



**MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT
ENVIRONMENTAL LABORATORY**

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
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Division: RRD
Report to: PAUL BUCHOLTZ
MDNRE-RRD-LANSING
CONSTITUTION HALL
525 W. ALLEGAN, LANSING, MI 48909

Total: \$5,307.00

Lab Work Order # : 01100028
Work Site ID : 39000051
Site Name : KALAMAZOO RIVER SUPERFUND
Received: 11/03/2010
Reported: 12/29/2010
Collected By:

Samples Received :

No:	Sample ID	Sample Description	Matrix:	Collection Date
01	AB66409	PCSD-SA1-1A-01	SEDIMENT	11/01/2010
02	AB66410	PCSD-SA1-1B-01	SEDIMENT	11/01/2010
03	AB66411	PCSD-SA1-2A-01	SEDIMENT	11/01/2010
04	AB66412	PCSD-SA1-2B-01	SEDIMENT	11/01/2010
05	AB66413	PCSD-SA1-2C-01	SEDIMENT	11/01/2010
06	AB66414	PCSL-SA1-3A-01	SEDIMENT	11/01/2010
07	AB66415	PCSL-SA1-3B-01	SEDIMENT	11/01/2010
08	AB66416	PCSL-SA1-3C-01	SEDIMENT	11/01/2010
09	AB66417	PCSL-SA1-3D-01	SEDIMENT	11/01/2010
10	AB66418	PCSD-SA1-4A-01	SEDIMENT	11/01/2010
11	AB66419	PCSD-SA1-4B-01	SEDIMENT	11/01/2010
12	AB66420	PCSD-SA1-5A-01	SEDIMENT	11/01/2010
13	AB66421	PCSD-SA1-5B-01	SEDIMENT	11/01/2010
14	AB66422	PCSL-SA1-6A-01	SEDIMENT	11/01/2010
15	AB66423	PCSL-SA1-6B-01	SEDIMENT	11/01/2010
16	AB66424	PCSL-SA1-6C-01	SEDIMENT	11/01/2010
17	AB66425	PCSL-SA1-6D-01	SEDIMENT	11/01/2010
18	AB66426	PCSL-SA1-6C-03	SEDIMENT	11/01/2010
19	AB66427	PCSD-SA1-7A-01	SEDIMENT	11/01/2010
20	AB66428	PCSD-SA1-8A-01	SEDIMENT	11/01/2010
21	AB66429	PCSD-SA1-8B-01	SEDIMENT	11/01/2010
22	AB66430	PCSD-SA1-8C-01	SEDIMENT	11/01/2010
23	AB66431	PCSD-SA1-8D-01	SEDIMENT	11/01/2010
24	AB66432	PCSD-SA1-8E-01	SEDIMENT	11/01/2010
25	AB66433	PCSD-SA1-9A-01	SEDIMENT	11/01/2010
26	AB66434	PCSD-SA1-9B-01	SEDIMENT	11/01/2010
27	AB66435	PCSD-SA1-9C-01	SEDIMENT	11/01/2010
28	AB66436	PCSD-SA1-9D-01	SEDIMENT	11/01/2010
29	AB66437	PCSD-SA1-9E-01	SEDIMENT	11/01/2010

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I certify that the analysis performed by the MDEQ Environmental Laboratory are accurate and that the laboratory tests were conducted by methods approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.

George L. Krisztian,
Acting Laboratory Director

CAS# : Chemical Abstract Service Registry Number

RL : Reporting Limit

ND : Not Detected

ug / L : microgram / liter (ppb)

mg / L : milligram / liter (ppm)

ug / Kg : microgram / kilogram (ppb)

mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts

Inorganic Unit Mgr: Sandy Gregg

Organic Unit Mgr: Carol Smith

Systems Mgmt Unit: George Krisztian

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Sample Number: AB66409 PCSD-SA1-1A-01

PCBs as Aroclors

Analytical Method: 8082
Extraction Method: 3545

Date Tested: 11/20/2010
Extraction Date: 11/06/2010

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	Not Applicable		V *	
SURROGATE	#Tetrachloro-m-xylene#	Not Applicable		V *	
12674-11-2	Aroclor 1016	Not Detected	87000		100
11104-28-2	Aroclor 1221	Not Detected	87000		100
11141-16-5	Aroclor 1232	Not Detected	87000		100
53469-21-9	Aroclor 1242	86000	20000	JA	100
12672-29-6	Aroclor 1248	Not Detected	87000		100
11097-69-1	Aroclor 1254	45000	20000	JA	100
11096-82-5	Aroclor 1260	Not Detected	20000		100
37324-23-5	Aroclor 1262	Not Detected	20000		100
11100-14-4	Aroclor 1268	Not Detected	20000		100

RLs raised due to matrix interference.

*Surrogate was not added in first extraction due to analyst error. Sample was re-extracted past hold time with surrogate. Aroclor results agreed between both extractions. Aroclor results reported from first extraction.

Sample Number: AB66409 PCSD-SA1-1A-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	55000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	49.4	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/12/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number

RL : Reporting Limit

ND : Not Detected

ug / L : microgram / liter (ppb)

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Sample Number: AB66410 PCSD-SA1-1B-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/20/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/06/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	63.3		*	
SURROGATE	#Tetrachloro-m-xylene#	88.6		*	
12674-11-2	Aroclor 1016	Not Detected	4500		10
11104-28-2	Aroclor 1221	Not Detected	4500		10
11141-16-5	Aroclor 1232	Not Detected	4500		10
53469-21-9	Aroclor 1242	4300	1800		10
12672-29-6	Aroclor 1248	Not Detected	4500		10
11097-69-1	Aroclor 1254	Not Detected	1800		10
11096-82-5	Aroclor 1260	Not Detected	1800		10
37324-23-5	Aroclor 1262	Not Detected	1800		10
11100-14-4	Aroclor 1268	Not Detected	1800		10

RLs raised due to matrix interference.

*Surrogate was not added in first extraction due to analyst error. Sample was re-extracted past hold time with surrogate. Aroclor results agreed between both extractions. Aroclor results reported from first extraction.

Surrogate results reported from re-extraction.

Sample Number: AB66410 PCSD-SA1-1B-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	39000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	56.1	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/12/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
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Sample Number: AB66411 PCSD-SA1-2A-01

PCBs as Aroclors

Analytical Method: 8082
Extraction Method: 3545

Date Tested: 11/20/2010
Extraction Date: 11/06/2010

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	77.0		*	
SURROGATE	#Tetrachloro-m-xylene#	96.1		*	
12674-11-2	Aroclor 1016	Not Detected	5600		10
11104-28-2	Aroclor 1221	Not Detected	5600		10
11141-16-5	Aroclor 1232	Not Detected	5600		10
53469-21-9	Aroclor 1242	5600	1700	JA	10
12672-29-6	Aroclor 1248	Not Detected	5600		10
11097-69-1	Aroclor 1254	2000	1700	JA	10
11096-82-5	Aroclor 1260	Not Detected	1700		10
37324-23-5	Aroclor 1262	Not Detected	1700		10
11100-14-4	Aroclor 1268	Not Detected	1700		10

RLs raised due to matrix interference.

*Surrogate was not added in first extraction due to analyst error. Sample was re-extracted past hold time with surrogate. Aroclor results agreed between both extractions. Aroclor results reported from first extraction.

Surrogate results reported from re-extraction.

Sample Number: AB66411 PCSD-SA1-2A-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	43000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	58.5	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/12/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
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ND : Not Detected

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ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB66412 PCSD-SA1-2B-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/20/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/06/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	62.2			
SURROGATE	#Tetrachloro-m-xylene#	64.6			
12674-11-2	Aroclor 1016	Not Detected	4000		10
11104-28-2	Aroclor 1221	Not Detected	4000		10
11141-16-5	Aroclor 1232	Not Detected	4000		10
53469-21-9	Aroclor 1242	3900	1800		10
12672-29-6	Aroclor 1248	Not Detected	4000		10
11097-69-1	Aroclor 1254	Not Detected	1800		10
11096-82-5	Aroclor 1260	Not Detected	1800		10
37324-23-5	Aroclor 1262	Not Detected	1800		10
11100-14-4	Aroclor 1268	Not Detected	1800		10

RLs raised due to matrix interference.

Sample Number: AB66412 PCSD-SA1-2B-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	36000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	57.1	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/12/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB66413 PCSD-SA1-2C-01

PCBs as Aroclors

Analytical Method: 8082
Extraction Method: 3545

Date Tested: 11/20/2010
Extraction Date: 11/06/2010

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	64.7			
SURROGATE	#Tetrachloro-m-xylene#	78.1			
12674-11-2	Aroclor 1016	Not Detected	3700		10
11104-28-2	Aroclor 1221	Not Detected	3700		10
11141-16-5	Aroclor 1232	Not Detected	3700		10
53469-21-9	Aroclor 1242	3600	2000	JA	10
12672-29-6	Aroclor 1248	Not Detected	3700		10
11097-69-1	Aroclor 1254	2200	2000	JA	10
11096-82-5	Aroclor 1260	Not Detected	2000		10
37324-23-5	Aroclor 1262	Not Detected	2000		10
11100-14-4	Aroclor 1268	Not Detected	2000		10

RLs raised due to matrix interference.

Sample Number: AB66413 PCSD-SA1-2C-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	42000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	50.8	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/12/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Sample Number: AB66414 PCSL-SA1-3A-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/19/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/06/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	Not Applicable		V	
SURROGATE	#Tetrachloro-m-xylene#	Not Applicable		V	
12674-11-2	Aroclor 1016	Not Detected	150000		100
11104-28-2	Aroclor 1221	Not Detected	150000		100
11141-16-5	Aroclor 1232	Not Detected	150000		100
53469-21-9	Aroclor 1242	150000	20000		100
12672-29-6	Aroclor 1248	Not Detected	150000		100
11097-69-1	Aroclor 1254	Not Detected	20000		100
11096-82-5	Aroclor 1260	Not Detected	20000		100
37324-23-5	Aroclor 1262	Not Detected	20000		100
11100-14-4	Aroclor 1268	Not Detected	20000		100

RLs raised due to matrix interference.

Sample Number: AB66414 PCSL-SA1-3A-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	64000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	49.8	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/12/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Sample Number: AB66415 PCSL-SA1-3B-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/19/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/06/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	Not Applicable		V	
SURROGATE	#Tetrachloro-m-xylene#	Not Applicable		V	
12674-11-2	Aroclor 1016	Not Detected	92000		100
11104-28-2	Aroclor 1221	Not Detected	92000		100
11141-16-5	Aroclor 1232	Not Detected	92000		100
53469-21-9	Aroclor 1242	91000	19000		100
12672-29-6	Aroclor 1248	Not Detected	92000		100
11097-69-1	Aroclor 1254	Not Detected	19000		100
11096-82-5	Aroclor 1260	Not Detected	19000		100
37324-23-5	Aroclor 1262	Not Detected	19000		100
11100-14-4	Aroclor 1268	Not Detected	19000		100

RLs raised due to matrix interference.

Sample Number: AB66415 PCSL-SA1-3B-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	65000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	52.4	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/12/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB66416 PCSL-SA1-3C-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/20/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/06/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	Not Applicable		V	
SURROGATE	#Tetrachloro-m-xylene#	Not Applicable		V	
12674-11-2	Aroclor 1016	Not Detected	36000		50
11104-28-2	Aroclor 1221	Not Detected	36000		50
11141-16-5	Aroclor 1232	Not Detected	36000		50
53469-21-9	Aroclor 1242	35000	9100		50
12672-29-6	Aroclor 1248	Not Detected	36000		50
11097-69-1	Aroclor 1254	Not Detected	9100		50
11096-82-5	Aroclor 1260	Not Detected	9100		50
37324-23-5	Aroclor 1262	Not Detected	9100		50
11100-14-4	Aroclor 1268	Not Detected	9100		50

RLs raised due to matrix interference.

Sample Number: AB66416 PCSL-SA1-3C-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	53000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	54.9	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/12/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

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Sample Number: AB66417 PCSL-SA1-3D-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/20/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/06/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	63.2			
SURROGATE	#Tetrachloro-m-xylene#	54.4			
12674-11-2	Aroclor 1016	Not Detected	730		5.0
11104-28-2	Aroclor 1221	Not Detected	730		5.0
11141-16-5	Aroclor 1232	Not Detected	730		5.0
53469-21-9	Aroclor 1242	Not Detected	730		5.0
12672-29-6	Aroclor 1248	Not Detected	730		5.0
11097-69-1	Aroclor 1254	Not Detected	730		5.0
11096-82-5	Aroclor 1260	Not Detected	730		5.0
37324-23-5	Aroclor 1262	Not Detected	730		5.0
11100-14-4	Aroclor 1268	Not Detected	730		5.0

RLs raised due to matrix interference.

Sample Number: AB66417 PCSL-SA1-3D-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	29000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	68.5	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/12/2010	3640	SC

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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

**MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT
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P.O. Box 30270
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TEL: (517) 335-9800
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Sample Number: AB66418 PCSD-SA1-4A-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/20/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/06/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	70.2			
SURROGATE	#Tetrachloro-m-xylene#	71.9			
12674-11-2	Aroclor 1016	Not Detected	3400		5.0
11104-28-2	Aroclor 1221	Not Detected	3400		5.0
11141-16-5	Aroclor 1232	Not Detected	3400		5.0
53469-21-9	Aroclor 1242	3200	890		5.0
12672-29-6	Aroclor 1248	Not Detected	3400		5.0
11097-69-1	Aroclor 1254	Not Detected	890		5.0
11096-82-5	Aroclor 1260	Not Detected	890		5.0
37324-23-5	Aroclor 1262	Not Detected	890		5.0
11100-14-4	Aroclor 1268	Not Detected	890		5.0

RLs raised due to matrix interference.

Sample Number: AB66418 PCSD-SA1-4A-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	45000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	56.4	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/12/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Sandy Gregg
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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Sample Number: AB66419 PCSD-SA1-4B-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/20/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/06/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	56.6			
SURROGATE	#Tetrachloro-m-xylene#	60.5			
12674-11-2	Aroclor 1016	Not Detected	1400		5.0
11104-28-2	Aroclor 1221	Not Detected	1400		5.0
11141-16-5	Aroclor 1232	Not Detected	1400		5.0
53469-21-9	Aroclor 1242	1400	870		5.0
12672-29-6	Aroclor 1248	Not Detected	1400		5.0
11097-69-1	Aroclor 1254	Not Detected	870		5.0
11096-82-5	Aroclor 1260	Not Detected	870		5.0
37324-23-5	Aroclor 1262	Not Detected	870		5.0
11100-14-4	Aroclor 1268	Not Detected	870		5.0

RLs raised due to matrix interference.

Sample Number: AB66419 PCSD-SA1-4B-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	33000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	57.8	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/12/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number

RL : Reporting Limit

ND : Not Detected

ug / L : microgram / liter (ppb)

mg / L : milligram / liter (ppm)

ug / Kg : microgram / kilogram (ppb)

mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts

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Organic Unit Mgr: Carol Smith

Systems Mgmt Unit: George Krisztian

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Sample Number: AB66420 PCSD-SA1-5A-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/21/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/06/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	60.0			
SURROGATE	#Tetrachloro-m-xylene#	71.5			
12674-11-2	Aroclor 1016	Not Detected	2000		5.0
11104-28-2	Aroclor 1221	Not Detected	2000		5.0
11141-16-5	Aroclor 1232	Not Detected	2000		5.0
53469-21-9	Aroclor 1242	1900	780		5.0
12672-29-6	Aroclor 1248	Not Detected	2000		5.0
11097-69-1	Aroclor 1254	Not Detected	780		5.0
11096-82-5	Aroclor 1260	Not Detected	780		5.0
37324-23-5	Aroclor 1262	Not Detected	780		5.0
11100-14-4	Aroclor 1268	Not Detected	780		5.0

RLs raised due to matrix interference.

Sample Number: AB66420 PCSD-SA1-5A-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	40000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	63.7	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/12/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Sandy Gregg
Organic Unit Mgr: Carol Smith
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Sample Number: AB66421 PCSD-SA1-5B-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/25/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/06/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	61.5			
SURROGATE	#Tetrachloro-m-xylene#	54.8			
12674-11-2	Aroclor 1016	Not Detected	780		5.0
11104-28-2	Aroclor 1221	Not Detected	780		5.0
11141-16-5	Aroclor 1232	Not Detected	780		5.0
53469-21-9	Aroclor 1242	Not Detected	780		5.0
12672-29-6	Aroclor 1248	Not Detected	780		5.0
11097-69-1	Aroclor 1254	Not Detected	780		5.0
11096-82-5	Aroclor 1260	Not Detected	780		5.0
37324-23-5	Aroclor 1262	Not Detected	780		5.0
11100-14-4	Aroclor 1268	Not Detected	780		5.0

RLs raised due to matrix interference.

Sample Number: AB66421 PCSD-SA1-5B-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	23000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	64.1	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/12/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Systems Mgmt Unit: George Krisztian

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Sample Number: AB66422 PCSL-SA1-6A-01

PCBs as Aroclors

Analytical Method: 8082
Extraction Method: 3545

Date Tested: 11/20/2010
Extraction Date: 11/06/2010

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	82.9			
SURROGATE	#Tetrachloro-m-xylene#	92.2			
12674-11-2	Aroclor 1016	Not Detected	8600		10
11104-28-2	Aroclor 1221	Not Detected	8600		10
11141-16-5	Aroclor 1232	Not Detected	8600		10
53469-21-9	Aroclor 1242	Not Detected	8600		10
12672-29-6	Aroclor 1248	8500	2000	JA	10
11097-69-1	Aroclor 1254	2100	2000	JA	10
11096-82-5	Aroclor 1260	Not Detected	2000		10
37324-23-5	Aroclor 1262	Not Detected	2000		10
11100-14-4	Aroclor 1268	Not Detected	2000		10

RLs raised due to matrix interference.

Sample Number: AB66422 PCSL-SA1-6A-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	76000	mg/Kg	200		12/07/2010	Walkley-Blac	LAV
	% Total Solids	49.9	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/12/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB66423 PCSL-SA1-6B-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/20/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/06/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	87.8			
SURROGATE	#Tetrachloro-m-xylene#	93.2			
12674-11-2	Aroclor 1016	Not Detected	3300		10
11104-28-2	Aroclor 1221	Not Detected	3300		10
11141-16-5	Aroclor 1232	Not Detected	3300		10
53469-21-9	Aroclor 1242	Not Detected	3300		10
12672-29-6	Aroclor 1248	3200	1900		10
11097-69-1	Aroclor 1254	Not Detected	1900		10
11096-82-5	Aroclor 1260	Not Detected	1900		10
37324-23-5	Aroclor 1262	Not Detected	1900		10
11100-14-4	Aroclor 1268	Not Detected	1900		10

RLs raised due to matrix interference.

Sample Number: AB66423 PCSL-SA1-6B-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	50000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	51.9	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/12/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Sandy Gregg
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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Sample Number: AB66424 PCSL-SA1-6C-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/20/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/06/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	74.4			
SURROGATE	#Tetrachloro-m-xylene#	84.3			
12674-11-2	Aroclor 1016	Not Detected	4600		10
11104-28-2	Aroclor 1221	Not Detected	4600		10
11141-16-5	Aroclor 1232	Not Detected	4600		10
53469-21-9	Aroclor 1242	Not Detected	4600		10
12672-29-6	Aroclor 1248	4500	1900		10
11097-69-1	Aroclor 1254	Not Detected	1900		10
11096-82-5	Aroclor 1260	Not Detected	1900		10
37324-23-5	Aroclor 1262	Not Detected	1900		10
11100-14-4	Aroclor 1268	Not Detected	1900		10

RLs raised due to matrix interference.

Sample Number: AB66424 PCSL-SA1-6C-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	59000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	51.7	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/12/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Sandy Gregg
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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Sample Number: AB66425 PCSL-SA1-6D-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/21/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/06/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	58.3			
SURROGATE	#Tetrachloro-m-xylene#	75.8			
12674-11-2	Aroclor 1016	Not Detected	2100		5.0
11104-28-2	Aroclor 1221	Not Detected	2100		5.0
11141-16-5	Aroclor 1232	Not Detected	2100		5.0
53469-21-9	Aroclor 1242	2000	890		5.0
12672-29-6	Aroclor 1248	Not Detected	2100		5.0
11097-69-1	Aroclor 1254	Not Detected	890		5.0
11096-82-5	Aroclor 1260	Not Detected	890		5.0
37324-23-5	Aroclor 1262	Not Detected	890		5.0
11100-14-4	Aroclor 1268	Not Detected	890		5.0

RLs raised due to matrix interference.

Sample Number: AB66425 PCSL-SA1-6D-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	55000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	56.1	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/12/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number

RL : Reporting Limit

ND : Not Detected

ug / L : microgram / liter (ppb)

mg / L : milligram / liter (ppm)

ug / Kg : microgram / kilogram (ppb)

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Laboratory Contacts

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Organic Unit Mgr: Carol Smith

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Sample Number: AB66426 PCSL-SA1-6C-03

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/21/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/08/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	60.0			
SURROGATE	#Tetrachloro-m-xylene#	82.4			
12674-11-2	Aroclor 1016	Not Detected	6600		10
11104-28-2	Aroclor 1221	Not Detected	6600		10
11141-16-5	Aroclor 1232	Not Detected	6600		10
53469-21-9	Aroclor 1242	Not Detected	6600		10
12672-29-6	Aroclor 1248	6500	1900		10
11097-69-1	Aroclor 1254	Not Detected	1900		10
11096-82-5	Aroclor 1260	Not Detected	1900		10
37324-23-5	Aroclor 1262	Not Detected	1900		10
11100-14-4	Aroclor 1268	Not Detected	1900		10

RLs raised due to matrix interference.

Sample Number: AB66426 PCSL-SA1-6C-03

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	44000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	52.8	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/13/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB66427 PCSD-SA1-7A-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/22/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/08/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	65.5			
SURROGATE	#Tetrachloro-m-xylene#	63.0			
12674-11-2	Aroclor 1016	Not Detected	1000		5.0
11104-28-2	Aroclor 1221	Not Detected	1000		5.0
11141-16-5	Aroclor 1232	Not Detected	1000		5.0
53469-21-9	Aroclor 1242	Not Detected	1000		5.0
12672-29-6	Aroclor 1248	Not Detected	1000		5.0
11097-69-1	Aroclor 1254	Not Detected	1000		5.0
11096-82-5	Aroclor 1260	Not Detected	1000		5.0
37324-23-5	Aroclor 1262	Not Detected	1000		5.0
11100-14-4	Aroclor 1268	Not Detected	1000		5.0

RLs raised due to matrix interference.

Sample Number: AB66427 PCSD-SA1-7A-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	46000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	49.8	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/13/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB66428 PCSD-SA1-8A-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/22/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/08/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	70.6			
SURROGATE	#Tetrachloro-m-xylene#	68.9			
12674-11-2	Aroclor 1016	Not Detected	1200		5.0
11104-28-2	Aroclor 1221	Not Detected	1200		5.0
11141-16-5	Aroclor 1232	Not Detected	1200		5.0
53469-21-9	Aroclor 1242	1100	1200	T	5.0
12672-29-6	Aroclor 1248	Not Detected	1200		5.0
11097-69-1	Aroclor 1254	Not Detected	1200		5.0
11096-82-5	Aroclor 1260	Not Detected	1200		5.0
37324-23-5	Aroclor 1262	Not Detected	1200		5.0
11100-14-4	Aroclor 1268	Not Detected	1200		5.0

RLs raised due to matrix interference.

Sample Number: AB66428 PCSD-SA1-8A-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	34000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	42.6	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/13/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

**MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT
ENVIRONMENTAL LABORATORY**



P.O. Box 30270
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TEL: (517) 335-9800
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Sample Number: AB66429 PCSD-SA1-8B-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/22/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/08/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	64.1			
SURROGATE	#Tetrachloro-m-xylene#	61.4			
12674-11-2	Aroclor 1016	Not Detected	1000		5.0
11104-28-2	Aroclor 1221	Not Detected	1000		5.0
11141-16-5	Aroclor 1232	Not Detected	1000		5.0
53469-21-9	Aroclor 1242	Not Detected	1000		5.0
12672-29-6	Aroclor 1248	Not Detected	1000		5.0
11097-69-1	Aroclor 1254	Not Detected	1000		5.0
11096-82-5	Aroclor 1260	Not Detected	1000		5.0
37324-23-5	Aroclor 1262	Not Detected	1000		5.0
11100-14-4	Aroclor 1268	Not Detected	1000		5.0

RLs raised due to matrix interference.

Sample Number: AB66429 PCSD-SA1-8B-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	43000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	48.2	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/13/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Sandy Gregg
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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Sample Number: AB66430 PCSD-SA1-8C-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/23/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/08/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	72.8			
SURROGATE	#Tetrachloro-m-xylene#	72.6			
12674-11-2	Aroclor 1016	Not Detected	120		1.0
11104-28-2	Aroclor 1221	Not Detected	120		1.0
11141-16-5	Aroclor 1232	Not Detected	120		1.0
53469-21-9	Aroclor 1242	Not Detected	120		1.0
12672-29-6	Aroclor 1248	Not Detected	120		1.0
11097-69-1	Aroclor 1254	Not Detected	120		1.0
11096-82-5	Aroclor 1260	Not Detected	120		1.0
37324-23-5	Aroclor 1262	Not Detected	120		1.0
11100-14-4	Aroclor 1268	Not Detected	120		1.0

Sample Number: AB66430 PCSD-SA1-8C-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	1000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	80.4	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/13/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB66431 PCSD-SA1-8D-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/23/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/08/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	77.1			
SURROGATE	#Tetrachloro-m-xylene#	69.1			
12674-11-2	Aroclor 1016	Not Detected	120		1.0
11104-28-2	Aroclor 1221	Not Detected	120		1.0
11141-16-5	Aroclor 1232	Not Detected	120		1.0
53469-21-9	Aroclor 1242	Not Detected	120		1.0
12672-29-6	Aroclor 1248	Not Detected	120		1.0
11097-69-1	Aroclor 1254	Not Detected	120		1.0
11096-82-5	Aroclor 1260	Not Detected	120		1.0
37324-23-5	Aroclor 1262	Not Detected	120		1.0
11100-14-4	Aroclor 1268	Not Detected	120		1.0

Sample Number: AB66431 PCSD-SA1-8D-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	740	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	85.8	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/13/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB66432 PCSD-SA1-8E-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/23/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/08/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	80.0			
SURROGATE	#Tetrachloro-m-xylene#	67.7			
12674-11-2	Aroclor 1016	Not Detected	120		1.0
11104-28-2	Aroclor 1221	Not Detected	120		1.0
11141-16-5	Aroclor 1232	Not Detected	120		1.0
53469-21-9	Aroclor 1242	Not Detected	120		1.0
12672-29-6	Aroclor 1248	Not Detected	120		1.0
11097-69-1	Aroclor 1254	Not Detected	120		1.0
11096-82-5	Aroclor 1260	Not Detected	120		1.0
37324-23-5	Aroclor 1262	Not Detected	120		1.0
11100-14-4	Aroclor 1268	Not Detected	120		1.0

Sample Number: AB66432 PCSD-SA1-8E-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	580	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	85.6	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/13/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Sample Number: AB66433 PCSD-SA1-9A-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/23/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/08/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	71.4			
SURROGATE	#Tetrachloro-m-xylene#	81.8			
12674-11-2	Aroclor 1016	Not Detected	510	K	1.0
11104-28-2	Aroclor 1221	Not Detected	510	K	1.0
11141-16-5	Aroclor 1232	Not Detected	510	K	1.0
53469-21-9	Aroclor 1242	510	120		1.0
12672-29-6	Aroclor 1248	Not Detected	510	K	1.0
11097-69-1	Aroclor 1254	Not Detected	120		1.0
11096-82-5	Aroclor 1260	Not Detected	120		1.0
37324-23-5	Aroclor 1262	Not Detected	120		1.0
11100-14-4	Aroclor 1268	Not Detected	120		1.0

Sample Number: AB66433 PCSD-SA1-9A-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	16000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	82.4	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/13/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB66434 PCSD-SA1-9B-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/21/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/08/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	67.9			
SURROGATE	#Tetrachloro-m-xylene#	83.1			
12674-11-2	Aroclor 1016	Not Detected	9300		10
11104-28-2	Aroclor 1221	Not Detected	9300		10
11141-16-5	Aroclor 1232	Not Detected	9300		10
53469-21-9	Aroclor 1242	Not Detected	9300		10
12672-29-6	Aroclor 1248	9300	1400		10
11097-69-1	Aroclor 1254	Not Detected	1700		10
11096-82-5	Aroclor 1260	Not Detected	1400		10
37324-23-5	Aroclor 1262	Not Detected	1400		10
11100-14-4	Aroclor 1268	Not Detected	1400		10

RLs raised due to matrix interference.

Sample Number: AB66434 PCSD-SA1-9B-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	18000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	71.1	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/13/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Sample Number: AB66435 PCSD-SA1-9C-01

PCBs as Aroclors

Analytical Method: 8082
Extraction Method: 3545

Date Tested: 11/22/2010
Extraction Date: 11/08/2010

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	72.2			
SURROGATE	#Tetrachloro-m-xylene#	82.3			
12674-11-2	Aroclor 1016	Not Detected	1300		5.0
11104-28-2	Aroclor 1221	Not Detected	1300		5.0
11141-16-5	Aroclor 1232	Not Detected	1300		5.0
53469-21-9	Aroclor 1242	1300	680		5.0
12672-29-6	Aroclor 1248	Not Detected	1300		5.0
11097-69-1	Aroclor 1254	Not Detected	680		5.0
11096-82-5	Aroclor 1260	Not Detected	680		5.0
37324-23-5	Aroclor 1262	Not Detected	680		5.0
11100-14-4	Aroclor 1268	Not Detected	680		5.0

RLs raised due to matrix interference.

Sample Number: AB66435 PCSD-SA1-9C-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	17000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	73.5	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/13/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB66436 PCSD-SA1-9D-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/22/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/08/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	57.7			
SURROGATE	#Tetrachloro-m-xylene#	68.9			
12674-11-2	Aroclor 1016	Not Detected	870		5.0
11104-28-2	Aroclor 1221	Not Detected	870		5.0
11141-16-5	Aroclor 1232	Not Detected	870		5.0
53469-21-9	Aroclor 1242	Not Detected	870		5.0
12672-29-6	Aroclor 1248	Not Detected	870		5.0
11097-69-1	Aroclor 1254	Not Detected	870		5.0
11096-82-5	Aroclor 1260	Not Detected	870		5.0
37324-23-5	Aroclor 1262	Not Detected	870		5.0
11100-14-4	Aroclor 1268	Not Detected	870		5.0

RLs raised due to matrix interference.

Sample Number: AB66436 PCSD-SA1-9D-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	45000	mg/Kg	200		12/04/2010	Walkley-Blac	LAV
	% Total Solids	57.3	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/13/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB66437 PCSD-SA1-9E-01

PCBs as Aroclors

Analytical Method: 8082 **Date Tested:** 11/23/2010 **Analyst:** MF
Extraction Method: 3545 **Extraction Date:** 11/08/2010 **Qualifier:**

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	57.5			
SURROGATE	#Tetrachloro-m-xylene#	58.2			
12674-11-2	Aroclor 1016	Not Detected	190		1.0
11104-28-2	Aroclor 1221	Not Detected	190		1.0
11141-16-5	Aroclor 1232	Not Detected	190		1.0
53469-21-9	Aroclor 1242	Not Detected	190		1.0
12672-29-6	Aroclor 1248	Not Detected	190		1.0
11097-69-1	Aroclor 1254	Not Detected	190		1.0
11096-82-5	Aroclor 1260	Not Detected	190		1.0
37324-23-5	Aroclor 1262	Not Detected	190		1.0
11100-14-4	Aroclor 1268	Not Detected	190		1.0

Sample Number: AB66437 PCSD-SA1-9E-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Data Package Preparation	Completed				12/14/2010		CS1
7440-44-0	TOC	48000	mg/Kg	200		12/07/2010	Walkley-Blac	LAV
	% Total Solids	53.8	%	0.1		11/22/2010	2540B SM	RG
	Gel Permeation Cleanup-Pesticide/PCl	Completed				11/13/2010	3640	SC

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Qualifier Code	Qualifier Description
1	Result(s) and RL(s) are estimated due to low surrogate recovery.
2	Result is estimated due to high surrogate recovery.
3	Result(s) and RL(s) are estimated due to low matrix spike recovery.
4	Result is estimated due to high matrix spike recovery.
5	Result and RL are estimated due to low continuing calibration standard criteria failure.
6	Result is estimated due to high continuing calibration standard criteria failure.
7	Result(s) and RL(s) are estimated due to poor precision.
8	Result(s) and RL(s) are estimated due to low recovery of batch QC.
9	Result outside QC acceptance criteria.
A	Value reported is the mean of two or more determinations.
C	Value calculated from other independent parameters.
D	Analyte value quantified from a dilution(s); reporting limit (RL) raised.
E	Result is estimated due to high recovery of batch QC.
F	Amenable cyanide was not analyzed due to low level of total cyanide.
G	Result and RL are estimated due to initial calibration standard criteria failure.
H	Recommended laboratory holding time was exceeded.
I	Dilution required due to matrix interference; reporting limit (RL) raised.
J	Analyte was positively identified. Value is an estimate.
JA	Result is estimated due to multiple Aroclors present.
JC	Result is estimated since confirmation analysis did not meet acceptance criteria
JD	Due to severe degradation, specific Aroclor identification is difficult and quantitation is estimated.
K	RL(s) raised due to matrix interferences.
KR	RL(s) raised due to low sample volume submitted.
KS	RL(s) raised due to low total solids.
KW	RL(s) raised due to light sample weight.
LB	Reported library search compounds are tentative identifications with estimated concentrations.
M	The level of the method preparation blank (MPB) is reported in the qualifier column.
N	Non-homogeneous sample made analysis of sample questionable.
O	Result and RL estimated due to analysis from an open vial.
P	Recommended sample collection/preservation technique not used; reported result(s) is an estimate.
Q	Quantity of sample insufficient to perform analyses requested.
R	Result confirmed by re-extraction and analysis.
S	Supernatant analyzed.
T	Reported value is less than the reporting limit (RL). Result is estimated.
V	Value not available due to dilution.
W	Reported value is less than the method detection limit (MDL).
X	Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200°C. 2-Methylnaphthalene & naphthalene have boiling points above 200°C and are better suited to analysis by methods 8270 or 625 as semivolatile organics.
PI	Possible interference may have affected the accuracy of the laboratory result
Z	Result reported below the RL to meet the TDL in RRD Op Memo 2 (10/22/04) multiplied by applicable dilution factor.

CAS# : Chemical Abstract Service Registry Number

RL : Reporting Limit

ND : Not Detected

ug / L : microgram / liter (ppb)

mg / L : milligram / liter (ppm)

ug / Kg : microgram / kilogram (ppb)

mg / Kg : milligram / kilogram (ppm)

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