpha-Chlordane, gamma-Chlordane

E01A3
alpha-BHC, beta-BHC, Heptachlor, Endosulfan I, Dieldrin, 4,4-DDE, Endosulfan II, 4,4-DDD, Methoxychlor, Endrin ketone, Aroclor-1254

E01A3DL
beta-BHC, Heptachlor, Heptachlor epoxide, Endosulfan I, Dieldrin, 4,4-DDE, 4,4-DDD, Endosulfan sulfate, Endrin ketone, Aroclor-1254

E01A6
4,4-DDE, Endrin aldehyde, Aroclor-1254

E01A6DL
4,4-DDE, Endrin aldehyde

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

Qualification: CADRE Reserved **Protocol: PES**

DC-2 Verification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

E0187, E0187DL, E0188, E0188DL, E0189, E0190, E0190DL, E0191, E0192, E0193, E0194, E0194DL, E0195, E0196, E0196DL, E0197, E0197DL, E0197MS, E0197MSD, E0198, E0199, E0199DL, E01A0, E01A0DL, E01A1, E01A1DL, E01A2, E01A2DL, E01A3, E01A3DL, E01A4, E01A5, E01A6, E01A6DL, PBLK12

Case Number : 30859 SDG Number: E0187
Site Name: LEFTON IRON & METALS (IL) Laboratory: ENVIROSYSTEMS

Data Review Results

Lab ID: ENVSYS Case No.: 30859 Method: OLM04.2 Flag :R5FLAG
File Name: E0187 SDG No.: E0187 Criteria: OLM04.2 Defects: R5DEFECT

Data Review Criteria Set Options:

Detection Limit CADRE association rules X
PEST pct D expanded criteria
Use MDL IPC/Tune
Expanded criteria
Holding Time
Region 3 PAH option System Performance
Region 3 PCB option Use initial PEM pct resolution X
Expanded criteria X Use continuing PEM pct resolution
Inorganic missing pH option
CRDL/CRQL Standards
Calibrations Region 2 validation rules
RRF expanded criteria Region 3 validation rules
VOA/BNA PctD expanded criteria
VOA/BNA PctRSD expanded criteria LCS
Use mean RRF Pct rec expanded criteria
Use VOA/BNA dual purpose standard option X
Use initial INDA/INDB pct resolution X Duplicates
Use continuing INDA/INDB pct resolution RPD and AD expanded criteria
Use PEST low concentration option
PEST low concentration PctRSD expanded criteria Furnace AA QC
Use DMC/SMC/Surrogate option X Pct R expanded upper criteria
Use INORG extreme high pct recovery Corr coef expanded criteria
Matrix Spikes Blanks
Use PEST low concentration rules Raise to detection limit X
Use VOA storage/inst blanks X
DMC/SMC/Surrogates Use low concentration rules
Region 3 validation rules
Check dilution factor X Field QC
Use advisory surrogates Combine method/field blanks
Use low concentration rules CRDL contamination criteria

Date: 09/12/2002 WinCADRE 3.1.0.10 Page: 11

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case #: 30859 SDG : E0187
Site : LEFTON IRON & METAL
Lab. : ENVSYS
Reviewer :
Date :

Number of Soil Samples : 20
Number of Water Samples : 0

Sample Number :	E01A0		E01A0DL		E01A1		E01A1DL		E01A2	
Sampling Location :	X134		X134		X135		X135		X136	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	08/28/2002		08/28/2002		08/28/2002		08/28/2002		08/28/2002	
Time Sampled :	11:00		11:00		11:00		11:00		11:20	
%Moisture :	16		16		16		16		7	
pH :	7.6		7.6		7.6		7.6		5.8	
Dilution Factor :	2.0		20.0		2.0		20.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4,4'-DDT	510	J	640	J	7.9	UJ	79	UJ	290	J
gamma-BHC (Lindane)	4.0	U	40	U	4.0	U	40	U	4.5	J
Dieldrin	7.9	U	79	U	7.9	U	79	U	3.5	U
Endrin	39	J	79	R	300	J	330	J	16	J
Methoxychlor	40	U	400	U	40	U	400	U	28	J
4,4'-DDD	7.9	UJ	79	UJ	7.9	U	79	U	220	J
4,4'-DDE	71		79	U	130		79	U	140	J
Heptachlor	7.1		40	U	7.0		40	U	20	J
Aldrin	4.0	U	40	U	4.0	U	48		1.8	U
alpha-BHC	4.0	U	40	U	4.0	U	40	U	4.3	J
beta-BHC	4.0	U	40	U	4.0	U	40	U	11	J
delta-BHC	4.0	U	40	U	4.0	U	40	U	1.8	U
Endosulfan I	21		40	U	22		40	U	8.9	J
Heptachlor epoxide	4.0	U	40	U	4.0	U	40	U	1.8	U
Endosulfan sulfate	7.9	U	79	U	7.9	U	79	U	3.5	U
alpha-Chlordane	4.0	U	40	U	4.0	U	40	U	37	J
gamma-Chlordane	67		40	U	4.0	U	40	U	39	J
Endrin aldehyde	90	NJ	95	NJ	80	NJ	81	NJ	70	NJ
Toxaphene	400	U	4000	U	400	U	4000	U	180	U
Aroclor-1260	3900		4700		3500		4000		2300	
Aroclor-1254	7400		9500		7000		8500		35	U
Aroclor-1221	160	U	1600	U	160	U	1600	U	72	U
Aroclor-1232	79	U	790	U	79	U	790	U	35	U
Aroclor-1248	79	U	790	U	79	U	790	U	1000	
Aroclor-1016	79	U	790	U	79	U	790	U	35	U
Endosulfan II	16		79	U	19		79	U	6.9	J
Aroclor-1242	79	U	790	U	79	U	790	U	35	U
Endrin ketone	60	NJ	79	U	7.9	U	79	U	68	NJ

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Analytical Results (Qualified Data)

Case #: 30859 SDG : E0187
Site : LEFTON IRON & METAL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E01A2DL		E01A3		E01A3DL		E01A4		E01A5	
Sampling Location :	X136		X137		X137		X138		X139	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	08/28/2002		08/28/2002		08/28/2002		08/28/2002		08/28/2002	
Time Sampled :	11:20		11:40		11:40		11:55		12:05	
%Moisture :	7		16		16		19		22	
pH :	5.8		7.8		7.8		5.6		5.3	
Dilution Factor :	10.0		1.0		5.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4,4'-DDT	370	J	110	J	130	J	4.6	J	4.2	UJ
gamma-BHC (Lindane)	18	U	2.0	U	10	UJ	2.1	U	2.2	U
Dieldrin	35	U	36	J	40	J	4.1	U	4.2	U
Endrin	35	R	3.9	R	20	R	4.1	U	4.2	U
Methoxychlor	180	U	51	J	100	UJ	21	U	22	U
4,4'-DDD	190	J	42	J	35	J	4.1	UJ	4.2	UJ
4,4'-DDE	140	J	43	J	46	J	4.1	U	4.2	U
Heptachlor	27	J	27	J	33	J	2.1	U	2.2	U
Aldrin	18	U	2.0	U	10	UJ	2.1	U	2.2	U
alpha-BHC	18	U	2.7	J	10	UJ	2.1	U	2.2	U
beta-BHC	18	U	36	J	42	J	2.1	U	2.2	U
delta-BHC	18	U	2.0	U	10	UJ	2.1	U	2.2	U
Endosulfan I	18	U	22	J	19	J	2.1	U	2.2	U
Heptachlor epoxide	18	U	2.0	U	60	J	2.1	U	2.2	U
Endosulfan sulfate	35	U	3.9	U	34	J	4.1	U	4.2	U
alpha-Chlordane	32	J	2.0	U	10	UJ	2.1	U	2.2	U
gamma-Chlordane	42	J	2.0	U	10	UJ	2.1	U	2.2	U
Endrin aldehyde	72	NJ	41	NJ	40	NJ	4.1	U	4.2	U
Toxaphene	1800	U	200	U	1000	UJ	210	U	220	U
Aroclor-1260	2900		39	U	200	UJ	41	U	42	U
Aroclor-1254	350	U	3700		3600		41	U	42	U
Aroclor-1221	720	U	80	U	400	UJ	83	U	86	U
Aroclor-1232	350	U	39	U	200	UJ	41	U	42	U
Aroclor-1248	2300		2100		2400		41	U	42	U
Aroclor-1016	350	U	39	U	200	UJ	41	U	42	U
Endosulfan II	35	U	9.1	J	20	UJ	4.1	U	4.2	U
Aroclor-1242	350	U	39	U	200	UJ	41	U	42	U
Endrin ketone	35	U	34	NJ	33	NJ	4.1	U	4.2	U

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Analytical Results (Qualified Data)

Case #: 30859 SDG : E0187
Site : LEFTON IRON & METAL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E01A6		E01A6DL		E0187		E0187DL		E0188	
Sampling Location :	X140		X140		X121		X121		X122	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	08/28/2002		08/28/2002		08/27/2002		08/27/2002		08/27/2002	
Time Sampled :	12:15		12:15		16:40		16:40		16:50	
%Moisture :	25		25		18		18		23	
pH :	5.5		5.5		9.9		9.9		7.4	
Dilution Factor :	1.0		5.0		1.0		2.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4,4'-DDT	4.4	UJ	22	UJ	78	J	81	J	300	J
gamma-BHC (Lindane)	2.3	U	11	U	2.1	U	4.1	U	2.2	U
Dieldrin	4.4	U	22	U	16	J	17	J	4.3	U
Endrin	91	J	96	J	4.0	R	8.0	R	20	J
Methoxychlor	23	U	110	U	21	U	41	U	22	U
4,4'-DDD	4.4	UJ	22	U	100	J	87	J	100	J
4,4'-DDE	10	J	28	J	9.4	J	9.1	J	28	J
Heptachlor	2.5	J	11	U	2.1	U	4.3	J	2.2	U
Aldrin	2.3	U	11	U	11	J	9.9	J	2.8	J
alpha-BHC	2.3	U	11	U	2.1	U	4.1	U	2.2	U
beta-BHC	3.3	J	11	U	2.1	U	4.1	U	2.2	U
delta-BHC	2.3	U	11	U	2.1	U	4.1	U	2.2	U
Endosulfan I	2.3	U	11	U	2.1	J	4.1	U	13	J
Heptachlor epoxide	2.3	U	11	U	4.3	J	4.5	J	10	J
Endosulfan sulfate	4.4	U	22	U	4.0	U	8.0	U	4.3	U
alpha-Chlordane	2.3	U	11	U	2.1	U	4.1	U	13	J
gamma-Chlordane	2.3	U	11	U	12	J	12	J	58	J
Endrin aldehyde	24	NJ	25	NJ	25	NJ	26	NJ	31	NJ
Toxaphene	230	U	1100	U	210	U	410	U	220	U
Aroclor-1260	1100		1100		530		560		2000	
Aroclor-1254	1400		1800		680		720		4300	
Aroclor-1221	89	U	450	U	82	U	160	U	87	U
Aroclor-1232	44	U	220	U	40	U	80	U	43	U
Aroclor-1248	44	U	220	U	40	U	80	U	43	U
Aroclor-1016	44	U	220	U	40	U	80	U	43	U
Endosulfan II	4.4	U	22	U	4.0	U	8.0	U	21	J
Aroclor-1242	44	U	220	U	40	U	80	U	43	U
Endrin ketone	4.4	U	22	U	27	NJ	8.0	U	32	NJ

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Analytical Results (Qualified Data)

Case #: 30859 SDG : E0187
Site : LEFTON IRON & METAL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0188DL		E0189		E0190		E0190DL		E0191	
Sampling Location :	X122		X123		X124		X124		X125	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	08/27/2002		08/27/2002		08/27/2002		08/27/2002		08/28/2002	
Time Sampled :	16:50		17:10		17:25		17:25		08:50	
%Moisture :	23		23		14		14		5	
pH :	7.4		5.5		6.7		6.7		6.1	
Dilution Factor :	10.0		1.0		1.0		5.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4,4'-DDT	340	J	9.4	J	130	J	150	J	3.5	UJ
gamma-BHC (Lindane)	22	U	5.2	J	2.0	U	9.9	U	1.8	U
Dieldrin	43	U	4.3	U	27	J	28	J	3.5	U
Endrin	43	U	4.3	R	16	J	22	J	3.5	U
Methoxychlor	220	U	22	U	25	J	99	U	18	U
4,4'-DDD	59	J	4.3	UJ	130	J	19	UJ	3.5	UJ
4,4'-DDE	58	J	4.3	U	3.8	U	19	U	3.5	U
Heptachlor	22	U	2.2	U	2.0	U	9.9	U	1.8	U
Aldrin	22	U	2.2	U	2.0	U	9.9	U	1.8	U
alpha-BHC	22	U	2.2	U	2.0	U	9.9	U	1.8	U
beta-BHC	22	U	2.2	U	1.9	J	9.9	U	1.8	U
delta-BHC	22	U	2.2	U	2.0	U	9.9	U	1.8	U
Endosulfan I	22	U	2.2	U	2.0	U	9.9	U	1.8	U
Heptachlor epoxide	22	U	2.2	U	4.0	J	9.9	U	1.8	U
Endosulfan sulfate	43	U	4.3	U	3.8	U	19	U	3.5	U
alpha-Chlordane	22	U	2.2	U	13	J	12	J	1.8	U
gamma-Chlordane	63	J	2.2	U	18	J	12	J	1.8	U
Endrin aldehyde	43	U	4.6	NJ	47	NJ	50	NJ	3.5	U
Toxaphene	2200	U	220	U	200	U	990	U	180	U
Aroclor-1260	2200		43	U	1200		1300		35	U
Aroclor-1254	4900		160		950		1200		35	U
Aroclor-1221	870	U	87	U	78	U	390	U	71	U
Aroclor-1232	430	U	43	U	38	U	190	U	35	U
Aroclor-1248	430	U	43	U	38	U	190	U	35	U
Aroclor-1016	430	U	43	U	38	U	190	U	35	U
Endosulfan II	43	U	4.3	U	3.8	U	19	U	3.5	U
Aroclor-1242	430	U	43	U	38	U	190	U	35	U
Endrin ketone	43	U	6.5	NJ	36	NJ	38	NJ	3.5	U

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Analytical Results (Qualified Data)

Case #: 30859 SDG : E0187
Site : LEFTON IRON & METAL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0192		E0193		E0194		E0194DL		E0195	
Sampling Location :	X126		X127		X128		X128		X129	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	08/28/2002		08/28/2002		08/28/2002		08/28/2002		08/28/2002	
Time Sampled :	09:05		09:15		09:30		09:30		09:45	
%Moisture :	21		14		15		15		17	
pH :	7.8		5.7		7.9		7.9		5.2	
Dilution Factor :	1.0		1.0		1.0		10.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4,4'-DDT	26	J	3.8	UJ	250	J	240	J	4.0	UJ
gamma-BHC (Lindane)	2.2	U	2.0	U	2.0	U	20	U	2.0	U
Dieldrin	4.2	U	3.8	U	11	J	39	U	4.0	U
Endrin	4.2	R	3.8	U	17	J	39	U	4.0	U
Methoxychlor	22	U	20	U	20	U	200	U	20	U
4,4'-DDD	20	J	3.8	UJ	200	J	160	J	4.0	UJ
4,4'-DDE	4.5	J	3.8	U	20	J	39	U	4.0	U
Heptachlor	2.5	J	2.0	U	2.0	U	20	U	2.0	U
Aldrin	2.2	U	2.0	U	2.0	U	20	U	2.0	U
alpha-BHC	2.2	U	2.0	U	2.0	U	20	U	2.0	U
beta-BHC	2.2	U	2.0	U	9.5	J	20	U	2.0	U
delta-BHC	2.2	U	2.0	U	2.0	U	20	U	2.0	U
Endosulfan I	2.2	U	2.0	U	2.0	U	20	U	2.0	U
Heptachlor epoxide	2.2	U	2.0	U	7.7	J	20	U	2.0	U
Endosulfan sulfate	4.2	U	3.8	U	3.9	U	39	U	4.0	U
alpha-Chlordane	2.2	U	2.0	U	2.0	U	20	U	2.0	U
gamma-Chlordane	2.3	J	2.0	U	2.0	U	20	U	2.0	U
Endrin aldehyde	4.8	NJ	3.8	U	8.8	NJ	39	U	4.0	U
Toxaphene	220	U	200	U	200	U	2000	U	200	U
Aroclor-1260	220		38	U	980		950		40	U
Aroclor-1254	310		38	U	760		700		40	U
Aroclor-1221	85	U	78	U	79	U	790	U	81	U
Aroclor-1232	42	U	38	U	39	U	390	U	40	U
Aroclor-1248	42	U	38	U	39	U	390	U	40	U
Aroclor-1016	42	U	38	U	39	U	390	U	40	U
Endosulfan II	4.2	U	3.8	U	3.9	U	39	U	4.0	U
Aroclor-1242	42	U	38	U	39	U	390	U	40	U
Endrin ketone	4.2	U	3.8	U	6.8	NJ	39	U	4.0	U

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Analytical Results (Qualified Data)

Case #: 30859 SDG : E0187
Site : LEFTON IRON & METAL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0196		E0196DL		E0197		E0197DL		E0197MS	
Sampling Location :	X130		X130		X131		X131		X131	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	08/28/2002		08/28/2002		08/28/2002		08/28/2002		08/28/2002	
Time Sampled :	09:50		09:50		10:05		10:05		10:05	
%Moisture :	9		9		14		14		14	
pH :	5.7		5.7		6.3		6.3		6.3	
Dilution Factor :	10.0		100.0		5.0		50.0		5.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4,4'-DDT	1600	J	1700	J	1000	J	1200	J	1200	J
gamma-BHC (Lindane)	57	J	190	U	15	J	99	U	31	J
Dieldrin	36	U	360	U	19	U	190	U	19	U
Endrin	110	J	360	U	85	J	190	U	130	J
Methoxychlor	190	U	1900	U	99	U	990	U	99	U
4,4'-DDD	36	UJ	360	UJ	19	UJ	190	UJ	19	UJ
4,4'-DDE	530	J	540	J	160	J	310	J	200	J
Heptachlor	260	J	350	J	52	J	99	U	74	J
Aldrin	19	U	190	U	9.9	U	99	U	9.9	U
alpha-BHC	23	J	190	U	16	J	99	U	20	J
beta-BHC	27	J	190	U	19	J	99	U	25	J
delta-BHC	19	U	190	U	9.9	U	99	U	9.9	U
Endosulfan I	41	J	190	U	36	J	99	U	46	J
Heptachlor epoxide	19	U	190	U	76	J	99	U	86	J
Endosulfan sulfate	36	U	360	U	19	U	190	U	19	U
alpha-Chlordane	19	U	190	U	9.9	U	99	U	9.9	U
gamma-Chlordane	19	U	190	U	9.9	U	99	U	9.9	U
Endrin aldehyde	290	NJ	360	U	130	NJ	190	U	150	NJ
Toxaphene	1900	U	19000	U	990	U	9900	U	990	U
Aroclor-1260	12000		13000		7100		8400		8700	
Aroclor-1254	27000		37000		18000		24000		20000	
Aroclor-1221	740	U	7400	U	390	U	3900	U	390	U
Aroclor-1232	360	U	3600	U	4100		5300		4900	
Aroclor-1248	360	U	3600	U	190	U	1900	U	190	U
Aroclor-1016	360	U	3600	U	190	U	1900	U	190	U
Endosulfan II	62	J	360	U	58	J	190	U	71	J
Aroclor-1242	11000		16000		190	U	1900	U	190	U
Endrin ketone	36	U	360	U	19	U	190	U	19	U

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Analytical Results (Qualified Data)

Case #: 30859 SDG : E0187
Site : LEFTON IRON & METAL
Lab. : ENVSYS
Reviewer :
Date :

Sample Number :	E0197MSD		E0198		E0199		E0199DL		PBLK12	
Sampling Location :	X131		X132		X133		X133			
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	08/28/2002		08/28/2002		08/28/2002		08/28/2002			
Time Sampled :	10:05		10:25		10:45		10:45			
%Moisture :	14		8		8		8		N/A	
pH :	6.3		6.2		6.1		6.1		6.0	
Dilution Factor :	5.0		1.0		10.0		100.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4,4'-DDT	1500	J	3.6	UJ	1800	J	1500	J	3.3	UJ
gamma-BHC (Lindane)	39	J	1.8	U	120	J	180	U	1.7	U
Dieldrin	19	U	3.6	U	36	U	360	U	3.3	U
Endrin	140	J	3.6	U	150	J	360	U	3.3	U
Methoxychlor	99	U	18	U	180	U	1800	U	17	U
4,4'-DDD	19	UJ	3.6	UJ	36	UJ	360	UJ	3.3	U
4,4'-DDE	230	J	3.6	U	490	J	370	J	3.3	U
Heptachlor	80	J	1.8	U	440	J	460	J	1.7	U
Aldrin	12	J	1.8	U	18	U	180	U	1.7	U
alpha-BHC	21	J	1.8	U	23	J	180	U	1.7	U
beta-BHC	37	J	1.8	U	62	J	180	U	1.7	U
delta-BHC	9.9	U	1.8	U	18	U	180	U	1.7	U
Endosulfan I	50	J	1.8	U	110	J	180	U	1.7	U
Heptachlor epoxide	130	J	1.8	U	18	U	180	U	1.7	U
Endosulfan sulfate	19	U	3.6	U	36	U	360	U	3.3	U
alpha-Chlordane	9.9	U	1.8	U	18	U	180	U	1.7	U
gamma-Chlordane	9.9	U	1.8	U	18	U	180	U	1.7	U
Endrin aldehyde	210	NJ	3.6	U	340	NJ	360	U	3.3	U
Toxaphene	990	U	180	U	1800	U	18000	U	170	U
Aroclor-1260	11000		36	U	14000		12000		33	U
Aroclor-1254	23000		36	U	41000		41000		33	U
Aroclor-1221	390	U	73	U	730	U	7300	U	67	U
Aroclor-1232	5400		36	U	360	U	3600	U	33	U
Aroclor-1248	190	U	36	U	360	U	3600	U	33	U
Aroclor-1016	190	U	36	U	360	U	3600	U	33	U
Endosulfan II	80	J	3.6	U	100	J	360	U	3.3	U
Aroclor-1242	190	U	36	U	19000		20000		33	U
Endrin ketone	19	U	3.6	U	310	NJ	360	U	3.3	U

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Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 9-11-02

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: LEFTON IRON AND METALS (IL)

CASE NUMBER: 30859 SDG NUMBER: E0187

Number and Type of Samples: 20 (SOIL)

Sample Numbers: E0187-99, E01A0-6

Laboratory: ENVIROSYSTEMS Hrs for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

Contract Laboratory Program

Sample Delivery Group (SDG)
Traffic Report (TR) Cover Sheet

Laboratory Name Envirosystems, Inc. Laboratory Code ENVSYS

Contract No. 68-W-99-022 Case No. 30859

Analysis Price $449.98 per sample (FTCL) SDG Turnaround 7 Days

EPA Sample Numbers in SGD (Listed in Numerical Order)

1) E0187	7) E0193	13) E0199	19) E01A5
2) E0188	8) E0194	14) E01A0	20) E01A6
3) E0189	9) E0195	15) E01A1	19)
4) E0190	10) E0196	16) E01A2	20)
5) E0191	11) E0197	17) E01A3	21)
6) E0192	12) E0198	18) E01A4	22)

E0187

SDG No./First Sample in SDG

E01A6

Last Sample in SDG

8/29/02

First Sample Receipt Date

8/29/02

Last Sample Receipt Date

Note: There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature Barbara Croce Date 8/29/02

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 30859
DAS No:
SDG No: E0167 / E0187

L

Date Shipped: 8/28/02 Carrier Name: UPS Airbill: IZ6215892210021618 Shipped to: Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	Date Received/Received by: 8/29/02 Barbara Brook Lab Contract No: 68W99022 Unit Price: Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Gerald E Willman Relinquished By: Gerald E Willman — Date / Time: 8/28/02 1336 — Received By: Relinquished By: — Date / Time: — Received By: Relinquished By: — Date / Time: — Received By:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0197	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66587 (Ice Only) (1)	X131	8/28/02 10:05		∞
E0198	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66588 (Ice Only) (1)	X132	8/28/02 10:25		
E0199	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66589 (Ice Only) (1)	X133	8/28/02 10:45		
E01A0	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66590 (Ice Only) (1)	X134	8/28/02 11:00		
E01A1	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66591 (Ice Only) (1)	X135	8/28/02 11:00		
E01A2	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66592 (Ice Only) (1)	X136	8/28/02 11:20		
E01A3	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66593 (Ice Only) (1)	X137	8/28/02 11:40		
E01A4	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66594 (Ice Only) (1)	X138	8/28/02 11:55		
E01A5	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66595 (Ice Only) (1)	X139	8/28/02 12.05		
E01A6	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66596 (Ice Only) (1)	X140	8/28/02 12:15		

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E0167, E0197	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 28876, 28877
Analysis Key: PEST = CLP TCL Pesticide/PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? — Shipment Iced? —

PR provides preliminary results. Requests for preliminary resuls will increase analytical costs.
Send Copy [illegible] Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Rest[illegible]A. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-082802-0001

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 30859
DAS No:
SDG No: E0167 / E0187

L

Date Shipped: 8/28/02 Carrier Name: UPS Airbill: IZ6215892210021618 Shipped to: Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	Date Received/Received by: 8/29/02 Barbara Crook Lab Contract No: 68W99022 Unit Price: Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Gerald E Willman Relinquished By: Gerald E Willman Relinquished By: Relinquished By:	Date / Time: 1336 8/28/02 Date / Time: Date / Time:
			Received By: Received By: Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0167	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-066557 (Ice Only) (1)	X101	8/27/02 10:15		
E0168	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66558 (Ice Only) (1)	X102	8/27/02 10:50		
E0169	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66559 (Ice Only) (1)	X103	8/27/02 11:10		
E0170	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66560 (Ice Only) (1)	X104	8/27/02 11:20		
E0171	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66561 (Ice Only) (1)	X105	8/27/02 11:20		
E0172	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66562 (Ice Only) (1)	X106	8/27/02 11:45		
E0173	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66563 (Ice Only) (1)	X107	8/27/02 11:55		
E0174	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66564 (Ice Only) (1)	X108	8/27/02 13:15		
E0175	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66565 (Ice Only) (1)	X109	8/27/02 13:30		
E0176	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66566 (Ice Only) (1)	X110	8/27/02 13:40		
E0177	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66567 (Ice Only) (1)	X111	8/27/02 14:00		
E0178	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66568 (Ice Only) (1)	X112	8/27/02 14:20		
E0179	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66569 (Ice Only) (1)	X113	8/27/02 14:35		
E0180	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66570 (Ice Only) (1)	X114	8/27/02 14:50		
E0181	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66571 (Ice Only) (1)	X115	8/27/02 15:00		

9

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E0167, E0197	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 28876, 28877
Analysis Key: PEST = CLP TCL Pesticide/PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? L Shipment Iced? L

PR provides preliminary results. Requests for preliminary resuls will increase analytical costs.
Send Copy [redacted] Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Res[redacted]VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-082802-0001

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 30859
DAS No:
SDG No: E0167 / E0187

L

Date Shipped: 8/28/02 Carrier Name: UPS Airbill: IZ6215892210021618 Shipped to: Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330	Date Received/Received by: 8/29/02 Barbara Crook Lab Contract No: 68W99022 Unit Price: Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Gerald E Willman Relinquished By: Gerald E Willman	Date / Time: 8/28/02 1336	Received By:
		Relinquished By:	Date / Time:	Received By:
		Relinquished By:	Date / Time:	Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0182	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66572 (Ice Only) (1)	X116	8/27/02 15:25		
E0183	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66573 (Ice Only) (1)	X117	8/27/02 15:40		
E0184	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66574 (Ice Only) (1)	X118	8/27/02 15:55		
E0185	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66575 (Ice Only) (1)	X119	8/27/02 16:00		
E0186	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66576 (Ice Only) (1)	X120	8/27/02 16:25		
E0187	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66577 (Ice Only) (1)	X121	8/27/02 16:40		
E0188	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66578 (Ice Only) (1)	X122	8/27/02 16:50		
E0189	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66579 (Ice Only) (1)	X123	8/27/02 17:10		
E0190	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66580 (Ice Only) (1)	X124	8/27/02 17:25		
E0191	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66581 (Ice Only) (1)	X125	8/28/02 8:50		
E0192	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66582 (Ice Only) (1)	X126	8/28/02 9:05		
E0193	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66583 (Ice Only) (1)	X127	8/28/02 9:15		
E0194	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66584 (Ice Only) (1)	X128	8/28/02 9:30		
E0195	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66585 (Ice Only) (1)	X129	8/28/02 9:45		
E0196	Soil/Sediment/ Jerry Willman	L/G	PEST (7)	5-66586 (Ice Only) (1)	X130	8/28/02 9:50		

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E0167, E0197	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 28876, 28877
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Shipment Iced?
PEST = CLP TCL Pesticide/PCBs				

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9318 Fax 703/264-9222

TR Number: 5-324306854-082802-0001

SEP 1 1 2002

SDG NARRATIVE

LABORATORY NAME: ENVIROSYSTEMS, INC.

CASE #: 30859 SDG #: E0187 REGION: V

CONTRACT: 68-W9-9022

DATE SAMPLES RECEIVED AT LABORATORY: 29 AUGUST 2002

SAMPLE ANALYSES INCLUDED IN THIS REPORT:

EPA SAMPLE #	LAB ID #	ANALYSIS	MATRIX
E0187	02081795	PEST	SOIL
E0187DL	02081795	PEST	SOIL
E0188	02081796	PEST	SOIL
E0188DL	02081796	PEST	SOIL
E0189	02081797	PEST	SOIL
E0190	02081798	PEST	SOIL
E0190DL	02081798	PEST	SOIL
E0191	02081799	PEST	SOIL
E0192	02081800	PEST	SOIL
E0193	02081801	PEST	SOIL
E0194	02081802	PEST	SOIL
E0194DL	02081802	PEST	SOIL
E0195	02081803	PEST	SOIL
E0196	02081804	PEST	SOIL
E0196DL	02081804	PEST	SOIL
E0197	02081805	PEST	SOIL
E0197DL	02081805	PEST	SOIL
E0198	02081806	PEST	SOIL
E0199	02081807	PEST	SOIL
E0199DL	02081807	PEST	SOIL
E01A0	02081808	PEST	SOIL
E01A0DL	02081808	PEST	SOIL
E01A1	02081809	PEST	SOIL
E01A1DL	02081809	PEST	SOIL
E01A2	02081810	PEST	SOIL
E01A2DL	02081810	PEST	SOIL
E01A3	02081811	PEST	SOIL
E01A3DL	02081811	PEST	SOIL
E01A4	02081812	PEST	SOIL
E01A5	02081813	PEST	SOIL
E01A6	02081814	PEST	SOIL
E01A6DL	02081814	PEST	SOIL

Matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample E0197

Samples for this contract are analyzed by EPA SOW OLM04.2 for multi-media multi-concentration organics

The cooler temperature blank was measured to be within the acceptable range

PESTICIDE/AROCLOR SECTION:

The primary analytical column was a Restek RTXCLP, 0.53mm ID, 0.50 micron film thickness. Confirmation analysis was performed using a Restek RTXCLP2, 0.53 mm ID, 0.42 micron film thickness GC column.

The %D for DDT was above the QC limit in continuing calibration standards PEM03, PEM04 and INDAM03 on the RTXCLP column. The %D for DCB was above the QC limit on the RTXCLP2 column in continuing calibration standard INDBM04

Endrin recovery was above the QC limit in the GPC calibration verification.

Surrogate recoveries were above the EPA advisory QC limit in many of the samples in this SDG due to matrix interference. TCX surrogate recovery could not be reported in samples E0196 and E0199 and associated dilutions E0196DL and E0199DL due to matrix interference.

Carryover contamination appears in PIBLK07 on the RTXCLP2 column with a peak within the retention time window for endosulfan sulfate.

All other QC criteria was met for all samples in this SDG

Twelve of the twenty samples in this SDG required dilution due to high concentrations of target compounds.

Seven of the twelve MS/MSD recoveries and two of the six MS/MSD RPD values were outside the EPA advisory QC limits due to matrix interference. The MS/MSD was analyzed at a fivefold dilution

Manual integrations were performed on the following samples and/or standards due to poor peak shape, coelution and/or baseline corrections: PIBLK07, INDAM04, E0188DL, E0191, E0193, E0194DL, E0195 and E0198.

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/HER DESIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURE:

William Brewington
Organics Section Manager

DATE: 9/14/02
10/September 2002
WB

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

GC Column(1): RTXCLP ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK12	79	70	75	68			0
02	E0187	85	76	238*	310*			2
03	E0187DL	88D	73D	250D	298D			0
04	E0188	73	58	153*	167*			2
05	E0188DL	81D	56D	153D	108D			0
06	E0189	122	86	154*	58			1
07	E0190	76	61	245*	84			1
08	E0190DL	87D	63D	230D	72D			0
09	E0191	80	65	290*	328*			2
10	E0192	79	70	148	152*			1
11	E0193	78	64	92	115			0
12	E0194	89	395*	1560*	3500*			3
13	E0194DL	105D	345D	6475D	7675D			0
14	E0195	64	53	50	58			0
15	E0196	0D	93	1170*	1340*			2
16	E0196DL	0D	122D	1228D	1872D			0
17	E0197	125	450*	1718*	1930*			3
18	E0197DL	160D	420D	2098D	1895D			0
19	E0198	113	94	75	74			0
20	E0199	0D	112	1728*	2162*			2
21	E0199DL	0D	125D	1445D	882D			0
22	E01A0	106	82	128	125			0
23	E01A0DL	149D	89D	144D	110D			0
24	E01A1	132	70	114	113			0
25	E01A1DL	143D	64D	125D	104D			0
26	E01A2	100	70	950*	1302*			2
27	E01A2DL	124D	78D	1312D	1405D			0
28	E01A3	99	61	222*	30			1
29	E01A3DL	124D	65D	42D	28D			0
30	E01A4	70	57	69	63			0

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

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

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

GC Column(1): RTXCLP ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	E01A5	78	63	78	62			0
02	E01A6	84	74	265*	298*			2
03	E01A6DL	101D	77D	342D	295D			0
04	E0197MS	157*	810*	2005*	2315*			4
05	E0197MSD	178*	1058*	2362*	2700*			4

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

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

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix Spike - EPA Sample No.: E0197

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	19.400	14.7	31.0	84	46-127
Heptachlor	19.400	52.3	73.6	110	35-130
Aldrin	19.400	0	0	0 *	34-132
Dieldrin	38.700	0	0	0 *	31-134
Endrin	38.700	85.3	125	103	42-139
4,4'-DDT	38.700	996	1200	527 *	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	19.400	39.1	126	40	50	46-127
Heptachlor	19.400	80.4	145 *	27	31	35-130
Aldrin	19.400	11.5	59	200 *	43	34-132
Dieldrin	38.700	0	0 *	0	38	31-134
Endrin	38.700	142	146 *	35	45	42-139
4,4'-DDT	38.700	1480	1251 *	81 *	50	23-134

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

* Values outside of QC limits

RPD: 2 out of 6 outside limits
Spike Recovery: 7 out of 12 outside limits

COMMENTS:

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK12

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Lab Sample ID: 0830PSB1 Lab File ID:

Matrix:(soil/water) SOIL Extraction: (Type) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 08/30/02

Date Analyzed (1): 09/08/02 Date Analyzed (2): 09/08/02

Time Analyzed (1): 0905 Time Analyzed (2): 0905

Instrument ID (1): HP90B1 Instrument ID (2): HP90B2

GC Column (1): RTXCLP ID: 0.53 (mm) GC Column (2): RTXCLP2 ID: 0.53 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	E0187	02081795	09/08/02	09/08/02
02	E0187DL	02081795DL	09/08/02	09/08/02
03	E0188	02081796	09/08/02	09/08/02
04	E0188DL	02081796DL	09/08/02	09/08/02
05	E0189	02081797	09/08/02	09/08/02
06	E0190	02081798	09/08/02	09/08/02
07	E0190DL	02081798DL	09/08/02	09/08/02
08	E0191	02081799	09/08/02	09/08/02
09	E0192	02081800	09/08/02	09/08/02
10	E0193	02081801	09/08/02	09/08/02
11	E0194	02081802	09/08/02	09/08/02
12	E0194DL	02081802DL	09/08/02	09/08/02
13	E0195	02081803	09/08/02	09/08/02
14	E0196	02081804	09/08/02	09/08/02
15	E0196DL	02081804DL	09/08/02	09/08/02
16	E0197	02081805	09/08/02	09/08/02
17	E0197DL	02081805DL	09/08/02	09/08/02
18	E0198	02081806	09/09/02	09/09/02
19	E0199	02081807	09/09/02	09/09/02
20	E0199DL	02081807DL	09/09/02	09/09/02
21	E01A0	02081808	09/09/02	09/09/02
22	E01A0DL	02081808DL	09/09/02	09/09/02
23	E01A1	02081809	09/09/02	09/09/02
24	E01A1DL	02081809DL	09/09/02	09/09/02
25	E01A2	02081810	09/09/02	09/09/02
26	E01A2DL	02081810DL	09/09/02	09/09/02

COMMENTS:

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK12

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Lab Sample ID: 0830PSB1 Lab File ID:

Matrix:(soil/water) SOIL Extraction: (Type) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 08/30/02

Date Analyzed (1): 09/08/02 Date Analyzed (2): 09/08/02

Time Analyzed (1): 0905 Time Analyzed (2): 0905

Instrument ID (1): HP90B1 Instrument ID (2): HP90B2

GC Column (1): RTXCLP ID: 0.53 (mm) GC Column (2): RTXCLP2 ID: 0.53 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	E01A3	02081811	09/09/02	09/09/02
02	E01A3DL	02081811DL	09/09/02	09/09/02
03	E01A4	02081812	09/09/02	09/09/02
04	E01A5	02081813	09/09/02	09/09/02
05	E01A6	02081814	09/09/02	09/09/02
06	E01A6DL	02081814DL	09/09/02	09/09/02
07	E0197MS	02081805MS	09/08/02	09/08/02
08	E0197MSD	02081805MSD	09/09/02	09/09/02

COMMENTS:

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0187

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081795

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

% Moisture: 18 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 9.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	11	P
1024-57-3	Heptachlor epoxide	4.3	P
959-98-8	Endosulfan I	2.1	P
60-57-1	Dieldrin	16	P
72-55-9	4,4'-DDE	9.4	P
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	100	E
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	78	E
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	27	P
7421-93-4	Endrin aldehyde	25	
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	12	P
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	82	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	680	P
11096-82-5	Aroclor-1260	530	

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0187DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081795DL

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

% Moisture: 18 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) Y pH: 9.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.1	U
319-85-7	beta-BHC	4.1	U
319-86-8	delta-BHC	4.1	U
58-89-9	gamma-BHC (Lindane)	4.1	U
76-44-8	Heptachlor	4.3	D
309-00-2	Aldrin	9.9	PD
1024-57-3	Heptachlor epoxide	4.5	PD
959-98-8	Endosulfan I	4.1	U
60-57-1	Dieldrin	17	PD
72-55-9	4,4'-DDE	9.1	PD
72-20-8	Endrin	8.0	U
33213-65-9	Endosulfan II	8.0	U
72-54-8	4,4'-DDD	87	D
1031-07-8	Endosulfan sulfate	8.0	U
50-29-3	4,4'-DDT	81	D
72-43-5	Methoxychlor	41	U
53494-70-5	Endrin ketone	8.0	U
7421-93-4	Endrin aldehyde	26	D
5103-71-9	alpha-Chlordane	4.1	U
5103-74-2	gamma-Chlordane	12	PD
8001-35-2	Toxaphene	410	U
12674-11-2	Aroclor-1016	80	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	80	U
53469-21-9	Aroclor-1242	80	U
12672-29-6	Aroclor-1248	80	U
11097-69-1	Aroclor-1254	720	PD
11096-82-5	Aroclor-1260	560	D

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0188

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081796

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

% Moisture: 23 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.8	P
1024-57-3	Heptachlor epoxide	10	P
959-98-8	Endosulfan I	13	P
60-57-1	Dieldrin	4.3	U
72-55-9	4,4'-DDE	26	P
72-20-8	Endrin	20	P
33213-65-9	Endosulfan II	21	P
72-54-8	4,4'-DDD	100	PE
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	300	E
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	32	P
7421-93-4	Endrin aldehyde	31	P
5103-71-9	alpha-Chlordane	13	P
5103-74-2	gamma-Chlordane	56	PE
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	87	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	4300	E
11096-82-5	Aroclor-1260	2000	E

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0188DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081796DL

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

% Moisture: 23 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
58-89-9	gamma-BHC (Lindane)	22	U
76-44-8	Heptachlor	22	U
309-00-2	Aldrin	22	U
1024-57-3	Heptachlor epoxide	22	U
959-98-8	Endosulfan I	22	U
60-57-1	Dieldrin	43	U
72-55-9	4,4'-DDE	58	PD
72-20-8	Endrin	43	U
33213-65-9	Endosulfan II	43	U
72-54-8	4,4'-DDD	59	PD
1031-07-8	Endosulfan sulfate	43	U
50-29-3	4,4'-DDT	340	D
72-43-5	Methoxychlor	220	U
53494-70-5	Endrin ketone	43	U
7421-93-4	Endrin aldehyde	43	U
5103-71-9	alpha-Chlordane	22	U
5103-74-2	gamma-Chlordane	63	PD
8001-35-2	Toxaphene	2200	U
12674-11-2	Aroclor-1016	430	U
11104-28-2	Aroclor-1221	870	U
11141-16-5	Aroclor-1232	430	U
53469-21-9	Aroclor-1242	430	U
12672-29-6	Aroclor-1248	430	U
11097-69-1	Aroclor-1254	4900	D
11096-82-5	Aroclor-1260	2200	D

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0189

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081797

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

% Moisture: 23 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 5.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	5.2	
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.3	U
72-55-9	4,4'-DDE	4.3	U
72-20-8	Endrin	4.3	U
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	9.4	
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	6.5	P
7421-93-4	Endrin aldehyde	4.6	P
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	87	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	160	
11096-82-5	Aroclor-1260	43	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0190

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081798

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

% Moisture: 14 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

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	2.0	U
319-85-7	beta-BHC	1.9	JP
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	4.0	P
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	27	P
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	16	P
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	130	PE
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	130	E
72-43-5	Methoxychlor	25	P
53494-70-5	Endrin ketone	36	P
7421-93-4	Endrin aldehyde	47	
5103-71-9	alpha-Chlordane	13	
5103-74-2	gamma-Chlordane	18	P
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	950	P
11096-82-5	Aroclor-1260	1200	

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0190DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081798DL

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

% Moisture: 14 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

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	9.9	U
319-85-7	beta-BHC	9.9	U
319-86-8	delta-BHC	9.9	U
58-89-9	gamma-BHC (Lindane)	9.9	U
76-44-8	Heptachlor	9.9	U
309-00-2	Aldrin	9.9	U
1024-57-3	Heptachlor epoxide	9.9	U
959-98-8	Endosulfan I	9.9	U
60-57-1	Dieldrin	28	PD
72-55-9	4,4'-DDE	19	U
72-20-8	Endrin	22	PD
33213-65-9	Endosulfan II	19	U
72-54-8	4,4'-DDD	19	U
1031-07-8	Endosulfan sulfate	19	U
50-29-3	4,4'-DDT	150	D
72-43-5	Methoxychlor	99	U
53494-70-5	Endrin ketone	38	PD
7421-93-4	Endrin aldehyde	50	PD
5103-71-9	alpha-Chlordane	12	PD
5103-74-2	gamma-Chlordane	12	PD
8001-35-2	Toxaphene	990	U
12674-11-2	Aroclor-1016	190	U
11104-28-2	Aroclor-1221	390	U
11141-16-5	Aroclor-1232	190	U
53469-21-9	Aroclor-1242	190	U
12672-29-6	Aroclor-1248	190	U
11097-69-1	Aroclor-1254	1200	PD
11096-82-5	Aroclor-1260	1300	D

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0191

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081799

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

% Moisture: 5 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

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	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	71	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0192

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081800

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

% Moisture: 21 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.5	
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.5	P
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	20	
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	26	
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.8	P
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.3	P
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	310	
11096-82-5	Aroclor-1260	220	

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0193

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081801

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

% Moisture: 14 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 5.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0194

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081802

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

% Moisture: 15 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	9.5	P
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	7.7	P
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	11	P
72-55-9	4,4'-DDE	20	P
72-20-8	Endrin	17	
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	200	E
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	250	E
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	6.8	P
7421-93-4	Endrin aldehyde	8.8	P
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	760	P
11096-82-5	Aroclor-1260	980	

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0194DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081802DL

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

% Moisture: 15 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	20	U
319-85-7	beta-BHC	20	U
319-86-8	delta-BHC	20	U
58-89-9	gamma-BHC (Lindane)	20	U
76-44-8	Heptachlor	20	U
309-00-2	Aldrin	20	U
1024-57-3	Heptachlor epoxide	20	U
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	39	U
72-55-9	4,4'-DDE	39	U
72-20-8	Endrin	39	U
33213-65-9	Endosulfan II	39	U
72-54-8	4,4'-DDD	160	PD
1031-07-8	Endosulfan sulfate	39	U
50-29-3	4,4'-DDT	240	D
72-43-5	Methoxychlor	200	U
53494-70-5	Endrin ketone	39	U
7421-93-4	Endrin aldehyde	39	U
5103-71-9	alpha-Chlordane	20	U
5103-74-2	gamma-Chlordane	20	U
8001-35-2	Toxaphene	2000	U
12674-11-2	Aroclor-1016	390	U
11104-28-2	Aroclor-1221	790	U
11141-16-5	Aroclor-1232	390	U
53469-21-9	Aroclor-1242	390	U
12672-29-6	Aroclor-1248	390	U
11097-69-1	Aroclor-1254	700	PD
11096-82-5	Aroclor-1260	950	D

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0195

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081803

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

% Moisture: 17 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

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	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	81	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	40	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0196

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081804

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

% Moisture: 9 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 5.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	23	
319-85-7	beta-BHC	27	P
319-86-8	delta-BHC	19	U
58-89-9	gamma-BHC (Lindane)	57	P
76-44-8	Heptachlor	260	P
309-00-2	Aldrin	19	U
1024-57-3	Heptachlor epoxide	19	U
959-98-8	Endosulfan I	41	P
60-57-1	Dieldrin	36	U
72-55-9	4,4'-DDE	530	
72-20-8	Endrin	110	P
33213-65-9	Endosulfan II	62	P
72-54-8	4,4'-DDD	36	U
1031-07-8	Endosulfan sulfate	36	U
50-29-3	4,4'-DDT	1600	E
72-43-5	Methoxychlor	190	U
53494-70-5	Endrin ketone	36	U
7421-93-4	Endrin aldehyde	290	
5103-71-9	alpha-Chlordane	19	U
5103-74-2	gamma-Chlordane	19	U
8001-35-2	Toxaphene	1900	U
12674-11-2	Aroclor-1016	360	U
11104-28-2	Aroclor-1221	740	U
11141-16-5	Aroclor-1232	360	U
53469-21-9	Aroclor-1242	11000	
12672-29-6	Aroclor-1248	360	U
11097-69-1	Aroclor-1254	27000	
11096-82-5	Aroclor-1260	12000	

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0196DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081804DL

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

% Moisture: 9 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 100

GPC Cleanup: (Y/N) Y pH: 5.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	190	U
319-85-7	beta-BHC	190	U
319-86-8	delta-BHC	190	U
58-89-9	gamma-BHC (Lindane)	190	U
76-44-8	Heptachlor	350	PD
309-00-2	Aldrin	190	U
1024-57-3	Heptachlor epoxide	190	U
959-98-8	Endosulfan I	190	U
60-57-1	Dieldrin	360	U
72-55-9	4,4'-DDE	540	PD
72-20-8	Endrin	360	U
33213-65-9	Endosulfan II	360	U
72-54-8	4,4'-DDD	360	U
1031-07-8	Endosulfan sulfate	360	U
50-29-3	4,4'-DDT	1600	PD
72-43-5	Methoxychlor	1900	U
53494-70-5	Endrin ketone	360	U
7421-93-4	Endrin aldehyde	360	U
5103-71-9	alpha-Chlordane	190	U
5103-74-2	gamma-Chlordane	190	U
8001-35-2	Toxaphene	19000	U
12674-11-2	Aroclor-1016	3600	U
11104-28-2	Aroclor-1221	7400	U
11141-16-5	Aroclor-1232	3600	U
53469-21-9	Aroclor-1242	16000	D
12672-29-6	Aroclor-1248	3600	U
11097-69-1	Aroclor-1254	37000	D
11096-82-5	Aroclor-1260	13000	D

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0197

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081805

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

% Moisture: 14 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 6.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	16	
319-85-7	beta-BHC	19	P
319-86-8	delta-BHC	9.9	U
58-89-9	gamma-BHC (Lindane)	15	P
76-44-8	Heptachlor	52	P
309-00-2	Aldrin	9.9	U
1024-57-3	Heptachlor epoxide	76	P
959-98-8	Endosulfan I	36	P
60-57-1	Dieldrin	19	U
72-55-9	4,4'-DDE	160	P
72-20-8	Endrin	85	P
33213-65-9	Endosulfan II	58	P
72-54-8	4,4'-DDD	19	U
1031-07-8	Endosulfan sulfate	19	U
50-29-3	4,4'-DDT	1000	E
72-43-5	Methoxychlor	99	U
53494-70-5	Endrin ketone	19	U
7421-93-4	Endrin aldehyde	130	P
5103-71-9	alpha-Chlordane	9.9	U
5103-74-2	gamma-Chlordane	9.9	U
8001-35-2	Toxaphene	990	U
12674-11-2	Aroclor-1016	190	U
11104-28-2	Aroclor-1221	390	U
11141-16-5	Aroclor-1232	4100	
53469-21-9	Aroclor-1242	190	U
12672-29-6	Aroclor-1248	190	U
11097-69-1	Aroclor-1254	18000	E
11096-82-5	Aroclor-1260	7100	

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0197DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081805DL

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

% Moisture: 14 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 6.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	99	U
319-85-7	beta-BHC	99	U
319-86-8	delta-BHC	99	U
58-89-9	gamma-BHC (Lindane)	99	U
76-44-8	Heptachlor	99	U
309-00-2	Aldrin	99	U
1024-57-3	Heptachlor epoxide	99	U
959-98-8	Endosulfan I	99	U
60-57-1	Dieldrin	190	U
72-55-9	4,4'-DDE	310	PD
72-20-8	Endrin	190	U
33213-65-9	Endosulfan II	190	U
72-54-8	4,4'-DDD	190	U
1031-07-8	Endosulfan sulfate	190	U
50-29-3	4,4'-DDT	1100	D
72-43-5	Methoxychlor	990	U
53494-70-5	Endrin ketone	190	U
7421-93-4	Endrin aldehyde	190	U
5103-71-9	alpha-Chlordane	99	U
5103-74-2	gamma-Chlordane	99	U
8001-35-2	Toxaphene	9900	U
12674-11-2	Aroclor-1016	1900	U
11104-28-2	Aroclor-1221	3900	U
11141-16-5	Aroclor-1232	5300	PD
53469-21-9	Aroclor-1242	1900	U
12672-29-6	Aroclor-1248	1900	U
11097-69-1	Aroclor-1254	24000	D
11096-82-5	Aroclor-1260	8400	D

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0197MS

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081805MS

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

% Moisture: 14 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 6.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	20	
319-85-7	beta-BHC	25	P
319-86-8	delta-BHC	9.9	U
58-89-9	gamma-BHC (Lindane)	31	P
76-44-8	Heptachlor	74	P
309-00-2	Aldrin	9.9	U
1024-57-3	Heptachlor epoxide	86	P
959-98-8	Endosulfan I	46	P
60-57-1	Dieldrin	19	U
72-55-9	4,4'-DDE	200	P
72-20-8	Endrin	120	P
33213-65-9	Endosulfan II	71	P
72-54-8	4,4'-DDD	19	U
1031-07-8	Endosulfan sulfate	19	U
50-29-3	4,4'-DDT	1200	E
72-43-5	Methoxychlor	99	U
53494-70-5	Endrin ketone	19	U
7421-93-4	Endrin aldehyde	150	P
5103-71-9	alpha-Chlordane	9.9	U
5103-74-2	gamma-Chlordane	9.9	U
8001-35-2	Toxaphene	990	U
12674-11-2	Aroclor-1016	190	U
11104-28-2	Aroclor-1221	390	U
11141-16-5	Aroclor-1232	4900	
53469-21-9	Aroclor-1242	190	U
12672-29-6	Aroclor-1248	190	U
11097-69-1	Aroclor-1254	21000	PE
11096-82-5	Aroclor-1260	8700	E

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0197MSD

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081805MSD

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

% Moisture: 14 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/09/02

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 6.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	21	
319-85-7	beta-BHC	37	P
319-86-8	delta-BHC	9.9	U
58-89-9	gamma-BHC (Lindane)	39	P
76-44-8	Heptachlor	80	P
309-00-2	Aldrin	12	P
1024-57-3	Heptachlor epoxide	130	P
959-98-8	Endosulfan I	50	P
60-57-1	Dieldrin	19	U
72-55-9	4,4'-DDE	230	P
72-20-8	Endrin	140	P
33213-65-9	Endosulfan II	80	P
72-54-8	4,4'-DDD	19	U
1031-07-8	Endosulfan sulfate	19	U
50-29-3	4,4'-DDT	1500	E
72-43-5	Methoxychlor	99	U
53494-70-5	Endrin ketone	19	U
7421-93-4	Endrin aldehyde	210	P
5103-71-9	alpha-Chlordane	9.9	U
5103-74-2	gamma-Chlordane	9.9	U
8001-35-2	Toxaphene	990	U
12674-11-2	Aroclor-1016	190	U
11104-28-2	Aroclor-1221	390	U
11141-16-5	Aroclor-1232	5400	E
53469-21-9	Aroclor-1242	190	U
12672-29-6	Aroclor-1248	190	U
11097-69-1	Aroclor-1254	23000	P
11096-82-5	Aroclor-1260	11000	E

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0198

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081806

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

% Moisture: 8 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/09/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	73	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0199

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081807

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

% Moisture: 8 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/09/02

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

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	23	P
319-85-7	beta-BHC	62	P
319-86-8	delta-BHC	18	U
58-89-9	gamma-BHC (Lindane)	120	P
76-44-8	Heptachlor	440	PE
309-00-2	Aldrin	18	U
1024-57-3	Heptachlor epoxide	18	U
959-98-8	Endosulfan I	110	P
60-57-1	Dieldrin	36	U
72-55-9	4,4'-DDE	490	P
72-20-8	Endrin	150	P
33213-65-9	Endosulfan II	100	P
72-54-8	4,4'-DDD	36	U
1031-07-8	Endosulfan sulfate	36	U
50-29-3	4,4'-DDT	1800	E
72-43-5	Methoxychlor	180	U
53494-70-5	Endrin ketone	300	P
7421-93-4	Endrin aldehyde	340	
5103-71-9	alpha-Chlordane	18	U
5103-74-2	gamma-Chlordane	18	U
8001-35-2	Toxaphene	1800	U
12674-11-2	Aroclor-1016	360	U
11104-28-2	Aroclor-1221	730	U
11141-16-5	Aroclor-1232	360	U
53469-21-9	Aroclor-1242	19000	E
12672-29-6	Aroclor-1248	360	U
11097-69-1	Aroclor-1254	41000	E
11096-82-5	Aroclor-1260	14000	E

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0199DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081807DL

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

% Moisture: 8 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/09/02

Injection Volume: 2.00 (uL) Dilution Factor: 100

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	180	U
319-85-7	beta-BHC	180	U
319-86-8	delta-BHC	180	U
58-89-9	gamma-BHC (Lindane)	180	U
76-44-8	Heptachlor	460	PD
309-00-2	Aldrin	180	U
1024-57-3	Heptachlor epoxide	180	U
959-98-8	Endosulfan I	180	U
60-57-1	Dieldrin	360	U
72-55-9	4,4'-DDE	370	PD
72-20-8	Endrin	360	U
33213-65-9	Endosulfan II	360	U
72-54-8	4,4'-DDD	360	U
1031-07-8	Endosulfan sulfate	360	U
50-29-3	4,4'-DDT	1500	D
72-43-5	Methoxychlor	1800	U
53494-70-5	Endrin ketone	360	U
7421-93-4	Endrin aldehyde	360	U
5103-71-9	alpha-Chlordane	180	U
5103-74-2	gamma-Chlordane	180	U
8001-35-2	Toxaphene	18000	U
12674-11-2	Aroclor-1016	3600	U
11104-28-2	Aroclor-1221	7300	U
11141-16-5	Aroclor-1232	3600	U
53469-21-9	Aroclor-1242	20000	D
12672-29-6	Aroclor-1248	3600	U
11097-69-1	Aroclor-1254	41000	D
11096-82-5	Aroclor-1260	12000	D

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01A0

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081808

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

% Moisture: 16 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/09/02

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.0	U
319-85-7	beta-BHC	4.0	U
319-86-8	delta-BHC	4.0	U
58-89-9	gamma-BHC (Lindane)	4.0	U
76-44-8	Heptachlor	7.1	
309-00-2	Aldrin	4.0	U
1024-57-3	Heptachlor epoxide	4.0	U
959-98-8	Endosulfan I	21	P
60-57-1	Dieldrin	7.9	U
72-55-9	4,4'-DDE	71	P
72-20-8	Endrin	39	P
33213-65-9	Endosulfan II	16	P
72-54-8	4,4'-DDD	7.9	U
1031-07-8	Endosulfan sulfate	7.9	U
50-29-3	4,4'-DDT	510	E
72-43-5	Methoxychlor	40	U
53494-70-5	Endrin ketone	60	P
7421-93-4	Endrin aldehyde	90	P
5103-71-9	alpha-Chlordane	4.0	U
5103-74-2	gamma-Chlordane	67	PE
8001-35-2	Toxaphene	400	U
12674-11-2	Aroclor-1016	79	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	79	U
53469-21-9	Aroclor-1242	79	U
12672-29-6	Aroclor-1248	79	U
11097-69-1	Aroclor-1254	7400	E
11096-82-5	Aroclor-1260	3900	E

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01A0DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081808DL

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

% Moisture: 16 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/09/02

Injection Volume: 2.00 (uL) Dilution Factor: 20.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	40	U
319-85-7	beta-BHC	40	U
319-86-8	delta-BHC	40	U
58-89-9	gamma-BHC (Lindane)	40	U
76-44-8	Heptachlor	40	U
309-00-2	Aldrin	40	U
1024-57-3	Heptachlor epoxide	40	U
959-98-8	Endosulfan I	40	U
60-57-1	Dieldrin	79	U
72-55-9	4,4'-DDE	79	U
72-20-8	Endrin	79	U
33213-65-9	Endosulfan II	79	U
72-54-8	4,4'-DDD	79	U
1031-07-8	Endosulfan sulfate	79	U
50-29-3	4,4'-DDT	640	D
72-43-5	Methoxychlor	400	U
53494-70-5	Endrin ketone	79	U
7421-93-4	Endrin aldehyde	95	PD
5103-71-9	alpha-Chlordane	40	U
5103-74-2	gamma-Chlordane	40	U
8001-35-2	Toxaphene	4000	U
12674-11-2	Aroclor-1016	790	U
11104-28-2	Aroclor-1221	1600	U
11141-16-5	Aroclor-1232	790	U
53469-21-9	Aroclor-1242	790	U
12672-29-6	Aroclor-1248	790	U
11097-69-1	Aroclor-1254	9500	D
11096-82-5	Aroclor-1260	4700	D

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01A1

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081809

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

% Moisture: 16 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/09/02

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.0	U
319-85-7	beta-BHC	4.0	U
319-86-8	delta-BHC	4.0	U
58-89-9	gamma-BHC (Lindane)	4.0	U
76-44-8	Heptachlor	7.0	
309-00-2	Aldrin	4.0	U
1024-57-3	Heptachlor epoxide	4.0	U
959-98-8	Endosulfan I	22	P
60-57-1	Dieldrin	7.9	U
72-55-9	4,4'-DDE	130	P
72-20-8	Endrin	300	E
33213-65-9	Endosulfan II	19	P
72-54-8	4,4'-DDD	7.9	U
1031-07-8	Endosulfan sulfate	7.9	U
50-29-3	4,4'-DDT	7.9	U
72-43-5	Methoxychlor	40	U
53494-70-5	Endrin ketone	7.9	U
7421-93-4	Endrin aldehyde	80	P
5103-71-9	alpha-Chlordane	4.0	U
5103-74-2	gamma-Chlordane	4.0	U
8001-35-2	Toxaphene	400	U
12674-11-2	Aroclor-1016	79	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	79	U
53469-21-9	Aroclor-1242	79	U
12672-29-6	Aroclor-1248	79	U
11097-69-1	Aroclor-1254	7000	
11096-82-5	Aroclor-1260	3500	E

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01A1DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081809DL

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

% Moisture: 16 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/09/02

Injection Volume: 2.00 (uL) Dilution Factor: 20.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	40	U
319-85-7	beta-BHC	40	U
319-86-8	delta-BHC	40	U
58-89-9	gamma-BHC (Lindane)	40	U
76-44-8	Heptachlor	40	U
309-00-2	Aldrin	48	PD
1024-57-3	Heptachlor epoxide	40	U
959-98-8	Endosulfan I	40	U
60-57-1	Dieldrin	79	U
72-55-9	4,4'-DDE	79	U
72-20-8	Endrin	330	D
33213-65-9	Endosulfan II	79	U
72-54-8	4,4'-DDD	79	U
1031-07-8	Endosulfan sulfate	79	U
50-29-3	4,4'-DDT	79	U
72-43-5	Methoxychlor	400	U
53494-70-5	Endrin ketone	79	U
7421-93-4	Endrin aldehyde	81	PD
5103-71-9	alpha-Chlordane	40	U
5103-74-2	gamma-Chlordane	40	U
8001-35-2	Toxaphene	4000	U
12674-11-2	Aroclor-1016	790	U
11104-28-2	Aroclor-1221	1600	U
11141-16-5	Aroclor-1232	790	U
53469-21-9	Aroclor-1242	790	U
12672-29-6	Aroclor-1248	790	U
11097-69-1	Aroclor-1254	8400	D
11096-82-5	Aroclor-1260	3900	D

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01A2

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081810

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

% Moisture: 7 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/09/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.3	P
319-85-7	beta-BHC	11	P
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	4.5	P
76-44-8	Heptachlor	20	
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	8.9	P
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	140	E
72-20-8	Endrin	16	P
33213-65-9	Endosulfan II	6.9	P
72-54-8	4,4'-DDD	220	E
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	290	E
72-43-5	Methoxychlor	28	P
53494-70-5	Endrin ketone	68	PE
7421-93-4	Endrin aldehyde	70	E
5103-71-9	alpha-Chlordane	37	PE
5103-74-2	gamma-Chlordane	39	PE
8001-35-2	Toxaphene	160	U
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	72	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	1000	P
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	2300	E

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01A2DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081810DL

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

% Moisture: 7 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/09/02

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	18	U
319-85-7	beta-BHC	18	U
319-86-8	delta-BHC	18	U
58-89-9	gamma-BHC (Lindane)	18	U
76-44-8	Heptachlor	26	D
309-00-2	Aldrin	18	U
1024-57-3	Heptachlor epoxide	18	U
959-98-8	Endosulfan I	18	U
60-57-1	Dieldrin	35	U
72-55-9	4,4'-DDE	140	PD
72-20-8	Endrin	35	U
33213-65-9	Endosulfan II	35	U
72-54-8	4,4'-DDD	190	PD
1031-07-8	Endosulfan sulfate	35	U
50-29-3	4,4'-DDT	370	D
72-43-5	Methoxychlor	180	U
53494-70-5	Endrin ketone	35	U
7421-93-4	Endrin aldehyde	72	PD
5103-71-9	alpha-Chlordane	32	PD
5103-74-2	gamma-Chlordane	42	PD
8001-35-2	Toxaphene	1800	U
12674-11-2	Aroclor-1016	350	U
11104-28-2	Aroclor-1221	720	U
11141-16-5	Aroclor-1232	350	U
53469-21-9	Aroclor-1242	350	U
12672-29-6	Aroclor-1248	2300	D
11097-69-1	Aroclor-1254	350	U
11096-82-5	Aroclor-1260	2900	D

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01A3

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081811

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

% Moisture: 16 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/09/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.7	P
319-85-7	beta-BHC	36	PE
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	27	P
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	22	P
60-57-1	Dieldrin	36	P
72-55-9	4,4'-DDE	43	P
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	9.1	P
72-54-8	4,4'-DDD	42	P
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	110	E
72-43-5	Methoxychlor	51	P
53494-70-5	Endrin ketone	34	P
7421-93-4	Endrin aldehyde	41	
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	2100	E
11097-69-1	Aroclor-1254	3700	PE
11096-82-5	Aroclor-1260	39	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01A3DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081811DL

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

% Moisture: 16 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/09/02

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	10	U
319-85-7	beta-BHC	42	PD
319-86-8	delta-BHC	10	U
58-89-9	gamma-BHC (Lindane)	10	U
76-44-8	Heptachlor	33	PD
309-00-2	Aldrin	10	U
1024-57-3	Heptachlor epoxide	60	PD
959-98-8	Endosulfan I	19	PD
60-57-1	Dieldrin	40	PD
72-55-9	4,4'-DDE	46	PD
72-20-8	Endrin	20	U
33213-65-9	Endosulfan II	20	U
72-54-8	4,4'-DDD	35	PD
1031-07-8	Endosulfan sulfate	34	PD
50-29-3	4,4'-DDT	130	D
72-43-5	Methoxychlor	100	U
53494-70-5	Endrin ketone	33	PD
7421-93-4	Endrin aldehyde	40	D
5103-71-9	alpha-Chlordane	10	U
5103-74-2	gamma-Chlordane	10	U
8001-35-2	Toxaphene	1000	U
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	400	U
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	200	U
12672-29-6	Aroclor-1248	2400	D
11097-69-1	Aroclor-1254	3500	PD
11096-82-5	Aroclor-1260	200	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01A4

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081812

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

% Moisture: 19 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/09/02

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	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	4.6	
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	83	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01A5

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081813

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

% Moisture: 22 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/09/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 5.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01A6

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081814

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

% Moisture: 25 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/09/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 5.5 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	3.3	
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.5	
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	4.4	U
72-55-9	4,4'-DDE	10	P
72-20-8	Endrin	91	E
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	4.4	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.4	U
7421-93-4	Endrin aldehyde	24	P
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	89	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	1400	P
11096-82-5	Aroclor-1260	1100	

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01A6DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 02081814DL

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

% Moisture: 25 decanted: (Y/N) N Date Received: 08/29/02

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/09/02

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 5.5 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	11	U
1024-57-3	Heptachlor epoxide	11	U
959-98-8	Endosulfan I	11	U
60-57-1	Dieldrin	22	U
72-55-9	4,4'-DDE	28	PD
72-20-8	Endrin	96	D
33213-65-9	Endosulfan II	22	U
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	110	U
53494-70-5	Endrin ketone	22	U
7421-93-4	Endrin aldehyde	25	PD
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	1800	D
11096-82-5	Aroclor-1260	1100	D

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK12

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 30859 SAS No.: SDG No.: E0187

Matrix: (soil/water) SOIL Lab Sample ID: 0830PSB1

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

% Moisture: decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 08/30/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/02

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E0187 CERCLIS No: ILD984809244

Case No: 30859 Site Name/Location: LEFTON IRON AND METALS

Contractor or EPA Lab: ENVIROSYSTEMS Data User: EPA

No. of Samples: 20 Date Sampled or Date Received: 9-11-02

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: 20 No. of samples received: 20

Received by: Erin M. Dixon/ESAT Date: 9-11-02

Received by LSSS: Erin M. Dixon/ESAT Date: 9-11-02

Review started: ____ Reviewer Signature: ____

Total time spent on review: ____ Date review completed: ____

Copied by: ____ Date: ____

Mailed to user by: ____ Date: ____

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

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 [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Filed. Date: ____