

July 30, 2019

Mr. Michael Schmoller
Hydrogeologist
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711

Subject: Interior Manufacturing Floor Modifications
Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin
Facility ID No. 113125320, BRRTS No. 02-13-578014

Dear Mr. Schmoller:

On March 27, 2019, TRC notified you of Madison-Kipp Corporation's (MKC) plan to complete concrete improvement work at their 201 Waubesa Street Facility (Site) as seen in Figure 1. The concrete floor area of approximately 9-feet by 54-feet was planned to be removed and replaced, and ultimately was completed between April 29 and 30, 2019. Figure 2 shows the approximate area where the improvement work was completed.

On March 28, 2019, prior to the removal, TRC collected six composite samples in accordance with 40 CFR 761. Based on the overall length and width of the improvement area, TRC laid out a grid system as shown on Figure 2 and Attachment 1. The grid broke down the improvement area into six sub-areas. Five of the sub-areas were approximately 10-feet by 9-feet (sub-area A through E) and one sub-area was 4-feet by 9-feet (sub-area F). Nine holes were cored in sub-areas A through E and the concrete cuttings within each sub-area were composited and sampled. Six holes were cored for sub-area F and composited for sampling based on its smaller foot print in comparisons to the other sub-areas. Each sample was laboratory analyzed for PCBs using EPA Method 8082 and TCLP metals using EPA Method 6010 and 7470, as previously completed at the facility.

The analytical results (Attachment 2) showed a range of total PCB detections from 0.779 mg/kg to 14.900 mg/kg, arsenic detections from 0.050 mg/L to 0.071 mg/L (both J-flagged results¹), barium detections from 0.19 mg/L to 0.28 mg/L, one lead detection of 0.031 mg/L (J-flagged result), and one selenium detection of 0.14 mg/L (J-flagged result). Between April 29 and 30, 2019, MKC's contractor removed the concrete and placed it in a covered roll-off container for off-site disposal by Covanta Environmental Solutions (Covanta). Covanta later requested the material be placed in two covered roll-off containers due to the total weight. MKC's contractor then placed new concrete in the area of the removal.

Upon review of the analytical results, in correspondence on May 8 and 9, 2019, the U.S. EPA requested that additional composite samples of the concrete be collected for verification of the maximum PCB concentration present. As noted, the material was now stored in two covered roll-off containers. On May 10, 2019, TRC completed the additional verification sampling. The first roll-off container was divided into eight sections and a piece of concrete was selected from each section and cored for sample collection. The cuttings from each of the eight sub-sections were composited for laboratory analysis of PCBs (Sample ID: RO-1C). Only two-thirds of the second roll-off container was filled with concrete so the container was divided into six sub-sections and coring/composite sampling

¹ J-flagged indicates that the reported concentration was less than the laboratory reporting limit but greater than or equal to the laboratory method detection limit and the concentration is an approximate value.

Mr. Michael Schmoller
Wisconsin Department of Natural Resources
July 30, 2019
Page 2

was completed (Sample ID: RO-2C) by compositing concrete cuttings from each of the six sub-sections. Each sample was laboratory analyzed for PCBs using EPA Method 8082.

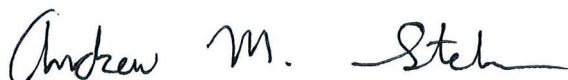
The May 10 samples RO-1C and RO2C had total PCB detections of 0.714 mg/kg and 3.120 mg/kg. Analytical results are included in Attachment 2 for the subsequent sampling. MKC then coordinated the disposal of the concrete with Covanta (Attachment 3).

Consistent with the Cap Maintenance Plan in place at the site, future manufacturing modifications/ maintenance requiring concrete repair/replacement within the MKC facility, will be handled with agency notification, composite sampling for waste characterization, analytical data review, and off-site disposal at a licensed facility.

If you have any questions or comments, please feel free to contact Andrew Stehn (608-826-3665) or Katherine Vater (608-826-3663).

Sincerely,

TRC



Andrew Stehn, P.E.
Senior Project Engineer

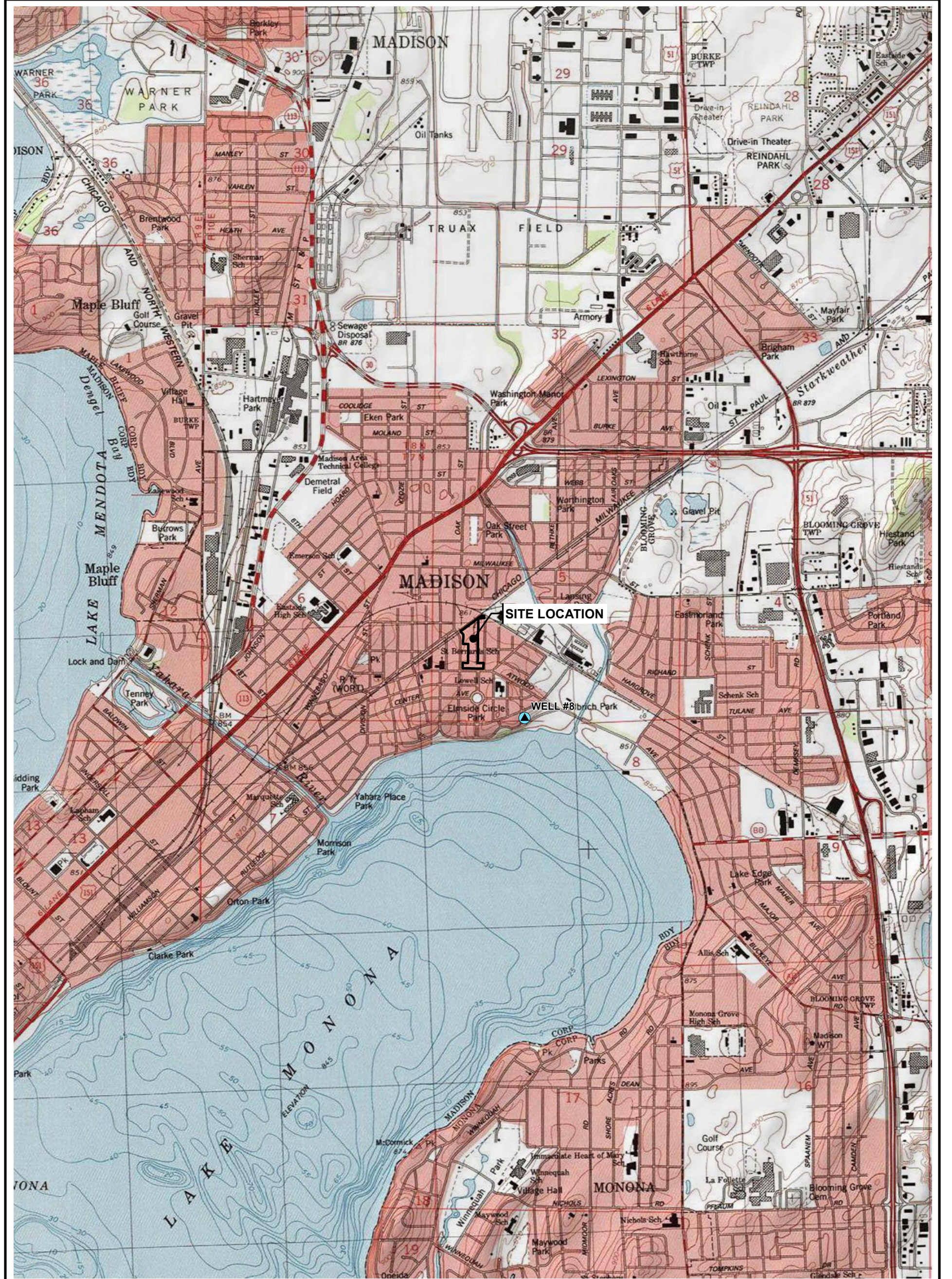


Katherine Vater, P.E.
Project Manager

Attachments: Figure 1 – Site Location Map
Figure 2 – Improvement Area at Site
Attachment 1 – Sampling Layout
Attachment 2 – Laboratory Reports
Attachment 3 – Disposal Records

cc: Tony Koblinski and Mark Sheppard, Madison-Kipp Corporation (electronic)
Peter Ramanauskas and Michael Beedle, U.S. EPA (electronic)

Figures



LEGEND

- SITE PROPERTY BOUNDARY
- ▲ MUNICIPAL SUPPLY WELL

BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES, "USA TOPO MAPS" WEB BASEMAP SERVICE LAYER.

0 2,000 4,000
 FEET

1" = 2,000'
 1:24,000

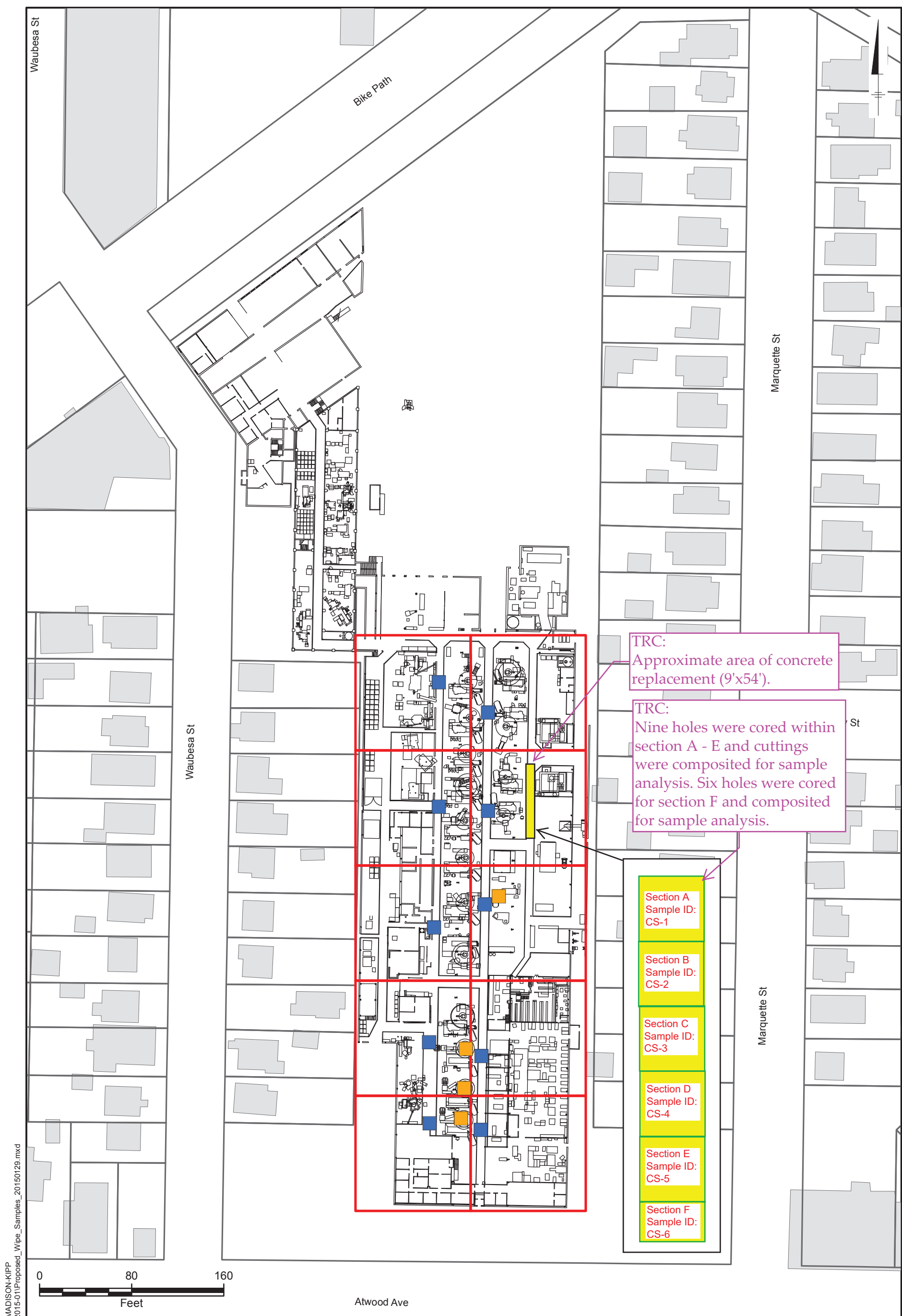
708 Heartland Trail
 Suite 3000
 Madison, WI 53717
 Phone: 608.826.3600

PROJECT: **MADISON-KIPP CORPORATION**
 201 WAUBESA STREET
 MADISON, WISCONSIN

TITLE: **SITE LOCATION MAP**

DRAWN BY:	A. ADAIR
CHECKED BY:	S. SELLWOOD
APPROVED BY:	K. VATER
DATE:	MARCH 2019
PROJ. NO.:	323372
FILE:	266431-2018S2-014.mxd

FIGURE 1









TRC:
Approximate area of concrete replacement (9'x54').

TRC:
Nine holes were cored within section A - E and cuttings were composited for sample analysis. Six holes were cored for section F and composited for sample analysis.

- Section A
Sample ID:
CS-1
- Section B
Sample ID:
CS-2
- Section C
Sample ID:
CS-3
- Section D
Sample ID:
CS-4
- Section E
Sample ID:
CS-5
- Section F
Sample ID:
CS-6

CITY: MKE DIV/GRUP: IM, DB, GM, LD: CK MADISON-KIPP
Z:\GIS\PROJECTS\ENV\MadisonKipp\Map\2015-01\Proposed_Wipe_Samples_20150129.mxd

LEGEND

 MACHINE WIPE SAMPLE (LOCATION OF HORIZONTAL SURFACE SAMPLE AND VERTICAL SURFACE SAMPLE)	 GRID WIPE SAMPLE (LOCATION OF WALL, COLUMN, AND FLOOR SAMPLE)	 PLANT LAYOUT	 BUILDING FOOTPRINTS
		 PARCELS	
		 100' GRID	

ACTUAL LOCATIONS OF WIPE SAMPLES WILL BE DETERMINED IN THE FIELD BASED ON VISUAL OBSERVATIONS

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

QUALITY ASSURANCE PROJECT PLAN

PROPOSED WIPE SAMPLING LOCATIONS


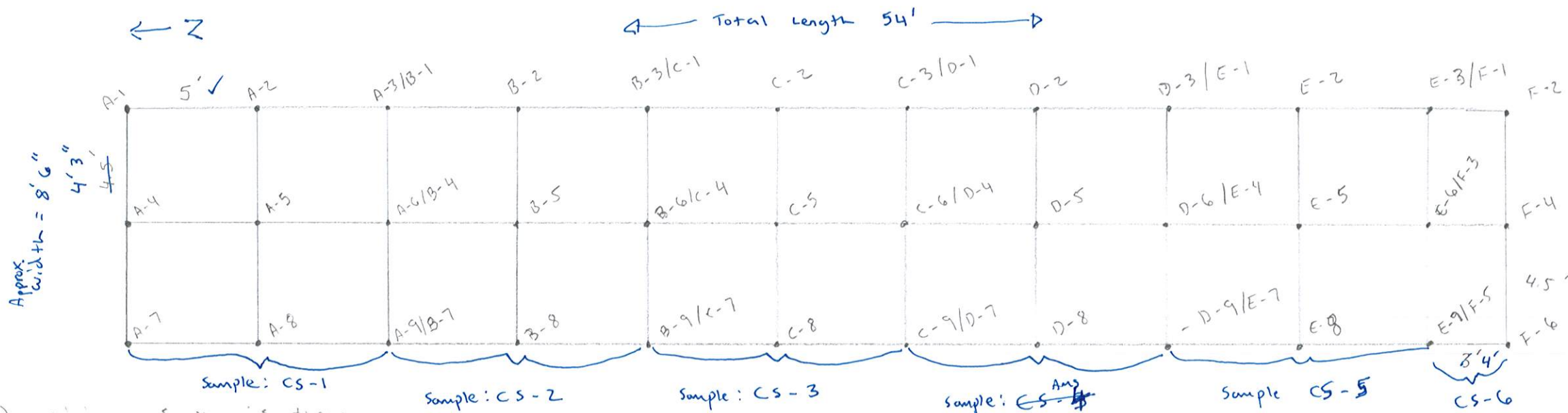
 **ARCADIS**

FIGURE 4-1
Figure 2

Figure 4-1 was modified by TRC for concrete sample documentation purposes (July 2019).

Attachment 1
Sampling Layout

PROJECT/PROPOSAL/LOCATION NAME: Madison Kipp Factory Corridor Work / Madison, WI		PROJECT/PROPOSAL NUMBER:
SUBJECT: SAMPLING GRID		
PREPARED BY: A. STEHN	DATE: 3/22/19	FINAL <input type="checkbox"/>
CHECKED BY: K. Vater	DATE: 4/2/2019	REVISION <input type="checkbox"/>



- 761.283 (a) minimum sample is three
- 761.283 (b) Lay out a grid over area of concern to determine number of samples
- 761.283 (b)(ii)(2) Grid spacing 1.5m or approx 5ft
- 761.283 (b)(ii)(3) Collect sample at each point on grid or based on compositing scheme provided in 761.289
- 761.289 (b)(1)(c) Max dimension of the area enclosing nine grid point composite is 2 grid intervals bound by three collinear grid points (3m or approx 10ft)

- + Collect 6 composite samples A-F
- + Drill 51 holes to collect material
- + Required Mtl. one 4oz amber
- + Analyze PCBs / TCLP metals
- + Wet down the concrete during removal, dust control
- + Send Mike email about the work.

- * TRC installed 51 holes between 3" and 4" into the concrete. concrete cuttings were containerized in a stain-less steel bowl and composited for each lettered grid area. (Example samples A-1 - A-9 were composited and sampled).
- * A plastic shroud and respirators were used for dust control and to protect workers.
- * Extra cuttlys were containerized for future disposal. Bucket is labeled and stored at MMC.
- * The drill bit used (1" diameter) and plastic shroud was cleaned between sample locations (Example between section A to B and so on).
- * Drill bit cleaned by hexane wash after initial decan between sample locations.

Attachment 2
Laboratory Reports

April 17, 2019

Andrew Stehn
TRC Madison
708 Heartland Trail
Madison, WI 53717

RE: Project: A191317 MADISON KIPP CORPORATI
Pace Project No.: 40185581

Dear Andrew Stehn:

Enclosed are the analytical results for sample(s) received by the laboratory on April 10, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Wes Braga, TRC
Peggy Popp, TRC - Madison
Katherine Vater, TRC



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: A191317 MADISON KIPP CORPORATI

Pace Project No.: 40185581

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: A191317 MADISON KIPP CORPORATI

Pace Project No.: 40185581

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40185581001	CS-1	Solid	03/28/19 13:05	04/10/19 10:30
40185581002	CS-2	Solid	03/28/19 14:10	04/10/19 10:30
40185581003	CS-3	Solid	03/28/19 14:53	04/10/19 10:30
40185581004	CS-4	Solid	03/28/19 15:25	04/10/19 10:30
40185581005	CS-5	Solid	03/28/19 15:54	04/10/19 10:30
40185581006	CS-6	Solid	03/28/19 16:25	04/10/19 10:30

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SAMPLE ANALYTE COUNT

Project: A191317 MADISON KIPP CORPORATI

Pace Project No.: 40185581

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40185581001	CS-1	EPA 8082A	BLM	10
		EPA 6010	TXW	7
		EPA 7470	AJT	1
		ASTM D2974-87	SKW	1
40185581002	CS-2	EPA 8082A	BLM	10
		EPA 6010	TXW	7
		EPA 7470	AJT	1
		ASTM D2974-87	SKW	1
40185581003	CS-3	EPA 8082A	BLM	10
		EPA 6010	TXW	7
		EPA 7470	AJT	1
		ASTM D2974-87	SKW	1
40185581004	CS-4	EPA 8082A	BLM	10
		EPA 6010	TXW	7
		EPA 7470	AJT	1
		ASTM D2974-87	SKW	1
40185581005	CS-5	EPA 8082A	BLM	10
		EPA 6010	TXW	7
		EPA 7470	AJT	1
		ASTM D2974-87	SKW	1
40185581006	CS-6	EPA 8082A	BLM	10
		EPA 6010	TXW	7
		EPA 7470	AJT	1
		ASTM D2974-87	SKW	1

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: A191317 MADISON KIPP CORPORATI
Pace Project No.: 40185581

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40185581001	CS-1					
EPA 8082A	PCB-1242 (Aroclor 1242)	830	ug/kg	51.8	04/12/19 10:06	
EPA 8082A	PCB-1260 (Aroclor 1260)	35.3J	ug/kg	51.8	04/12/19 10:06	
EPA 8082A	PCB, Total	866	ug/kg	51.8	04/12/19 10:06	
EPA 6010	Barium	0.28	mg/L	0.075	04/15/19 11:08	
EPA 6010	Lead	0.031J	mg/L	0.098	04/15/19 11:08	
EPA 6010	Selenium	0.14J	mg/L	0.25	04/15/19 11:08	
ASTM D2974-87	Percent Moisture	3.5	%	0.10	04/15/19 13:37	
40185581002	CS-2					
EPA 8082A	PCB-1242 (Aroclor 1242)	1380	ug/kg	171	04/12/19 11:00	
EPA 8082A	PCB, Total	1380	ug/kg	171	04/12/19 11:00	
EPA 6010	Barium	0.23	mg/L	0.075	04/15/19 11:16	
ASTM D2974-87	Percent Moisture	12.6	%	0.10	04/15/19 13:37	
40185581003	CS-3					
EPA 8082A	PCB-1242 (Aroclor 1242)	14900	ug/kg	1760	04/12/19 11:19	
EPA 8082A	PCB, Total	14900	ug/kg	1760	04/12/19 11:19	
EPA 6010	Arsenic	0.050J	mg/L	0.12	04/15/19 11:18	
EPA 6010	Barium	0.21	mg/L	0.075	04/15/19 11:18	
ASTM D2974-87	Percent Moisture	14.7	%	0.10	04/15/19 13:37	
40185581004	CS-4					
EPA 8082A	PCB-1242 (Aroclor 1242)	5140	ug/kg	772	04/12/19 11:37	
EPA 8082A	PCB, Total	5140	ug/kg	772	04/12/19 11:37	
EPA 6010	Arsenic	0.071J	mg/L	0.12	04/15/19 11:21	
EPA 6010	Barium	0.22	mg/L	0.075	04/15/19 11:21	
ASTM D2974-87	Percent Moisture	3.0	%	0.10	04/15/19 13:37	
40185581005	CS-5					
EPA 8082A	PCB-1242 (Aroclor 1242)	484	ug/kg	51.7	04/12/19 10:24	
EPA 8082A	PCB-1254 (Aroclor 1254)	295	ug/kg	51.7	04/12/19 10:24	
EPA 8082A	PCB, Total	779	ug/kg	51.7	04/12/19 10:24	
EPA 6010	Barium	0.19	mg/L	0.075	04/15/19 11:23	
ASTM D2974-87	Percent Moisture	3.1	%	0.10	04/15/19 13:37	
40185581006	CS-6					
EPA 8082A	PCB-1242 (Aroclor 1242)	826	ug/kg	104	04/12/19 10:42	
EPA 8082A	PCB-1254 (Aroclor 1254)	586	ug/kg	104	04/12/19 10:42	
EPA 8082A	PCB, Total	1410	ug/kg	104	04/12/19 10:42	
EPA 6010	Barium	0.21	mg/L	0.075	04/15/19 11:26	
ASTM D2974-87	Percent Moisture	4.2	%	0.10	04/15/19 13:37	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: A191317 MADISON KIPP CORPORATI
Pace Project No.: 40185581

Method: EPA 8082A
Description: 8082A GCS PCB
Client: TRC - MADISON
Date: April 17, 2019

General Information:

6 samples were analyzed for EPA 8082A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3541 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 318008

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- CS-3 (Lab ID: 40185581003)
 - Decachlorobiphenyl (S)
 - Tetrachloro-m-xylene (S)
- CS-4 (Lab ID: 40185581004)
 - Decachlorobiphenyl (S)
 - Tetrachloro-m-xylene (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: A191317 MADISON KIPP CORPORATI

Pace Project No.: 40185581

Method: EPA 6010

Description: 6010 MET ICP, TCLP

Client: TRC - MADISON

Date: April 17, 2019

General Information:

6 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: A191317 MADISON KIPP CORPORATI

Pace Project No.: 40185581

Method: EPA 7470

Description: 7470 Mercury, TCLP

Client: TRC - MADISON

Date: April 17, 2019

General Information:

6 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 318508

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40185539001,40185581001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1851054)
 - Mercury
- MS (Lab ID: 1851056)
 - Mercury
- MSD (Lab ID: 1851055)
 - Mercury

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: A191317 MADISON KIPP CORPORATI

Pace Project No.: 40185581

Sample: CS-1 **Lab ID: 40185581001** Collected: 03/28/19 13:05 Received: 04/10/19 10:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<25.9	ug/kg	51.8	25.9	1	04/11/19 08:14	04/12/19 10:06	12674-11-2	
PCB-1221 (Aroclor 1221)	<25.9	ug/kg	51.8	25.9	1	04/11/19 08:14	04/12/19 10:06	11104-28-2	
PCB-1232 (Aroclor 1232)	<25.9	ug/kg	51.8	25.9	1	04/11/19 08:14	04/12/19 10:06	11141-16-5	
PCB-1242 (Aroclor 1242)	830	ug/kg	51.8	25.9	1	04/11/19 08:14	04/12/19 10:06	53469-21-9	
PCB-1248 (Aroclor 1248)	<25.9	ug/kg	51.8	25.9	1	04/11/19 08:14	04/12/19 10:06	12672-29-6	
PCB-1254 (Aroclor 1254)	<25.9	ug/kg	51.8	25.9	1	04/11/19 08:14	04/12/19 10:06	11097-69-1	
PCB-1260 (Aroclor 1260)	35.3J	ug/kg	51.8	25.9	1	04/11/19 08:14	04/12/19 10:06	11096-82-5	
PCB, Total	866	ug/kg	51.8	25.9	1	04/11/19 08:14	04/12/19 10:06	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	80	%	57-115		1	04/11/19 08:14	04/12/19 10:06	877-09-8	
Decachlorobiphenyl (S)	70	%	47-97		1	04/11/19 08:14	04/12/19 10:06	2051-24-3	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/11/19 12:45									
Arsenic	<0.042	mg/L	0.12	0.042	1	04/12/19 08:54	04/15/19 11:08	7440-38-2	
Barium	0.28	mg/L	0.075	0.025	1	04/12/19 08:54	04/15/19 11:08	7440-39-3	
Cadmium	<0.0066	mg/L	0.025	0.0066	1	04/12/19 08:54	04/15/19 11:08	7440-43-9	
Chromium	<0.013	mg/L	0.050	0.013	1	04/12/19 08:54	04/15/19 11:08	7440-47-3	
Lead	0.031J	mg/L	0.098	0.030	1	04/12/19 08:54	04/15/19 11:08	7439-92-1	
Selenium	0.14J	mg/L	0.25	0.061	1	04/12/19 08:54	04/15/19 11:08	7782-49-2	
Silver	<0.017	mg/L	0.050	0.017	1	04/12/19 08:54	04/15/19 11:08	7440-22-4	
7470 Mercury, TCLP									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/11/19 12:45									
Mercury	<0.084	ug/L	0.28	0.084	1	04/16/19 09:50	04/17/19 09:05	7439-97-6	M0
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	3.5	%	0.10	0.10	1		04/15/19 13:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: A191317 MADISON KIPP CORPORATI

Pace Project No.: 40185581

Sample: CS-2 **Lab ID: 40185581002** Collected: 03/28/19 14:10 Received: 04/10/19 10:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<85.7	ug/kg	171	85.7	3	04/11/19 08:14	04/12/19 11:00	12674-11-2	
PCB-1221 (Aroclor 1221)	<85.7	ug/kg	171	85.7	3	04/11/19 08:14	04/12/19 11:00	11104-28-2	
PCB-1232 (Aroclor 1232)	<85.7	ug/kg	171	85.7	3	04/11/19 08:14	04/12/19 11:00	11141-16-5	
PCB-1242 (Aroclor 1242)	1380	ug/kg	171	85.7	3	04/11/19 08:14	04/12/19 11:00	53469-21-9	
PCB-1248 (Aroclor 1248)	<85.7	ug/kg	171	85.7	3	04/11/19 08:14	04/12/19 11:00	12672-29-6	
PCB-1254 (Aroclor 1254)	<85.7	ug/kg	171	85.7	3	04/11/19 08:14	04/12/19 11:00	11097-69-1	
PCB-1260 (Aroclor 1260)	<85.7	ug/kg	171	85.7	3	04/11/19 08:14	04/12/19 11:00	11096-82-5	
PCB, Total	1380	ug/kg	171	85.7	3	04/11/19 08:14	04/12/19 11:00	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	57-115		3	04/11/19 08:14	04/12/19 11:00	877-09-8	
Decachlorobiphenyl (S)	75	%	47-97		3	04/11/19 08:14	04/12/19 11:00	2051-24-3	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/11/19 12:45									
Arsenic	<0.042	mg/L	0.12	0.042	1	04/12/19 08:54	04/15/19 11:16	7440-38-2	
Barium	0.23	mg/L	0.075	0.025	1	04/12/19 08:54	04/15/19 11:16	7440-39-3	
Cadmium	<0.0066	mg/L	0.025	0.0066	1	04/12/19 08:54	04/15/19 11:16	7440-43-9	
Chromium	<0.013	mg/L	0.050	0.013	1	04/12/19 08:54	04/15/19 11:16	7440-47-3	
Lead	<0.030	mg/L	0.098	0.030	1	04/12/19 08:54	04/15/19 11:16	7439-92-1	
Selenium	<0.061	mg/L	0.25	0.061	1	04/12/19 08:54	04/15/19 11:16	7782-49-2	
Silver	<0.017	mg/L	0.050	0.017	1	04/12/19 08:54	04/15/19 11:16	7440-22-4	
7470 Mercury, TCLP									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/11/19 12:45									
Mercury	<0.084	ug/L	0.28	0.084	1	04/16/19 09:50	04/17/19 09:10	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.6	%	0.10	0.10	1		04/15/19 13:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: A191317 MADISON KIPP CORPORATI

Pace Project No.: 40185581

Sample: CS-3 **Lab ID: 40185581003** Collected: 03/28/19 14:53 Received: 04/10/19 10:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<878	ug/kg	1760	878	30	04/11/19 08:14	04/12/19 11:19	12674-11-2	
PCB-1221 (Aroclor 1221)	<878	ug/kg	1760	878	30	04/11/19 08:14	04/12/19 11:19	11104-28-2	
PCB-1232 (Aroclor 1232)	<878	ug/kg	1760	878	30	04/11/19 08:14	04/12/19 11:19	11141-16-5	
PCB-1242 (Aroclor 1242)	14900	ug/kg	1760	878	30	04/11/19 08:14	04/12/19 11:19	53469-21-9	
PCB-1248 (Aroclor 1248)	<878	ug/kg	1760	878	30	04/11/19 08:14	04/12/19 11:19	12672-29-6	
PCB-1254 (Aroclor 1254)	<878	ug/kg	1760	878	30	04/11/19 08:14	04/12/19 11:19	11097-69-1	
PCB-1260 (Aroclor 1260)	<878	ug/kg	1760	878	30	04/11/19 08:14	04/12/19 11:19	11096-82-5	
PCB, Total	14900	ug/kg	1760	878	30	04/11/19 08:14	04/12/19 11:19	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	57-115		30	04/11/19 08:14	04/12/19 11:19	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-97		30	04/11/19 08:14	04/12/19 11:19	2051-24-3	S4
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/11/19 12:45									
Arsenic	0.050J	mg/L	0.12	0.042	1	04/12/19 08:54	04/15/19 11:18	7440-38-2	
Barium	0.21	mg/L	0.075	0.025	1	04/12/19 08:54	04/15/19 11:18	7440-39-3	
Cadmium	<0.0066	mg/L	0.025	0.0066	1	04/12/19 08:54	04/15/19 11:18	7440-43-9	
Chromium	<0.013	mg/L	0.050	0.013	1	04/12/19 08:54	04/15/19 11:18	7440-47-3	
Lead	<0.030	mg/L	0.098	0.030	1	04/12/19 08:54	04/15/19 11:18	7439-92-1	
Selenium	<0.061	mg/L	0.25	0.061	1	04/12/19 08:54	04/15/19 11:18	7782-49-2	
Silver	<0.017	mg/L	0.050	0.017	1	04/12/19 08:54	04/15/19 11:18	7440-22-4	
7470 Mercury, TCLP									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/11/19 12:45									
Mercury	<0.084	ug/L	0.28	0.084	1	04/16/19 09:50	04/17/19 09:12	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	14.7	%	0.10	0.10	1		04/15/19 13:37		

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ANALYTICAL RESULTS

Project: A191317 MADISON KIPP CORPORATI
Pace Project No.: 40185581

Sample: CS-4 **Lab ID: 40185581004** Collected: 03/28/19 15:25 Received: 04/10/19 10:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<386	ug/kg	772	386	15	04/11/19 08:14	04/12/19 11:37	12674-11-2	
PCB-1221 (Aroclor 1221)	<386	ug/kg	772	386	15	04/11/19 08:14	04/12/19 11:37	11104-28-2	
PCB-1232 (Aroclor 1232)	<386	ug/kg	772	386	15	04/11/19 08:14	04/12/19 11:37	11141-16-5	
PCB-1242 (Aroclor 1242)	5140	ug/kg	772	386	15	04/11/19 08:14	04/12/19 11:37	53469-21-9	
PCB-1248 (Aroclor 1248)	<386	ug/kg	772	386	15	04/11/19 08:14	04/12/19 11:37	12672-29-6	
PCB-1254 (Aroclor 1254)	<386	ug/kg	772	386	15	04/11/19 08:14	04/12/19 11:37	11097-69-1	
PCB-1260 (Aroclor 1260)	<386	ug/kg	772	386	15	04/11/19 08:14	04/12/19 11:37	11096-82-5	
PCB, Total	5140	ug/kg	772	386	15	04/11/19 08:14	04/12/19 11:37	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	57-115		15	04/11/19 08:14	04/12/19 11:37	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-97		15	04/11/19 08:14	04/12/19 11:37	2051-24-3	S4
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/11/19 12:45									
Arsenic	0.071J	mg/L	0.12	0.042	1	04/12/19 08:54	04/15/19 11:21	7440-38-2	
Barium	0.22	mg/L	0.075	0.025	1	04/12/19 08:54	04/15/19 11:21	7440-39-3	
Cadmium	<0.0066	mg/L	0.025	0.0066	1	04/12/19 08:54	04/15/19 11:21	7440-43-9	
Chromium	<0.013	mg/L	0.050	0.013	1	04/12/19 08:54	04/15/19 11:21	7440-47-3	
Lead	<0.030	mg/L	0.098	0.030	1	04/12/19 08:54	04/15/19 11:21	7439-92-1	
Selenium	<0.061	mg/L	0.25	0.061	1	04/12/19 08:54	04/15/19 11:21	7782-49-2	
Silver	<0.017	mg/L	0.050	0.017	1	04/12/19 08:54	04/15/19 11:21	7440-22-4	
7470 Mercury, TCLP									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/11/19 12:45									
Mercury	<0.084	ug/L	0.28	0.084	1	04/16/19 09:50	04/17/19 09:14	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	3.0	%	0.10	0.10	1		04/15/19 13:37		

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ANALYTICAL RESULTS

Project: A191317 MADISON KIPP CORPORATI

Pace Project No.: 40185581

Sample: CS-5 **Lab ID: 40185581005** Collected: 03/28/19 15:54 Received: 04/10/19 10:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<25.9	ug/kg	51.7	25.9	1	04/11/19 08:14	04/12/19 10:24	12674-11-2	
PCB-1221 (Aroclor 1221)	<25.9	ug/kg	51.7	25.9	1	04/11/19 08:14	04/12/19 10:24	11104-28-2	
PCB-1232 (Aroclor 1232)	<25.9	ug/kg	51.7	25.9	1	04/11/19 08:14	04/12/19 10:24	11141-16-5	
PCB-1242 (Aroclor 1242)	484	ug/kg	51.7	25.9	1	04/11/19 08:14	04/12/19 10:24	53469-21-9	
PCB-1248 (Aroclor 1248)	<25.9	ug/kg	51.7	25.9	1	04/11/19 08:14	04/12/19 10:24	12672-29-6	
PCB-1254 (Aroclor 1254)	295	ug/kg	51.7	25.9	1	04/11/19 08:14	04/12/19 10:24	11097-69-1	
PCB-1260 (Aroclor 1260)	<25.9	ug/kg	51.7	25.9	1	04/11/19 08:14	04/12/19 10:24	11096-82-5	
PCB, Total	779	ug/kg	51.7	25.9	1	04/11/19 08:14	04/12/19 10:24	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	73	%	57-115		1	04/11/19 08:14	04/12/19 10:24	877-09-8	
Decachlorobiphenyl (S)	63	%	47-97		1	04/11/19 08:14	04/12/19 10:24	2051-24-3	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/11/19 12:45									
Arsenic	<0.042	mg/L	0.12	0.042	1	04/12/19 08:54	04/15/19 11:23	7440-38-2	
Barium	0.19	mg/L	0.075	0.025	1	04/12/19 08:54	04/15/19 11:23	7440-39-3	
Cadmium	<0.0066	mg/L	0.025	0.0066	1	04/12/19 08:54	04/15/19 11:23	7440-43-9	
Chromium	<0.013	mg/L	0.050	0.013	1	04/12/19 08:54	04/15/19 11:23	7440-47-3	
Lead	<0.030	mg/L	0.098	0.030	1	04/12/19 08:54	04/15/19 11:23	7439-92-1	
Selenium	<0.061	mg/L	0.25	0.061	1	04/12/19 08:54	04/15/19 11:23	7782-49-2	
Silver	<0.017	mg/L	0.050	0.017	1	04/12/19 08:54	04/15/19 11:23	7440-22-4	
7470 Mercury, TCLP									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/11/19 12:45									
Mercury	<0.084	ug/L	0.28	0.084	1	04/16/19 09:50	04/17/19 09:21	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	3.1	%	0.10	0.10	1		04/15/19 13:37		

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ANALYTICAL RESULTS

Project: A191317 MADISON KIPP CORPORATI

Pace Project No.: 40185581

Sample: CS-6 **Lab ID: 40185581006** Collected: 03/28/19 16:25 Received: 04/10/19 10:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<52.2	ug/kg	104	52.2	2	04/11/19 08:14	04/12/19 10:42	12674-11-2	
PCB-1221 (Aroclor 1221)	<52.2	ug/kg	104	52.2	2	04/11/19 08:14	04/12/19 10:42	11104-28-2	
PCB-1232 (Aroclor 1232)	<52.2	ug/kg	104	52.2	2	04/11/19 08:14	04/12/19 10:42	11141-16-5	
PCB-1242 (Aroclor 1242)	826	ug/kg	104	52.2	2	04/11/19 08:14	04/12/19 10:42	53469-21-9	
PCB-1248 (Aroclor 1248)	<52.2	ug/kg	104	52.2	2	04/11/19 08:14	04/12/19 10:42	12672-29-6	
PCB-1254 (Aroclor 1254)	586	ug/kg	104	52.2	2	04/11/19 08:14	04/12/19 10:42	11097-69-1	
PCB-1260 (Aroclor 1260)	<52.2	ug/kg	104	52.2	2	04/11/19 08:14	04/12/19 10:42	11096-82-5	
PCB, Total	1410	ug/kg	104	52.2	2	04/11/19 08:14	04/12/19 10:42	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	57-115		2	04/11/19 08:14	04/12/19 10:42	877-09-8	
Decachlorobiphenyl (S)	70	%	47-97		2	04/11/19 08:14	04/12/19 10:42	2051-24-3	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/11/19 12:45									
Arsenic	<0.042	mg/L	0.12	0.042	1	04/12/19 08:54	04/15/19 11:26	7440-38-2	
Barium	0.21	mg/L	0.075	0.025	1	04/12/19 08:54	04/15/19 11:26	7440-39-3	
Cadmium	<0.0066	mg/L	0.025	0.0066	1	04/12/19 08:54	04/15/19 11:26	7440-43-9	
Chromium	<0.013	mg/L	0.050	0.013	1	04/12/19 08:54	04/15/19 11:26	7440-47-3	
Lead	<0.030	mg/L	0.098	0.030	1	04/12/19 08:54	04/15/19 11:26	7439-92-1	
Selenium	<0.061	mg/L	0.25	0.061	1	04/12/19 08:54	04/15/19 11:26	7782-49-2	
Silver	<0.017	mg/L	0.050	0.017	1	04/12/19 08:54	04/15/19 11:26	7440-22-4	
7470 Mercury, TCLP									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/11/19 12:45									
Mercury	<0.084	ug/L	0.28	0.084	1	04/16/19 09:50	04/17/19 09:24	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	4.2	%	0.10	0.10	1		04/15/19 13:37		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: A191317 MADISON KIPP CORPORATI
Pace Project No.: 40185581

QC Batch: 318508 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 40185581001, 40185581002, 40185581003, 40185581004, 40185581005, 40185581006

METHOD BLANK: 1851052 Matrix: Water
Associated Lab Samples: 40185581001, 40185581002, 40185581003, 40185581004, 40185581005, 40185581006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.084	0.28	04/17/19 08:54	

METHOD BLANK: 1848853 Matrix: Water
Associated Lab Samples: 40185581001, 40185581002, 40185581003, 40185581004, 40185581005, 40185581006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.084	0.28	04/17/19 09:26	

LABORATORY CONTROL SAMPLE: 1851053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.4	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1851054 1851055

Parameter	Units	40185539001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.084	5	5	6.0	5.9	121	119	85-115	2	20	M0

MATRIX SPIKE SAMPLE: 1851056

Parameter	Units	40185581001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.084	5	6.0	120	85-115	M0

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QUALITY CONTROL DATA

Project: A191317 MADISON KIPP CORPORATI
Pace Project No.: 40185581

QC Batch: 318135 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET TCLP
Associated Lab Samples: 40185581001, 40185581002, 40185581003, 40185581004, 40185581005, 40185581006

METHOD BLANK: 1849572 Matrix: Water
Associated Lab Samples: 40185581001, 40185581002, 40185581003, 40185581004, 40185581005, 40185581006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0083	0.025	04/15/19 11:03	
Barium	mg/L	<0.0050	0.015	04/15/19 11:03	
Cadmium	mg/L	<0.0013	0.0050	04/15/19 11:03	
Chromium	mg/L	<0.0025	0.010	04/15/19 11:03	
Lead	mg/L	<0.0059	0.020	04/15/19 11:03	
Selenium	mg/L	<0.012	0.050	04/15/19 11:03	
Silver	mg/L	<0.0033	0.010	04/15/19 11:03	

METHOD BLANK: 1848852 Matrix: Solid
Associated Lab Samples: 40185581001, 40185581002, 40185581003, 40185581004, 40185581005, 40185581006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.042	0.12	04/15/19 11:43	
Barium	mg/L	<0.025	0.075	04/15/19 11:43	
Cadmium	mg/L	<0.0066	0.025	04/15/19 11:43	
Chromium	mg/L	<0.013	0.050	04/15/19 11:43	
Lead	mg/L	<0.030	0.098	04/15/19 11:43	
Selenium	mg/L	<0.061	0.25	04/15/19 11:43	
Silver	mg/L	<0.017	0.050	04/15/19 11:43	

LABORATORY CONTROL SAMPLE: 1849573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.5	0.47	94	80-120	
Barium	mg/L	0.5	0.50	100	80-120	
Cadmium	mg/L	0.5	0.50	101	80-120	
Chromium	mg/L	0.5	0.50	101	80-120	
Lead	mg/L	0.5	0.49	99	80-120	
Selenium	mg/L	0.5	0.51	101	80-120	
Silver	mg/L	0.25	0.25	102	80-120	

MATRIX SPIKE SAMPLE: 1849574

Parameter	Units	40185539001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	<0.042	2.5	2.4	98	75-125	
Barium	mg/L	0.26	2.5	2.8	102	75-125	

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QUALITY CONTROL DATA

Project: A191317 MADISON KIPP CORPORATI

Pace Project No.: 40185581

MATRIX SPIKE SAMPLE:		1849574					
Parameter	Units	40185539001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/L	0.28	2.5	2.8	100	75-125	
Chromium	mg/L	<0.013	2.5	2.6	103	75-125	
Lead	mg/L	59.4	2.5	62.4	122	75-125	
Selenium	mg/L	<0.061	2.5	2.5	102	75-125	
Silver	mg/L	<0.017	1.2	1.3	106	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1849575			1849576							
Parameter	Units	40185581001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	<0.042	2.5	2.5	2.4	2.4	94	98	75-125	4	20	
Barium	mg/L	0.28	2.5	2.5	2.7	2.8	98	101	75-125	3	20	
Cadmium	mg/L	<0.0066	2.5	2.5	2.5	2.6	100	103	75-125	3	20	
Chromium	mg/L	<0.013	2.5	2.5	2.4	2.5	98	101	75-125	3	20	
Lead	mg/L	0.031J	2.5	2.5	2.5	2.5	100	99	75-125	1	20	
Selenium	mg/L	0.14J	2.5	2.5	2.5	2.6	95	100	75-125	5	20	
Silver	mg/L	<0.017	1.2	1.2	1.3	1.3	103	107	75-125	3	20	

MATRIX SPIKE SAMPLE:		1849577					
Parameter	Units	40185594001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	<0.042	2.5	2.5	98	75-125	
Barium	mg/L	0.49	2.5	3.1	103	75-125	
Cadmium	mg/L	<0.0066	2.5	2.5	101	75-125	
Chromium	mg/L	<0.013	2.5	2.6	102	75-125	
Lead	mg/L	<0.030	2.5	2.5	99	75-125	
Selenium	mg/L	<0.061	2.5	2.6	106	75-125	
Silver	mg/L	<0.017	1.2	1.3	106	75-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: A191317 MADISON KIPP CORPORATI
Pace Project No.: 40185581

QC Batch: 318008 Analysis Method: EPA 8082A
QC Batch Method: EPA 3541 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40185581001, 40185581002, 40185581003, 40185581004, 40185581005, 40185581006

METHOD BLANK: 1848861 Matrix: Solid
Associated Lab Samples: 40185581001, 40185581002, 40185581003, 40185581004, 40185581005, 40185581006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<25.0	50.0	04/11/19 16:56	
PCB-1221 (Aroclor 1221)	ug/kg	<25.0	50.0	04/11/19 16:56	
PCB-1232 (Aroclor 1232)	ug/kg	<25.0	50.0	04/11/19 16:56	
PCB-1242 (Aroclor 1242)	ug/kg	<25.0	50.0	04/11/19 16:56	
PCB-1248 (Aroclor 1248)	ug/kg	<25.0	50.0	04/11/19 16:56	
PCB-1254 (Aroclor 1254)	ug/kg	<25.0	50.0	04/11/19 16:56	
PCB-1260 (Aroclor 1260)	ug/kg	<25.0	50.0	04/11/19 16:56	
Decachlorobiphenyl (S)	%	82	47-97	04/11/19 16:56	
Tetrachloro-m-xylene (S)	%	75	57-115	04/11/19 16:56	

LABORATORY CONTROL SAMPLE: 1848862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<25.0			
PCB-1221 (Aroclor 1221)	ug/kg		<25.0			
PCB-1232 (Aroclor 1232)	ug/kg		<25.0			
PCB-1242 (Aroclor 1242)	ug/kg		<25.0			
PCB-1248 (Aroclor 1248)	ug/kg		<25.0			
PCB-1254 (Aroclor 1254)	ug/kg		<25.0			
PCB-1260 (Aroclor 1260)	ug/kg	500	410	82	64-115	
Decachlorobiphenyl (S)	%			86	47-97	
Tetrachloro-m-xylene (S)	%			80	57-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1848863 1848864

Parameter	Units	40185580001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<31.4			<31.5	<31.4					20	
PCB-1221 (Aroclor 1221)	ug/kg	<31.4			<31.5	<31.4					20	
PCB-1232 (Aroclor 1232)	ug/kg	<31.4			<31.5	<31.4					20	
PCB-1242 (Aroclor 1242)	ug/kg	<31.4			<31.5	<31.4					20	
PCB-1248 (Aroclor 1248)	ug/kg	<31.4			<31.5	<31.4					20	
PCB-1254 (Aroclor 1254)	ug/kg	<31.4			<31.5	<31.4					20	
PCB-1260 (Aroclor 1260)	ug/kg	<31.4	629	628	516	489	82	78	49-115	5	20	
Decachlorobiphenyl (S)	%						86	83	47-97			
Tetrachloro-m-xylene (S)	%						81	76	57-115			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: A191317 MADISON KIPP CORPORATI

Pace Project No.: 40185581

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: A191317 MADISON KIPP CORPORATI

Pace Project No.: 40185581

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40185581001	CS-1	EPA 3541	318008	EPA 8082A	318012
40185581002	CS-2	EPA 3541	318008	EPA 8082A	318012
40185581003	CS-3	EPA 3541	318008	EPA 8082A	318012
40185581004	CS-4	EPA 3541	318008	EPA 8082A	318012
40185581005	CS-5	EPA 3541	318008	EPA 8082A	318012
40185581006	CS-6	EPA 3541	318008	EPA 8082A	318012
40185581001	CS-1	EPA 3010	318135	EPA 6010	318354
40185581002	CS-2	EPA 3010	318135	EPA 6010	318354
40185581003	CS-3	EPA 3010	318135	EPA 6010	318354
40185581004	CS-4	EPA 3010	318135	EPA 6010	318354
40185581005	CS-5	EPA 3010	318135	EPA 6010	318354
40185581006	CS-6	EPA 3010	318135	EPA 6010	318354
40185581001	CS-1	EPA 7470	318508	EPA 7470	318600
40185581002	CS-2	EPA 7470	318508	EPA 7470	318600
40185581003	CS-3	EPA 7470	318508	EPA 7470	318600
40185581004	CS-4	EPA 7470	318508	EPA 7470	318600
40185581005	CS-5	EPA 7470	318508	EPA 7470	318600
40185581006	CS-6	EPA 7470	318508	EPA 7470	318600
40185581001	CS-1	ASTM D2974-87	318399		
40185581002	CS-2	ASTM D2974-87	318399		
40185581003	CS-3	ASTM D2974-87	318399		
40185581004	CS-4	ASTM D2974-87	318399		
40185581005	CS-5	ASTM D2974-87	318399		
40185581006	CS-6	ASTM D2974-87	318399		

REPORT OF LABORATORY ANALYSIS

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SUBCONTRACT ORDER

Pace Analytical - Madison

A191317

58220884 40185581

SENDING LABORATORY:

Pace Analytical - Madison
2525 Advance Road
Madison, WI 53718
Phone: 608.221.8700
Fax: 608.221.4889
Project Manager: Jessica Esser

RECEIVING LABORATORY:

Pace Analytical - Indy
7726 Moller Road
Indianapolis, IN 46268
Phone: (317) 228-3118
Fax: -

Turn around Time: X Normal 4/12/19
Rush

Project Name: Madison Kipp Corporation

Table with 5 rows of lab data. Columns: Lab ID, Sample Type, Sampled Time, Laboratory ID, Comments. Includes details for Lab IDs A191317-01 through A191317-05, all for Soil samples.

Release and receipt signatures and dates. Released By: Kari-Anne Gillis (3/29/19), Received By: [Signature] (3/30/19). Includes 'Fedex' and '910' markings.

Temp Rec'd 1.2°C
Fedex 4/10/19 1030
allison 4/10/19 1030

40185581



SUBCONTRACT ORDER
Pace Analytical - Madison
A191317

50220884

40185581

		Laboratory ID	Comments
Lab ID: A191317-06	Soil	006	004
8082 PCBs			report to MDL
Subcontracted Metals			TCLP
Containers Supplied:			
03_4oz WM Amber Glass 03_4oz WM Amber Glass			

Released By: Keri-Ann Gillen Date: 3/29/19 1630

Received By: [Signature] Date: 3/30/19 910

Released By: [Signature] Date: 3/29/19 1630

Received By: [Signature] Date: 3/30/19 910

Fedex

ET 3/30/19

40185581

Temp Rec'd 12°C
Edw ex 4/10/19 1030

allan 4/10/19 1030

40185581

SAMPLE CONDITION UPON RECEIPT FORM



Project #: 50220884 Date/Time and Initials of person examining contents: 3/30/19 938 CT

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 4542 W25 1861

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer: 1 2 3 4 5 6 A B D E F Ice Type: Wet Blue None | Samples collected today and on ice: Yes No N/A

Cooler Temperature: 1.3/1.2 Ice Visible in Sample Containers?: Yes No N/A

(Initial/Corrected) Temp should be above freezing to 6°C If temp. is Over 6°C or under 0°C, was the PM Notified?: Yes No N/A

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		<input checked="" type="checkbox"/>	All containers needing acid/base pres. Have been checked? exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.			<input checked="" type="checkbox"/>
Chain of Custody Present:	<input checked="" type="checkbox"/>		Circle: HNO3 H2SO4 NaOH NaOH/ZnAc			
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>		Dissolved Metals field filtered?:			<input checked="" type="checkbox"/>
Short Hold Time Analysis (<72hr)? Analysis:		<input checked="" type="checkbox"/>	Headspace Wisconsin Sulfide			<input checked="" type="checkbox"/>
Time 5035A TC placed in Freezer or Short Holds To Lab:			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
			Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Rush TAT Requested:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Headspace in VOA Vials (>6mm):			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Trip Blank Present?:		<input checked="" type="checkbox"/>	
Sample Label (IDs/Dates/Times) Match COC? Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Custody Seals?:		<input checked="" type="checkbox"/>	

Comments:

Sample Container Count

40185581
WO#: 50220884

CLIENT Pace - Madison

C PAGE ___ of ___

C ID# _____

Project # 50220884

SBS
Bulk
Kit

Sample Line Item	DG9H	VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R	Matrix S (Soil/Water) Aqueous	pH <2	pH >9	pH >12
1								2											SL			
2								↓											↓			
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass	BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
DG9H	40mL HCL amber vial	AG1H	1 liter HCL amber glass	BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass	BP1S	1 liter H2SO4 plastic		
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass	BP1U	1 liter unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG1U	1 liter unpreserved amber glass	BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass	BP2O	500mL NaOH plastic	U	Summa Can
VG9T	40mL Na Thio clear vial	AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG3U	250mL unpreserved amber glass	BP2U	500mL unpreserved plastic		
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac		
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass	BP3S	250mL H2SO4 plastic		
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass				
		BG3U	250mL Unpreserved Clear Glass				

Sample Preservation Receipt Form

Client Name: Pace Madison

Project # 40185581

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/Time:

Pace Lab #	Glass						Plastic						Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)			
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU								WPFU	SP5T	ZPLC
001																					2											2.5 / 5 / 10
002																					2											2.5 / 5 / 10
003																					2											2.5 / 5 / 10
004																					2											2.5 / 5 / 10
005																					2											2.5 / 5 / 10
006																					2											2.5 / 5 / 10
007																																2.5 / 5 / 10
008																																2.5 / 5 / 10
009																																2.5 / 5 / 10
010																																2.5 / 5 / 10
011																																2.5 / 5 / 10
012																																2.5 / 5 / 10
013																																2.5 / 5 / 10
014																																2.5 / 5 / 10
015																																2.5 / 5 / 10
016																																2.5 / 5 / 10
017																																2.5 / 5 / 10
018																																2.5 / 5 / 10
019																																2.5 / 5 / 10
020																																2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

May 15, 2019

Andrew Stehn
TRC Madison
708 Heartland Trail
Madison, WI 53717

RE: Project: 323372 MKC-CONCRETE
Pace Project No.: 40187464

Dear Andrew Stehn:

Enclosed are the analytical results for sample(s) received by the laboratory on May 11, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Peggy Popp, TRC - Madison



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 323372 MKC-CONCRETE

Pace Project No.: 40187464

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: 323372 MKC-CONCRETE

Pace Project No.: 40187464

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40187464001	RO-1C	Solid	05/10/19 14:00	05/11/19 08:05
40187464002	RO-2C	Solid	05/10/19 14:30	05/11/19 08:05

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SAMPLE ANALYTE COUNT

Project: 323372 MKC-CONCRETE

Pace Project No.: 40187464

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40187464001	RO-1C	EPA 8082	BLM	10
		ASTM D2974-87	PCG	1
40187464002	RO-2C	EPA 8082	BLM	10
		ASTM D2974-87	PCG	1

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SUMMARY OF DETECTION

Project: 323372 MKC-CONCRETE

Pace Project No.: 40187464

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40187464001	RO-1C					
EPA 8082	PCB-1242 (Aroclor 1242)	3120	ug/kg	520	05/15/19 11:02	
EPA 8082	PCB, Total	3120	ug/kg	520	05/15/19 11:02	
ASTM D2974-87	Percent Moisture	3.5	%	0.10	05/11/19 12:40	
40187464002	RO-2C					
EPA 8082	PCB-1242 (Aroclor 1242)	403	ug/kg	52.3	05/15/19 11:20	
EPA 8082	PCB-1254 (Aroclor 1254)	311	ug/kg	52.3	05/15/19 11:20	
EPA 8082	PCB, Total	714	ug/kg	52.3	05/15/19 11:20	
ASTM D2974-87	Percent Moisture	4.1	%	0.10	05/11/19 12:40	

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PROJECT NARRATIVE

Project: 323372 MKC-CONCRETE

Pace Project No.: 40187464

Method: EPA 8082

Description: 8082 GCS PCB

Client: TRC - MADISON

Date: May 15, 2019

General Information:

2 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3541 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 323372 MKC-CONCRETE

Pace Project No.: 40187464

Sample: RO-1C **Lab ID: 40187464001** Collected: 05/10/19 14:00 Received: 05/11/19 08:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<260	ug/kg	520	260	10	05/14/19 14:18	05/15/19 11:02	12674-11-2	
PCB-1221 (Aroclor 1221)	<260	ug/kg	520	260	10	05/14/19 14:18	05/15/19 11:02	11104-28-2	
PCB-1232 (Aroclor 1232)	<260	ug/kg	520	260	10	05/14/19 14:18	05/15/19 11:02	11141-16-5	
PCB-1242 (Aroclor 1242)	3120	ug/kg	520	260	10	05/14/19 14:18	05/15/19 11:02	53469-21-9	
PCB-1248 (Aroclor 1248)	<260	ug/kg	520	260	10	05/14/19 14:18	05/15/19 11:02	12672-29-6	
PCB-1254 (Aroclor 1254)	<260	ug/kg	520	260	10	05/14/19 14:18	05/15/19 11:02	11097-69-1	
PCB-1260 (Aroclor 1260)	<260	ug/kg	520	260	10	05/14/19 14:18	05/15/19 11:02	11096-82-5	
PCB, Total	3120	ug/kg	520	260	10	05/14/19 14:18	05/15/19 11:02	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	68	%	57-115		10	05/14/19 14:18	05/15/19 11:02	877-09-8	
Decachlorobiphenyl (S)	57	%	47-97		10	05/14/19 14:18	05/15/19 11:02	2051-24-3	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	3.5	%	0.10	0.10	1		05/11/19 12:40		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 323372 MKC-CONCRETE

Pace Project No.: 40187464

Sample: RO-2C **Lab ID: 40187464002** Collected: 05/10/19 14:30 Received: 05/11/19 08:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<26.1	ug/kg	52.3	26.1	1	05/14/19 14:18	05/15/19 11:20	12674-11-2	
PCB-1221 (Aroclor 1221)	<26.1	ug/kg	52.3	26.1	1	05/14/19 14:18	05/15/19 11:20	11104-28-2	
PCB-1232 (Aroclor 1232)	<26.1	ug/kg	52.3	26.1	1	05/14/19 14:18	05/15/19 11:20	11141-16-5	
PCB-1242 (Aroclor 1242)	403	ug/kg	52.3	26.1	1	05/14/19 14:18	05/15/19 11:20	53469-21-9	
PCB-1248 (Aroclor 1248)	<26.1	ug/kg	52.3	26.1	1	05/14/19 14:18	05/15/19 11:20	12672-29-6	
PCB-1254 (Aroclor 1254)	311	ug/kg	52.3	26.1	1	05/14/19 14:18	05/15/19 11:20	11097-69-1	
PCB-1260 (Aroclor 1260)	<26.1	ug/kg	52.3	26.1	1	05/14/19 14:18	05/15/19 11:20	11096-82-5	
PCB, Total	714	ug/kg	52.3	26.1	1	05/14/19 14:18	05/15/19 11:20	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	63	%	57-115		1	05/14/19 14:18	05/15/19 11:20	877-09-8	
Decachlorobiphenyl (S)	58	%	47-97		1	05/14/19 14:18	05/15/19 11:20	2051-24-3	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	4.1	%	0.10	0.10	1		05/11/19 12:40		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 323372 MKC-CONCRETE
Pace Project No.: 40187464

QC Batch: 321290 Analysis Method: EPA 8082
QC Batch Method: EPA 3541 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40187464001, 40187464002

METHOD BLANK: 1866089 Matrix: Solid
Associated Lab Samples: 40187464001, 40187464002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<25.0	50.0	05/15/19 07:54	
PCB-1221 (Aroclor 1221)	ug/kg	<25.0	50.0	05/15/19 07:54	
PCB-1232 (Aroclor 1232)	ug/kg	<25.0	50.0	05/15/19 07:54	
PCB-1242 (Aroclor 1242)	ug/kg	<25.0	50.0	05/15/19 07:54	
PCB-1248 (Aroclor 1248)	ug/kg	<25.0	50.0	05/15/19 07:54	
PCB-1254 (Aroclor 1254)	ug/kg	<25.0	50.0	05/15/19 07:54	
PCB-1260 (Aroclor 1260)	ug/kg	<25.0	50.0	05/15/19 07:54	
Decachlorobiphenyl (S)	%	91	47-97	05/15/19 07:54	
Tetrachloro-m-xylene (S)	%	79	57-115	05/15/19 07:54	

LABORATORY CONTROL SAMPLE: 1866090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<25.0			
PCB-1221 (Aroclor 1221)	ug/kg		<25.0			
PCB-1232 (Aroclor 1232)	ug/kg		<25.0			
PCB-1242 (Aroclor 1242)	ug/kg		<25.0			
PCB-1248 (Aroclor 1248)	ug/kg		<25.0			
PCB-1254 (Aroclor 1254)	ug/kg		<25.0			
PCB-1260 (Aroclor 1260)	ug/kg	500	418	84	64-115	
Decachlorobiphenyl (S)	%			91	47-97	
Tetrachloro-m-xylene (S)	%			76	57-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1866091 1866092

Parameter	Units	40187330001		1866092		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
PCB-1016 (Aroclor 1016)	ug/kg	<32.4			<32.4	<32.5				20	
PCB-1221 (Aroclor 1221)	ug/kg	<32.4			<32.4	<32.5				20	
PCB-1232 (Aroclor 1232)	ug/kg	<32.4			<32.4	<32.5				20	
PCB-1242 (Aroclor 1242)	ug/kg	<32.4			<32.4	<32.5				20	
PCB-1248 (Aroclor 1248)	ug/kg	<32.4			<32.4	<32.5				20	
PCB-1254 (Aroclor 1254)	ug/kg	<32.4			<32.4	<32.5				20	
PCB-1260 (Aroclor 1260)	ug/kg	<32.4	649	649	483	467	75	72	49-115	4	20
Decachlorobiphenyl (S)	%						81	76	47-97		
Tetrachloro-m-xylene (S)	%						78	72	57-115		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 323372 MKC-CONCRETE

Pace Project No.: 40187464

QC Batch:	321031	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	40187464001, 40187464002		

SAMPLE DUPLICATE: 1865109

Parameter	Units	40187468001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.7	5.6	3	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 323372 MKC-CONCRETE

Pace Project No.: 40187464

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 323372 MKC-CONCRETE

Pace Project No.: 40187464

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40187464001	RO-1C	EPA 3541	321290	EPA 8082	321332
40187464002	RO-2C	EPA 3541	321290	EPA 8082	321332
40187464001	RO-1C	ASTM D2974-87	321031		
40187464002	RO-2C	ASTM D2974-87	321031		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)



40187464

Company Name: TRC
 Branch/Location: MADISON
 Project Contact: ANDREW STEHN
 Phone: 608-807-8112
 Project Number: 323372
 Project Name: MUC - Concrete
 Project State: WI
 Sampled By (Print): ANDREW STEHN
 Sampled By (Sign): *Andrew Stehn*
 PO #:

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	NA																			
Pick Letter	A																			
Analyses Requested	PCBC																			

Quote #:
 Mail To Contact: ANDREW STEHN
 Mail To Company: TRC
 Mail To Address:
 Invoice To Contact: ANDREW STEHN
 Invoice To Company: TRC
 Invoice To Address:
 Invoice To Phone: 608-826-3665
 CLIENT COMMENTS:
 LAB COMMENTS (Lab Use Only):
 Profile #:

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	NA
		DATE	TIME			
001	20-1c	5/10/19	14:00	PCBC	X	
002	20-2c	5/10/19	14:30	PCBC	X	

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed: 5/14/19

Transmit Prelim Rush Results by (complete what you want):

Email #1:
 Email #2:
 Telephone:
 Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: *Andrew Stehn TRC* Date/Time: 5/10/19 15:24
 Relinquished By: *C.S Logistics* Date/Time: 5/11/19 8:05
 Relinquished By: Date/Time:
 Relinquished By: Date/Time:
 Relinquished By: Date/Time:

Received By: *DROR OFF* Date/Time: 05-10-19 15:24
 Received By: *Jose Vargas pure* Date/Time: 5/11 8:05
 Received By: Date/Time:
 Received By: Date/Time:

PACE Project No. 40187464
 Receipt Temp = 5 °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact

Page 13 of 15

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite
Green Bay, WI 54304

Client Name: TQC

Project # 60187464

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):


Initial when completed:

Date/Time:

Pace Lab #	Glass							Plastic						Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)						
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T								ZPLC	GN				
001																																					2.5 / 5 / 10
002																																					2.5 / 5 / 10
003																																					2.5 / 5 / 10
004																																					2.5 / 5 / 10
005																																					2.5 / 5 / 10
006																																					2.5 / 5 / 10
007																																					2.5 / 5 / 10
008																																					2.5 / 5 / 10
009																																					2.5 / 5 / 10
010																																					2.5 / 5 / 10
011																																					2.5 / 5 / 10
012																																					2.5 / 5 / 10
013																																					2.5 / 5 / 10
014																																					2.5 / 5 / 10
015																																					2.5 / 5 / 10
016																																					2.5 / 5 / 10
017																																					2.5 / 5 / 10
018																																					2.5 / 5 / 10
019																																					2.5 / 5 / 10
020																																					2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	DG9A 40 mL amber ascorbic	JGFU 4 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP2N 500 mL plastic HNO3	DG9T 40 mL amber Na Thio	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP2Z 500 mL plastic NaOH, Znact	VG9U 40 mL clear vial unpres	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3U 250 mL plastic unpres	VG9H 40 mL clear vial HCL	
AG5U 100 mL amber glass unpres	BP3B 250 mL plastic NaOH	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG2S 500 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9D 40 mL clear vial DI	ZPLC ziploc bag
BG3U 250 mL clear glass unpres	BP3S 250 mL plastic H2SO4		GN:


 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: TAC
Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Project #: _____

WO# : 40187464



40187464

Tracking #: _____
Custody Seal on Cooler/Box Present: yes no **Seals intact:** yes no
Custody Seal on Samples Present: yes no **Seals intact:** yes no
Packing Material: Bubble Wrap Bubble Bags None Other _____
Thermometer Used SR-37 **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: 4.5 / ICorr: 5

Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no
 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

Person examining contents:
 Date: 5/11/2019
 Initials: SW

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4. <u>ERW 5/11/2019 SW</u>
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>S</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: Run for TR **Date:** 05/11/19

Attachment 3
Disposal Records



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	311		
3. Generator's Mailing Address: Covanta Environmental Solutions 5300 N 33 rd St Milwaukee WI 53209		Generator's Site Address (if different than mailing): Covanta Environmental Solutions 5300 N 33 rd St Milwaukee WI 53209		A. Manifest Number WMNA	01		
4. Generator's Phone (800) 842-9792		B. State Generator's ID					
5. Transporter 1 Company Name <i>COVANTA ENVIRONMENTAL SOLUTIONS</i>		6. US EPA ID Number <i>WI R000165399</i>		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address Deer Track Park/Madison Prairie/OrchardRidge N6756 Waldmann Lane Watertown, WI 53094		10. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility ID			
				H. State Facility Phone 920-699-3475			
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt /Vol.	15. Misc. Comments
	a. Concrete/Dirt		No.	Type			
	WM Profile # PCB115373WI		001	CM			14 Tons
	b. Waste Name						
	WM Profile #						
TRANSPORTER	c. Waste Name						
	WM Profile #						
	d. Waste Name						
	WM Profile #						
	1. Additional Descriptions for Materials Listed Above		K. Disposal Location				
BILL TO:		Cell		Level			
		Grid					
15. Special Handling Instructions and Additional Information							
Purchase Order #			EMERGENCY CONTACT / PHONE NO.: (800) 842-9792				
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name		Signature "On behalf of"			Month	Day	Year
FACILITY	17. Transporter 1 Acknowledgement of Receipt of Materials						
	Printed Name		Signature		Month	Day	Year
	<i>DARRIN M. RAKOWSKI</i>		<i>[Signature]</i>		5	22	19
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed Name		Signature		Month	Day	Year	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name		Signature			Month	Day	Year
<i>[Signature]</i>		<i>[Signature]</i>			05	22	19



Certificate of Destruction/Recycle

This document serves as the Certificate of Destruction/Recycle for the material received at Covanta Environmental Solutions, LLC, as indicated below:

Generator:	Madison Kipp Corporation 201 Waubesa St Madison, WI 53704
Manifest Document Number:	# WMNA01 of 5/22/19
Profile Number:	# 41461722 Construction, Concrete, Debris & Soil
Date Issued:	7/22/19

This certificate hereby certifies that the above-described material was handled in accordance with all required and applicable local, state and federal regulations.

By:  Date: July 22nd, 2019

Title: Vice President & General Manager, Central Region

Covanta Environmental Solutions, LLC
3216 West Villard Avenue
Milwaukee, WI 53200 | (800) 842-9792



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of /					
3. Generator's Mailing Address: Covanta Environmental Solutions 5300 N 33 rd St Milwaukee WI 53209		Generator's Site Address (if different than mailing): Covanta Environmental Solutions 5300 N 33 rd St Milwaukee WI 53209		A. Manifest Number WMNA 052919-01					
4. Generator's Phone (800) 842-9792		B. State Generator's ID							
5. Transporter 1 Company Name <i>Covanta Environmental Solutions</i>		6. US EPA ID Number <i>WI.R.000165399</i>		C. State Transporter's ID					
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone					
9. Designated Facility Name and Site Address Deer Track Park/Madison Prairie/OrchardRidge N6756 Waldmann Lane Watertown, WI 53094		10. US EPA ID Number		E. State Transporter's ID					
				F. Transporter's Phone					
				G. State Facility ID					
				H. State Facility Phone 920-699-3475					
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	1. Misc. Comments		
	a. Concrete/Dirt		001 CM			11.38	tons		
	WM Profile # PCB115373WI								
	b. Waste Name								
	WM Profile #								
TRANSPORTER	c. Waste Name								
	WM Profile #								
	d. Waste Name								
	WM Profile #								
	J. Additional Descriptions for Materials Listed Above		K. Disposal Location						
BILL TO:		Cell		Level					
		Grid							
15. Special Handling Instructions and Additional Information									
Purchase Order #			EMERGENCY CONTACT / PHONE NO.: (800) 842-9792						
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.									
Printed Name <i>Jacob Matzka</i>			Signature "On behalf of" <i>Jacob Matzka</i> Covanta Environmental			Month 05	Day 29	Year 19	
FACILITY	17. Transporter 1 Acknowledgement of Receipt of Materials			Signature <i>Darrin M. Rakowski</i>			Month 5	Day 29	Year 19
	Printed Name <i>DARRIN M. RAKOWSKI</i>			Signature <i>Darrin M. Rakowski</i>					
	18. Transporter 2 Acknowledgement of Receipt of Materials			Signature					
Printed Name			Signature						
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.									
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.									
Printed Name <i>A Kaiser</i>			Signature <i>A Kaiser</i>			Month 05	Day 29	Year 19	



Certificate of Destruction/Recycle

This document serves as the Certificate of Destruction/Recycle for the material received at Covanta Environmental Solutions, LLC, as indicated below:

Generator:	Madison Kipp Corporation 201 Waubesa St Madison, WI 53704
Manifest Document Number:	# WMNA052919-01 of 5/29/19
Profile Number:	# 41461722 Construction, Concrete, Debris & Soil
Date Issued:	7/22/19

This certificate hereby certifies that the above-described material was handled in accordance with all required and applicable local, state and federal regulations.

By:  Date: July 22nd, 2019

Title: Vice President & General Manager, Central Region

Covanta Environmental Solutions, LLC
3216 West Villard Avenue
Milwaukee, WI 53200 | (800) 842-9792