



2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

January 21, 2016

Chris Kubacki
ARCADIS
126 N Jefferson St., Ste 400
Milwaukee, WI 53202
RE: Madison Kipp - Madison, WI

Enclosed are the analytical results for the samples received by the laboratory on 01/20/2016.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica Esser
Project Manager

Certification List

Certification List			Expires
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2016
FDOH	Florida Secondary NELAP Accreditation	E871093	06/30/2016
ILEPA	Illinois Secondary NELAP Accreditation	003174	04/30/2016
KDHE	Kansas Secondary NELAP Accreditation	E-10384	01/31/2016
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2016
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2016
ODEQ	Oklahoma Department of Environmental Quality Accreditation	2014-153	08/31/2016
TCEQ	Texas Secondary NELAP Accreditation	T104704504-15-6	11/30/2016
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2016



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ARCADIS
126 N Jefferson St., Ste 400
Milwaukee WI, 53202

Project: Madison Kipp - Madison, WI
Project Number: WI001368.0034
Project Manager: Chris Kubacki

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BP-SIDE-41	A160405-01	Soil	01/20/2016	01/20/2016
BP-BOT-42	A160405-02	Soil	01/20/2016	01/20/2016
BP-SIDE-43	A160405-03	Soil	01/20/2016	01/20/2016
BP-SIDE-44	A160405-04	Soil	01/20/2016	01/20/2016

CASE NARRATIVE

Sample Receipt Information:

4 samples were received on 01/20/2016 at 13:30. A replacement for sample A160405-04 was received at 15:30. The original volume was returned to the client. Samples were received on ice. Samples were received in acceptable condition.

Please see the chain of custody (COC) document at the end of this report for additional information.



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ARCADIS 126 N Jefferson St., Ste 400 Milwaukee WI, 53202	Project: Madison Kipp - Madison, WI Project Number: WI001368.0034 Project Manager: Chris Kubacki
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BP-SIDE-41
A160405-01 (Soil) Date Sampled
01/20/2016 12:40

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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ECCS

Polychlorinated Biphenyls by EPA Method 8082				Preparation Batch: A601046					
PCB-1016	ND	0.0092	0.12	mg/kg dry	1	01/20/2016	01/20/2016 16:08	EPA 8082A	
PCB-1221	ND	0.0051	0.12	mg/kg dry	1	01/20/2016	01/20/2016 16:08	EPA 8082A	
PCB-1232	ND	0.0035	0.12	mg/kg dry	1	01/20/2016	01/20/2016 16:08	EPA 8082A	
PCB-1242	ND	0.0055	0.12	mg/kg dry	1	01/20/2016	01/20/2016 16:08	EPA 8082A	
PCB-1248	0.28	0.0066	0.12	mg/kg dry	1	01/20/2016	01/20/2016 16:08	EPA 8082A	
PCB-1254	1.2	0.0055	0.12	mg/kg dry	1	01/20/2016	01/20/2016 16:08	EPA 8082A	
PCB-1260	ND	0.0030	0.12	mg/kg dry	1	01/20/2016	01/20/2016 16:08	EPA 8082A	
Total PCBs	1.4	0.0092	0.12	mg/kg dry	1	01/20/2016	01/20/2016 16:08	EPA 8082A	

<i>Surrogate: Decachlorobiphenyl</i>	89.8 %	66.3-138	01/20/2016	01/20/2016 16:08	EPA 8082A
<i>Surrogate: Tetrachloro-meta-xylene</i>	90.5 %	61.6-142	01/20/2016	01/20/2016 16:08	EPA 8082A

Classical Chemistry Parameters				Preparation Batch: A601048					
% Solids	80.1	0.00	% by Weight	1	01/20/2016	01/20/2016 17:35	SM 2540B		



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BP-BOT-42
A160405-02 (Soil)

Date Sampled
 01/20/2016 12:45

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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ECCS

Polychlorinated Biphenyls by EPA Method 8082

Preparation Batch: A601046

PCB-1016	ND	0.0096	0.13	mg/kg dry	1	01/20/2016	01/20/2016 16:33	EPA 8082A	
PCB-1221	ND	0.0053	0.13	mg/kg dry	1	01/20/2016	01/20/2016 16:33	EPA 8082A	
PCB-1232	ND	0.0036	0.13	mg/kg dry	1	01/20/2016	01/20/2016 16:33	EPA 8082A	
PCB-1242	ND	0.0057	0.13	mg/kg dry	1	01/20/2016	01/20/2016 16:33	EPA 8082A	
PCB-1248	ND	0.0069	0.13	mg/kg dry	1	01/20/2016	01/20/2016 16:33	EPA 8082A	
PCB-1254	0.066	0.0057	0.13	mg/kg dry	1	01/20/2016	01/20/2016 16:33	EPA 8082A	J
PCB-1260	ND	0.0031	0.13	mg/kg dry	1	01/20/2016	01/20/2016 16:33	EPA 8082A	
Total PCBs	0.066	0.0096	0.13	mg/kg dry	1	01/20/2016	01/20/2016 16:33	EPA 8082A	J

Surrogate: Decachlorobiphenyl

90.5 % 66.3-138

01/20/2016

01/20/2016 16:33

EPA 8082A

Surrogate: Tetrachloro-meta-xylene

94.3 % 61.6-142

01/20/2016

01/20/2016 16:33

EPA 8082A

Classical Chemistry Parameters

Preparation Batch: A601048

% Solids	77.0	0.00	% by Weight	1	01/20/2016	01/20/2016 17:35	SM 2540B		
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BP-SIDE-43
A160405-03 (Soil)

Date Sampled
 01/20/2016 12:50

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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ECCS

Polychlorinated Biphenyls by EPA Method 8082

Preparation Batch: A601046

PCB-1016	ND	0.0095	0.13	mg/kg dry	1	01/20/2016	01/20/2016 16:57	EPA 8082A	
PCB-1221	ND	0.0053	0.13	mg/kg dry	1	01/20/2016	01/20/2016 16:57	EPA 8082A	
PCB-1232	ND	0.0036	0.13	mg/kg dry	1	01/20/2016	01/20/2016 16:57	EPA 8082A	
PCB-1242	ND	0.0057	0.13	mg/kg dry	1	01/20/2016	01/20/2016 16:57	EPA 8082A	
PCB-1248	1.2	0.0068	0.13	mg/kg dry	1	01/20/2016	01/20/2016 16:57	EPA 8082A	
PCB-1254	1.9	0.0057	0.13	mg/kg dry	1	01/20/2016	01/20/2016 16:57	EPA 8082A	
PCB-1260	ND	0.0031	0.13	mg/kg dry	1	01/20/2016	01/20/2016 16:57	EPA 8082A	
Total PCBs	3.1	0.0095	0.13	mg/kg dry	1	01/20/2016	01/20/2016 16:57	EPA 8082A	
Surrogate: Decachlorobiphenyl			84.6 %	66.3-138		01/20/2016	01/20/2016 16:57	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			90.8 %	61.6-142		01/20/2016	01/20/2016 16:57	EPA 8082A	

Classical Chemistry Parameters

Preparation Batch: A601048

% Solids	77.8		0.00	% by Weight	1	01/20/2016	01/20/2016 17:35	SM 2540B	
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Project: Madison Kipp - Madison, WI
 Project Number: WI001368.0034
 Project Manager: Chris Kubacki

BP-SIDE-44
A160405-04 (Soil)

Date Sampled
01/20/2016 15:00

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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ECCS

Polychlorinated Biphenyls by EPA Method 8082

Preparation Batch: A601046

PCB-1016	ND	0.0096	0.13	mg/kg dry	1	01/20/2016	01/20/2016 17:22	EPA 8082A	
PCB-1221	ND	0.0053	0.13	mg/kg dry	1	01/20/2016	01/20/2016 17:22	EPA 8082A	
PCB-1232	ND	0.0036	0.13	mg/kg dry	1	01/20/2016	01/20/2016 17:22	EPA 8082A	
PCB-1242	ND	0.0057	0.13	mg/kg dry	1	01/20/2016	01/20/2016 17:22	EPA 8082A	
PCB-1248	12	0.028	0.52	mg/kg dry	4	01/20/2016	01/20/2016 17:48	EPA 8082A	D
PCB-1254	10	0.0057	0.13	mg/kg dry	1	01/20/2016	01/20/2016 17:22	EPA 8082A	
PCB-1260	ND	0.0031	0.13	mg/kg dry	1	01/20/2016	01/20/2016 17:22	EPA 8082A	
Total PCBs	22	0.0096	0.13	mg/kg dry	1	01/20/2016	01/20/2016 17:48	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl</i>			98.0 %	66.3-138		01/20/2016	01/20/2016 17:22	EPA 8082A	
<i>Surrogate: Tetrachloro-meta-xylene</i>			106 %	61.6-142		01/20/2016	01/20/2016 17:22	EPA 8082A	

Classical Chemistry Parameters

Preparation Batch: A601048

% Solids	76.8		0.00	% by Weight	1	01/20/2016	01/20/2016 17:35	SM 2540B	
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Polychlorinated Biphenyls by EPA Method 8082 - Quality Control
ECCS

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A601046 - EPA 3570

Blank (A601046-BLK1) Prepared: 01/20/2016 Analyzed: 01/20/2016 12:34

PCB-1016	ND	0.10	mg/kg wet							
PCB-1221	ND	0.10	mg/kg wet							
PCB-1232	ND	0.10	mg/kg wet							
PCB-1242	ND	0.10	mg/kg wet							
PCB-1248	ND	0.10	mg/kg wet							
PCB-1254	ND	0.10	mg/kg wet							
PCB-1260	ND	0.10	mg/kg wet							
Total PCBs	ND	0.10	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.196		mg/kg wet	0.2400		81.5	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.197		mg/kg wet	0.2400		81.9	61.6-142			

LCS (A601046-BS1) Prepared: 01/20/2016 Analyzed: 01/20/2016 12:59

PCB-1248	1.70	0.10	mg/kg wet	2.000		85.2	76.4-115			
Surrogate: Decachlorobiphenyl	0.200		mg/kg wet	0.2400		83.3	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.201		mg/kg wet	0.2400		83.6	61.6-142			

Matrix Spike (A601046-MS1) Source: A160405-01 Prepared: 01/20/2016 Analyzed: 01/20/2016 18:12

PCB-1248	2.89	0.12	mg/kg dry	2.498	0.280	104	74.7-117			
Surrogate: Decachlorobiphenyl	0.292		mg/kg dry	0.2998		97.3	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.313		mg/kg dry	0.2998		104	61.6-142			

Matrix Spike Dup (A601046-MSD1) Source: A160405-01 Prepared: 01/20/2016 Analyzed: 01/20/2016 18:37

PCB-1248	2.67	0.12	mg/kg dry	2.498	0.280	95.6	74.7-117	8.83	20	
Surrogate: Decachlorobiphenyl	0.251		mg/kg dry	0.2998		83.7	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.266		mg/kg dry	0.2998		88.9	61.6-142			



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Classical Chemistry Parameters - Quality Control

ECCS

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A601048 - % Solids

Duplicate (A601048-DUP1)	Source: A160405-01	Prepared: 01/20/2016		Analyzed: 01/20/2016 17:35		
% Solids	80.3	0.00	% by Weight	80.1	0.288	20



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Project Number: WI001368.0034
Project Manager: Chris Kubacki

Notes and Definitions

- J Analyte was detected but is below the reporting limit. The concentration is estimated.
- D Data reported from a dilution
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
- RPD Relative Percent Difference

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: Alina Sattoski
 Company: mcc
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: asattoski@macisom-kip.com

Bill To (optional)
 Contact: Alina Sattoski
 Company: mcc
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO# / Reference# _____

Chain of Custody Record

Lab Job #: A160405

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Sample ID		Sampling		Containers		Matrix		Sample #		Comments		
Lab ID	MS/MSD	Sample ID	Date	Time	# of	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	
mcc				7																
Project Name		BIKE PATH EXCAVATION																		
Project Location/State		MADISON, WI																		
Sampler		A Sattoski																		
		BP-SIDE-41		1/20/16	1240	1	S	X											01	
		BP-BOT-42		1/20/16	1245	1	S	X											02	
		BP-SIDE-43		1/20/16	1250	1	S	X											03	
		BP-SIDE-44		1/20/16	1300	1	S	X											04	

- 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

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

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	Company	Date	Time	Received By	Company	Date	Time
<u>Alina Sattoski</u>	<u>mcc</u>	<u>1/20/16</u>	<u>13:30</u>	<u>[Signature]</u>	<u>face</u>	<u>01-20-16</u>	<u>1330</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
 Shipped: _____
 Hand Delivered: _____

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

Client Comments: same day results if possible

Lab Comments: Rec on ice