

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-57911-1
Client Project/Site: MadisonKipp WI001283.0008.00006

For:
ARCADIS U.S., Inc.
126 North Jefferson Street
Suite 400
Milwaukee, Wisconsin 53202

Attn: Rebecca Robbennolt



Authorized for release by:
6/13/2013 12:05:51 PM

Sandie Fredrick, Project Manager I
sandie.fredrick@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57911-1

Job ID: 500-57911-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-57911-1

Comments

No additional comments.

Receipt

The samples were received on 6/12/2013 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC Semi VOA

No analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.



Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57911-1

Client Sample ID: MKC-16DD-Base

Lab Sample ID: 500-57911-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	200		17	3.8	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Equipment Blank #2

Lab Sample ID: 500-57911-2

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57911-1

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

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Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57911-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-57911-1	MKC-16DD-Base	Solid	06/11/13 14:20	06/12/13 09:50
500-57911-2	Equipment Blank #2	Water	06/11/13 14:25	06/12/13 09:50

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Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57911-1

Client Sample ID: MKC-16DD-Base

Lab Sample ID: 500-57911-1

Date Collected: 06/11/13 14:20

Matrix: Solid

Date Received: 06/12/13 09:50

Percent Solids: 91.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.2		17	6.2	ug/Kg	☼	06/12/13 18:45	06/13/13 03:06	1
PCB-1221	<7.7		17	7.7	ug/Kg	☼	06/12/13 18:45	06/13/13 03:06	1
PCB-1232	<7.6		17	7.6	ug/Kg	☼	06/12/13 18:45	06/13/13 03:06	1
PCB-1242	<5.7		17	5.7	ug/Kg	☼	06/12/13 18:45	06/13/13 03:06	1
PCB-1248	<6.9		17	6.9	ug/Kg	☼	06/12/13 18:45	06/13/13 03:06	1
PCB-1254	200		17	3.8	ug/Kg	☼	06/12/13 18:45	06/13/13 03:06	1
PCB-1260	<8.6		17	8.6	ug/Kg	☼	06/12/13 18:45	06/13/13 03:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		50 - 116	06/12/13 18:45	06/13/13 03:06	1
DCB Decachlorobiphenyl	112		48 - 142	06/12/13 18:45	06/13/13 03:06	1

Client Sample ID: Equipment Blank #2

Lab Sample ID: 500-57911-2

Date Collected: 06/11/13 14:25

Matrix: Water

Date Received: 06/12/13 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.063		0.38	0.063	ug/L		06/12/13 13:33	06/13/13 09:23	1
PCB-1221	<0.19		0.38	0.19	ug/L		06/12/13 13:33	06/13/13 09:23	1
PCB-1232	<0.19		0.38	0.19	ug/L		06/12/13 13:33	06/13/13 09:23	1
PCB-1242	<0.19		0.38	0.19	ug/L		06/12/13 13:33	06/13/13 09:23	1
PCB-1248	<0.19		0.38	0.19	ug/L		06/12/13 13:33	06/13/13 09:23	1
PCB-1254	<0.19		0.38	0.19	ug/L		06/12/13 13:33	06/13/13 09:23	1
PCB-1260	<0.066		0.38	0.066	ug/L		06/12/13 13:33	06/13/13 09:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		50 - 120	06/12/13 13:33	06/13/13 09:23	1
DCB Decachlorobiphenyl	85		29 - 126	06/12/13 13:33	06/13/13 09:23	1

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57911-1

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
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: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57911-1

GC Semi VOA

Analysis Batch: 189465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57911-1	MKC-16DD-Base	Total/NA	Solid	8082	189573
LCS 500-189573/2-A	Lab Control Sample	Total/NA	Solid	8082	189573
MB 500-189573/1-A	Method Blank	Total/NA	Solid	8082	189573

Prep Batch: 189529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57911-2	Equipment Blank #2	Total/NA	Water	3510C	
LCS 500-189529/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-189529/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 500-189529/1-A	Method Blank	Total/NA	Water	3510C	

Prep Batch: 189573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57911-1	MKC-16DD-Base	Total/NA	Solid	3541	
LCS 500-189573/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-189573/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 189604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57911-2	Equipment Blank #2	Total/NA	Water	8082	189529
LCS 500-189529/2-A	Lab Control Sample	Total/NA	Water	8082	189529
LCSD 500-189529/3-A	Lab Control Sample Dup	Total/NA	Water	8082	189529
MB 500-189529/1-A	Method Blank	Total/NA	Water	8082	189529

General Chemistry

Analysis Batch: 189504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57911-1	MKC-16DD-Base	Total/NA	Solid	Moisture	

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57911-1

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)
500-57911-1	MKC-16DD-Base	64	112
LCS 500-189573/2-A	Lab Control Sample	83	107
MB 500-189573/1-A	Method Blank	88	111

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)
500-57911-2	Equipment Blank #2	86	85
LCS 500-189529/2-A	Lab Control Sample	89	85
LCSD 500-189529/3-A	Lab Control Sample Dup	78	77
MB 500-189529/1-A	Method Blank	84	86

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57911-1

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

Lab Sample ID: MB 500-189529/1-A

Matrix: Water

Analysis Batch: 189604

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 189529

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.067		0.40	0.067	ug/L		06/12/13 13:33	06/13/13 08:40	1
PCB-1221	<0.20		0.40	0.20	ug/L		06/12/13 13:33	06/13/13 08:40	1
PCB-1232	<0.20		0.40	0.20	ug/L		06/12/13 13:33	06/13/13 08:40	1
PCB-1242	<0.20		0.40	0.20	ug/L		06/12/13 13:33	06/13/13 08:40	1
PCB-1248	<0.20		0.40	0.20	ug/L		06/12/13 13:33	06/13/13 08:40	1
PCB-1254	<0.20		0.40	0.20	ug/L		06/12/13 13:33	06/13/13 08:40	1
PCB-1260	<0.070		0.40	0.070	ug/L		06/12/13 13:33	06/13/13 08:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		50 - 120	06/12/13 13:33	06/13/13 08:40	1
DCB Decachlorobiphenyl	86		29 - 126	06/12/13 13:33	06/13/13 08:40	1

Lab Sample ID: LCS 500-189529/2-A

Matrix: Water

Analysis Batch: 189604

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 189529

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	4.02	4.38		ug/L		109	64 - 110
PCB-1260	4.02	4.15		ug/L		103	51 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	89		50 - 120
DCB Decachlorobiphenyl	85		29 - 126

Lab Sample ID: LCSD 500-189529/3-A

Matrix: Water

Analysis Batch: 189604

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 189529

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	4.02	3.95		ug/L		98	64 - 110	10	20
PCB-1260	4.02	3.69		ug/L		92	51 - 110	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	78		50 - 120
DCB Decachlorobiphenyl	77		29 - 126

Lab Sample ID: MB 500-189573/1-A

Matrix: Solid

Analysis Batch: 189465

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 189573

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		06/12/13 18:45	06/13/13 01:57	1
PCB-1221	<7.3		17	7.3	ug/Kg		06/12/13 18:45	06/13/13 01:57	1
PCB-1232	<7.3		17	7.3	ug/Kg		06/12/13 18:45	06/13/13 01:57	1
PCB-1242	<5.5		17	5.5	ug/Kg		06/12/13 18:45	06/13/13 01:57	1
PCB-1248	<6.6		17	6.6	ug/Kg		06/12/13 18:45	06/13/13 01:57	1
PCB-1254	<3.6		17	3.6	ug/Kg		06/12/13 18:45	06/13/13 01:57	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57911-1

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

Lab Sample ID: MB 500-189573/1-A

Matrix: Solid

Analysis Batch: 189465

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 189573

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	<8.2		17	8.2	ug/Kg		06/12/13 18:45	06/13/13 01:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		50 - 116	06/12/13 18:45	06/13/13 01:57	1
DCB Decachlorobiphenyl	111		48 - 142	06/12/13 18:45	06/13/13 01:57	1

Lab Sample ID: LCS 500-189573/2-A

Matrix: Solid

Analysis Batch: 189465

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 189573

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	163		ug/Kg		97	59 - 110
PCB-1260	167	182		ug/Kg		109	69 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	83		50 - 116
DCB Decachlorobiphenyl	107		48 - 142

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57911-1

Client Sample ID: MKC-16DD-Base

Date Collected: 06/11/13 14:20

Date Received: 06/12/13 09:50

Lab Sample ID: 500-57911-1

Matrix: Solid

Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			189573	06/12/13 18:45	DEA	TAL CHI
Total/NA	Analysis	8082		1	189465	06/13/13 03:06	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	189504	06/12/13 10:57	CMV	TAL CHI

Client Sample ID: Equipment Blank #2

Date Collected: 06/11/13 14:25

Date Received: 06/12/13 09:50

Lab Sample ID: 500-57911-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			189529	06/12/13 13:33	SCH	TAL CHI
Total/NA	Analysis	8082		1	189604	06/13/13 09:23	GMO	TAL CHI

Laboratory References:

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

Certification Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57911-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	06-30-13 *
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14
Georgia	State Program	4	939	04-30-14
Hawaii	State Program	9	N/A	04-30-14
Illinois	NELAP	5	100201	04-30-14
Indiana	State Program	5	C-IL-02	04-30-14
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-30-14
Louisiana	NELAP	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-14
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-14
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	06-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAP	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	07-15-13

* Expired certification is currently pending renewal and is considered valid.



ID#: _____

**CHAIN OF CUSTODY & LABORATORY
ANALYSIS REQUEST FORM**

Lab Work Order #:
500-57911

Send Results to:	Contact & Company Name: ARCADIS Rebecca Robbehoff	Telephone: 414-276-7742	Preservative: E	Filtered (✓):					
	Address: 26 N Jefferson St #400	Fax:	# of Containers: 1	Container Information: 7 9					
	City State Zip: Milwaukee WI 53202	E-mail Address: rebecca.robbehoff@arcadis-us.com	PARAMETER ANALYSIS & METHOD						
	Project Name/Location (City, State): Madison Kipp (Madison, WI)	Project #: WI001283-0008-00006	PCB (soil) PCB (water)						
Sampler's Printed Name: Vivian Yaks	Sampler's Signature: <i>[Signature]</i>								
Sample ID	Collection Date Time	Type (✓) Comp Grab							Matrix
1 2 MFC-16 AD-BASE Equipment Blank #2	6/11/13 1420 6/11/13 1425	✓ ✓							SO W

Keys

Preservation Key:
A. H₂SO₄
B. HCl
C. HNO₃
D. NaOH
E. None
F. Other: _____
G. Other: _____
H. Other: _____

Container Information Key:
1. 40 ml Vial
2. 1 L Amber
3. 250 ml Plastic
4. 500 ml Plastic
5. Encore
6. 2 oz. Glass
7. 4 oz. Glass
8. 8 oz. Glass
9. Other: **250 ml Amber**
10. Other: _____

Matrix Key:
SO - Soil SE - Sediment NL - NAPL/Oil
W - Water SL - Sludge SW - Sample Wipe
T - Tissue A - Air Other: _____

REMARKS



Special Instructions/Comments: **Pls contact R. Robbehoff with questions 414-276-7742** Special QA/QC Instructions(✓):

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name: Test Amencle	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: Vivian Yaks	Printed Name:	Printed Name:	Printed Name: Sherri Scott
<input checked="" type="checkbox"/> Cooler packed with ice (✓)	Sample Receipt: Condition/Cooler Temp: 3.1	Signature: <i>[Signature]</i>	Signature:	Signature:	Signature: <i>[Signature]</i>
Specify Turnaround Requirements: 2 day	Firm: ARCADIS	Firm/Courier:	Firm/Courier:	Firm/Courier:	Firm: TA-CHI
Shipping Tracking #: 824 683 660 210	Date/Time: 6/11/13 1600	Date/Time:	Date/Time:	Date/Time:	Date/Time: 6/12/13 0950

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-57911-1

Login Number: 57911

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	3.1
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	

