ERM

7311 W Greenfield Ave
West Allis, WI
53214

Telephone: +1 414 289 9505
Fax: +1 414 289 9552

www.erm.com

22 August 2023

Mr. Tauren R. Beggs
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
2984 Shawano Ave
Green Bay, WI 54313

Reference: 0383990

Subject: Additional Site Investigation Results (PCBs)
Former Hamilton Industries Site, BRRTS Activity #02-36-578316

This memorandum provides a summary of additional site investigation activities at the Thermo Fisher property located in Two Rivers, Wisconsin. The scope of the additional site investigation was based on the 2022 Work Plan Addendum II – Pre-Design Groundwater and Soil Investigation ("Work Plan") submitted to the Wisconsin Department of Natural Resources (WDNR) on August 30, 2022. The scope of work was prepared following a WDNR response letter dated May 4, 2022. The WDNR requested additional investigation of polychlorinated biphenyls (PCBs) associated with transformers and building materials near former soil borings SB-06 and SB-07 to define the degree and extent of polychlorinated biphenyls (PCB) soil impacts.

This letter report presents the results and findings of the above investigation activities performed in response to the WDNR request.

1. SOIL ASSESSMENT ACTIVITIES

In August 2022 and April 2023, ERM conducted a soil assessment to assess the extent of the COCs in soil located near the previously sampled borings SB-6 and SB-7.

1.1 Soil Sampling Summary

Five (5) soil borings were advanced in November 2021 to assess general soil conditions and evaluate whether PCBs impacted the subsurface. Subsequently, sixteen (16) additional soil borings (SB-10 through SB-17 and SB-19 through SB-26) were advanced in two rounds during August 2022 and April 2023 (Figure 1). The soil borings were completed by GeoServe, Inc. under the supervision of ERM on August 29-31, 2022 (SB-10 through SB-17) and April 25th, 2023 (SB-19 through SB-26).

Sixteen shallow soil borings were advanced around each of the previously sampled borings SB-7 and SB-6 (Figure 1) to collect soil samples for PCB analysis. Per ERM sub-surface utility clearance policy, the upper 6 feet, or one foot beyond the invert of the deepest utility within 10 feet of the location, of each soil boring was hand cleared with a hand auger. The remainder of the soil boring depths were advanced using a Geoprobe drilling rig. The proposed soil boring locations were approximately 20 to 100 feet laterally from the SB-6 and SB-7 locations.

Continuous soil cores were recovered using hand auger or direct push sampling technology. The August, 2022 cores were screened in 2-foot intervals with a MiniRAE™ photoionization detector (PID) equipped with a 10.2 eV lamp. Soil cores were logged and observed for visual and/or evidence of impacted soil using the PID.

Soil PID results collected from each location in August, 2022 were obtained by placing samples in re-sealable plastic bags at 1-foot intervals and allowed to equilibrate for approximately 15 minutes before collecting readings. All PID readings were less than 1 volumetric part per million (Vppm), considered a background level and not indicative of impacted materials. ERM observed no visual or olfactory evidence of contamination during the soil assessment. No PID screening was conducted on soil borings completed in April 2023.

Soil samples were collected for both August, 2022 and April 2023 by transferring samples into laboratory-supplied containers with the appropriate labels and were maintained on ice until delivered under proper chain-of-custody documentation to Pace Analytical. Samples were shipped to Pace Analytical of Green Bay, Wisconsin, a Wisconsin-certified environmental laboratory for PCB analysis using EPA Method 8082. Copies of the analytical reports are included in Attachment A.

At the conclusion of the soil assessment, the boring locations were backfilled with bentonite chips and hydrated with potable water. Investigation-derived waste (IDW) generated during the soil sampling events was containerized in 55-gallon drums pending disposal.

2. RESULTS

The soil sampling results were tabulated and compared to the WDNR NR720 residential and industrial direct contact pathways and the soil to groundwater pathway residual contaminant levels (RCLs) (Table 1). Copies of the laboratory analytical reports for the August 2022 and April 2023 soil sampling events are provided in Attachment A.

2.1 North of 17th Street

The extent of soil impacts previously identified at SB-07 were investigated by installation and analysis of soil samples collected from borings SB-14, SB-15, SB-16, SB-17, SB-24, SB-25 and SB-26. SB-23 was installed but not analysed for PCBs.

2.1.1 0 to 2 feet

All concentrations of PCBs in soil samples collected from 0 to 2 feet below ground surface (ft bgs) were detected at concentrations below both the non-industrial and industrial direct contact soil residual contaminant levels (RCLs)

One shallow sample (SB-25 0-2') collected north of 17th Street in the vicinity of SB-07 had PCB concentrations detected above the soil-to-groundwater RCLs. All other shallow samples collected from 0-2' at SB-14, SB-15, SB-16, SB-17, SB-24 and SB-26 were non-detect for PCBs.

2.1.2 8 to 12 feet

All concentrations of PCBs in soil samples collected from 8 to 12 ft bgs in the vicinity of SB-07 were detected at concentrations below both the non-industrial and industrial direct contact soil residual contaminant levels (RCLs) except at SB-14 10-12'. However, the direct contact pathway for this detection at SB-14 is not complete as the overlying sample collected at SB-14 from 0-2' was non-detect for PCBs.

Three deep soil samples (SB-07 8-12', SB-14 10-12' and SB-26 10-12') collected north of 17th Street in the vicinity of SB-07 had PCB concentrations detected above the soil-to-groundwater

RCLs. All other deep samples collected from 8-12' at SB-08, SB-15, SB-16, SB-17, SB-24 and SB-25 were non-detect for PCBs.

2.1.3 South of 17th Street

The extent of soil impacts previously identified at SB-06 were investigated by installation and analysis of soil samples collected from borings SB-10, SB-11, SB-12, SB-13, SB-19, SB-20, SB-21 and SB-22.

2.1.4 0 to 2 feet

All concentrations of PCBs in soil samples collected from 0 to 2 feet below ground surface (ft bgs) were detected at concentrations below both the non-industrial and industrial direct contact soil residual contaminant levels (RCLs)

Three shallow soil sample (SB-13 0-2', SB-21 0-2', and SB-22 0-2') collected south of 17th Street in the vicinity of SB-06 had PCB concentrations detected above the soil-to-groundwater RCLs. All other shallow samples collected from 0-2' at SB-10, SB-11, SB-12, SB-19, and SB-20 were non-detect for PCBs.

2.1.5 8 to 12 feet

All concentrations of PCBs in soil samples collected from 8 to 12 ft bgs in the vicinity of SB-06 were detected at concentrations below both the non-industrial and industrial direct contact soil residual contaminant levels (RCLs).

Two deep soil samples (SB-10 10-12' and SB-19 10-12') collected south of 17th Street in the vicinity of SB-06 had PCB concentrations detected above the soil-to-groundwater RCLs. All other deep samples collected from 8-12' at SB-11, SB-12, SB-13, SB-20, SB-21 and SB-22 were non-detect for PCBs.

3. GROUNDWATER ASSESMENT

Based on discussion with the WDNR, groundwater sampling was completed in June 2023, to determine if the presence of PCBs at concentrations in soil that exceeded the soil-to-groundwater RCLs in the vicinity of SB-06 and SB-07 impacted groundwater.

3.1 Groundwater Sampling Summary

Two (2) monitoring wells (MW-13S and MW-17S) were selected for groundwater PCB sampling and analysis as the wells are located hydraulically downgradient of SB-06 and SB-07. The wells were sampled during the June quarterly (Q2) sampling event and the monitoring well locations are shown on Figure 1.

Low flow sampling techniques using a peristaltic pump and a YSI flow through cell were utilized. Samples were taken once field parameters stabilized and/or 4 well volumes were purged. Samples were taken in two 1 L amber glass bottles, appropriately labelled, and maintained on ice until delivered under proper chain-of-custody documentation to Pace Analytical. Samples were delivered by ERM personnel at Pace Analytical of Green Bay, Wisconsin, a Wisconsin-certified environmental laboratory for PCB analysis using EPA Method 8082. Copies of the analytical reports are included in Attachment B. For the purpose of this memorandum, the full analytical report has been modified to include the PCB groundwater results since other analytes and other locations were included in the Q2 sampling.

3.2 Groundwater Results

PCBs were not detected in groundwater from either MW-13S or MW-17S (Table 2). This shows that although concentrations of PCBs in soil exceed the soil-to-groundwater pathway groundwater in the vicinity of these soils is not impacted by PCBs.

4. CONCLUSIONS

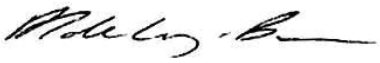
The WDNR response letter dated May 4, 2022 requested additional investigation of polychlorinated biphenyls (PCBs) associated with transformers and building materials near former soil borings SB-06 and SB-07 to define the degree and extent of PCB soil impacts. The results of the investigation indicate that the pathway of concern for PCBs in soil is the soil-to-groundwater pathway. However, groundwater analytical data from monitoring wells indicates that PCBs are not detected in groundwater, and that PCBs in groundwater is not a concern at the Site.

Based on the investigation completed WDNR concurrence with the following is requested:

1) No further investigation of PCBs in soils and groundwater is required.

2) Concentrations of PCBs detected in soil can be address at the time of Site closure through use of groundwater use restriction.

Yours sincerely,



David de Courcy-Bower, P.E.
Partner

FIGURES

DRAWN BY: SRV

SCALE: 1 when printed at 11x17

REVISED: 07/31/2023

FILE: M:\US\Projects\S-U\Thermo Fisher\TwoRivers_WI\ARP\XT\twoRivers_PCB_Figures.aprx

N

SB-26 (10 - 12')	
04/25/2023	
Aroclor 1254	0.0538 J mg/kg
Aroclor 1260	0.0180 J mg/kg
Total PCBs	0.0718 mg/kg

SB-25 (0-2')	
04/25/2023	
Aroclor 1260	0.0287 J mg/kg
Total PCBs	0.0287 J mg/kg

SB-14 (10-12')	
08/29/2022	
Aroclor 1260	*0.349 mg/kg*
Total PCBs	*0.349 mg/kg*

SB-07 (8 - 12')	
11/09/2021	
Aroclor 1254	0.0400 J mg/kg
Total PCBs	0.0400 J mg/kg

MW-17S	
06/22/2023	
Total PCBs	< 0.11 ug/L

SB-22 (0-2')	
04/25/2023	
Aroclor 1242	0.0207 J mg/kg
Total PCBs	0.0207 J mg/kg

MW-13S	
06/22/2023	
Total PCBs	< 0.11 ug/L

SB-21 (0-2')	
04/25/2023	
Aroclor 1260	0.0204 J mg/kg
Total PCBs	0.0204 J mg/kg

SB-10 (10-12')	
08/29/2022	
Aroclor 1260	0.0202 J mg/kg
Total PCBs	0.0202 J mg/kg

SB-13 (0-2')	
08/29/2022	
Aroclor 1260	0.0318 J mg/kg
Total PCBs	0.0318 J mg/kg

SB-19 (10-12')	
04/25/2023	
Aroclor 1242	0.0558 mg/kg
Total PCBs	0.0558 mg/kg

SB-9, SB-26, SB-23, SB-25, SB-24, SB-14, SB-07, SB-15, SB-17, SB-16, SB-08, MW-17S, MW-13S, SB-22, SB-21, SB-10, SB-20, SB-19, SB-11, SB-06, SB-13, SB-12, SB-05

1300 18th St 1799 1798 1751 E Park St Jefferson St 1400 17th St 1399 1200

0 25 50 100 Feet

Legend

- Groundwater Monitoring Well
- Soil Boring Location
- Property Boundary (Approximate)

Parameter	NR720 Soil to GW (DF 2)	Non-Industrial NTE D-C RCL	Non-Industrial Basis	Industrial NTE D-C RCL	Industrial Basis
Aroclor 1016	NS	4.11	nc	28.00	ca
Aroclor 1221	NS	0.21	ca	0.88	ca
Aroclor 1232	NS	0.19	ca	0.79	ca
Aroclor 1242	NS	0.24	ca	0.97	ca
Aroclor 1248	NS	0.24	ca	0.98	ca
Aroclor 1254	NS	0.24	ca	0.99	ca
Aroclor 1260	NS	*0.24*	ca	1.00	ca
PCBs, Total	0.009384	*0.23*	ca	0.97	ca

Notes:
1. All soil boring locations sampled displayed on map, no data displayed means non-detect concentrations except SB-23 which was not analyzed.
2. Results reported in milligrams per kilogram (mg/kg)
3. Underlined values exceed the NR140 migration from soil to groundwater RCL, dilution factor 2
4. Italics values exceed the non-industrial direct contact RCL
5. NS = No established standard
6. ca = carcinogen
7. J = The analyte was positively identified; associated numerical value is the approximate concentration of the analyte in the sample.

Figure 1
PCB Concentrations in Soil and Groundwater
Former Hamilton Industries
1316 18th Street
Two Rivers, Wisconsin

Environmental Resources Management
www.erm.com

Source: Esri - World Topoographic Map; NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US

TABLES

TABLE 1: Soil Sampling Results

BRRTS #02-36-578316
SITE NAME: Former Hamilton Industries
SITE ADDRESS: 1316 18th Street, Two Rivers, WI

Location ID	Sample Date	Sample Type	Sample Depth	Parameter	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	PCBs, Total
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Soil-to-GW RCL	NS	NS	NS	NS	NS	NS	NS	0.009384
				Non-Industrial Direct Contact RCL	*4.11*	*0.213*	*0.190*	*0.235*	*0.236*	*0.239*	*0.243*	*0.234*
				Basis	nc	ca	ca	ca	ca	ca	ca	ca
				Industrial Direct Contact RCL	**28.0**	**0.883**	**0.792**	**0.972**	**0.975**	**0.988**	**1.00**	**0.967**
				Basis	ca	ca	ca	ca	ca	ca	ca	ca
SB-05	11/09/2021	N	0-2 ft		< 0.0158	< 0.0158	< 0.0158	< 0.0158	< 0.0158	< 0.0158	< 0.0158	< 0.0158
SB-06	11/09/2021	N	0-2 ft		< 0.0159	< 0.0159	< 0.0159	< 0.0159	< 0.0159	< 0.0159	0.0640	0.0640
SB-07	11/09/2021	N	0-2 ft		< 0.0160	< 0.0160	< 0.0160	< 0.0160	< 0.0160	< 0.0160	< 0.0160	< 0.0160
SB-08	11/09/2021	N	0-2 ft		< 0.0162	< 0.0162	< 0.0162	< 0.0162	< 0.0162	< 0.0162	< 0.0162	< 0.0162
SB-09	11/09/2021	N	0-2 ft		< 0.0165	< 0.0165	< 0.0165	< 0.0165	< 0.0165	< 0.0165	< 0.0165	< 0.0165
SB-10	08/29/2022	N	0-2 ft		< 0.0160	< 0.0160	< 0.0160	< 0.0160	< 0.0160	< 0.0160	< 0.0160	< 0.0160
SB-11	08/29/2022	N	0-2 ft		< 0.0172	< 0.0172	< 0.0172	< 0.0172	< 0.0172	< 0.0172	< 0.0172	< 0.0172
SB-12	08/29/2022	N	0-2 ft		< 0.0163	< 0.0163	< 0.0163	< 0.0163	< 0.0163	< 0.0163	< 0.0163	< 0.0163
SB-13	08/29/2022	N	0-2 ft		< 0.0162	< 0.0162	< 0.0162	< 0.0162	< 0.0162	< 0.0162	0.0318 J	0.0318 J
SB-14	08/29/2022	N	0-2 ft		< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161
SB-15	08/29/2022	N	0-2 ft		< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161
SB-16	08/29/2022	N	0-2 ft		< 0.0160	< 0.0160	< 0.0160	< 0.0160	< 0.0160	< 0.0160	< 0.0160	< 0.0160
SB-17	08/29/2022	N	0-2 ft		< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161
SB-19	04/25/2023	N	0-2 ft		< 0.0174	< 0.0174	< 0.0174	< 0.0174	< 0.0174	< 0.0174	< 0.0174	< 0.0174
SB-20	04/25/2023	N	0-2 ft		< 0.0167	< 0.0167	< 0.0167	< 0.0167	< 0.0167	< 0.0167	< 0.0167	< 0.0167
SB-21	04/25/2023	N	0-2 ft		< 0.0162	< 0.0162	< 0.0162	< 0.0162	< 0.0162	< 0.0162	0.0204 J	0.0204 J
SB-22	04/25/2023	N	0-2 ft		< 0.0162	< 0.0162	< 0.0162	0.0207 J	< 0.0162	< 0.0162	< 0.0162	0.0207 J
SB-24	04/25/2023	N	0-2 ft		< 0.0169	< 0.0169	< 0.0169	< 0.0169	< 0.0169	< 0.0169	< 0.0169	< 0.0169
SB-25	04/25/2023	N	0-2 ft		< 0.0164	< 0.0164	< 0.0164	< 0.0164	< 0.0164	< 0.0164	0.0287 J	0.0287 J
SB-26	04/25/2023	N	0-2 ft		< 0.0162	< 0.0162	< 0.0162	< 0.0162	< 0.0162	< 0.0162	< 0.0162	< 0.0162
SB-05	11/09/2021	N	8-12 ft		< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161
SB-06	11/09/2021	N	8-12 ft		< 0.0163	< 0.0163	< 0.0163	< 0.0163	< 0.0163	< 0.0163	< 0.0163	< 0.0163
SB-07	11/09/2021	N	8-12 ft		< 0.0163	< 0.0163	< 0.0163	< 0.0163	< 0.0163	0.0400 J	< 0.0163	0.0400 J
SB-08	11/09/2021	N	10-12 ft		< 0.0159	< 0.0159	< 0.0159	< 0.0159	< 0.0159	< 0.0159	< 0.0159	< 0.0159
SB-09	11/09/2021	N	10-12 ft		< 0.0159	< 0.0159	< 0.0159	< 0.0159	< 0.0159	< 0.0159	< 0.0159	< 0.0159
SB-10	08/29/2022	N	10-12 ft		< 0.0165	< 0.0165	< 0.0165	< 0.0165	< 0.0165	< 0.0165	0.0202 J	0.0202 J
SB-11	08/29/2022	N	10-12 ft		< 0.0159	< 0.0159	< 0.0159	< 0.0159	< 0.0159	< 0.0159	< 0.0159	< 0.0159
SB-12	08/29/2022	N	10-12 ft		< 0.0164	< 0.0164	< 0.0164	< 0.0164	< 0.0164	< 0.0164	< 0.0164	< 0.0164
SB-13	08/29/2022	N	10-12 ft		< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161
SB-14	08/29/2022	N	10-12 ft		< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	*0.349*	*0.349*
SB-15	08/29/2022	N	10-12 ft		< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161
SB-16	08/29/2022	N	10-12 ft		< 0.0165	< 0.0165	< 0.0165	< 0.0165	< 0.0165	< 0.0165	< 0.0165	< 0.0165

TABLE 1: Soil Sampling Results

BRRTS #02-36-578316
SITE NAME: Former Hamilton Industries
SITE ADDRESS: 1316 18th Street, Two Rivers, WI

Location ID	Sample Date	Sample Type	Sample Depth	Parameter	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	PCBs, Total
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Soil-to-GW RCL	NS	NS	NS	NS	NS	NS	NS	0.009384
				Non-Industrial Direct Contact RCL	*4.11*	*0.213*	*0.190*	*0.235*	*0.236*	*0.239*	*0.243*	*0.234*
				Basis	nc	ca	ca	ca	ca	ca	ca	ca
				Industrial Direct Contact RCL	**28.0**	**0.883**	**0.792**	**0.972**	**0.975**	**0.988**	**1.00**	**0.967**
				Basis	ca	ca	ca	ca	ca	ca	ca	ca
SB-17	08/29/2022	N	10-12 ft		< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161
SB-19	04/25/2023	N	10-12 ft		< 0.0162	< 0.0162	< 0.0162	0.0558	< 0.0162	< 0.0162	< 0.0162	0.0558
SB-20	04/25/2023	N	10-12 ft		< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161	< 0.0161
SB-21	04/25/2023	N	10-12 ft		< 0.0163	< 0.0163	< 0.0163	< 0.0163	< 0.0163	< 0.0163	< 0.0163	< 0.0163
SB-22	04/25/2023	N	10-12 ft		< 0.0165	< 0.0165	< 0.0165	< 0.0165	< 0.0165	< 0.0165	< 0.0165	< 0.0165
SB-24	04/25/2023	N	10-12 ft		< 0.0164	< 0.0164	< 0.0164	< 0.0164	< 0.0164	< 0.0164	< 0.0164	< 0.0164
SB-25	04/25/2023	N	10-12 ft		< 0.0165	< 0.0165	< 0.0165	< 0.0165	< 0.0165	< 0.0165	< 0.0165	< 0.0165
SB-26	04/25/2023	N	10-12 ft		< 0.0177	< 0.0177	< 0.0177	< 0.0177	< 0.0177	0.0538 J	0.0180 J	0.0718

Notes:
Results reported in milligrams per kilogram (mg/kg).
Non-detect results reported to the method detection limit.
Non-detect results are reported on a wet weight basis.
PCBs analyzed by EPA Method 8082.
Underlined values exceed a soil-to-groundwater pathway RCL
Italicized values exceed a non-industrial direct contact RCL
Bold values exceed an industrial direct contact RCL
Csat = Saturation concentration
nc = non-carcinogen
ca = carcinogen
NS = No established standard
NA = Not analyzed
N = Normal sample
FD = Field duplicate sample

TABLE 2: Groundwater Sampling Results

BRRTS #02-36-578316
SITE NAME: Former Hamilton Industries
SITE ADDRESS: 1316 18th Street, Two Rivers, WI

	Sample Date	06/22/2023	06/22/2023
	Sample Type	N	N
Parameter	Unit		
PCB			
Aroclor 1016	ug/L	< 0.11	< 0.11
Aroclor 1221	ug/L	< 0.11	< 0.11
Aroclor 1232	ug/L	< 0.11	< 0.11
Aroclor 1242	ug/L	< 0.11	< 0.11
Aroclor 1248	ug/L	< 0.11	< 0.11
Aroclor 1254	ug/L	< 0.11	< 0.11
Aroclor 1260	ug/L	< 0.11	< 0.11
PCBs, Total	ug/L	< 0.11	< 0.11

Notes:

Non-detect results reported to the method detection limit.
N = Normal sample
PCBs analyzed by EPA Method 8082

ATTACHMENT A: SOIL SAMPLING RESULTS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

September 01, 2022

John Roberts
ERM, Inc.
7311 W. Greenfield Ave.
Milwaukee, WI 53214

RE: Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Dear John Roberts:

Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
- Pace Analytical Services - Green Bay

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

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Ryan Plath, ERM, INC.
David deCourcy-Bower, ERM, Inc.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Pace Analytical Services Green Bay
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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40250581001	**SB-13-SO-0-2-20220829**	Solid	08/29/22 09:50	08/29/22 17:05
40250581002	**SB-13-SO-10-12-20220829**	Solid	08/29/22 10:10	08/29/22 17:05
40250581003	**SB-10-SO-0-2-20220829**	Solid	08/29/22 10:25	08/29/22 17:05
40250581004	**SB-10-SO-10-12-20220829**	Solid	08/29/22 10:35	08/29/22 17:05
40250581005	**SB-11-SO-0-2-20220829**	Solid	08/29/22 10:45	08/29/22 17:05
40250581006	**SB-11-SO-10-12-20220829**	Solid	08/29/22 10:55	08/29/22 17:05
40250581007	**SB-12-SO-0-2-20220829**	Solid	08/29/22 11:05	08/29/22 17:05
40250581008	**SB-12-SO-10-12-20220829**	Solid	08/29/22 11:10	08/29/22 17:05
40250581009	**SB-16-SO-0-2-20220829**	Solid	08/29/22 11:35	08/29/22 17:05
40250581010	**SB-16-SO-10-12-20220829**	Solid	08/29/22 11:45	08/29/22 17:05
40250581011	**SB-17-SO-0-2-20220829**	Solid	08/29/22 12:00	08/29/22 17:05
40250581012	**SB-17-SO-10-12-20220829**	Solid	08/29/22 12:10	08/29/22 17:05
40250581013	**SB-15-SO-0-2-20220829**	Solid	08/29/22 12:25	08/29/22 17:05
40250581014	**SB-15-SO-10-12-20220829**	Solid	08/29/22 12:40	08/29/22 17:05
40250581015	**SB-14-SO-0-2-20220829**	Solid	08/29/22 12:55	08/29/22 17:05
40250581016	**SB-14-SO-10-12-20220829**	Solid	08/29/22 13:10	08/29/22 17:05

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SAMPLE ANALYTE COUNT

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40250581001	**SB-13-SO-0-2-20220829**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	PDV	1	PASI-G
40250581002	**SB-13-SO-10-12-20220829**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	PDV	1	PASI-G
40250581003	**SB-10-SO-0-2-20220829**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	PDV	1	PASI-G
40250581004	**SB-10-SO-10-12-20220829**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	PDV	1	PASI-G
40250581005	**SB-11-SO-0-2-20220829**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	PDV	1	PASI-G
40250581006	**SB-11-SO-10-12-20220829**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	PDV	1	PASI-G
40250581007	**SB-12-SO-0-2-20220829**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	PDV	1	PASI-G
40250581008	**SB-12-SO-10-12-20220829**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	PDV	1	PASI-G
40250581009	**SB-16-SO-0-2-20220829**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	PDV	1	PASI-G
40250581010	**SB-16-SO-10-12-20220829**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	PDV	1	PASI-G
40250581011	**SB-17-SO-0-2-20220829**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	PDV	1	PASI-G
40250581012	**SB-17-SO-10-12-20220829**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	PDV	1	PASI-G
40250581013	**SB-15-SO-0-2-20220829**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	PDV	1	PASI-G
40250581014	**SB-15-SO-10-12-20220829**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	PDV	1	PASI-G
40250581015	**SB-14-SO-0-2-20220829**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	PDV	1	PASI-G
40250581016	**SB-14-SO-10-12-20220829**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	PDV	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
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(920)469-2436

ANALYTICAL RESULTS

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Sample: SB-13-SO-0-2-20220829 **Lab ID: 40250581001** Collected: 08/29/22 09:50 Received: 08/29/22 17:05 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
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.2**	ug/kg	53.1	16.2	1	08/30/22 15:42	08/31/22 13:02	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.2**	ug/kg	53.1	16.2	1	08/30/22 15:42	08/31/22 13:02	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.2**	ug/kg	53.1	16.2	1	08/30/22 15:42	08/31/22 13:02	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.2**	ug/kg	53.1	16.2	1	08/30/22 15:42	08/31/22 13:02	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.2**	ug/kg	53.1	16.2	1	08/30/22 15:42	08/31/22 13:02	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.2**	ug/kg	53.1	16.2	1	08/30/22 15:42	08/31/22 13:02	11097-69-1	
PCB-1260 (Aroclor 1260)	**31.8J**	ug/kg	53.1	16.2	1	08/30/22 15:42	08/31/22 13:02	11096-82-5	
PCB, Total	**31.8J**	ug/kg	53.1	16.2	1	08/30/22 15:42	08/31/22 13:02	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	50-99		1	08/30/22 15:42	08/31/22 13:02	877-09-8	
Decachlorobiphenyl (S)	86	%	38-95		1	08/30/22 15:42	08/31/22 13:02	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.6**	%	0.10	0.10	1		08/30/22 13:11		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Sample: SB-13-SO-10-12-20220829 **Lab ID: 40250581002** Collected: 08/29/22 10:10 Received: 08/29/22 17:05 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
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.1**	ug/kg	52.9	16.1	1	08/30/22 15:42	08/31/22 13:24	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.1**	ug/kg	52.9	16.1	1	08/30/22 15:42	08/31/22 13:24	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.1**	ug/kg	52.9	16.1	1	08/30/22 15:42	08/31/22 13:24	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.1**	ug/kg	52.9	16.1	1	08/30/22 15:42	08/31/22 13:24	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.1**	ug/kg	52.9	16.1	1	08/30/22 15:42	08/31/22 13:24	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.1**	ug/kg	52.9	16.1	1	08/30/22 15:42	08/31/22 13:24	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.1**	ug/kg	52.9	16.1	1	08/30/22 15:42	08/31/22 13:24	11096-82-5	
PCB, Total	**<16.1**	ug/kg	52.9	16.1	1	08/30/22 15:42	08/31/22 13:24	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	50-99		1	08/30/22 15:42	08/31/22 13:24	877-09-8	
Decachlorobiphenyl (S)	90	%	38-95		1	08/30/22 15:42	08/31/22 13:24	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.6**	%	0.10	0.10	1		08/30/22 13:11		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Sample: SB-10-SO-0-2-20220829 **Lab ID: 40250581003** Collected: 08/29/22 10:25 Received: 08/29/22 17:05 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
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.0**	ug/kg	52.7	16.0	1	08/30/22 15:42	08/31/22 13:46	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.0**	ug/kg	52.7	16.0	1	08/30/22 15:42	08/31/22 13:46	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.0**	ug/kg	52.7	16.0	1	08/30/22 15:42	08/31/22 13:46	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.0**	ug/kg	52.7	16.0	1	08/30/22 15:42	08/31/22 13:46	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.0**	ug/kg	52.7	16.0	1	08/30/22 15:42	08/31/22 13:46	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.0**	ug/kg	52.7	16.0	1	08/30/22 15:42	08/31/22 13:46	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.0**	ug/kg	52.7	16.0	1	08/30/22 15:42	08/31/22 13:46	11096-82-5	
PCB, Total	**<16.0**	ug/kg	52.7	16.0	1	08/30/22 15:42	08/31/22 13:46	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	50-99		1	08/30/22 15:42	08/31/22 13:46	877-09-8	
Decachlorobiphenyl (S)	89	%	38-95		1	08/30/22 15:42	08/31/22 13:46	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.0**	%	0.10	0.10	1		08/30/22 13:11		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Sample: SB-10-SO-10-12-20220829 **Lab ID: 40250581004** Collected: 08/29/22 10:35 Received: 08/29/22 17:05 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
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.5**	ug/kg	54.1	16.5	1	08/30/22 15:42	08/31/22 14:07	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.5**	ug/kg	54.1	16.5	1	08/30/22 15:42	08/31/22 14:07	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.5**	ug/kg	54.1	16.5	1	08/30/22 15:42	08/31/22 14:07	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.5**	ug/kg	54.1	16.5	1	08/30/22 15:42	08/31/22 14:07	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.5**	ug/kg	54.1	16.5	1	08/30/22 15:42	08/31/22 14:07	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.5**	ug/kg	54.1	16.5	1	08/30/22 15:42	08/31/22 14:07	11097-69-1	
PCB-1260 (Aroclor 1260)	**20.2J**	ug/kg	54.1	16.5	1	08/30/22 15:42	08/31/22 14:07	11096-82-5	
PCB, Total	**20.2J**	ug/kg	54.1	16.5	1	08/30/22 15:42	08/31/22 14:07	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	77	%	50-99		1	08/30/22 15:42	08/31/22 14:07	877-09-8	
Decachlorobiphenyl (S)	84	%	38-95		1	08/30/22 15:42	08/31/22 14:07	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**7.3**	%	0.10	0.10	1		08/30/22 13:11		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Sample: SB-11-SO-0-2-20220829 **Lab ID: 40250581005** Collected: 08/29/22 10:45 Received: 08/29/22 17:05 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
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<17.2**	ug/kg	56.6	17.2	1	08/30/22 15:42	08/31/22 15:52	12674-11-2	
PCB-1221 (Aroclor 1221)	**<17.2**	ug/kg	56.6	17.2	1	08/30/22 15:42	08/31/22 15:52	11104-28-2	
PCB-1232 (Aroclor 1232)	**<17.2**	ug/kg	56.6	17.2	1	08/30/22 15:42	08/31/22 15:52	11141-16-5	
PCB-1242 (Aroclor 1242)	**<17.2**	ug/kg	56.6	17.2	1	08/30/22 15:42	08/31/22 15:52	53469-21-9	
PCB-1248 (Aroclor 1248)	**<17.2**	ug/kg	56.6	17.2	1	08/30/22 15:42	08/31/22 15:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**<17.2**	ug/kg	56.6	17.2	1	08/30/22 15:42	08/31/22 15:52	11097-69-1	
PCB-1260 (Aroclor 1260)	**<17.2**	ug/kg	56.6	17.2	1	08/30/22 15:42	08/31/22 15:52	11096-82-5	
PCB, Total	**<17.2**	ug/kg	56.6	17.2	1	08/30/22 15:42	08/31/22 15:52	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	50-99		1	08/30/22 15:42	08/31/22 15:52	877-09-8	
Decachlorobiphenyl (S)	87	%	38-95		1	08/30/22 15:42	08/31/22 15:52	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**11.4**	%	0.10	0.10	1		08/30/22 13:12		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Sample: SB-11-SO-10-12-20220829 **Lab ID: 40250581006** Collected: 08/29/22 10:55 Received: 08/29/22 17:05 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
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<15.9**	ug/kg	52.3	15.9	1	08/30/22 15:42	08/31/22 16:14	12674-11-2	
PCB-1221 (Aroclor 1221)	**<15.9**	ug/kg	52.3	15.9	1	08/30/22 15:42	08/31/22 16:14	11104-28-2	
PCB-1232 (Aroclor 1232)	**<15.9**	ug/kg	52.3	15.9	1	08/30/22 15:42	08/31/22 16:14	11141-16-5	
PCB-1242 (Aroclor 1242)	**<15.9**	ug/kg	52.3	15.9	1	08/30/22 15:42	08/31/22 16:14	53469-21-9	
PCB-1248 (Aroclor 1248)	**<15.9**	ug/kg	52.3	15.9	1	08/30/22 15:42	08/31/22 16:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**<15.9**	ug/kg	52.3	15.9	1	08/30/22 15:42	08/31/22 16:14	11097-69-1	
PCB-1260 (Aroclor 1260)	**<15.9**	ug/kg	52.3	15.9	1	08/30/22 15:42	08/31/22 16:14	11096-82-5	
PCB, Total	**<15.9**	ug/kg	52.3	15.9	1	08/30/22 15:42	08/31/22 16:14	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	50-99		1	08/30/22 15:42	08/31/22 16:14	877-09-8	
Decachlorobiphenyl (S)	90	%	38-95		1	08/30/22 15:42	08/31/22 16:14	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**4.6**	%	0.10	0.10	1		08/30/22 13:12		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Sample: SB-12-SO-0-2-20220829 **Lab ID: 40250581007** Collected: 08/29/22 11:05 Received: 08/29/22 17:05 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
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.3**	ug/kg	53.7	16.3	1	08/30/22 15:42	08/31/22 16:36	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.3**	ug/kg	53.7	16.3	1	08/30/22 15:42	08/31/22 16:36	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.3**	ug/kg	53.7	16.3	1	08/30/22 15:42	08/31/22 16:36	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.3**	ug/kg	53.7	16.3	1	08/30/22 15:42	08/31/22 16:36	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.3**	ug/kg	53.7	16.3	1	08/30/22 15:42	08/31/22 16:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.3**	ug/kg	53.7	16.3	1	08/30/22 15:42	08/31/22 16:36	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.3**	ug/kg	53.7	16.3	1	08/30/22 15:42	08/31/22 16:36	11096-82-5	
PCB, Total	**<16.3**	ug/kg	53.7	16.3	1	08/30/22 15:42	08/31/22 16:36	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	50-99		1	08/30/22 15:42	08/31/22 16:36	877-09-8	
Decachlorobiphenyl (S)	88	%	38-95		1	08/30/22 15:42	08/31/22 16:36	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**7.2**	%	0.10	0.10	1		08/30/22 13:12		

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ANALYTICAL RESULTS

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Sample: SB-12-SO-10-12-20220829 **Lab ID: 40250581008** Collected: 08/29/22 11:10 Received: 08/29/22 17:05 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
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.4**	ug/kg	53.8	16.4	1	08/30/22 15:42	08/31/22 16:58	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.4**	ug/kg	53.8	16.4	1	08/30/22 15:42	08/31/22 16:58	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.4**	ug/kg	53.8	16.4	1	08/30/22 15:42	08/31/22 16:58	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.4**	ug/kg	53.8	16.4	1	08/30/22 15:42	08/31/22 16:58	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.4**	ug/kg	53.8	16.4	1	08/30/22 15:42	08/31/22 16:58	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.4**	ug/kg	53.8	16.4	1	08/30/22 15:42	08/31/22 16:58	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.4**	ug/kg	53.8	16.4	1	08/30/22 15:42	08/31/22 16:58	11096-82-5	
PCB, Total	**<16.4**	ug/kg	53.8	16.4	1	08/30/22 15:42	08/31/22 16:58	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	50-99		1	08/30/22 15:42	08/31/22 16:58	877-09-8	
Decachlorobiphenyl (S)	89	%	38-95		1	08/30/22 15:42	08/31/22 16:58	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**7.1**	%	0.10	0.10	1		08/30/22 13:12		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Sample: SB-16-SO-0-2-20220829 **Lab ID: 40250581009** Collected: 08/29/22 11:35 Received: 08/29/22 17:05 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
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.0**	ug/kg	52.6	16.0	1	08/30/22 15:42	08/31/22 17:20	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.0**	ug/kg	52.6	16.0	1	08/30/22 15:42	08/31/22 17:20	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.0**	ug/kg	52.6	16.0	1	08/30/22 15:42	08/31/22 17:20	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.0**	ug/kg	52.6	16.0	1	08/30/22 15:42	08/31/22 17:20	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.0**	ug/kg	52.6	16.0	1	08/30/22 15:42	08/31/22 17:20	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.0**	ug/kg	52.6	16.0	1	08/30/22 15:42	08/31/22 17:20	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.0**	ug/kg	52.6	16.0	1	08/30/22 15:42	08/31/22 17:20	11096-82-5	
PCB, Total	**<16.0**	ug/kg	52.6	16.0	1	08/30/22 15:42	08/31/22 17:20	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	50-99		1	08/30/22 15:42	08/31/22 17:20	877-09-8	
Decachlorobiphenyl (S)	87	%	38-95		1	08/30/22 15:42	08/31/22 17:20	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**4.8**	%	0.10	0.10	1		08/30/22 13:12		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Sample: SB-16-SO-10-12-20220829 **Lab ID: 40250581010** Collected: 08/29/22 11:45 Received: 08/29/22 17:05 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
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.5**	ug/kg	54.2	16.5	1	08/30/22 15:42	08/31/22 17:42	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.5**	ug/kg	54.2	16.5	1	08/30/22 15:42	08/31/22 17:42	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.5**	ug/kg	54.2	16.5	1	08/30/22 15:42	08/31/22 17:42	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.5**	ug/kg	54.2	16.5	1	08/30/22 15:42	08/31/22 17:42	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.5**	ug/kg	54.2	16.5	1	08/30/22 15:42	08/31/22 17:42	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.5**	ug/kg	54.2	16.5	1	08/30/22 15:42	08/31/22 17:42	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.5**	ug/kg	54.2	16.5	1	08/30/22 15:42	08/31/22 17:42	11096-82-5	
PCB, Total	**<16.5**	ug/kg	54.2	16.5	1	08/30/22 15:42	08/31/22 17:42	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	50-99		1	08/30/22 15:42	08/31/22 17:42	877-09-8	
Decachlorobiphenyl (S)	87	%	38-95		1	08/30/22 15:42	08/31/22 17:42	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**7.9**	%	0.10	0.10	1		08/31/22 12:25		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Sample: SB-17-SO-0-2-20220829 **Lab ID: 40250581011** Collected: 08/29/22 12:00 Received: 08/29/22 17:05 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
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 18:04	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 18:04	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 18:04	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 18:04	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 18:04	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 18:04	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 18:04	11096-82-5	
PCB, Total	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 18:04	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	50-99		1	08/30/22 15:42	08/31/22 18:04	877-09-8	
Decachlorobiphenyl (S)	86	%	38-95		1	08/30/22 15:42	08/31/22 18:04	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.3**	%	0.10	0.10	1		08/31/22 12:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Sample: SB-17-SO-10-12-20220829 **Lab ID: 40250581012** Collected: 08/29/22 12:10 Received: 08/29/22 17:05 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
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 18:26	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 18:26	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 18:26	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 18:26	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 18:26	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 18:26	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 18:26	11096-82-5	
PCB, Total	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 18:26	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	83	%	50-99		1	08/30/22 15:42	08/31/22 18:26	877-09-8	
Decachlorobiphenyl (S)	86	%	38-95		1	08/30/22 15:42	08/31/22 18:26	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.9**	%	0.10	0.10	1		08/31/22 12:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Sample: SB-15-SO-0-2-20220829 **Lab ID: 40250581013** Collected: 08/29/22 12:25 Received: 08/29/22 17:05 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
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 18:48	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 18:48	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 18:48	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 18:48	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 18:48	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 18:48	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 18:48	11096-82-5	
PCB, Total	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 18:48	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	50-99		1	08/30/22 15:42	08/31/22 18:48	877-09-8	
Decachlorobiphenyl (S)	89	%	38-95		1	08/30/22 15:42	08/31/22 18:48	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.7**	%	0.10	0.10	1		08/31/22 12:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Sample: SB-15-SO-10-12-20220829 **Lab ID: 40250581014** Collected: 08/29/22 12:40 Received: 08/29/22 17:05 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
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 19:10	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 19:10	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 19:10	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 19:10	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 19:10	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 19:10	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 19:10	11096-82-5	
PCB, Total	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 19:10	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	50-99		1	08/30/22 15:42	08/31/22 19:10	877-09-8	
Decachlorobiphenyl (S)	87	%	38-95		1	08/30/22 15:42	08/31/22 19:10	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.5**	%	0.10	0.10	1		08/31/22 12:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Sample: SB-14-SO-0-2-20220829 **Lab ID: 40250581015** Collected: 08/29/22 12:55 Received: 08/29/22 17:05 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
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 19:32	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 19:32	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 19:32	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 19:32	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 19:32	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 19:32	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 19:32	11096-82-5	
PCB, Total	**<16.1**	ug/kg	52.8	16.1	1	08/30/22 15:42	08/31/22 19:32	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	50-99		1	08/30/22 15:42	08/31/22 19:32	877-09-8	
Decachlorobiphenyl (S)	89	%	38-95		1	08/30/22 15:42	08/31/22 19:32	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.6**	%	0.10	0.10	1		08/31/22 12:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Sample: SB-14-SO-10-12-20220829 **Lab ID: 40250581016** Collected: 08/29/22 13:10 Received: 08/29/22 17:05 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
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 15:30	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 15:30	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 15:30	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 15:30	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 15:30	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.1**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 15:30	11097-69-1	
PCB-1260 (Aroclor 1260)	**349**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 15:30	11096-82-5	
PCB, Total	**349**	ug/kg	53.0	16.1	1	08/30/22 15:42	08/31/22 15:30	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	50-99		1	08/30/22 15:42	08/31/22 15:30	877-09-8	
Decachlorobiphenyl (S)	87	%	38-95		1	08/30/22 15:42	08/31/22 15:30	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.7**	%	0.10	0.10	1		08/31/22 12:26		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

QC Batch: 424829
QC Batch Method: EPA 3541
Analysis Method: EPA 8082A
Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40250581001, 40250581002, 40250581003, 40250581004, 40250581005, 40250581006, 40250581007, 40250581008, 40250581009, 40250581010, 40250581011, 40250581012, 40250581013, 40250581014, 40250581015, 40250581016

METHOD BLANK: 2446505 Matrix: Solid
Associated Lab Samples: 40250581001, 40250581002, 40250581003, 40250581004, 40250581005, 40250581006, 40250581007, 40250581008, 40250581009, 40250581010, 40250581011, 40250581012, 40250581013, 40250581014, 40250581015, 40250581016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<15.2	50.0	08/31/22 10:06	
PCB-1221 (Aroclor 1221)	ug/kg	<15.2	50.0	08/31/22 10:06	
PCB-1232 (Aroclor 1232)	ug/kg	<15.2	50.0	08/31/22 10:06	
PCB-1242 (Aroclor 1242)	ug/kg	<15.2	50.0	08/31/22 10:06	
PCB-1248 (Aroclor 1248)	ug/kg	<15.2	50.0	08/31/22 10:06	
PCB-1254 (Aroclor 1254)	ug/kg	<15.2	50.0	08/31/22 10:06	
PCB-1260 (Aroclor 1260)	ug/kg	<15.2	50.0	08/31/22 10:06	
Decachlorobiphenyl (S)	%	85	38-95	08/31/22 10:06	
Tetrachloro-m-xylene (S)	%	81	50-99	08/31/22 10:06	

LABORATORY CONTROL SAMPLE: 2446506

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<15.2			
PCB-1221 (Aroclor 1221)	ug/kg		<15.2			
PCB-1232 (Aroclor 1232)	ug/kg		<15.2			
PCB-1242 (Aroclor 1242)	ug/kg		<15.2			
PCB-1248 (Aroclor 1248)	ug/kg		<15.2			
PCB-1254 (Aroclor 1254)	ug/kg		<15.2			
PCB-1260 (Aroclor 1260)	ug/kg	500	435	87	71-104	
Decachlorobiphenyl (S)	%			88	38-95	
Tetrachloro-m-xylene (S)	%			86	50-99	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2446507 2446508

Parameter	Units	40250581002 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	<16.1			<16.1	<16.1					20	
PCB-1221 (Aroclor 1221)	ug/kg	<16.1			<16.1	<16.1					20	
PCB-1232 (Aroclor 1232)	ug/kg	<16.1			<16.1	<16.1					20	
PCB-1242 (Aroclor 1242)	ug/kg	<16.1			<16.1	<16.1					20	
PCB-1248 (Aroclor 1248)	ug/kg	<16.1			<16.1	<16.1					20	
PCB-1254 (Aroclor 1254)	ug/kg	<16.1			<16.1	<16.1					20	
PCB-1260 (Aroclor 1260)	ug/kg	<16.1	531	530	479	475	90	90	42-109	1	20	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2446507 2446508

Parameter	Units	40250581002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Decachlorobiphenyl (S)	%						90	89	38-95			
Tetrachloro-m-xylene (S)	%						89	88	50-99			

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

QC Batch: 424785
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40250581001, 40250581002, 40250581003, 40250581004, 40250581005, 40250581006, 40250581007, 40250581008, 40250581009

SAMPLE DUPLICATE: 2446307

Parameter	Units	40250581002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.6	5.5	2	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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

QC Batch: 424876
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40250581010, 40250581011, 40250581012, 40250581013, 40250581014, 40250581015, 40250581016

SAMPLE DUPLICATE: 2446735

Parameter	Units	40250595003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.3	18.9	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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

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.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 0383990 / TWO RIVERS
Pace Project No.: 40250581

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40250581001	**SB-13-SO-0-2-20220829**	EPA 3541	424829	EPA 8082A	424849
40250581002	**SB-13-SO-10-12-20220829**	EPA 3541	424829	EPA 8082A	424849
40250581003	**SB-10-SO-0-2-20220829**	EPA 3541	424829	EPA 8082A	424849
40250581004	**SB-10-SO-10-12-20220829**	EPA 3541	424829	EPA 8082A	424849
40250581005	**SB-11-SO-0-2-20220829**	EPA 3541	424829	EPA 8082A	424849
40250581006	**SB-11-SO-10-12-20220829**	EPA 3541	424829	EPA 8082A	424849
40250581007	**SB-12-SO-0-2-20220829**	EPA 3541	424829	EPA 8082A	424849
40250581008	**SB-12-SO-10-12-20220829**	EPA 3541	424829	EPA 8082A	424849
40250581009	**SB-16-SO-0-2-20220829**	EPA 3541	424829	EPA 8082A	424849
40250581010	**SB-16-SO-10-12-20220829**	EPA 3541	424829	EPA 8082A	424849
40250581011	**SB-17-SO-0-2-20220829**	EPA 3541	424829	EPA 8082A	424849
40250581012	**SB-17-SO-10-12-20220829**	EPA 3541	424829	EPA 8082A	424849
40250581013	**SB-15-SO-0-2-20220829**	EPA 3541	424829	EPA 8082A	424849
40250581014	**SB-15-SO-10-12-20220829**	EPA 3541	424829	EPA 8082A	424849
40250581015	**SB-14-SO-0-2-20220829**	EPA 3541	424829	EPA 8082A	424849
40250581016	**SB-14-SO-10-12-20220829**	EPA 3541	424829	EPA 8082A	424849
40250581001	**SB-13-SO-0-2-20220829**	ASTM D2974-87	424785		
40250581002	**SB-13-SO-10-12-20220829**	ASTM D2974-87	424785		
40250581003	**SB-10-SO-0-2-20220829**	ASTM D2974-87	424785		
40250581004	**SB-10-SO-10-12-20220829**	ASTM D2974-87	424785		
40250581005	**SB-11-SO-0-2-20220829**	ASTM D2974-87	424785		
40250581006	**SB-11-SO-10-12-20220829**	ASTM D2974-87	424785		
40250581007	**SB-12-SO-0-2-20220829**	ASTM D2974-87	424785		
40250581008	**SB-12-SO-10-12-20220829**	ASTM D2974-87	424785		
40250581009	**SB-16-SO-0-2-20220829**	ASTM D2974-87	424785		
40250581010	**SB-16-SO-10-12-20220829**	ASTM D2974-87	424876		
40250581011	**SB-17-SO-0-2-20220829**	ASTM D2974-87	424876		
40250581012	**SB-17-SO-10-12-20220829**	ASTM D2974-87	424876		
40250581013	**SB-15-SO-0-2-20220829**	ASTM D2974-87	424876		
40250581014	**SB-15-SO-10-12-20220829**	ASTM D2974-87	424876		
40250581015	**SB-14-SO-0-2-20220829**	ASTM D2974-87	424876		
40250581016	**SB-14-SO-10-12-20220829**	ASTM D2974-87	424876		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 40250581

ALL SHADED AREAS are for LAB USE ONLY

Company: ERM	Billing Information: ERM
Address: Milwaukee, WI	
Report To: John Roberts	Email To: john.roberts@erm.com
Copy To: Lauren Landa	Site Collection Info/Address:
Customer Project Name/Number: 0383990/Two Rivers	State: WI / County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Lauren Landa	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
	Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses: 8082 PCBs

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns		Lab Sample # / Comments
SB-13-50-0-2-20220829	SL		8/29/22	0950				1	X	001
SB-13-50-10-12-20220829	SL			1010				1	X	002
SB-10-50-0-2-20220829	SL			1025				1	X	003
SB-10-50-10-12-20220829	SL			1035				1	X	004
SB-11-50-0-2-20220829	SL			1045				1	X	005
SB-11-50-10-12-20220829	SL			1055				1	X	006
SB-12-50-0-2-20220829	SL			1105				1	X	007
SB-12-50-10-12-20220829	SL			1110				1	X	008
SB-16-50-0-2-20220829	SL		8/29/22	1135				1	X	009
SB-16-50-10-12-20220829	SL		8/29/22	1145				1	X	010

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: (1)

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2829005

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 98
Cooler 1 Temp Upon Receipt: 4.5 oC
Cooler 1 Therm Corr. Factor: — oC
Cooler 1 Corrected Temp: 4.5 oC
Comments:

	Date/Time:		Date/Time:
Relinquished by/Company: (Signature) ERM	8/29/22 1705	Received by/Company: (Signature) pace	8/29/22 1705
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 2 of: 2

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 40250581

ALL SHADED AREAS are for LAB USE ONLY

Company: ERM	Billing Information: ERM
Address: Milwaukee, WI	
Report To: John Roberts	Email To: john.roberts@erm.com
Copy To: Lauren Landa	Site Collection Info/Address:
Customer Project Name/Number: 0383990 / Two Rivers	State: WI / County/City: Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Lauren Landa	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
	Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses: 8082 PCB's

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	8082 PCB's	Lab Sample # / Comments
SB-17-SO-0-2-20220829	SL		8/29/22	1200				1	X	011
SB-17-SO-10-12-20220829	SL			1210				1	X	012
SB-15-SO-0-2-20220829	SL			1225				1	X	013
SB-15-SO-10-12-20220829	SL			1240				1	X	014
SB-14-SO-0-2-20220829	SL			1255				1	X	015
SB-14-SO-10-12-20220829	SL		8/29/22	1310				1	X	016

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2829006

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 98
Cooler 1 Temp Upon Receipt: 4.5 oC
Cooler 1 Therm Corr. Factor: — oC
Cooler 1 Corrected Temp: 4.5 oC
Comments:

Relinquished by/Company: (Signature) ERM	Date/Time: 8/29/22 1705	Received by/Company: (Signature) Pace	Date/Time: 8/29/22 1705
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 2 of: 2

Sample Preservation Receipt Form

Client Name: ERM

Project # 410250581

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):

Pace Lab #	Glass							Plastic						Vials						Jars				General				VOA Vials (>6mm) *	Initial when completed: H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	Date/ Time: pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2							
001																																		2.5 / 5
002																																		2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

mlt 8/30/22

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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4
BP2Z	500 mL plastic NaOH + Zn

VG9C	40 mL clear ascorbic w/ HCl
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN 1	
GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40250581

40250581

Client Name: ERM

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☑ Client ☐ Pace Other: _____

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 - 98 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 4.5 /Corr: 4.5

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 if shipped on Dry Ice.

Person examining contents:
Date: 8/30/22 /Initials: mH

Labeled By Initials: NR

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☐Yes	☑No	☐N/A	2. NO preservative mH 8/30/22
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
- DI VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested:	☐Yes	☑No		7.
Sufficient Volume:				8.
For Analysis: ☑Yes ☐No MS/MSD:	☐Yes	☐No	☑N/A	
Correct Containers Used:	☑Yes	☐No		9.
Correct Type: Pace Green Bay, Pace IR, Non-Pace				
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S				
Trip Blank Present:	☐Yes	☐No	☑N/A	13.
Trip Blank Custody Seals Present	☐Yes	☐No	☑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: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Page 2 of 2

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 09, 2023

John Roberts
ERM, Inc.
7311 W. Greenfield Ave.
Milwaukee, WI 53214

RE: Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

Dear John Roberts:

Enclosed are the analytical results for sample(s) received by the laboratory on April 26, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Leann Grahler, ERM, INC.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

Pace Analytical Services Green Bay
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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40261296001	**SB-19-SO-0-2-20230425**	Solid	04/25/23 09:15	04/26/23 09:00
40261296002	**SB-19-SO-10-12-20230425**	Solid	04/25/23 09:45	04/26/23 09:00
40261296003	**SB-20-SO-0-2-20230425**	Solid	04/25/23 10:10	04/26/23 09:00
40261296004	**SB-20-SO-10-12-20230425**	Solid	04/25/23 10:15	04/26/23 09:00
40261296005	**SB-21-SO-0-2-20230425**	Solid	04/25/23 10:25	04/26/23 09:00
40261296006	**SB-21-SO-10-12-20230425**	Solid	04/25/23 10:30	04/26/23 09:00
40261296007	**SB-22-SO-0-2-20230425**	Solid	04/25/23 10:40	04/26/23 09:00
40261296008	**SB-22-SO-10-12-20230425**	Solid	04/25/23 11:00	04/26/23 09:00
40261296009	**SB-23-SO-0-2-20230425**	Solid	04/25/23 11:30	04/26/23 09:00
40261296010	**SB-23-SO-10-12-20230425**	Solid	04/25/23 11:45	04/26/23 09:00
40261296011	**SB-24-SO-0-2-20230425**	Solid	04/25/23 11:55	04/26/23 09:00
40261296012	**SB-24-SO-10-12-20230425**	Solid	04/25/23 13:45	04/26/23 09:00
40261296013	**SB-25-SO-0-2-20230425**	Solid	04/25/23 12:45	04/26/23 09:00
40261296014	**SB-25-SO-10-12-20230425**	Solid	04/25/23 12:50	04/26/23 09:00
40261296015	**SB-26-SO-0-2-20230425**	Solid	04/25/23 13:00	04/26/23 09:00
40261296016	**SB-26-SO-10-12-20230425**	Solid	04/25/23 13:10	04/26/23 09:00

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SAMPLE ANALYTE COUNT

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40261296001	**SB-19-SO-0-2-20230425**	EPA 8082A	BLM	10	PASI-G
		ASTM D2974-87	SRG	1	PASI-G
40261296002	**SB-19-SO-10-12-20230425**	EPA 8082A	BLM	10	PASI-G
		ASTM D2974-87	SRG	1	PASI-G
40261296003	**SB-20-SO-0-2-20230425**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
40261296004	**SB-20-SO-10-12-20230425**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
40261296005	**SB-21-SO-0-2-20230425**	EPA 8082A	BLM	10	PASI-G
		ASTM D2974-87	SRG	1	PASI-G
40261296006	**SB-21-SO-10-12-20230425**	EPA 8082A	BLM	10	PASI-G
		ASTM D2974-87	SRG	1	PASI-G
40261296007	**SB-22-SO-0-2-20230425**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
40261296008	**SB-22-SO-10-12-20230425**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
40261296011	**SB-24-SO-0-2-20230425**	EPA 8082A	BLM	10	PASI-G
		ASTM D2974-87	SRG	1	PASI-G
40261296012	**SB-24-SO-10-12-20230425**	EPA 8082A	BLM	10	PASI-G
		ASTM D2974-87	SRG	1	PASI-G
40261296013	**SB-25-SO-0-2-20230425**	EPA 8082A	BLM	10	PASI-G
		ASTM D2974-87	SRG	1	PASI-G
40261296014	**SB-25-SO-10-12-20230425**	EPA 8082A	BLM	10	PASI-G
		ASTM D2974-87	SRG	1	PASI-G
40261296015	**SB-26-SO-0-2-20230425**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
40261296016	**SB-26-SO-10-12-20230425**	EPA 8082A	BDS	10	PASI-G
		ASTM D2974-87	NMK	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

Sample: SB-19-SO-0-2-20230425 **Lab ID: 40261296001** Collected: 04/25/23 09:15 Received: 04/26/23 09:00 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 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<17.4**	ug/kg	57.3	17.4	1	04/27/23 14:04	04/28/23 14:00	12674-11-2	
PCB-1221 (Aroclor 1221)	**<17.4**	ug/kg	57.3	17.4	1	04/27/23 14:04	04/28/23 14:00	11104-28-2	
PCB-1232 (Aroclor 1232)	**<17.4**	ug/kg	57.3	17.4	1	04/27/23 14:04	04/28/23 14:00	11141-16-5	
PCB-1242 (Aroclor 1242)	**<17.4**	ug/kg	57.3	17.4	1	04/27/23 14:04	04/28/23 14:00	53469-21-9	
PCB-1248 (Aroclor 1248)	**<17.4**	ug/kg	57.3	17.4	1	04/27/23 14:04	04/28/23 14:00	12672-29-6	
PCB-1254 (Aroclor 1254)	**<17.4**	ug/kg	57.3	17.4	1	04/27/23 14:04	04/28/23 14:00	11097-69-1	
PCB-1260 (Aroclor 1260)	**<17.4**	ug/kg	57.3	17.4	1	04/27/23 14:04	04/28/23 14:00	11096-82-5	
PCB, Total	**<17.4**	ug/kg	57.3	17.4	1	04/27/23 14:04	04/28/23 14:00	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	83	%	50-99		1	04/27/23 14:04	04/28/23 14:00	877-09-8	
Decachlorobiphenyl (S)	69	%	38-95		1	04/27/23 14:04	04/28/23 14:00	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**12.6**	%	0.10	0.10	1		04/26/23 17:25		

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

Sample: SB-19-SO-10-12-20230425 **Lab ID: 40261296002** Collected: 04/25/23 09:45 Received: 04/26/23 09:00 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 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.2**	ug/kg	53.2	16.2	1	04/27/23 14:04	04/28/23 14:21	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.2**	ug/kg	53.2	16.2	1	04/27/23 14:04	04/28/23 14:21	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.2**	ug/kg	53.2	16.2	1	04/27/23 14:04	04/28/23 14:21	11141-16-5	
PCB-1242 (Aroclor 1242)	**55.8**	ug/kg	53.2	16.2	1	04/27/23 14:04	04/28/23 14:21	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.2**	ug/kg	53.2	16.2	1	04/27/23 14:04	04/28/23 14:21	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.2**	ug/kg	53.2	16.2	1	04/27/23 14:04	04/28/23 14:21	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.2**	ug/kg	53.2	16.2	1	04/27/23 14:04	04/28/23 14:21	11096-82-5	
PCB, Total	**55.8**	ug/kg	53.2	16.2	1	04/27/23 14:04	04/28/23 14:21	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	73	%	50-99		1	04/27/23 14:04	04/28/23 14:21	877-09-8	
Decachlorobiphenyl (S)	65	%	38-95		1	04/27/23 14:04	04/28/23 14:21	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**6.4**	%	0.10	0.10	1		04/26/23 17:25		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

ANALYTICAL RESULTS

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

Sample: SB-20-SO-0-2-20230425 **Lab ID: 40261296003** Collected: 04/25/23 10:10 Received: 04/26/23 09:00 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 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.7**	ug/kg	54.8	16.7	1	05/03/23 15:30	05/05/23 05:31	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.7**	ug/kg	54.8	16.7	1	05/03/23 15:30	05/05/23 05:31	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.7**	ug/kg	54.8	16.7	1	05/03/23 15:30	05/05/23 05:31	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.7**	ug/kg	54.8	16.7	1	05/03/23 15:30	05/05/23 05:31	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.7**	ug/kg	54.8	16.7	1	05/03/23 15:30	05/05/23 05:31	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.7**	ug/kg	54.8	16.7	1	05/03/23 15:30	05/05/23 05:31	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.7**	ug/kg	54.8	16.7	1	05/03/23 15:30	05/05/23 05:31	11096-82-5	
PCB, Total	**<16.7**	ug/kg	54.8	16.7	1	05/03/23 15:30	05/05/23 05:31	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	78	%	44-120		1	05/03/23 15:30	05/05/23 05:31	877-09-8	
Decachlorobiphenyl (S)	70	%	34-120		1	05/03/23 15:30	05/05/23 05:31	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**8.6**	%	0.10	0.10	1		05/08/23 14:47		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

Sample: SB-20-SO-10-12-20230425 **Lab ID: 40261296004** Collected: 04/25/23 10:15 Received: 04/26/23 09:00 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 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.1**	ug/kg	52.9	16.1	1	05/03/23 15:30	05/05/23 05:53	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.1**	ug/kg	52.9	16.1	1	05/03/23 15:30	05/05/23 05:53	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.1**	ug/kg	52.9	16.1	1	05/03/23 15:30	05/05/23 05:53	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.1**	ug/kg	52.9	16.1	1	05/03/23 15:30	05/05/23 05:53	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.1**	ug/kg	52.9	16.1	1	05/03/23 15:30	05/05/23 05:53	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.1**	ug/kg	52.9	16.1	1	05/03/23 15:30	05/05/23 05:53	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.1**	ug/kg	52.9	16.1	1	05/03/23 15:30	05/05/23 05:53	11096-82-5	
PCB, Total	**<16.1**	ug/kg	52.9	16.1	1	05/03/23 15:30	05/05/23 05:53	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	75	%	44-120		1	05/03/23 15:30	05/05/23 05:53	877-09-8	
Decachlorobiphenyl (S)	71	%	34-120		1	05/03/23 15:30	05/05/23 05:53	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.5**	%	0.10	0.10	1		05/08/23 16:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

Sample: SB-21-SO-0-2-20230425 **Lab ID: 40261296005** Collected: 04/25/23 10:25 Received: 04/26/23 09:00 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 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.2**	ug/kg	53.3	16.2	1	04/27/23 14:04	04/28/23 14:43	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.2**	ug/kg	53.3	16.2	1	04/27/23 14:04	04/28/23 14:43	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.2**	ug/kg	53.3	16.2	1	04/27/23 14:04	04/28/23 14:43	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.2**	ug/kg	53.3	16.2	1	04/27/23 14:04	04/28/23 14:43	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.2**	ug/kg	53.3	16.2	1	04/27/23 14:04	04/28/23 14:43	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.2**	ug/kg	53.3	16.2	1	04/27/23 14:04	04/28/23 14:43	11097-69-1	
PCB-1260 (Aroclor 1260)	**20.4J**	ug/kg	53.3	16.2	1	04/27/23 14:04	04/28/23 14:43	11096-82-5	
PCB, Total	**20.4J**	ug/kg	53.3	16.2	1	04/27/23 14:04	04/28/23 14:43	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	50-99		1	04/27/23 14:04	04/28/23 14:43	877-09-8	
Decachlorobiphenyl (S)	75	%	38-95		1	04/27/23 14:04	04/28/23 14:43	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.9**	%	0.10	0.10	1		04/26/23 17:25		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

Sample: SB-21-SO-10-12-20230425 **Lab ID: 40261296006** Collected: 04/25/23 10:30 Received: 04/26/23 09:00 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 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.3**	ug/kg	53.6	16.3	1	04/27/23 14:04	04/28/23 15:05	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.3**	ug/kg	53.6	16.3	1	04/27/23 14:04	04/28/23 15:05	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.3**	ug/kg	53.6	16.3	1	04/27/23 14:04	04/28/23 15:05	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.3**	ug/kg	53.6	16.3	1	04/27/23 14:04	04/28/23 15:05	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.3**	ug/kg	53.6	16.3	1	04/27/23 14:04	04/28/23 15:05	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.3**	ug/kg	53.6	16.3	1	04/27/23 14:04	04/28/23 15:05	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.3**	ug/kg	53.6	16.3	1	04/27/23 14:04	04/28/23 15:05	11096-82-5	
PCB, Total	**<16.3**	ug/kg	53.6	16.3	1	04/27/23 14:04	04/28/23 15:05	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	50-99		1	04/27/23 14:04	04/28/23 15:05	877-09-8	
Decachlorobiphenyl (S)	79	%	38-95		1	04/27/23 14:04	04/28/23 15:05	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**6.6**	%	0.10	0.10	1		04/26/23 17:26		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

ANALYTICAL RESULTS

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

Sample: SB-22-SO-0-2-20230425 **Lab ID: 40261296007** Collected: 04/25/23 10:40 Received: 04/26/23 09:00 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 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.2**	ug/kg	53.2	16.2	1	05/03/23 15:30	05/05/23 06:14	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.2**	ug/kg	53.2	16.2	1	05/03/23 15:30	05/05/23 06:14	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.2**	ug/kg	53.2	16.2	1	05/03/23 15:30	05/05/23 06:14	11141-16-5	
PCB-1242 (Aroclor 1242)	**20.7J**	ug/kg	53.2	16.2	1	05/03/23 15:30	05/05/23 06:14	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.2**	ug/kg	53.2	16.2	1	05/03/23 15:30	05/05/23 06:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.2**	ug/kg	53.2	16.2	1	05/03/23 15:30	05/05/23 06:14	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.2**	ug/kg	53.2	16.2	1	05/03/23 15:30	05/05/23 06:14	11096-82-5	
PCB, Total	**20.7J**	ug/kg	53.2	16.2	1	05/03/23 15:30	05/05/23 06:14	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	76	%	44-120		1	05/03/23 15:30	05/05/23 06:14	877-09-8	
Decachlorobiphenyl (S)	71	%	34-120		1	05/03/23 15:30	05/05/23 06:14	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.8**	%	0.10	0.10	1		05/08/23 14:47		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

Sample: SB-22-SO-10-12-20230425 **Lab ID: 40261296008** Collected: 04/25/23 11:00 Received: 04/26/23 09:00 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 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.5**	ug/kg	54.2	16.5	1	05/03/23 15:30	05/05/23 06:35	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.5**	ug/kg	54.2	16.5	1	05/03/23 15:30	05/05/23 06:35	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.5**	ug/kg	54.2	16.5	1	05/03/23 15:30	05/05/23 06:35	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.5**	ug/kg	54.2	16.5	1	05/03/23 15:30	05/05/23 06:35	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.5**	ug/kg	54.2	16.5	1	05/03/23 15:30	05/05/23 06:35	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.5**	ug/kg	54.2	16.5	1	05/03/23 15:30	05/05/23 06:35	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.5**	ug/kg	54.2	16.5	1	05/03/23 15:30	05/05/23 06:35	11096-82-5	
PCB, Total	**<16.5**	ug/kg	54.2	16.5	1	05/03/23 15:30	05/05/23 06:35	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	76	%	44-120		1	05/03/23 15:30	05/05/23 06:35	877-09-8	
Decachlorobiphenyl (S)	70	%	34-120		1	05/03/23 15:30	05/05/23 06:35	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**7.5**	%	0.10	0.10	1		05/08/23 14:47		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

Sample: SB-24-SO-0-2-20230425 **Lab ID: 40261296011** Collected: 04/25/23 11:55 Received: 04/26/23 09:00 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 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.9**	ug/kg	55.5	16.9	1	04/27/23 14:04	04/28/23 15:27	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.9**	ug/kg	55.5	16.9	1	04/27/23 14:04	04/28/23 15:27	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.9**	ug/kg	55.5	16.9	1	04/27/23 14:04	04/28/23 15:27	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.9**	ug/kg	55.5	16.9	1	04/27/23 14:04	04/28/23 15:27	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.9**	ug/kg	55.5	16.9	1	04/27/23 14:04	04/28/23 15:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.9**	ug/kg	55.5	16.9	1	04/27/23 14:04	04/28/23 15:27	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.9**	ug/kg	55.5	16.9	1	04/27/23 14:04	04/28/23 15:27	11096-82-5	
PCB, Total	**<16.9**	ug/kg	55.5	16.9	1	04/27/23 14:04	04/28/23 15:27	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	77	%	50-99		1	04/27/23 14:04	04/28/23 15:27	877-09-8	
Decachlorobiphenyl (S)	71	%	38-95		1	04/27/23 14:04	04/28/23 15:27	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**9.7**	%	0.10	0.10	1		04/26/23 17:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

Sample: SB-24-SO-10-12-20230425 **Lab ID: 40261296012** Collected: 04/25/23 13:45 Received: 04/26/23 09:00 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 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.4**	ug/kg	54.0	16.4	1	04/27/23 14:04	04/28/23 15:49	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.4**	ug/kg	54.0	16.4	1	04/27/23 14:04	04/28/23 15:49	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.4**	ug/kg	54.0	16.4	1	04/27/23 14:04	04/28/23 15:49	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.4**	ug/kg	54.0	16.4	1	04/27/23 14:04	04/28/23 15:49	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.4**	ug/kg	54.0	16.4	1	04/27/23 14:04	04/28/23 15:49	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.4**	ug/kg	54.0	16.4	1	04/27/23 14:04	04/28/23 15:49	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.4**	ug/kg	54.0	16.4	1	04/27/23 14:04	04/28/23 15:49	11096-82-5	
PCB, Total	**<16.4**	ug/kg	54.0	16.4	1	04/27/23 14:04	04/28/23 15:49	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	78	%	50-99		1	04/27/23 14:04	04/28/23 15:49	877-09-8	
Decachlorobiphenyl (S)	73	%	38-95		1	04/27/23 14:04	04/28/23 15:49	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**7.4**	%	0.10	0.10	1		04/26/23 17:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

Sample: SB-25-SO-0-2-20230425 **Lab ID: 40261296013** Collected: 04/25/23 12:45 Received: 04/26/23 09:00 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 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.4**	ug/kg	53.8	16.4	1	04/27/23 14:04	04/28/23 16:11	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.4**	ug/kg	53.8	16.4	1	04/27/23 14:04	04/28/23 16:11	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.4**	ug/kg	53.8	16.4	1	04/27/23 14:04	04/28/23 16:11	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.4**	ug/kg	53.8	16.4	1	04/27/23 14:04	04/28/23 16:11	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.4**	ug/kg	53.8	16.4	1	04/27/23 14:04	04/28/23 16:11	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.4**	ug/kg	53.8	16.4	1	04/27/23 14:04	04/28/23 16:11	11097-69-1	
PCB-1260 (Aroclor 1260)	**28.7J**	ug/kg	53.8	16.4	1	04/27/23 14:04	04/28/23 16:11	11096-82-5	
PCB, Total	**28.7J**	ug/kg	53.8	16.4	1	04/27/23 14:04	04/28/23 16:11	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	50-99		1	04/27/23 14:04	04/28/23 16:11	877-09-8	
Decachlorobiphenyl (S)	77	%	38-95		1	04/27/23 14:04	04/28/23 16:11	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**7.1**	%	0.10	0.10	1		04/26/23 17:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

Sample: SB-25-SO-10-12-20230425 **Lab ID: 40261296014** Collected: 04/25/23 12:50 Received: 04/26/23 09:00 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 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.5**	ug/kg	54.2	16.5	1	04/27/23 14:04	04/28/23 16:32	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.5**	ug/kg	54.2	16.5	1	04/27/23 14:04	04/28/23 16:32	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.5**	ug/kg	54.2	16.5	1	04/27/23 14:04	04/28/23 16:32	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.5**	ug/kg	54.2	16.5	1	04/27/23 14:04	04/28/23 16:32	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.5**	ug/kg	54.2	16.5	1	04/27/23 14:04	04/28/23 16:32	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.5**	ug/kg	54.2	16.5	1	04/27/23 14:04	04/28/23 16:32	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.5**	ug/kg	54.2	16.5	1	04/27/23 14:04	04/28/23 16:32	11096-82-5	
PCB, Total	**<16.5**	ug/kg	54.2	16.5	1	04/27/23 14:04	04/28/23 16:32	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	73	%	50-99		1	04/27/23 14:04	04/28/23 16:32	877-09-8	
Decachlorobiphenyl (S)	68	%	38-95		1	04/27/23 14:04	04/28/23 16:32	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**7.7**	%	0.10	0.10	1		04/26/23 17:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

Sample: SB-26-SO-0-2-20230425 **Lab ID: 40261296015** Collected: 04/25/23 13:00 Received: 04/26/23 09:00 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 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.2**	ug/kg	53.1	16.2	1	05/03/23 15:30	05/05/23 06:56	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.2**	ug/kg	53.1	16.2	1	05/03/23 15:30	05/05/23 06:56	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.2**	ug/kg	53.1	16.2	1	05/03/23 15:30	05/05/23 06:56	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.2**	ug/kg	53.1	16.2	1	05/03/23 15:30	05/05/23 06:56	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.2**	ug/kg	53.1	16.2	1	05/03/23 15:30	05/05/23 06:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.2**	ug/kg	53.1	16.2	1	05/03/23 15:30	05/05/23 06:56	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.2**	ug/kg	53.1	16.2	1	05/03/23 15:30	05/05/23 06:56	11096-82-5	
PCB, Total	**<16.2**	ug/kg	53.1	16.2	1	05/03/23 15:30	05/05/23 06:56	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	74	%	44-120		1	05/03/23 15:30	05/05/23 06:56	877-09-8	
Decachlorobiphenyl (S)	71	%	34-120		1	05/03/23 15:30	05/05/23 06:56	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**6.1**	%	0.10	0.10	1		05/08/23 17:18		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

Sample: SB-26-SO-10-12-20230425 **Lab ID: 40261296016** Collected: 04/25/23 13:10 Received: 04/26/23 09:00 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 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<17.7**	ug/kg	58.3	17.7	1	05/03/23 15:30	05/05/23 07:18	12674-11-2	
PCB-1221 (Aroclor 1221)	**<17.7**	ug/kg	58.3	17.7	1	05/03/23 15:30	05/05/23 07:18	11104-28-2	
PCB-1232 (Aroclor 1232)	**<17.7**	ug/kg	58.3	17.7	1	05/03/23 15:30	05/05/23 07:18	11141-16-5	
PCB-1242 (Aroclor 1242)	**<17.7**	ug/kg	58.3	17.7	1	05/03/23 15:30	05/05/23 07:18	53469-21-9	
PCB-1248 (Aroclor 1248)	**<17.7**	ug/kg	58.3	17.7	1	05/03/23 15:30	05/05/23 07:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**53.8J**	ug/kg	58.3	17.7	1	05/03/23 15:30	05/05/23 07:18	11097-69-1	
PCB-1260 (Aroclor 1260)	**18.0J**	ug/kg	58.3	17.7	1	05/03/23 15:30	05/05/23 07:18	11096-82-5	
PCB, Total	**71.8**	ug/kg	58.3	17.7	1	05/03/23 15:30	05/05/23 07:18	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	73	%	44-120		1	05/03/23 15:30	05/05/23 07:18	877-09-8	
Decachlorobiphenyl (S)	63	%	34-120		1	05/03/23 15:30	05/05/23 07:18	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**14.0**	%	0.10	0.10	1		05/08/23 14:47		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

QC Batch: 443470
QC Batch Method: EPA 3541
Analysis Method: EPA 8082A
Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261296001, 40261296002, 40261296005, 40261296006, 40261296011, 40261296012, 40261296013, 40261296014

METHOD BLANK: 2546228 Matrix: Solid
Associated Lab Samples: 40261296001, 40261296002, 40261296005, 40261296006, 40261296011, 40261296012, 40261296013, 40261296014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<15.2	50.0	04/28/23 05:01	
PCB-1221 (Aroclor 1221)	ug/kg	<15.2	50.0	04/28/23 05:01	
PCB-1232 (Aroclor 1232)	ug/kg	<15.2	50.0	04/28/23 05:01	
PCB-1242 (Aroclor 1242)	ug/kg	<15.2	50.0	04/28/23 05:01	
PCB-1248 (Aroclor 1248)	ug/kg	<15.2	50.0	04/28/23 05:01	
PCB-1254 (Aroclor 1254)	ug/kg	<15.2	50.0	04/28/23 05:01	
PCB-1260 (Aroclor 1260)	ug/kg	<15.2	50.0	04/28/23 05:01	
Decachlorobiphenyl (S)	%	82	38-95	04/28/23 05:01	
Tetrachloro-m-xylene (S)	%	82	50-99	04/28/23 05:01	

LABORATORY CONTROL SAMPLE: 2546229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<15.2			
PCB-1221 (Aroclor 1221)	ug/kg		<15.2			
PCB-1232 (Aroclor 1232)	ug/kg		<15.2			
PCB-1242 (Aroclor 1242)	ug/kg		<15.2			
PCB-1248 (Aroclor 1248)	ug/kg		<15.2			
PCB-1254 (Aroclor 1254)	ug/kg		<15.2			
PCB-1260 (Aroclor 1260)	ug/kg	500	427	85	71-104	
Decachlorobiphenyl (S)	%			81	38-95	
Tetrachloro-m-xylene (S)	%			78	50-99	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2546230 2546231

Parameter	Units	40261298002 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	<16.4			<16.3	<16.5					20	
PCB-1221 (Aroclor 1221)	ug/kg	<16.4			<16.3	<16.5					20	
PCB-1232 (Aroclor 1232)	ug/kg	<16.4			<16.3	<16.5					20	
PCB-1242 (Aroclor 1242)	ug/kg	<16.4			<16.3	<16.5					20	
PCB-1248 (Aroclor 1248)	ug/kg	<16.4			<16.3	<16.5					20	
PCB-1254 (Aroclor 1254)	ug/kg	<16.4			<16.3	<16.5					20	
PCB-1260 (Aroclor 1260)	ug/kg	<16.4	537	541	408	403	76	75	42-109	1	20	
Decachlorobiphenyl (S)	%						71	73	38-95			
Tetrachloro-m-xylene (S)	%						70	73	50-99			

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

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

QC Batch: 444053
QC Batch Method: EPA 3541
Analysis Method: EPA 8082A
Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261296003, 40261296004, 40261296007, 40261296008, 40261296015, 40261296016

METHOD BLANK: 2549312 Matrix: Solid
Associated Lab Samples: 40261296003, 40261296004, 40261296007, 40261296008, 40261296015, 40261296016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<15.2	50.0	05/04/23 19:58	
PCB-1221 (Aroclor 1221)	ug/kg	<15.2	50.0	05/04/23 19:58	
PCB-1232 (Aroclor 1232)	ug/kg	<15.2	50.0	05/04/23 19:58	
PCB-1242 (Aroclor 1242)	ug/kg	<15.2	50.0	05/04/23 19:58	
PCB-1248 (Aroclor 1248)	ug/kg	<15.2	50.0	05/04/23 19:58	
PCB-1254 (Aroclor 1254)	ug/kg	<15.2	50.0	05/04/23 19:58	
PCB-1260 (Aroclor 1260)	ug/kg	<15.2	50.0	05/04/23 19:58	
Decachlorobiphenyl (S)	%	79	34-120	05/04/23 19:58	
Tetrachloro-m-xylene (S)	%	80	44-120	05/04/23 19:58	

LABORATORY CONTROL SAMPLE: 2549313

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<15.2			
PCB-1221 (Aroclor 1221)	ug/kg		<15.2			
PCB-1232 (Aroclor 1232)	ug/kg		<15.2			
PCB-1242 (Aroclor 1242)	ug/kg		<15.2			
PCB-1248 (Aroclor 1248)	ug/kg		<15.2			
PCB-1254 (Aroclor 1254)	ug/kg		<15.2			
PCB-1260 (Aroclor 1260)	ug/kg	500	372	74	69-120	
Decachlorobiphenyl (S)	%			73	34-120	
Tetrachloro-m-xylene (S)	%			73	44-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2549314 2549315

Parameter	Units	40261512018 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	<0.018 mg/kg			<18.4	<18.4					20	
PCB-1221 (Aroclor 1221)	ug/kg	<0.018 mg/kg			<18.4	<18.4					20	
PCB-1232 (Aroclor 1232)	ug/kg	<0.018 mg/kg			<18.4	<18.4					20	
PCB-1242 (Aroclor 1242)	ug/kg	<0.018 mg/kg			<18.4	<18.4					20	
PCB-1248 (Aroclor 1248)	ug/kg	<0.018 mg/kg			<18.4	<18.4					20	
PCB-1254 (Aroclor 1254)	ug/kg	0.045J mg/kg			91.6	284				102	20	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2549314 2549315

Parameter	Units	40261512018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1260 (Aroclor 1260)	ug/kg	0.044J mg/kg	606	605	502	499	76	75	51-120	1	20	
Decachlorobiphenyl (S)	%						75	71	34-120			
Tetrachloro-m-xylene (S)	%						78	75	44-120			

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

QC Batch: 443368
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261296001, 40261296002, 40261296005, 40261296006, 40261296011, 40261296012, 40261296013, 40261296014

SAMPLE DUPLICATE: 2545760

Parameter	Units	40261299003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.5	18.8	9	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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

QC Batch: 444302
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40261296003, 40261296007, 40261296008, 40261296016

SAMPLE DUPLICATE: 2550768

Parameter	Units	40261731001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.6	6.5	1	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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

QC Batch: 444313
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261296004

SAMPLE DUPLICATE: 2550825

Parameter	Units	40261296004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.5	5.5	0	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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

QC Batch: 444314
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40261296015

SAMPLE DUPLICATE: 2550826

Parameter	Units	40261296015 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.1	6.6	8	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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

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.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 0383990-THERMO FISCHER
Pace Project No.: 40261296

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40261296001	**SB-19-SO-0-2-20230425**	EPA 3541	443470	EPA 8082A	443471
40261296002	**SB-19-SO-10-12-20230425**	EPA 3541	443470	EPA 8082A	443471
40261296003	**SB-20-SO-0-2-20230425**	EPA 3541	444053	EPA 8082A	444081
40261296004	**SB-20-SO-10-12-20230425**	EPA 3541	444053	EPA 8082A	444081
40261296005	**SB-21-SO-0-2-20230425**	EPA 3541	443470	EPA 8082A	443471
40261296006	**SB-21-SO-10-12-20230425**	EPA 3541	443470	EPA 8082A	443471
40261296007	**SB-22-SO-0-2-20230425**	EPA 3541	444053	EPA 8082A	444081
40261296008	**SB-22-SO-10-12-20230425**	EPA 3541	444053	EPA 8082A	444081
40261296011	**SB-24-SO-0-2-20230425**	EPA 3541	443470	EPA 8082A	443471
40261296012	**SB-24-SO-10-12-20230425**	EPA 3541	443470	EPA 8082A	443471
40261296013	**SB-25-SO-0-2-20230425**	EPA 3541	443470	EPA 8082A	443471
40261296014	**SB-25-SO-10-12-20230425**	EPA 3541	443470	EPA 8082A	443471
40261296015	**SB-26-SO-0-2-20230425**	EPA 3541	444053	EPA 8082A	444081
40261296016	**SB-26-SO-10-12-20230425**	EPA 3541	444053	EPA 8082A	444081
40261296001	**SB-19-SO-0-2-20230425**	ASTM D2974-87	443368		
40261296002	**SB-19-SO-10-12-20230425**	ASTM D2974-87	443368		
40261296003	**SB-20-SO-0-2-20230425**	ASTM D2974-87	444302		
40261296004	**SB-20-SO-10-12-20230425**	ASTM D2974-87	444313		
40261296005	**SB-21-SO-0-2-20230425**	ASTM D2974-87	443368		
40261296006	**SB-21-SO-10-12-20230425**	ASTM D2974-87	443368		
40261296007	**SB-22-SO-0-2-20230425**	ASTM D2974-87	444302		
40261296008	**SB-22-SO-10-12-20230425**	ASTM D2974-87	444302		
40261296011	**SB-24-SO-0-2-20230425**	ASTM D2974-87	443368		
40261296012	**SB-24-SO-10-12-20230425**	ASTM D2974-87	443368		
40261296013	**SB-25-SO-0-2-20230425**	ASTM D2974-87	443368		
40261296014	**SB-25-SO-10-12-20230425**	ASTM D2974-87	443368		
40261296015	**SB-26-SO-0-2-20230425**	ASTM D2974-87	444314		
40261296016	**SB-26-SO-10-12-20230425**	ASTM D2974-87	444302		

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here

40261296

ALL SHADED AREAS are for LAB USE ONLY

Company: ERM

Billing Information:

Address: 731 W Greenfield Ave Milwaukee WI 53214

Report To: John.Roberts@ERM.com

Email To: John.Roberts@ERM.com leann.Grahe@ERM.com Ryan.Plath@ERM.com

Copy To:

Site Collection Info/Address:

Customer Project Name/Number: 0383990-Thermo Fischer

State: WI / County/City: Two Rivers / Time Zone Collected: [ ] PT [ ] MT [X] CT [ ] ET

Container Preservative Type ** U

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ______

Analyses: 1,4-Dioxane? / PDBS & Dry weight

Phone:
Email:

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Leann Grahe

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature): [signature]

Turnaround Date Required: Standard

Immediately Packed on Ice: [X] Yes [ ] No

Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: ______ [X] Hold: Those marked Hold

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: ______

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: ______
Sample pH Acceptable Y N NA
pH Strips: ______
Sulfide Present Y N NA
Lead Acetate Strips: ______

LAB USE ONLY:
Lab Sample # / Comments:

(MWB 04/26/2023)

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix * (Soil)	Comp / Grab	Collected Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	1,4-Dioxane / PDBS & Dry weight	Lab Sample # / Comments
SB-19-SO-0-2-20230425	SL		04/25/23	0915				1	X	001
SB-19-SO-10-12-20230425			04/25/23	0945				1	X	002
SB-20-SO-0-2-20230425			04/25/23	1010				1	X	Hold 003
SB-20-SO-10-12-20230425			04/25/23	1015				1	X	Hold 004
SB-21-SO-0-2-20230425			04/25/23	1025				1	X	005
SB-21-SO-10-12-20230425			04/25/23	1030				1	X	006
SB-22-SO-0-2-20230425			04/25/23	1040				1	X	Hold 007
SB-22-SO-10-12-20230425			04/25/23	1100				1	X	Hold 008
SB-23-SO-0-2-20230425			04/25/23	1130				1	X	Hold 009
			04/25/23							

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: (MWB) See

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: SCUR 2829450 (04/26/2023)

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 117
Cooler 1 Temp Upon Receipt: 2.0 oC
Cooler 1 Therm Corr. Factor: +0.5 oC
Cooler 1 Corrected Temp: 2.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
ERM [signature]	4/26/23 0900	[signature] Pace	04/26/23 0900

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:
(MWB 04/26/2023)

Trip Blank Received: Y N NA
HCl MeOH TSP Other

Non Conformance(s): YES / NO (MWB 04/26/2023)

Page: 1 of: 2

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40261296

ALL SHADED AREAS are for LAB USE ONLY

Company: ERM	Billing Information:
Address: 7311 West Greenfield Ave milwaukee WI 53214	
Report To: John Roberts	Email To: John.Roberts@ERM.com Ryan.Plath@erm.com Leann.Grahe@erm.com
Copy To:	Site Collection Info/Address: two-Rivers
Customer Project Name/Number: 0383990 - Thermofisher	State: WI County/City: Two Rivers Time Zone Collected: [ ] PT [ ] MT [X] CT [ ] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Leann Grahe Ryan Plath	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type **: V

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses: PCBs $ day weight

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:

Lab Sample # / Comments:

04/26/2023

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns		Lab Sample # / Comments
SB-23-50-10-12-2023425	SL		04/25/23	1145				1	X	Hold 010
SB-24-50-0-2-2023425			04/25/23	1155				1	X	011
SB-24-50-10-12-2023425			04/25/23	1345				1	X	012
SB-25-50-0-2-2023425			04/25/23	1245				1	X	013
SB-25-50-10-12-2023425			04/25/23	1250				1	X	014
SB-26-50-0-2-2023425			04/25/23	1300				1	X	Hold 015
SB-26-50-10-12-2023425			04/25/23	1310				1	X	Hold 016

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: WPB See

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: SCW 2829449 04/26/2023

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: 117

Cooler 1 Temp Upon Receipt: 2.0 oC

Cooler 1 Therm Corr. Factor: +0.5 oC

Cooler 1 Corrected Temp: 2.5 oC

Comments:

Relinquished by/Company: (Signature) ERM	Date/Time: 0900 4/26/23	Received by/Company: (Signature) Susan Kilyk Pace	Date/Time: 0900 04/26/23	MTJL LAB USE ONLY Table #: Acctnum: Template: Prelogin: PM: 04/26/2023 PB:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES NO

Client Name: ERM

Sample Preservation Receipt Form

Project # 402612946

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: MM Date/ Time:

	Glass						Plastic						Vials						Jars				General								
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																																		2.5 / 5
002																																		2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

04/26/2023 MM

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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4
BP2Z	500 mL plastic NaOH + Zn

VG9C	40 mL clear ascorbic w/ HCl
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN 1	
GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40261296

40261296

Client Name: ERM

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☑ Client ☐ Pace Other: _____

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 - 117 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 2.0 /Corr: 2.5

Temp Blank Present: ☑ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 04/26/2023 /Initials: MW

Labeled By Initials: SC

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- DI VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time.
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
Correct Type: (Pace Green Bay) Pace IR, Non-Pace		
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑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: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Page 2 of 2

ATTACHMENT B: GROUNDWATER SAMPLING RESULTS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

July 14, 2023

Ryan Plath
ERM, INC.
7311 W. Greenfield Ave.
Milwaukee, WI 53214

RE: Project: 0383990-THERMOFISHER
Pace Project No.: 40264224

Dear Ryan Plath:

Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Gulf Coast
- Pace Analytical Services - Green Bay

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

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: John Roberts, ERM, Inc.
David deCourcy-Bower, ERM, Inc.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 0383990-THERMOFISHER
Pace Project No.: 40264224

Pace Analytical Services Green Bay
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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

Pace Analytical Gulf Coast
7979 Innovation Park Drive, Baton Rouge, LA 70820
Arkansas Certification #: 88-0655
DoD ELAP Certification #: 6429-01
Florida Certification #: E87854
Illinois Certification #: 004585
Kansas Certification #: E-10354
Louisiana/LELAP Certification #: 01955
North Carolina Certification #: 618
North Dakota Certification #: R-195
Oklahoma Certification #: 2019-101
South Carolina Certification #: 73006001
Texas Certification #: T104704178-19-11
USDA Soil Permit # P330-19-00209
Virginia Certification #: 460215
Washington Certification #: C929

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 0383990-THERMOFISHER
Pace Project No.: 40264224

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40264224001	**MW-03-WG-20230619**	Water	06/19/23 08:20	06/23/23 10:37
40264224002	**TB-01-WQ-20230620**	Water	06/20/23 09:25	06/23/23 10:37
40264224003	**TB-02-WQ-20230620**	Water	06/20/23 09:25	06/23/23 10:37
40264224004	**MW-13D-WG-20230620**	Water	06/20/23 10:10	06/23/23 10:37
40264224005	**MW-13S-WG-20230620**	Water	06/20/23 11:40	06/23/23 10:37
40264224006	**MW-01-WG-20230620**	Water	06/20/23 09:30	06/23/23 10:37
40264224007	**MW-26-WG-20230620**	Water	06/20/23 11:50	06/23/23 10:37
40264224008	**MW-21S-WG-20230620**	Water	06/20/23 14:30	06/23/23 10:37
40264224009	**MW-16-WG-20230620**	Water	06/20/23 14:50	06/23/23 10:37
40264224010	**MW-10S-WG-20230620**	Water	06/20/23 16:25	06/23/23 10:37
40264224011	**MW-18S-WG-20230620**	Water	06/20/23 16:35	06/23/23 10:37
40264224012	**MW-08-WG-20230621**	Water	06/21/23 08:30	06/23/23 10:37
40264224013	**MW-19S-WG-20230621**	Water	06/21/23 08:50	06/23/23 10:37
40264224014	**MW-8S-WG-20230621**	Water	06/21/23 09:40	06/23/23 10:37
40264224015	**MW-05-WG-20230621**	Water	06/21/23 11:30	06/23/23 10:37
40264224016	**MW-24S-WG-20230621**	Water	06/21/23 10:20	06/23/23 10:37
40264224017	**MW-25S-WG-20230621**	Water	06/21/23 12:10	06/23/23 10:37
40264224018	**MW-10D-WG-20230621**	Water	06/21/23 13:15	06/23/23 10:37
40264224019	**MW-12S-WG-20230621**	Water	06/21/23 15:10	06/23/23 10:37
40264224020	**FB-01-WQ-20230621**	Water	06/21/23 16:10	06/23/23 10:37
40264224021	**FB-02-WQ-20230621**	Water	06/21/23 16:10	06/23/23 10:37
40264224022	**MW-9S-WG-20230621**	Water	06/21/23 15:35	06/23/23 10:37
40264224023	**MW-09-WG-20230622**	Water	06/22/23 08:25	06/23/23 10:37
40264224024	**MW-15S-WG-20230622**	Water	06/22/23 09:25	06/23/23 10:37
40264224025	**MW-17S-WG-20230622**	Water	06/22/23 08:45	06/23/23 10:37
40264224026	**MW-14S-WG-20230622**	Water	06/22/23 10:30	06/23/23 10:37
40264224027	**MW-20S-WG-20230622**	Water	06/22/23 11:00	06/23/23 10:37
40264224028	**MW-15D-WG-20230622**	Water	06/22/23 12:40	06/23/23 10:37
40264224029	**MW-13S-WG-20230622**	Water	06/22/23 14:40	06/23/23 10:37
40264224030	**MW-6S-WG-20230622**	Water	06/22/23 12:10	06/23/23 10:37
40264224031	**MW-7S-WG-20230622**	Water	06/22/23 14:20	06/23/23 10:37
40264224032	**MW-04-WG-20230622**	Water	06/22/23 16:00	06/23/23 10:37
40264224033	**MW-15I-WG-20230623**	Water	06/23/23 09:05	06/23/23 10:37
40264224034	**MW-23S-WG-20230621**	Water	06/21/23 14:10	06/23/23 10:37
40264224035	**DUP-01-WG-20230622**	Water	06/22/23 00:00	06/23/23 10:37
40264224036	**DUP-02-WG-20230622**	Water	06/22/23 00:00	06/23/23 10:37
40264224037	**DUP-03-WG-20230623**	Water	06/23/23 00:00	06/23/23 10:37

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 0383990-THERMOFISHER
Pace Project No.: 40264224

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40264224001	**MW-03-WG-20230619**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224002	**TB-01-WQ-20230620**	EPA 8260	EIB	13	PASI-G
40264224003	**TB-02-WQ-20230620**	EPA 8260	EIB	13	PASI-G
40264224004	**MW-13D-WG-20230620**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224005	**MW-13S-WG-20230620**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224006	**MW-01-WG-20230620**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224007	**MW-26-WG-20230620**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224008	**MW-21S-WG-20230620**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224009	**MW-16-WG-20230620**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224010	**MW-10S-WG-20230620**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224011	**MW-18S-WG-20230620**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224012	**MW-08-WG-20230621**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224013	**MW-19S-WG-20230621**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224014	**MW-8S-WG-20230621**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 0383990-THERMOFISHER
Pace Project No.: 40264224

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 537 Modified	KCR	58	GCLA
40264224015	**MW-05-WG-20230621**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224016	**MW-24S-WG-20230621**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224017	**MW-25S-WG-20230621**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224018	**MW-10D-WG-20230621**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224019	**MW-12S-WG-20230621**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224020	**FB-01-WQ-20230621**	EPA 8260	EIB	13	PASI-G
40264224021	**FB-02-WQ-20230621**	EPA 8260	EIB	13	PASI-G
40264224022	**MW-9S-WG-20230621**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224023	**MW-09-WG-20230622**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224024	**MW-15S-WG-20230622**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224025	**MW-17S-WG-20230622**	EPA 8082A	BLM	10	PASI-G
		ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224026	**MW-14S-WG-20230622**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224027	**MW-20S-WG-20230622**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 0383990-THERMOFISHER
Pace Project No.: 40264224

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40264224028	**MW-15D-WG-20230622**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224029	**MW-13S-WG-20230622**	EPA 8082A	BLM	10	PASI-G
40264224030	**MW-6S-WG-20230622**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224031	**MW-7S-WG-20230622**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224032	**MW-04-WG-20230622**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224033	**MW-15I-WG-20230623**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224034	**MW-23S-WG-20230621**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224035	**DUP-01-WG-20230622**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224036	**DUP-02-WG-20230622**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA
40264224037	**DUP-03-WG-20230623**	ASTM 6520 / EPA 8260 (SIM)	JLN	2	PASI-G
		EPA 8260	EIB	13	PASI-G
		EPA 537 Modified	KCR	58	GCLA

GCLA = Pace Analytical Gulf Coast
PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 0383990-THERMOFISHER
Pace Project No.: 40264224

Sample: MW-17S-WG-20230622 **Lab ID: 40264224025** Collected: 06/22/23 08:45 Received: 06/23/23 10:37 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.48	0.11	1	06/27/23 13:44	06/28/23 07:18	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.48	0.11	1	06/27/23 13:44	06/28/23 07:18	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.48	0.11	1	06/27/23 13:44	06/28/23 07:18	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.48	0.11	1	06/27/23 13:44	06/28/23 07:18	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.48	0.11	1	06/27/23 13:44	06/28/23 07:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.48	0.11	1	06/27/23 13:44	06/28/23 07:18	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.48	0.11	1	06/27/23 13:44	06/28/23 07:18	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.48	0.11	1	06/27/23 13:44	06/28/23 07:18	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	20-128		1	06/27/23 13:44	06/28/23 07:18	877-09-8	
Decachlorobiphenyl (S)	79	%	10-120		1	06/27/23 13:44	06/28/23 07:18	2051-24-3	
8260D (SIM) SPME 1,4-Dioxane	Analytical Method: ASTM 6520 / EPA 8260 (SIM)								
	Pace Analytical Services - Green Bay								
1,4-Dioxane (p-Dioxane)	**<0.057**	ug/L	0.20	0.057	1		06/28/23 23:09	123-91-1	
Surrogates									
1,3-Dioxane (S)	102	%	70-130		1		06/28/23 23:09		
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		06/27/23 12:36	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		06/27/23 12:36	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		06/27/23 12:36	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		06/27/23 12:36	75-35-4	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		06/27/23 12:36	107-06-2	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		06/27/23 12:36	127-18-4	
Trichloroethene	**2.0**	ug/L	1.0	0.32	1		06/27/23 12:36	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		06/27/23 12:36	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		06/27/23 12:36	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		06/27/23 12:36	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		06/27/23 12:36	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		06/27/23 12:36	2199-69-1	
Toluene-d8 (S)	107	%	70-130		1		06/27/23 12:36	2037-26-5	
EPA 537 Mod Full Water	Analytical Method: EPA 537 Modified Preparation Method: METHOD								
	Pace Analytical Gulf Coast								
4:2 FTS	**<0.583**	ng/L	1.88	0.583	1	07/01/23 11:00	07/11/23 00:06	757124-72-4	
6:2 Fluorotelomer sulfonate	**<0.705**	ng/L	1.88	0.705	1	07/01/23 11:00	07/11/23 00:06	27619-97-2	
8:2 FTS	**<0.498**	ng/L	1.88	0.498	1	07/01/23 11:00	07/11/23 00:06	39108-34-4	
9Cl-PF3ONS	**<0.423**	ng/L	1.88	0.423	1	07/01/23 11:00	07/11/23 00:06	756426-58-1	
11Cl-PF3OUdS	**<0.423**	ng/L	1.88	0.423	1	07/01/23 11:00	07/11/23 00:06	763051-92-9	
ADONA	**<0.404**	ng/L	1.88	0.404	1	07/01/23 11:00	07/11/23 00:06	919005-14-4	
Perfluorooctanesulfonamide	**<0.348**	ng/L	1.88	0.348	1	07/01/23 11:00	07/11/23 00:06	754-91-6	
HFPO-DA	**<3.13**	ng/L	9.40	3.13	1	07/01/23 11:00	07/11/23 00:06	13252-13-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 0383990-THERMOFISHER
Pace Project No.: 40264224

Sample: MW-13S-WG-20230622 **Lab ID: 40264224029** Collected: 06/22/23 14:40 Received: 06/23/23 10:37 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.49	0.11	1	06/27/23 13:44	06/28/23 07:42	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.49	0.11	1	06/27/23 13:44	06/28/23 07:42	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.49	0.11	1	06/27/23 13:44	06/28/23 07:42	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.49	0.11	1	06/27/23 13:44	06/28/23 07:42	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.49	0.11	1	06/27/23 13:44	06/28/23 07:42	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.49	0.11	1	06/27/23 13:44	06/28/23 07:42	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.49	0.11	1	06/27/23 13:44	06/28/23 07:42	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.49	0.11	1	06/27/23 13:44	06/28/23 07:42	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	94	%	20-128		1	06/27/23 13:44	06/28/23 07:42	877-09-8	
Decachlorobiphenyl (S)	79	%	10-120		1	06/27/23 13:44	06/28/23 07:42	2051-24-3	

REPORT OF LABORATORY ANALYSIS