

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Chicago
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Tel: (708)534-5200

TestAmerica Job ID: 500-93829-1
Client Project/Site: Rain Garden

For:
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin 53704

Attn: Alina Satkoski



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Madison-Kipp Corporation
Project/Site: Rain Garden

TestAmerica Job ID: 500-93829-1

Job ID: 500-93829-1

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-93829-1**

Comments

No additional comments.

Receipt

The samples were received on 3/27/2015 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.1° C.

GC Semi VOA

Method(s) 8082: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: RG-40 (500-93829-1), RG-40 (500-93829-1 MS), RG-40 (500-93829-1 MSD), RG-42 (500-93829-3). Elevated reporting limits (RLs) are provided.

Method(s) 8082: The following sample(s) required a dilution due to the nature of the sample matrix: RG-40 (500-93829-1), RG-40 (500-93829-1 MS), RG-40 (500-93829-1 MSD). Because of this dilution, the surrogate spike concentrations in the samples were reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Madison-Kipp Corporation
Project/Site: Rain Garden

TestAmerica Job ID: 500-93829-1

Client Sample ID: RG-40

Lab Sample ID: 500-93829-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	6700		440	94	ug/Kg	20	☼	8082	Total/NA

Client Sample ID: RG-41

Lab Sample ID: 500-93829-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	350		20	4.4	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: RG-42

Lab Sample ID: 500-93829-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	2000		220	48	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: Duplicate

Lab Sample ID: 500-93829-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	380		21	4.5	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Equipment Blank

Lab Sample ID: 500-93829-5

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Madison-Kipp Corporation
Project/Site: Rain Garden

TestAmerica Job ID: 500-93829-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Madison-Kipp Corporation
Project/Site: Rain Garden

TestAmerica Job ID: 500-93829-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-93829-1	RG-40	Solid	03/26/15 09:45	03/27/15 10:25
500-93829-2	RG-41	Solid	03/26/15 10:45	03/27/15 10:25
500-93829-3	RG-42	Solid	03/26/15 11:30	03/27/15 10:25
500-93829-4	Duplicate	Solid	03/26/15 00:00	03/27/15 10:25
500-93829-5	Equipment Blank	Water	03/26/15 10:15	03/27/15 10:25

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Client Sample Results

Client: Madison-Kipp Corporation
Project/Site: Rain Garden

TestAmerica Job ID: 500-93829-1

Client Sample ID: RG-40

Lab Sample ID: 500-93829-1

Date Collected: 03/26/15 09:45

Matrix: Solid

Date Received: 03/27/15 10:25

Percent Solids: 75.2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<150	F1	440	150	ug/Kg	☼	03/30/15 15:43	04/01/15 09:26	20
PCB-1221	<190		440	190	ug/Kg	☼	03/30/15 15:43	04/01/15 09:26	20
PCB-1232	<190		440	190	ug/Kg	☼	03/30/15 15:43	04/01/15 09:26	20
PCB-1242	<140		440	140	ug/Kg	☼	03/30/15 15:43	04/01/15 09:26	20
PCB-1248	<170		440	170	ug/Kg	☼	03/30/15 15:43	04/01/15 09:26	20
PCB-1254	6700		440	94	ug/Kg	☼	03/30/15 15:43	04/01/15 09:26	20
PCB-1260	<210	F1	440	210	ug/Kg	☼	03/30/15 15:43	04/01/15 09:26	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	D	50 - 116	03/30/15 15:43	04/01/15 09:26	20
DCB Decachlorobiphenyl	0	D	48 - 142	03/30/15 15:43	04/01/15 09:26	20

Client Sample Results

Client: Madison-Kipp Corporation
 Project/Site: Rain Garden

TestAmerica Job ID: 500-93829-1

Client Sample ID: RG-41

Lab Sample ID: 500-93829-2

Date Collected: 03/26/15 10:45

Matrix: Solid

Date Received: 03/27/15 10:25

Percent Solids: 79.6

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.2		20	7.2	ug/Kg	☼	03/30/15 15:43	03/31/15 16:36	1
PCB-1221	<8.9		20	8.9	ug/Kg	☼	03/30/15 15:43	03/31/15 16:36	1
PCB-1232	<8.9		20	8.9	ug/Kg	☼	03/30/15 15:43	03/31/15 16:36	1
PCB-1242	<6.7		20	6.7	ug/Kg	☼	03/30/15 15:43	03/31/15 16:36	1
PCB-1248	<8.0		20	8.0	ug/Kg	☼	03/30/15 15:43	03/31/15 16:36	1
PCB-1254	350		20	4.4	ug/Kg	☼	03/30/15 15:43	03/31/15 16:36	1
PCB-1260	<10		20	10	ug/Kg	☼	03/30/15 15:43	03/31/15 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	68		50 - 116	03/30/15 15:43	03/31/15 16:36	1
<i>DCB Decachlorobiphenyl</i>	68		48 - 142	03/30/15 15:43	03/31/15 16:36	1

Client Sample Results

Client: Madison-Kipp Corporation
 Project/Site: Rain Garden

TestAmerica Job ID: 500-93829-1

Client Sample ID: RG-42

Lab Sample ID: 500-93829-3

Date Collected: 03/26/15 11:30

Matrix: Solid

Date Received: 03/27/15 10:25

Percent Solids: 73.5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<79		220	79	ug/Kg	☼	03/30/15 15:43	04/01/15 10:07	10
PCB-1221	<99		220	99	ug/Kg	☼	03/30/15 15:43	04/01/15 10:07	10
PCB-1232	<98		220	98	ug/Kg	☼	03/30/15 15:43	04/01/15 10:07	10
PCB-1242	<74		220	74	ug/Kg	☼	03/30/15 15:43	04/01/15 10:07	10
PCB-1248	<88		220	88	ug/Kg	☼	03/30/15 15:43	04/01/15 10:07	10
PCB-1254	2000		220	48	ug/Kg	☼	03/30/15 15:43	04/01/15 10:07	10
PCB-1260	<110		220	110	ug/Kg	☼	03/30/15 15:43	04/01/15 10:07	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	102		50 - 116	03/30/15 15:43	04/01/15 10:07	10
<i>DCB Decachlorobiphenyl</i>	113		48 - 142	03/30/15 15:43	04/01/15 10:07	10

Client Sample Results

Client: Madison-Kipp Corporation
 Project/Site: Rain Garden

TestAmerica Job ID: 500-93829-1

Client Sample ID: Duplicate

Lab Sample ID: 500-93829-4

Date Collected: 03/26/15 00:00

Matrix: Solid

Date Received: 03/27/15 10:25

Percent Solids: 77.6

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.4		21	7.4	ug/Kg	☼	03/30/15 15:43	03/31/15 17:03	1
PCB-1221	<9.2		21	9.2	ug/Kg	☼	03/30/15 15:43	03/31/15 17:03	1
PCB-1232	<9.1		21	9.1	ug/Kg	☼	03/30/15 15:43	03/31/15 17:03	1
PCB-1242	<6.9		21	6.9	ug/Kg	☼	03/30/15 15:43	03/31/15 17:03	1
PCB-1248	<8.3		21	8.3	ug/Kg	☼	03/30/15 15:43	03/31/15 17:03	1
PCB-1254	380		21	4.5	ug/Kg	☼	03/30/15 15:43	03/31/15 17:03	1
PCB-1260	<10		21	10	ug/Kg	☼	03/30/15 15:43	03/31/15 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		50 - 116	03/30/15 15:43	03/31/15 17:03	1
DCB Decachlorobiphenyl	71		48 - 142	03/30/15 15:43	03/31/15 17:03	1

Client Sample Results

Client: Madison-Kipp Corporation
 Project/Site: Rain Garden

TestAmerica Job ID: 500-93829-1

Client Sample ID: Equipment Blank

Lab Sample ID: 500-93829-5

Date Collected: 03/26/15 10:15

Matrix: Water

Date Received: 03/27/15 10:25

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.039		0.23	0.039	ug/L		03/30/15 10:18	03/31/15 10:05	1
PCB-1221	<0.12		0.23	0.12	ug/L		03/30/15 10:18	03/31/15 10:05	1
PCB-1232	<0.12		0.23	0.12	ug/L		03/30/15 10:18	03/31/15 10:05	1
PCB-1242	<0.12		0.23	0.12	ug/L		03/30/15 10:18	03/31/15 10:05	1
PCB-1248	<0.12		0.23	0.12	ug/L		03/30/15 10:18	03/31/15 10:05	1
PCB-1254	<0.12		0.23	0.12	ug/L		03/30/15 10:18	03/31/15 10:05	1
PCB-1260	<0.041		0.23	0.041	ug/L		03/30/15 10:18	03/31/15 10:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		50 - 120	03/30/15 10:18	03/31/15 10:05	1
DCB Decachlorobiphenyl	69		29 - 126	03/30/15 10:18	03/31/15 10:05	1

Definitions/Glossary

Client: Madison-Kipp Corporation
Project/Site: Rain Garden

TestAmerica Job ID: 500-93829-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Madison-Kipp Corporation
Project/Site: Rain Garden

TestAmerica Job ID: 500-93829-1

GC Semi VOA

Prep Batch: 281695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-93829-5	Equipment Blank	Total/NA	Water	3510C	
LCS 500-281695/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-281695/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 500-281695/1-A	Method Blank	Total/NA	Water	3510C	

Prep Batch: 281752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-93829-1	RG-40	Total/NA	Solid	3541	
500-93829-1 MS	RG-40	Total/NA	Solid	3541	
500-93829-1 MSD	RG-40	Total/NA	Solid	3541	
500-93829-2	RG-41	Total/NA	Solid	3541	
500-93829-3	RG-42	Total/NA	Solid	3541	
500-93829-4	Duplicate	Total/NA	Solid	3541	
LCS 500-281752/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-281752/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 281831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-93829-5	Equipment Blank	Total/NA	Water	8082	281695
LCS 500-281695/2-A	Lab Control Sample	Total/NA	Water	8082	281695
LCSD 500-281695/3-A	Lab Control Sample Dup	Total/NA	Water	8082	281695
MB 500-281695/1-A	Method Blank	Total/NA	Water	8082	281695

Analysis Batch: 281904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-93829-1	RG-40	Total/NA	Solid	8082	281752
500-93829-1 MS	RG-40	Total/NA	Solid	8082	281752
500-93829-1 MSD	RG-40	Total/NA	Solid	8082	281752
500-93829-2	RG-41	Total/NA	Solid	8082	281752
500-93829-3	RG-42	Total/NA	Solid	8082	281752
500-93829-4	Duplicate	Total/NA	Solid	8082	281752
LCS 500-281752/2-A	Lab Control Sample	Total/NA	Solid	8082	281752
MB 500-281752/1-A	Method Blank	Total/NA	Solid	8082	281752

General Chemistry

Analysis Batch: 281439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-93829-1	RG-40	Total/NA	Solid	Moisture	
500-93829-2	RG-41	Total/NA	Solid	Moisture	
500-93829-3	RG-42	Total/NA	Solid	Moisture	
500-93829-4	Duplicate	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Madison-Kipp Corporation
Project/Site: Rain Garden

TestAmerica Job ID: 500-93829-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (50-116)	DCB1 (48-142)
500-93829-1	RG-40	0 D	0 D
500-93829-1 MS	RG-40	0 D	0 D
500-93829-1 MSD	RG-40	0 D	0 D
500-93829-2	RG-41	68	68
500-93829-3	RG-42	102	113
500-93829-4	Duplicate	64	71
LCS 500-281752/2-A	Lab Control Sample	75	82
MB 500-281752/1-A	Method Blank	87	87

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (50-120)	DCB2 (29-126)
500-93829-5	Equipment Blank	72	69
LCS 500-281695/2-A	Lab Control Sample	78	93
LCSD 500-281695/3-A	Lab Control Sample Dup	80	95
MB 500-281695/1-A	Method Blank	86	94

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: Madison-Kipp Corporation
Project/Site: Rain Garden

TestAmerica Job ID: 500-93829-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-281695/1-A

Matrix: Water

Analysis Batch: 281831

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 281695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.067		0.40	0.067	ug/L		03/30/15 10:18	03/31/15 09:08	1
PCB-1221	<0.20		0.40	0.20	ug/L		03/30/15 10:18	03/31/15 09:08	1
PCB-1232	<0.20		0.40	0.20	ug/L		03/30/15 10:18	03/31/15 09:08	1
PCB-1242	<0.20		0.40	0.20	ug/L		03/30/15 10:18	03/31/15 09:08	1
PCB-1248	<0.20		0.40	0.20	ug/L		03/30/15 10:18	03/31/15 09:08	1
PCB-1254	<0.20		0.40	0.20	ug/L		03/30/15 10:18	03/31/15 09:08	1
PCB-1260	<0.070		0.40	0.070	ug/L		03/30/15 10:18	03/31/15 09:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		50 - 120	03/30/15 10:18	03/31/15 09:08	1
DCB Decachlorobiphenyl	94		29 - 126	03/30/15 10:18	03/31/15 09:08	1

Lab Sample ID: LCS 500-281695/2-A

Matrix: Water

Analysis Batch: 281831

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 281695

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	4.00	3.51		ug/L		88	70 - 130
PCB-1260	4.00	3.51		ug/L		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	78		50 - 120
DCB Decachlorobiphenyl	93		29 - 126

Lab Sample ID: LCSD 500-281695/3-A

Matrix: Water

Analysis Batch: 281831

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 281695

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	4.00	3.36		ug/L		84	70 - 130	4	20
PCB-1260	4.00	3.72		ug/L		93	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	80		50 - 120
DCB Decachlorobiphenyl	95		29 - 126

Lab Sample ID: MB 500-281752/1-A

Matrix: Solid

Analysis Batch: 281904

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 281752

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		03/30/15 15:43	03/31/15 15:27	1
PCB-1221	<7.3		17	7.3	ug/Kg		03/30/15 15:43	03/31/15 15:27	1
PCB-1232	<7.3		17	7.3	ug/Kg		03/30/15 15:43	03/31/15 15:27	1
PCB-1242	<5.5		17	5.5	ug/Kg		03/30/15 15:43	03/31/15 15:27	1
PCB-1248	<6.6		17	6.6	ug/Kg		03/30/15 15:43	03/31/15 15:27	1
PCB-1254	<3.6		17	3.6	ug/Kg		03/30/15 15:43	03/31/15 15:27	1

TestAmerica Chicago

QC Sample Results

Client: Madison-Kipp Corporation
Project/Site: Rain Garden

TestAmerica Job ID: 500-93829-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-281752/1-A

Matrix: Solid

Analysis Batch: 281904

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 281752

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	<8.2		17	8.2	ug/Kg		03/30/15 15:43	03/31/15 15:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	87		50 - 116				03/30/15 15:43	03/31/15 15:27	1
DCB Decachlorobiphenyl	87		48 - 142				03/30/15 15:43	03/31/15 15:27	1

Lab Sample ID: LCS 500-281752/2-A

Matrix: Solid

Analysis Batch: 281904

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 281752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	136		ug/Kg		82	59 - 110
PCB-1260	167	140		ug/Kg		84	69 - 120
Surrogate	%Recovery	Qualifier	Limits				
Tetrachloro-m-xylene	75		50 - 116				
DCB Decachlorobiphenyl	82		48 - 142				

Lab Sample ID: 500-93829-1 MS

Matrix: Solid

Analysis Batch: 281904

Client Sample ID: RG-40

Prep Type: Total/NA

Prep Batch: 281752

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	<150	F1	213	<150	F1	ug/Kg	☼	0	59 - 110
PCB-1260	<210	F1	213	<210	F1	ug/Kg	☼	0	69 - 120
Surrogate	%Recovery	Qualifier	Limits						
Tetrachloro-m-xylene	0	D	50 - 116						
DCB Decachlorobiphenyl	0	D	48 - 142						

Lab Sample ID: 500-93829-1 MSD

Matrix: Solid

Analysis Batch: 281904

Client Sample ID: RG-40

Prep Type: Total/NA

Prep Batch: 281752

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	<150	F1	219	<160	F1	ug/Kg	☼	0	59 - 110	NC	30
PCB-1260	<210	F1	219	<220		ug/Kg	☼	NC	69 - 120	NC	30
Surrogate	%Recovery	Qualifier	Limits								
Tetrachloro-m-xylene	0	D	50 - 116								
DCB Decachlorobiphenyl	0	D	48 - 142								

TestAmerica Chicago

Lab Chronicle

Client: Madison-Kipp Corporation
Project/Site: Rain Garden

TestAmerica Job ID: 500-93829-1

Client Sample ID: RG-40

Lab Sample ID: 500-93829-1

Date Collected: 03/26/15 09:45

Matrix: Solid

Date Received: 03/27/15 10:25

Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			281752	03/30/15 15:43	DEA	TAL CHI
Total/NA	Analysis	8082		20	281904	04/01/15 09:26	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	281439	03/27/15 11:54	LWN	TAL CHI

Client Sample ID: RG-41

Lab Sample ID: 500-93829-2

Date Collected: 03/26/15 10:45

Matrix: Solid

Date Received: 03/27/15 10:25

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			281752	03/30/15 15:43	DEA	TAL CHI
Total/NA	Analysis	8082		1	281904	03/31/15 16:36	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	281439	03/27/15 11:54	LWN	TAL CHI

Client Sample ID: RG-42

Lab Sample ID: 500-93829-3

Date Collected: 03/26/15 11:30

Matrix: Solid

Date Received: 03/27/15 10:25

Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			281752	03/30/15 15:43	DEA	TAL CHI
Total/NA	Analysis	8082		10	281904	04/01/15 10:07	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	281439	03/27/15 11:54	LWN	TAL CHI

Client Sample ID: Duplicate

Lab Sample ID: 500-93829-4

Date Collected: 03/26/15 00:00

Matrix: Solid

Date Received: 03/27/15 10:25

Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			281752	03/30/15 15:43	DEA	TAL CHI
Total/NA	Analysis	8082		1	281904	03/31/15 17:03	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	281439	03/27/15 11:54	LWN	TAL CHI

Client Sample ID: Equipment Blank

Lab Sample ID: 500-93829-5

Date Collected: 03/26/15 10:15

Matrix: Water

Date Received: 03/27/15 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			281695	03/30/15 10:18	SML	TAL CHI
Total/NA	Analysis	8082		1	281831	03/31/15 10:05	GMO	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Madison-Kipp Corporation
Project/Site: Rain Garden

TestAmerica Job ID: 500-93829-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-15

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TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6
Phone: 708.534.5200 Fax: 708.53



500-93829 COC

Report To (optional)
Contact: Alina Sattkoski
Company: mrc
Address: 201 Waubesa St.
Address: Madison, WI 53704
Phone: 608-242-5200
Fax:
E-Mail: asattkoski@madison-lip.com

Bill To (optional)
Contact: Alina Sattkoski
Company: mrc
Address: PO Box 8043
Address: Madison WI 53708
Phone: 608-242-5200
Fax:
PO# Reference# 103237

Chain of Custody Record

Lab Job #: 500-93829
Chain of Custody Number: _____
Page 1 of 1
Temperature °C of Cooler: 511

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		# of Containers		Matrix		Comments		
Project Location/State		Lab PM		Date		Time				
Sampler		Sample ID		Date		Time				
mrc				/						m.s. MSD
Rain Garden										
Madison, WI										
A Sattkoski		Sandie Frederick								
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix				
1	X	RG-40	3/26/15	9:45	4 S	X				
2		RG-41	3/26/15	10:45	2 S	X				
3		RG-42	3/26/15	11:30	2 S	X				
4		Duplicate	3/26/15	-	2 S	X				
5		Equipment Blank	3/26/15	10:15	1 W	X				

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Alina Sattkoski</u>	Company <u>mrc</u>	Date <u>3/26/15</u>	Time <u>16:00</u>	Received By <u>Shawn Sattkoski</u>	Company <u>TA-CH</u>	Date <u>3/27/15</u>	Time <u>10:25</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
 Shipped: FedEx
 Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge* WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments

Lab Comments:

Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-93829-1

Login Number: 93829

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

