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Subject:

Building Interior Polychlorinated Biphenyl (PCB) Supplemental Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin. Facility ID No. 113125320, BRRTS No. 02-13-001569

ENVIRONMENT

Date:

February 15, 2016

Dear Mr. Schmoller:

Contact:

Jennine Trask

On behalf of Madison-Kipp Corporation (MKC), this letter provides a summary of the supplemental sampling and floor coating activities, analytical results, and recommendations for PCBs within the manufacturing portion of the MKC facility located at 201 Waubesa Street, Madison, Wisconsin (Site).

Phone:

414.277.6203

A Natural Resources 712.09 submittal certification is included in Attachment A.

Email:

Jennine.trask  
@arcadis.com

## BACKGROUND

Our ref:

WI001368.0029

A Supplemental Building Interior Polychlorinated Biphenyl Work Plan Subsurface Investigation Summary was submitted to the Wisconsin Department of Natural Resources (WDNR) and United States Environmental Protection Agency (U.S. EPA) on April 22, 2014, to provide details of the investigation activities completed within the MKC building from December 2013 through February 2014. On August 27, 2014, ARCADIS met with the WDNR and U.S. EPA to discuss the next steps for addressing the soils containing PCBs beneath the building. At this meeting, U.S. EPA requested the completion of indoor air and surface wipe sampling activities, a technical justification submittal for management of PCB contaminated soils beneath the building, and additional soil investigation activities for beneath the building.

On October 22, 2014, a *Technical Justification – Polychlorinated Biphenyl (PCB)-Impacted Soils Beneath the Main Manufacturing Building* (Technical Justification)

was submitted to the WDNR. The Technical Justification included the *Supplemental Work Plan for Polychlorinated Biphenyl Building Subsurface Investigation* (Subsurface Work Plan) as an attachment. On November 4, 2014, a *Work Plan for Polychlorinated Biphenyl Building Wipe Sampling* (Wipe Sampling Work Plan) was submitted to the WDNR and U.S. EPA for approval. The WDNR approved the Wipe Sampling Work Plan in electronic correspondence dated December 8, 2014.

On December 17, 2014, MKC met with the WDNR and U.S. EPA (via telephone) to discuss the Technical Justification, Subsurface Work Plan, and Wipe Sampling Work Plan submittals. During this meeting, U.S. EPA requested continuous soil sampling during the additional soil investigation, PCB homolog analysis for select soil sample locations, and installation and sampling of one monitoring well within the building as part of the Subsurface Work Plan. In addition, U.S. EPA requested preparation and submittal of a Quality Assurance Project Plan (QAPP) for the Wipe Sampling Work Plan. On December 18, 2014, ARCADIS, WDNR, and U.S. EPA participated in a conference call to discuss the proposed QAPP requirements.

Based on the December 17 and 18, 2014, communications, the Subsurface Work Plan was revised and submitted to the WDNR and U.S. EPA on January 22, 2015, and the *Quality Assurance Project Plan Building Interior Polychlorinated Biphenyl Wipe Sampling* (Wipe Sampling QAPP) was submitted to the WDNR and U.S. EPA on February 19, 2015. The Subsurface Work Plan was approved by WDNR in electronic correspondence dated January 23, 2015. The Wipe Sampling QAPP was approved by U.S. EPA in electronic correspondence dated February 25, 2015.

On April 21, 2015, a *Building Interior Polychlorinated Biphenyl Investigation Summary* (April 2015 Summary Report) was submitted to the WDNR to provide details of the investigations completed in March and April 2015. On April 23, 2015, MKC and ARCADIS met with the WDNR at the MKC facility and U.S. EPA (via telephone) to discuss the April 2015 Summary Report. During this meeting, U.S. EPA recommended additional wipe and indoor air sampling activities.

On June 10, 2015, MKC and ARCADIS met with the WDNR and U.S. EPA (via telephone) to discuss additional wipe and indoor air sampling activities recommended during the April 23, 2015, meeting. On June 16, 2015, a *Work Plan-Building Interior Polychlorinated Biphenyl Supplemental Sampling* (Supplemental Work Plan) was submitted to the WDNR and U.S. EPA for approval. The Supplemental Work Plan was approved by U.S. EPA via telephone on July 15, 2015.

On October 12, 2015, a *Building Interior Polychlorinated Biphenyl Investigation Summary* (October 2015 Summary Report) was submitted to the WDNR to provide details of the floor cleaning and coating activities, PCB awareness program, wipe sampling activities completed in July 2015, and summer indoor air sampling activities completed in August 2015.

This letter documents the subsequent activities completed through January 2016 in accordance with the Supplemental Work Plan.

## INDOOR AIR SAMPLING

Per the request of U.S. EPA and in accordance with the approved Supplemental Work Plan, an additional indoor air sampling event was conducted by MKC within the manufacturing building. Three indoor air samples were collected from the same three locations identified during the April and August 2015 sampling activities. The winter sampling event was conducted on January 12, 2016, when outdoor temperatures were less than 10 degrees Fahrenheit. It should be noted that the outdoor temperatures were between 1 and 7 degrees Fahrenheit. The indoor air sample locations are presented on Figure 1.

The three indoor air samples were collected for analysis of PCB Aroclors by EPA Method TO-10A. The indoor air samples were collected over an eight hour timeframe with low-volume air samplers and polyurethane foam sorbent cartridges.

After collection, the indoor air samples were packaged, placed in a cooler with ice, and submitted to Pace Analytical Services, Inc. in Schenectady, New York for PCB Aroclor analysis by Method TO-10A. The cooler submittal also included laboratory-provided trip blank and field spike samples. The field spike sample was prepared by the laboratory with 1 microgram of Aroclor 1242 and included in a separate, sealed cooler with the original shipment of sampling media. The field spike sample remained packaged and in the separate cooler during the sampling event. The field spike was analyzed by the laboratory to determine if the specific Aroclor that was used for spiking was adequately recovered.

## FLOOR COATING ACTIVITIES

The final floor coating activity was completed in select areas of the Grid 4 (Figure 1) area during the week of November 23, 2015. The activity was conducted in accordance with the U.S. EPA-approved method of using a urethane fortified cementitious coating. The select floor area was power-washed and scarified as necessary prior to applying the coating. One coat was applied via hand-trowels and is ¼-inch in thickness. MKC personnel will inspect the floor coating on a monthly basis to verify coating is intact and in good condition.

## EVALUATION OF RESULTS AND RECOMMENDATIONS

The following sections present a summary of the regulatory criteria, analytical results, and recommendations.

### Regulatory Criteria

The analytical results of the indoor air samples were compared to the U.S. EPA Site-specific calculated standard of 0.21 microgram per cubic meter for an industrial/commercial setting. The Site-specific calculated standard is based on the potential cancer risk for an adult worker. This criteria is summarized in Table 1.

### Indoor Air Analytical Results

The results of the indoor air samples collected on January 12, 2016, were below the criteria in all three samples. A summary of the indoor air analytical results is presented in Table 1 and the laboratory report is provided in Attachment B.

### Recommendations

All activities associated with the Supplemental Work Plan have been completed and satisfy the WDNR and U.S. EPA requirements. We request concurrence that no further actions are required related to the Supplemental Work Plan and PCBs in the interior of the MKC facility.

### CLOSING

If you have any questions regarding this letter, please contact us at (414) 276-7742.

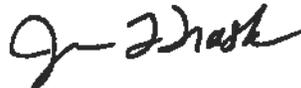
Sincerely,  
Arcadis U.S., Inc.



Trena Seilheimer  
Senior Scientist



Christopher D. Kubacki, PE  
Senior Engineer



Jennine L. Trask, PE  
Project Manager

Electronic Copies:

David Crass – Michael Best  
Tony Koblinski – Madison-Kipp  
Alina Satkoski – Madison-Kipp  
Kenneth Zolnierczyk – U.S. EPA

Enclosures:

**Table**

1 Summary of Interior Building Indoor Air Analytical Results

**Figure**

1 Indoor Air Sampling Locations and Approximate Floor Coating Footprint

**Attachments**

A Submittal Certification  
B Laboratory Report

# Table



**Table 1**  
**Summary of Interior Building Indoor Air Analytical Results**  
**Building Interior Polychlorinated Biphenyl Supplemental Investigation Summary**  
**201 Waubesa Street**  
**Madison-Kipp Corporation**  
**Madison, Wisconsin**

Grid I.D.	U.S. EPA	Grid 3	Grid 1	Grid 7
Sample I.D.	Site-Specific	MKC-AIR01	MKC-AIR02	MKC-AIR03
Sample Date	Value	1/12/2016	1/12/2016	1/12/2016
<b>PCBs</b>				
Aroclor 1016	--	<0.0417	<0.0417	<0.0417
Aroclor 1221	--	<0.0417	<0.0417	<0.0417
Aroclor 1232	--	<0.0417	<0.0417	<0.0417
Aroclor 1242	--	0.139	<0.0417	<0.0417
Aroclor 1248	--	<0.0417	<0.0417	<0.0417
Aroclor 1254	--	<0.0417	<0.0417	<0.0417
Aroclor 1260	--	<0.0417	<0.0417	<0.0417
Total Aroclor PCBs	0.21	0.139	ND	ND

**General Note:**

Constituent concentrations are reported as microgram per cubic meter ( $\mu\text{g}/\text{m}^3$ ).

**Acronyms and Abbreviations:**

< = Constituent not detected above noted laboratory detection limit

-- = Criteria not established

ND = Constituent not detected above noted laboratory detection limit of individual analytes

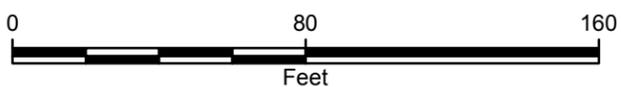
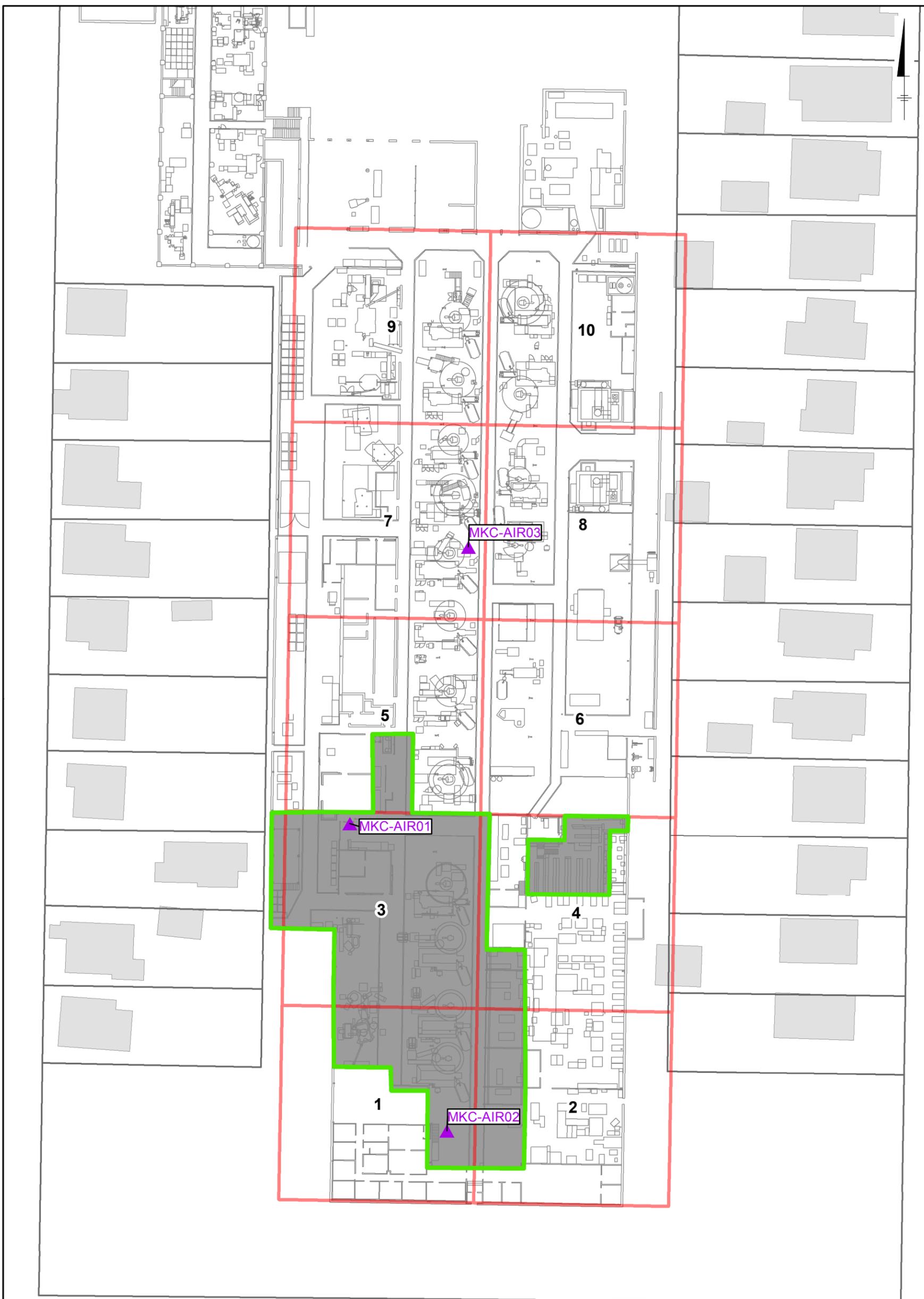
PCB = Polychlorinated biphenyl

U.S. EPA United States Environmental Protection Agency

**Figure**



CITY: MKE DIV/ GROUP: IM\_DB: GM\_LD: CK MADISON-KIPP  
Z:\GIS\PROJECTS\_LENV\MadisonKipp\Map2016-02\InteriorWipe\_FloorCoating\_20160208.mxd



**LEGEND**

-  INDOOR AIR SAMPLING LOCATION
-  APPROXIMATE FLOOR COATING FOOTPRINT
-  100' GRID
-  PLANT LAYOUT
-  BUILDING FOOTPRINTS
-  PARCELS

MADISON-KIPP CORPORATION  
201 WAUBESA STREET  
MADISON, WISCONSIN

**INDOOR AIR SAMPLING LOCATIONS AND  
APPROXIMATE FLOOR COATING FOOTPRINT**



FIGURE  
**1**

# ATTACHMENT A

Submittal Certification



**Submittal Certification**

This attachment was prepared to satisfy the requirements of Wisconsin Administrative Code Chapter NR 712.09 and is applicable to the following document.

**Building Interior Polychlorinated Biphenyl (PCB) Supplemental Investigation Summary  
Madison-Kipp Corporation  
201 Waubesa Street  
Madison, Wisconsin**

I, Jennine Trask, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Jennine Trask cpm #34959  
Signature, title and P.E. number



I, \_\_\_\_\_, hereby certify that I am a scientist as that term is defined in s. NR 712.03 (3), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

\_\_\_\_\_  
Signature and title

\_\_\_\_\_  
Date

# ATTACHMENT B

Laboratory Reports



***Pace Analytical e-Report***

**Report prepared for:**

ARCADIS  
126 N. JEFFERSON ST #400  
MILWAUKEE, WI 53202  
CONTACT: JENNINE TRASK

-----  
**Project ID:** WI001368.0028.00001 MADISON KIPP

**Sampling Date(s):** January 12, 2016

**Lab Report ID:** 16010182

**Client Service Contact:** Chelsea Farmer (518) 346-4592 ext. 3843

-----  
**Analysis Included:**

PCB Analysis (TO-10A)

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Roy Smith  
Technical Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337),  
Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308  
Phone: 518.346.4592 | internet: [www.pacelabs.com](http://www.pacelabs.com)

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# CASE NARRATIVE

January 27, 2016

CASE NARRATIVE

This data package (SDG ID: 16010182) consists of 5 polyurethane foam samples received on 01/13/2016. The samples are from Project Name: WI001368.0028.00001 MADISON KIPP.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AT00531	MKC-AIR01	01/12/2016 15:26
AT00532	MKC-AIR02	01/12/2016 15:35
AT00533	MKC-AIR03	01/12/2016 15:46
AT00534	TRIP BLANK	01/12/2016
AT00535	FIELD SPIKE	01/12/2016

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via UPS delivery service on 01/13/2016.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by EPA Method TO-10A with Dual GC Column Analysis. Samples were extracted by Method TO-10A. The following technical and administrative items were noted for the analysis:

- (1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Respectfully submitted,



Chelsea L. Farmer  
Project Manager

# QUALIFIERS

## Definitions

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Adjusted Method Detection Limit.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. PQLs are adjusted for sample weight/volume and dilution factors.

RL - Reporting Limit Denotes lowest analyte concentration reportable for the sample based on regulatory or project specific limits.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

\* - Value not within control limits.

# SAMPLE CHAIN OF CUSTODY





### Sample Condition Upon Receipt

CLIENT NAME: ARC-WI  
PROJECT: 60 W1001368.0028.00001  
*2/10/16*

COURIER: FedEx  UPS  Client  Pace  Other

TRACKING # J454 310 4994

CUSTODY SEAL PRESENT: Yes  No  INTACT: Yes  No  N/A

PACKING MATERIAL: Bubble Wrap  Bubble Bags  None  Other

ICE USED: Wet  Blue  None

THERMOMETER USED: #164  IR Gun 03  #122087967

COOLER TEMPERATURE (°C): 2.0

BIOLOGICAL TISSUE IS FROZEN: Yes  No  N/A

Temp should be above freezing to 6°C

COMMENTS:

Temperature is Acceptable?  Yes  No

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. "Trip blank" and "Field Spike" missing matrix, sample type,
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3. collection date, and requested analyses.
Sampler Name / Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
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	
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	12. No information on client label for sample
- Includes date/time/ID/Analysis		Trip Blank and Field spike.
All containers needing preservation have been checked:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are in compliance with EPA recommendation:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
- Exceptions that are not checked: TOC, VOA, Subcontract Analyses		Initial when completed: <u>Wt</u>
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Lot # of added preservative: <u>Wt</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Pace Trip Blank Lot #: <u>Wt</u>		

Sample Receipt form filled in: KAC 1/13/16

Line-Out (Includes Copying Shipping Documents and verifying sample pH):

Log In (Includes notifying PM of any discrepancies and documenting in LIMS):

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):

PAW 1/13/16  
PAW 1/13/16  
PAW 1/13/16

# SAMPLE RECEIPT



# SAMPLE RECEIPT REPORT

## 16010182

**Pace Analytical Services, Inc.**  
2190 Technology Drive  
Schenectady, NY 12308  
Phone: 518.346.4592  
Fax: 518.381.6055

**CLIENT:** ARCADIS  
**PROJECT:** W1001368.0028.00001 MADISON KIPP  
**LRF:** 16010182  
**REPORT:** ANALYTICAL REPORT  
**EDD:** YES  
**LRF TAT:** 2 WEEK

**RECEIVED DATE:** 01/13/2016 10:20  
**SHIPPED VIA:** UPS  
**SHIPPING ID:** J4543104494  
**NUMBER OF COOLERS:** 1  
**CUSTODY SEAL INTACT:** YES  
**COOLER STATUS:** CHILLED  
**TEMPERATURE(S):** 5.0 °C

**SAMPLE SEALS INTACT:** NA  
**SAMPLES PRESERVED PER METHOD GUIDANCE:** YES  
**SAMPLES REC'D IN HOLDTIME:** YES  
**DISPOSAL:** BY LAB (45 DAYS)  
**COC DISCREPANCY:** YES

**COMMENTS:**  
TRIP BLANK AND FIELD SPIKE MISSING MATRIX, SAMPLE TYPE, COLLECTION DATE AND REQUESTED ANALYSES.  
NO INFORMATION ON CLIENT LABEL FOR SAMPLE "TRIP BLANK" AND "FIELD SPIKE".

CLIENT ID (LAB ID)	TAT-DUE Date <sup>4</sup>	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
MKC-AIR01 (AT00531)	2 WEEK 01-27-16	01/12/2016 15:26	PF10	EPA TO-10A	PCB Analysis (TO-10A)	
MKC-AIR02 (AT00532)	2 WEEK 01-27-16	01/12/2016 15:35	PF10	EPA TO-10A	PCB Analysis (TO-10A)	
MKC-AIR03 (AT00533)	2 WEEK 01-27-16	01/12/2016 15:46	PF10	EPA TO-10A	PCB Analysis (TO-10A)	
TRIP BLANK (AT00534)	2 WEEK 01-27-16	01/12/2016	PF10	EPA TO-10A	PCB Analysis (TO-10A)	
FIELD SPIKE (AT00535)	2 WEEK 01-27-16	01/12/2016	PF10	EPA TO-10A	PCB Analysis (TO-10A)	

<sup>1</sup>The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.  
<sup>2</sup>The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.  
<sup>3</sup>Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.  
<sup>4</sup>Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made. The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.  
<sup>5</sup>All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.  
<sup>6</sup>Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

### Reporting Parameters and Lists

EPA TO-10A - PCB Analysis (TO-10A) - (ug)

- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount > RL

EPA TO-10A - PCB Analysis (TO-10A) - (ug/m3)

- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount > RL

# GC - PCB



# Analytical Sample Results

Job Number: 16010182

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** ARCADIS  
**Project:** WI001368.0028.00001 MADISON KIPP  
**Client Sample ID:** MKC-AIR01  
**Lab Sample ID:** 16010182-01 (AT00531)

**Collection Date:** 01/12/2016 15:26  
**Sample Matrix:** POLYURETHANE FOAM  
**Received Date:** 01/13/2016 10:20  
**Percent Solid:** N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10B-1617-23	EPA Method TO-10A	01/15/2016 16:36	JKA	NA	NA	Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	33249	TO-10A	01/14/2016 15:30	MH	2.40m <sup>3</sup>	5.00 mL	NA

Analyte	CAS No.	Result (ug/m <sup>3</sup> )	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0417	1.00	U	GC10B-1617-23
Aroclor 1221	11104-28-2	ND	0.0417	1.00	U	GC10B-1617-23
Aroclor 1232	11141-16-5	ND	0.0417	1.00	U	GC10B-1617-23
Aroclor 1242	53469-21-9	<b>0.139</b>	0.0417	1.00		GC10B-1617-23
Aroclor 1248	12672-29-6	ND	0.0417	1.00	U	GC10B-1617-23
Aroclor 1254	11097-69-1	ND	0.0417	1.00	U	GC10B-1617-23
Aroclor 1260	11096-82-5	ND	0.0417	1.00	U	GC10B-1617-23
Total PCB Amount > RL	1336-36-3	<b>0.139</b>		1.00		GC10B-1617-23

Surrogate	CAS No.	% Recovery	Limits (%)	Q <sup>1</sup>	File ID
Tetrachloro-meta-xylene	877-09-8	91.5	60.0-120		GC10F-1631-23
Decachlorobiphenyl	2051-24-3	109	60.0-120		GC10F-1631-23
Tetrachloro-meta-xylene	877-09-8	98.0	60.0-120		GC10B-1617-23
Decachlorobiphenyl	2051-24-3	114	60.0-120		GC10B-1617-23

<sup>1</sup>Qualifier column where '\*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Note: Concentration results based upon client supplied air volumes.



# Analytical Sample Results

**Job Number:** 16010182

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** ARCADIS  
**Project:** WI001368.0028.00001 MADISON KIPP  
**Client Sample ID:** MKC-AIR02  
**Lab Sample ID:** 16010182-02 (AT00532)

**Collection Date:** 01/12/2016 15:35  
**Sample Matrix:** POLYURETHANE FOAM  
**Received Date:** 01/13/2016 10:20  
**Percent Solid:** N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1631-24	EPA Method TO-10A	01/15/2016 16:48	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	33249	TO-10A	01/14/2016 15:30	MH	2.40m <sup>3</sup>	5.00 mL	NA

Analyte	CAS No.	Result (ug/m <sup>3</sup> )	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0417	1.00	U	GC10F-1631-24
Aroclor 1221	11104-28-2	ND	0.0417	1.00	U	GC10F-1631-24
Aroclor 1232	11141-16-5	ND	0.0417	1.00	U	GC10F-1631-24
Aroclor 1242	53469-21-9	ND	0.0417	1.00	U	GC10F-1631-24
Aroclor 1248	12672-29-6	ND	0.0417	1.00	U	GC10F-1631-24
Aroclor 1254	11097-69-1	ND	0.0417	1.00	U	GC10F-1631-24
Aroclor 1260	11096-82-5	ND	0.0417	1.00	U	GC10F-1631-24
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1631-24

Surrogate	CAS No.	% Recovery	Limits (%)	Q <sup>1</sup>	File ID
Tetrachloro-meta-xylene	877-09-8	90.0	60.0-120		GC10F-1631-24
Decachlorobiphenyl	2051-24-3	102	60.0-120		GC10F-1631-24
Tetrachloro-meta-xylene	877-09-8	94.7	60.0-120		GC10B-1617-24
Decachlorobiphenyl	2051-24-3	115	60.0-120		GC10B-1617-24

<sup>1</sup>Qualifier column where '\*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Note: Concentration results based upon client supplied air volumes.



## Analytical Sample Results

Job Number: 16010182

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** ARCADIS  
**Project:** WI001368.0028.00001 MADISON KIPP  
**Client Sample ID:** MKC-AIR03  
**Lab Sample ID:** 16010182-03 (AT00533)

**Collection Date:** 01/12/2016 15:46  
**Sample Matrix:** POLYURETHANE FOAM  
**Received Date:** 01/13/2016 10:20  
**Percent Solid:** N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1631-25	EPA Method TO-10A	01/15/2016 17:01	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	33249	TO-10A	01/14/2016 15:30	MH	2.40m <sup>3</sup>	5.00 mL	NA

Analyte	CAS No.	Result (ug/m <sup>3</sup> )	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0417	1.00	U	GC10F-1631-25
Aroclor 1221	11104-28-2	ND	0.0417	1.00	U	GC10F-1631-25
Aroclor 1232	11141-16-5	ND	0.0417	1.00	U	GC10F-1631-25
Aroclor 1242	53469-21-9	ND	0.0417	1.00	U	GC10F-1631-25
Aroclor 1248	12672-29-6	ND	0.0417	1.00	U	GC10F-1631-25
Aroclor 1254	11097-69-1	ND	0.0417	1.00	U	GC10F-1631-25
Aroclor 1260	11096-82-5	ND	0.0417	1.00	U	GC10F-1631-25
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1631-25

Surrogate	CAS No.	% Recovery	Limits (%)	Q <sup>1</sup>	File ID
Tetrachloro-meta-xylene	877-09-8	82.6	60.0-120		GC10F-1631-25
Decachlorobiphenyl	2051-24-3	101	60.0-120		GC10F-1631-25
Tetrachloro-meta-xylene	877-09-8	87.4	60.0-120		GC10B-1617-25
Decachlorobiphenyl	2051-24-3	111	60.0-120		GC10B-1617-25

<sup>1</sup>Qualifier column where '\*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Note: Concentration results based upon client supplied air volumes.



# Analytical Sample Results

**Job Number:** 16010182

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** ARCADIS  
**Project:** WI001368.0028.00001 MADISON KIPP  
**Client Sample ID:** TRIP BLANK  
**Lab Sample ID:** 16010182-04 (AT00534)

**Collection Date:** 01/12/2016  
**Sample Matrix:** POLYURETHANE FOAM  
**Received Date:** 01/13/2016 10:20  
**Percent Solid:** N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1631-26	EPA Method TO-10A	01/15/2016 17:13	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	33249	TO-10A	01/14/2016 15:30	MH	0.00m <sup>3</sup>	5.00 mL	NA

Analyte	CAS No.	Result (ug)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.100	1.00	U	GC10F-1631-26
Aroclor 1221	11104-28-2	ND	0.100	1.00	U	GC10F-1631-26
Aroclor 1232	11141-16-5	ND	0.100	1.00	U	GC10F-1631-26
Aroclor 1242	53469-21-9	ND	0.100	1.00	U	GC10F-1631-26
Aroclor 1248	12672-29-6	ND	0.100	1.00	U	GC10F-1631-26
Aroclor 1254	11097-69-1	ND	0.100	1.00	U	GC10F-1631-26
Aroclor 1260	11096-82-5	ND	0.100	1.00	U	GC10F-1631-26
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1631-26

Surrogate	CAS No.	% Recovery	Limits (%)	Q <sup>1</sup>	File ID
Tetrachloro-meta-xylene	877-09-8	92.3	60.0-120		GC10F-1631-26
Decachlorobiphenyl	2051-24-3	108	60.0-120		GC10F-1631-26
Tetrachloro-meta-xylene	877-09-8	89.7	60.0-120		GC10B-1617-26
Decachlorobiphenyl	2051-24-3	113	60.0-120		GC10B-1617-26

<sup>1</sup>Qualifier column where '\*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



## Analytical Sample Results

Job Number: 16010182

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** ARCADIS  
**Project:** WI001368.0028.00001 MADISON KIPP  
**Client Sample ID:** FIELD SPIKE  
**Lab Sample ID:** 16010182-05 (AT00535)

**Collection Date:** 01/12/2016  
**Sample Matrix:** POLYURETHANE FOAM  
**Received Date:** 01/13/2016 10:20  
**Percent Solid:** N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10B-1617-27	EPA Method TO-10A	01/15/2016 17:26	JKA	NA	NA	Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	33249	TO-10A	01/14/2016 15:30	MH	0.00m <sup>3</sup>	5.00 mL	NA

Analyte	CAS No.	Result (ug)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.100	1.00	U	GC10B-1617-27
Aroclor 1221	11104-28-2	ND	0.100	1.00	U	GC10B-1617-27
Aroclor 1232	11141-16-5	ND	0.100	1.00	U	GC10B-1617-27
Aroclor 1242	53469-21-9	<b>0.993</b>	0.100	1.00		GC10B-1617-27
Aroclor 1248	12672-29-6	ND	0.100	1.00	U	GC10B-1617-27
Aroclor 1254	11097-69-1	ND	0.100	1.00	U	GC10B-1617-27
Aroclor 1260	11096-82-5	ND	0.100	1.00	U	GC10B-1617-27
Total PCB Amount > RL	1336-36-3	<b>0.993</b>		1.00		GC10B-1617-27

Surrogate	CAS No.	% Recovery	Limits (%)	Q <sup>1</sup>	File ID
Tetrachloro-meta-xylene	877-09-8	90.8	60.0-120		GC10F-1631-27
Decachlorobiphenyl	2051-24-3	101	60.0-120		GC10F-1631-27
Tetrachloro-meta-xylene	877-09-8	92.5	60.0-120		GC10B-1617-27
Decachlorobiphenyl	2051-24-3	108	60.0-120		GC10B-1617-27

<sup>1</sup>Qualifier column where '\*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

# Quality Control Samples (Lab)



**Quality Control Results  
Method Blank**

**Job Number:** 16010182

**Pace Analytical Services, Inc.**  
2190 Technology Drive  
Schenectady, NY 12308  
Phone: 518.346.4592  
Fax: 518.381.6055

**Client:** ARCADIS  
**Project:** WI001368.0028.00001 MADISON KIPP  
**Client Sample ID:** Method Blank (AT00531B)  
**Lab Sample ID:** PBLK-81

**Collection Date:** N/A  
**Sample Matrix:** POLYURETHANE FOAM  
**Received Date:** N/A  
**Percent Solid:** N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10B-1617-20	EPA Method TO-10A	01/15/2016 15:58	JKA	NA	NA	Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	33249	TO-10A	01/14/2016 15:30	MH	0.00m <sup>3</sup>	5.00 mL	NA

Analyte	CAS No.	Result (ug)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.100	1.00	U	GC10B-1617-20
Aroclor 1221	11104-28-2	ND	0.100	1.00	U	GC10B-1617-20
Aroclor 1232	11141-16-5	ND	0.100	1.00	U	GC10B-1617-20
Aroclor 1242	53469-21-9	ND	0.100	1.00	U	GC10B-1617-20
Aroclor 1248	12672-29-6	ND	0.100	1.00	U	GC10B-1617-20
Aroclor 1254	11097-69-1	ND	0.100	1.00	U	GC10B-1617-20
Aroclor 1260	11096-82-5	ND	0.100	1.00	U	GC10B-1617-20
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10B-1617-20

Surrogate	CAS No.	% Recovery	Limits (%)	Q <sup>1</sup>	File ID
Tetrachloro-meta-xylene	877-09-8	89.9	60.0-120		GC10B-1617-20
Decachlorobiphenyl	2051-24-3	108	60.0-120		GC10B-1617-20

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Quality Control Results  
Method Blank**

**Job Number:** 16010182

**Pace Analytical Services, Inc.**  
2190 Technology Drive  
Schenectady, NY 12308  
Phone: 518.346.4592  
Fax: 518.381.6055

**Client:** ARCADIS  
**Project:** WI001368.0028.00001 MADISON KIPP  
**Client Sample ID:** Method Blank (AT00531B)  
**Lab Sample ID:** PBLK-81

**Collection Date:** N/A  
**Sample Matrix:** POLYURETHANE FOAM  
**Received Date:** N/A  
**Percent Solid:** N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1631-20	EPA Method TO-10A	01/15/2016 15:58	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	33249	TO-10A	01/14/2016 15:30	MH	0.00m <sup>3</sup>	5.00 mL	NA

Analyte	CAS No.	Result (ug)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.100	1.00	U	GC10F-1631-20
Aroclor 1221	11104-28-2	ND	0.100	1.00	U	GC10F-1631-20
Aroclor 1232	11141-16-5	ND	0.100	1.00	U	GC10F-1631-20
Aroclor 1242	53469-21-9	ND	0.100	1.00	U	GC10F-1631-20
Aroclor 1248	12672-29-6	ND	0.100	1.00	U	GC10F-1631-20
Aroclor 1254	11097-69-1	ND	0.100	1.00	U	GC10F-1631-20
Aroclor 1260	11096-82-5	ND	0.100	1.00	U	GC10F-1631-20
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1631-20

Surrogate	CAS No.	% Recovery	Limits (%)	Q <sup>1</sup>	File ID
Tetrachloro-meta-xylene	877-09-8	95.1	60.0-120		GC10F-1631-20
Decachlorobiphenyl	2051-24-3	114	60.0-120		GC10F-1631-20

<sup>1</sup>Qualifier column where <sup>\*</sup> denotes value outside the control limits or <sup>D</sup> denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Quality Control Results  
Lab Control Sample (LCS)**  
Job Number: 16010182

**Pace Analytical Services, Inc.**  
2190 Technology Drive  
Schenectady, NY 12308  
Phone: 518.346.4592  
Fax: 518.381.6055

**Client:** ARCADIS  
**Project:** WI001368.0028.00001 MADISON KIPP  
**Client Sample ID:** Lab Control Sample (AT00531L)  
**Lab Sample ID:** LCS-81

**Collection Date:** N/A  
**Sample Matrix:** POLYURETHANE FOAM  
**Received Date:** N/A  
**Percent Solid:** N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10B-1617-21	EPA Method TO-10A	01/15/2016 16:10	JKA	NA	NA	Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	33249	TO-10A	01/14/2016 15:30	MH	0.00m <sup>3</sup>	5.00 mL	NA

Analyte Spiked	CAS No.	Added (ug)	LCS (ug)	LCS % Rec.	Q <sup>1</sup>	Limits (%)
Aroclor 1242	53469-21-9	1.00	1.04	104		70.0-130

<sup>1</sup>Qualifier column where '\*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q <sup>1</sup>	File ID
Tetrachloro-meta-xylene	877-09-8	98.4	60.0-120		GC10B-1617-21
Decachlorobiphenyl	2051-24-3	113	60.0-120		GC10B-1617-21

<sup>1</sup>Qualifier column where '\*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Quality Control Results  
Lab Control Sample (LCS)**  
Job Number: 16010182

**Pace Analytical Services, Inc.**  
2190 Technology Drive  
Schenectady, NY 12308  
Phone: 518.346.4592  
Fax: 518.381.6055

**Client:** ARCADIS  
**Project:** WI001368.0028.00001 MADISON KIPP  
**Client Sample ID:** Lab Control Sample (AT00531L)  
**Lab Sample ID:** LCS-81

**Collection Date:** N/A  
**Sample Matrix:** POLYURETHANE FOAM  
**Received Date:** N/A  
**Percent Solid:** N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1631-21	EPA Method TO-10A	01/15/2016 16:10	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	33249	TO-10A	01/14/2016 15:30	MH	0.00m <sup>3</sup>	5.00 mL	NA

Analyte Spiked	CAS No.	Added (ug)	LCS (ug)	LCS % Rec.	Q <sup>1</sup>	Limits (%)
Aroclor 1242	53469-21-9	1.00	0.920	92.0		70.0-130

<sup>1</sup>Qualifier column where '\*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q <sup>1</sup>	File ID
Tetrachloro-meta-xylene	877-09-8	90.0	60.0-120		GC10F-1631-21
Decachlorobiphenyl	2051-24-3	103	60.0-120		GC10F-1631-21

<sup>1</sup>Qualifier column where '\*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Quality Control Results**  
**Lab Control Sample - Duplicate (LCSD)**  
**Job Number: 16010182**

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** ARCADIS  
**Project:** WI001368.0028.00001 MADISON KIPP  
**Client Sample ID:** Lab Control Sample - Duplicate (AT00531S)  
**Lab Sample ID:** LCSD-81

**Collection Date:** N/A  
**Sample Matrix:** POLYURETHANE FOAM  
**Received Date:** N/A  
**Percent Solid:** N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10B-1617-22	EPA Method TO-10A	01/15/2016 16:23	JKA	NA	NA	Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	33249	TO-10A	01/14/2016 15:30	MH	0.00m <sup>3</sup>	5.00 mL	NA

Analyte Spiked	CAS No.	Added (ug)	LCSD (ug)	LCSD % Rec.	Q <sup>1</sup>	Limits (%)	Precision		
							LCS % Rec.	RPD	Q <sup>1</sup>
Aroclor 1242	53469-21-9	1.00	1.05	105		70.0-130	104	0.957	20

<sup>1</sup>Qualifier column where '\*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q <sup>1</sup>	File ID
Tetrachloro-meta-xylene	877-09-8	95.4	60.0-120		GC10B-1617-22
Decachlorobiphenyl	2051-24-3	110	60.0-120		GC10B-1617-22

<sup>1</sup>Qualifier column where '\*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Quality Control Results**  
**Lab Control Sample - Duplicate (LCSD)**  
**Job Number: 16010182**

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** ARCADIS  
**Project:** WI001368.0028.00001 MADISON KIPP  
**Client Sample ID:** Lab Control Sample - Duplicate (AT00531S)  
**Lab Sample ID:** LCSD-81

**Collection Date:** N/A  
**Sample Matrix:** POLYURETHANE FOAM  
**Received Date:** N/A  
**Percent Solid:** N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1631-22	EPA Method TO-10A	01/15/2016 16:23	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	33249	TO-10A	01/14/2016 15:30	MH	0.00m <sup>3</sup>	5.00 mL	NA

Analyte Spiked	CAS No.	Added (ug)	LCSD (ug)	LCSD % Rec.	Q <sup>1</sup>	Limits (%)	Precision		
							LCS % Rec.	RPD	Q <sup>1</sup>
Aroclor 1242	53469-21-9	1.00	0.956	95.6		70.0-130	92.0	3.84	20

<sup>1</sup>Qualifier column where '\*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q <sup>1</sup>	File ID
Tetrachloro-meta-xylene	877-09-8	87.5	60.0-120		GC10F-1631-22
Decachlorobiphenyl	2051-24-3	102	60.0-120		GC10F-1631-22

<sup>1</sup>Qualifier column where '\*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.