



2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

January 27, 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 01/22/2016.

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-49 (1)	A160411-01	Soil	01/22/2016	01/22/2016
BP-SIDE-50 (1)	A160411-02	Soil	01/22/2016	01/22/2016

CASE NARRATIVE

Sample Receipt Information:

2 samples were received on 01/22/2016. 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-49 (1)

Date Sampled

A160411-01 (Soil)

01/22/2016 11:30

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: A601063

PCB-1016	ND	0.0078	0.10	mg/kg dry	1	01/25/2016	01/25/2016 14:11	EPA 8082A	
PCB-1221	ND	0.0043	0.10	mg/kg dry	1	01/25/2016	01/25/2016 14:11	EPA 8082A	
PCB-1232	ND	0.0029	0.10	mg/kg dry	1	01/25/2016	01/25/2016 14:11	EPA 8082A	
PCB-1242	ND	0.0046	0.10	mg/kg dry	1	01/25/2016	01/25/2016 14:11	EPA 8082A	
PCB-1248	ND	0.0056	0.10	mg/kg dry	1	01/25/2016	01/25/2016 14:11	EPA 8082A	
PCB-1254	0.15	0.0046	0.10	mg/kg dry	1	01/25/2016	01/25/2016 14:11	EPA 8082A	
PCB-1260	ND	0.0025	0.10	mg/kg dry	1	01/25/2016	01/25/2016 14:11	EPA 8082A	
Total PCBs	0.15	0.0078	0.10	mg/kg dry	1	01/25/2016	01/25/2016 14:11	EPA 8082A	

Surrogate: Decachlorobiphenyl 86.2 % 66.3-138 01/25/2016 01/25/2016 14:11 EPA 8082A

Surrogate: Tetrachloro-meta-xylene 100 % 61.6-142 01/25/2016 01/25/2016 14:11 EPA 8082A

Classical Chemistry Parameters

Preparation Batch: A601064

% Solids	95.3		0.00	% by Weight	1	01/25/2016	01/26/2016 09:16	SM 2540B	
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BP-SIDE-50 (1)
A160411-02 (Soil)

Date Sampled
 01/22/2016 11:40

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: A601063

PCB-1016	ND	0.0078	0.11	mg/kg dry	1	01/25/2016	01/25/2016 14:36	EPA 8082A	
PCB-1221	ND	0.0043	0.11	mg/kg dry	1	01/25/2016	01/25/2016 14:36	EPA 8082A	
PCB-1232	ND	0.0030	0.11	mg/kg dry	1	01/25/2016	01/25/2016 14:36	EPA 8082A	
PCB-1242	ND	0.0047	0.11	mg/kg dry	1	01/25/2016	01/25/2016 14:36	EPA 8082A	
PCB-1248	ND	0.0056	0.11	mg/kg dry	1	01/25/2016	01/25/2016 14:36	EPA 8082A	
PCB-1254	0.46	0.0047	0.11	mg/kg dry	1	01/25/2016	01/25/2016 14:36	EPA 8082A	
PCB-1260	ND	0.0025	0.11	mg/kg dry	1	01/25/2016	01/25/2016 14:36	EPA 8082A	
Total PCBs	0.46	0.0078	0.11	mg/kg dry	1	01/25/2016	01/25/2016 14:36	EPA 8082A	
Surrogate: Decachlorobiphenyl			81.8 %	66.3-138		01/25/2016	01/25/2016 14:36	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			86.8 %	61.6-142		01/25/2016	01/25/2016 14:36	EPA 8082A	

Classical Chemistry Parameters

Preparation Batch: A601064

% Solids	94.4		0.00	% by Weight	1	01/25/2016	01/26/2016 09:16	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 A601063 - EPA 3570

Blank (A601063-BLK1) Prepared: 01/25/2016 Analyzed: 01/25/2016 12:07

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	0.203		mg/kg wet	0.2400		84.4	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.214		mg/kg wet	0.2400		89.2	61.6-142			

LCS (A601063-BS1) Prepared: 01/25/2016 Analyzed: 01/25/2016 12:31

PCB-1254	1.80	0.10	mg/kg wet	2.000		90.1	74-128			
Surrogate: Decachlorobiphenyl	0.200		mg/kg wet	0.2400		83.5	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.208		mg/kg wet	0.2400		86.6	61.6-142			

Matrix Spike (A601063-MS1) Source: A160411-02 Prepared: 01/25/2016 Analyzed: 01/25/2016 15:00

PCB-1254	2.55	0.11	mg/kg dry	2.119	0.464	98.6	50.3-155			
Surrogate: Decachlorobiphenyl	0.209		mg/kg dry	0.2542		82.1	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.249		mg/kg dry	0.2542		97.9	61.6-142			

Matrix Spike Dup (A601063-MSD1) Source: A160411-02 Prepared: 01/25/2016 Analyzed: 01/25/2016 15:25

PCB-1254	2.44	0.11	mg/kg dry	2.119	0.464	93.2	50.3-155	5.64	20	
Surrogate: Decachlorobiphenyl	0.220		mg/kg dry	0.2542		86.6	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.233		mg/kg dry	0.2542		91.5	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 A601064 - % Solids

Duplicate (A601064-DUP1)	Source: A160411-01	Prepared: 01/25/2016	Analyzed: 01/26/2016 09:16		
% Solids	95.1	0.00 % by Weight	95.3	0.165	20



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Notes and Definitions

- 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 Satkoski
 Company: mkc
 Address: 201 Waukesha St.
 Address: MADISON WI 53704
 Phone: 518 205 7183
 Fax:
 E-Mail: asatkoski@madison-ki.com

Bill To (optional)
 Contact: Alina Satkoski
 Company: mkc
 Address: PO Box 8043
 Address: MADISON WI 53708
 Phone: 608 242 5200
 Fax:
 PO#/Reference# 108371

Chain of Custody Record

Lab Job #: A160411

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter														Preservative Key			
<u>mkc</u>				<u>7</u>																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				Project Location/State				Sample															
<u>Bike Path Excavation</u>				<u>MADISON, WI</u>				<u>Alina Satkoski</u>				<u>Jessica Esser</u>											
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix													Comments				
			Date	Time																			
		<u>BP-SIDE-49 (1)</u>	<u>1/22/16</u>	<u>1130</u>	<u>1</u>	<u>S</u>	<u>X</u>													<u>01</u>			
		<u>BP-SIDE-50 (1)</u>	<u>1/22/16</u>	<u>1140</u>	<u>1</u>	<u>S</u>	<u>X</u>													<u>02</u>			

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 Satkoski</u> Company: <u>mkc</u> Date: <u>1/22/16</u> Time: <u>1430</u>	Received By <u>Kari Ann Kelly</u> Company: <u>PAGE</u> Date: <u>1/22/16</u> Time: <u>1430</u>
Relinquished By Company: _____ Date: _____ Time: _____	Received By Company: _____ Date: _____ Time: _____
Relinquished By Company: _____ Date: _____ Time: _____	Received By Company: _____ Date: _____ Time: _____

Lab Courier: Picked up

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

Lab Comments:
on ice