State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Recommended Template for Request to Manage Materials under Wis. Admin. Code § NR 718.12 or NR 718.15

Form 4400-315 (R 05/19)

Purpose

The purpose of this document is to provide an optional template format for consultants and responsible parties to demonstrate that the proposed management of solid waste material qualifies for a Wis. Admin. Code § NR 718.12 or NR 718.15 exemption and to request written approval of the request. This document may be included as part of an interim or remedial action plan (RAP) or post-closure modification request, or can be submitted by itself depending on the activities conducted at the site. Using this recommended format will likely result in a faster Department of Natural Resources (DNR) review. At a minimum, all requests must satisfy the requirements of a soil management plan as outlined in Wis. Admin. Code § 718.12 (1) and (2) (b).

Introduction

Soil and other solid waste generated from a response action site as part of an interim or remedial action may be managed at a site or facility that is not an operating licensed landfill if an exemption from the Waste and Materials Management Program requirements established in Wis. Stat. ch. 289 and Wis. Admin. Code ch. NR 500 to NR 538 is obtained under Wis. Admin. Code §§ NR 718.12 or NR 718.15. An exemption through Wis. Admin. Code § NR 718.12 can be granted when soil is being managed as part of an interim action under Wis. Admin. Code ch. NR 708 or a remedial action under Wis. Admin. Code ch. NR 722. An exemption through Wis. Admin. Code § NR 718.15 can be granted when other solid waste material is managed as part of an interim or remedial action on the site from which it was generated. Managing solid waste material with either exemption requires prior written approval from the DNR. For more information see "Management of Contaminated Soil and Other Solid Wastes, Wis. Admin. Code §§ NR 718.12 and NR 718.15" (RR-060), by visiting dnr.wi.gov, search "RR-060."

If this exemption request involves contaminated material impacted by a discharge of a hazardous substance that has not been reported to the DNR, a "Notification for Hazardous Substance Discharge (non-emergency)", DNR Form 4400-225, must be completed and submitted immediately as required by Wis. Admin. Code § NR 706, unless an alternate method of reporting is approved by the DNR. This form can be found by visiting dnr.wi.gov, search "4400-225."

This template is not intended to be used for immediate actions under Wis. Admin. Code § NR 708.05, as prior DNR approval is not required if: 1) the requirements of Wis. Admin. Code § NR 718.12 (1) are met, 2) contaminant concentrations do not exceed Wis. Admin. Code ch. NR 720 soil residual contaminant levels, 3) and the quantity of material managed is less than 100 cubic yards total.

Requests to manage material under Wis. Admin. Code ch. NR 718 for projects involving large-scale disposal or requiring items such as a liner system, leachate treatment and an engineered cap, or projects proposing to place the material below the groundwater table, should not be requested using this template. Consult with DNR staff before submitting such a proposal

Document Instructions

In order to expedite processing, complete all applicable sections of this document as instructed. **Fields/sections required by administrative code are marked with a red asterisk (*)**. All other fields are optional and are included to assist DNR staff in gathering additional information to expedite review of the request.

Some portions of the document may be filled in directly as indicated, other responses may need to be completed separately and attached. If a field is not relevant, explaining why will further assist staff in reviewing the request.

In this document, "generating site or facility" means the site or facility where the response action is generating the contaminated material subject to this exemption request. "Receiving site or facility" means the site or facility where the contaminated material is proposed to be managed. The "receiving site or facility" may be the same site or facility as the generating site or facility, or it may be a different site or facility.

Submittal Instructions

Please submit this form and related documents using the RR Program Submittal Portal at dnr.wi.gov, search "RR Submittal Portal". All accompanying attachments should be combined into a separate PDF.

Per. Wis. Admin. Code § NR 700.11, a hardcopy of the completed form, attachments and fees (if applicable) are required to be mailed to the DNR. Directions on where to send this information is detailed in the submittal confirmation.

For questions on this form, please contact Judy Fassbender at judy.fassbender@wisconsin.gov.

Section 1 – Purpose of Request

Identify the purpose of the request by checking each box that applies:

☒ Manage contaminated soil as part of an interim or remedial action or post-closure modification on the same response action site from which it was generated (Wis. Admin. Code §§ NR 718.12 (1) and (2)).

☐ Manage contaminated soil as part of an interim or remedial action or post-closure modification at a site or facility that is different from the response action site from which it was generated (Wis. Admin. Code §§ NR 718.12 (1) and (2)).

☐ Manage other solid waste other than contaminated soil, as part of a response action, at the same site from which it was generated (Wis. Admin. Code § NR 718.15).

If none of the above boxes are checked, the proposed materials management activity cannot be exempted from solid waste rules through Wis. Admin. Code ch. NR 718. Management of solid waste material generated as a result of a non-NR 700 action may be allowed after obtaining a "low hazard exemption" from the DNR Waste and Material Management Program. Please see the DNR publication "Exempting Low-Hazard Wastes from Solid Waste Regulations" (PUB-WA 1645), which can be found by visiting dnr.wi.gov, search "WA1645."

Section 2 – Applicable Fees

Fees are assessed for each type of Wis. Admin. Code § NR 718.12 or NR 718.15 request (plus database fee) **per site or facility** where contaminated material is excavated or managed. The below tables are provided to assist you in calculating the appropriate Wis. Admin. Code § NR 749 fee required for the review of your submittal.

Identify the Wis. Admin. Code § NR 749 review fees for this submittal by checking the applicable "On-Site Management Fee" in section A, column D. If material will be managed at a site(s) or facility(ies) other than the response action site, also select the appropriate "Off-Site Management Fee" in section B, and indicate the number of applicable receiving sites in column E. Please send a single check to the regional office managing your request. Specific directions will be detailed in your submittal confirmation.

A. Fee Assessed to Excavate or Manage Soil or Other Solid Waste on the Generating Site or Facility

A	B	C	D
Action	**Action Fee**	**Database Fee**	**On-Site Mgmt Fee**
MMP as part of Interim Action per NR 708.11, with residual soil CO	$700	$300	☐ $1000
MMP as part of Interim Action per NR 708.11, without residual soil CO	$700	No fee	☐ $700
MMP as part of Remedial Action Plan approval, with residual soil CO	$1050	$300	☐ $1350
MMP as part of a Remedial Action Plan approval without residual soil CO	$1050	No fee	☐ $1050
Closed Sites: MMP as part of a CO modification action, with residual soil CO	$1050	$300	☐ $1350
Closed Sites: MMP as part of a CO modification action, without residual soil CO	$1050	No fee	☐ $1050
MMP separate from RAP or CO mod, with residual soil CO	$700	$300	☐ $1000
MMP separate from RAP or CO mod, without residual soil CO	$700	No fee	☒ $700

B. Fee Assessed to Manage Soil on a Site or Facility other than the Generating Site or Facility

A	B	C	D	E	F
Action	**Action Fee**	**Database Fee**	**Off-Site Mgmt Fee**	**# of receiving sites subject to action**	**Total for row**
MMP as part of interim action, remedial action, modification to COs, etc., with residual soil CO	$700	$300	☐ $1000		
MMP as part of interim action, remedial action, modification to COs, etc., without residual soil CO	$700	No fee	☐ $700		
Total of Off-Site Management Fee					$0
Total of On-Site and Off-Site Management Fee					**$700**

1) **MMP** – A Material Management Plan submitted in accordance with Wis. Admin. Code §§ NR 718.12 (1) and (2) or NR 718.15.
2) "**With residual soil CO**" - site will have a residual soil continuing obligation (e.g. engineering control, cap, or cover) applied at the generating site or facility at the end of the applicable action; remedial action approval, or approval by an addendum to the closure letter.
3) "**Without residual soil CO**" - site that will not have a residual soil continuing obligation applied at the generating site or facility at the end of the applicable action.

Section 3 –Property and Contact Information

A. Information about the generating site or facility (from which material is proposed to be excavated)

BRRTS #(s) (include Materials Management #s and VPLE #s if assigned)	BRRTS Activity (Site) Name(s)	FID #(s)
02-38-260867	Marinette Marine Corp	
- -		

Response Action Site Address* (physical, not mailing address)
1600 Ely Street

City*	State*	Parcel ID #(s)
Marinette	WI	251-935.1, 251-4269

County*	ZIP Code*
Marinette	54143

WTM Coordinates*
X: 707233
Y: 516492

Lat/Long Coordinates decimal degrees
(min. of 6 digits right of decimal, e.g., -89.123456)*
Lat: 45.099201
Long: -87.6184999

Coordinates Represent:
○ Center of Project
◉ Parcel Center

¼ * NW ¼* SW Section* 6 Township* 30 N Range* 24 ◉ E ○ W

Current Zoning:	Current Land Use:
Industrial	Employee parking and manufacturing

B. Responsible Party (RP) of the generating site or facility

The Wis. Admin. Code §§ NR 718.12 or NR 718.15 approval will be issued to the Wis. Admin. Code NR 700 series responsible party identified below and to the owner of the receiving site or facility, if different than the generating site or facility. If there is more than one responsible party or property owner, include the information requested below for each.

Responsible Party (RP) Name*	Organization / Business Name		
Warren Netzow	Fincantieri Marinette Marine		
Mailing Address*	**City***	**State***	**ZIP Code***
1600 Ely Street	Marinette	WI	54143
Phone # (include area code)*	**Email***		
(715) 735-9341	warren.netzow@us.fincantieri.com		

C. Property owner(s) information for generating site or facility if different than RP

☐ *Check here if the property owner of the generating site or facility is different than the responsible party, and enter the property owner's information below.*

Property Owner Name(s)	Organization / Business Name		
Mailing Address	**City**	**State**	**ZIP Code**
Phone # (include area code)	**Email**		

D. Consultant / contractor information

Consultant / Contractor Name*	Organization / Business Name*		
Robert Meller	Foth Infrastructure & Enviornment, LLC		
Mailing Address*	**City***	**State***	**ZIP Code***
2121 Innovation Court, Suite 300	De Pere	WI	54115
Phone # (include area code)*	**Email**		
(920) 496-6866	bob.meller@foth.com		

E. Contact information for questions about this request

Contact Name	Organization / Business Name		
Bob Meller	Foth Infrastructure & Environment, LLC		
Mailing Address	**City**	**State**	**ZIP Code**
2121 Innovation Court, Suite 300	De Pere	WI	
Phone # (include area code)	**Email**		
(920) 496-6866	bob.meller@foth.com		

Relationship to the Requestor (Same, Consultant, Developer, Etc.):
Consultant

Section 4 – Results of Analyses Performed and Characteristics of Waste

The following information is necessary for the DNR to review the request for compliance with Wis. Admin. Code §§ NR 718.12 (1) (d) 1., NR 718.12 (2) (b) 2. and NR 718.12 (2) (b) 6. In this section, describe the characteristics of the contaminated soil and/or other solid waste material that will be managed under this plan, describe the sampling activities conducted and demonstrate how it has been adequately characterized. Narrative boxes have a limit of 2500 characters. Please attach additional pages if necessary, clearly labeling the section of the form to which you are responding.

A. Enter the total volume of contaminated soil and/or other solid waste to be managed (cubic yards) *:

14,500

B. Describe the characteristics of the material proposed to be managed,* which may include general makeup, physical characteristics, the homogeneity of the material, the proportion of soil to other solid waste, and any other pertinent descriptors.

Soils, primarily silty fine sands. The percentage of soil to solid waste encountered during this investigation is approximately 95% or greater soil. Some zones of soil are darker than others, but may be natural and do not necessarily reflect soil staining.

C. Describe the historic and current land use of the generating site or facility where the contaminated soil or other solid waste originates, including how this site or facility is zoned.

Historically this was a low area along the Menominee River. Various lumber mills operated in the area for years. Marinette Marine and its predeccessors have occupied the property north of the railroad tracks for decades and Marinette Marine has purchases various parcels south of the RR tracks since then. The area has received fill over the years to raise it to usable grades. Most recently the area in question has been a paved employee parking area.

D. Describe identified contaminants and the source(s). Indicate whether contaminant concentrations exceed Wis. Admin. Code § NR 720 Residual Contaminant Levels.

Identified contaminants are summarized in the attached Table 1 and compared to industrial residual contaminant levels. Detected parameters primarily include metals, residual PAHs and PCBs, and one instance of soil benzene.

E. Describe the sampling activities conducted to characterize the material including where the samples were collected, how sample locations were chosen, the sampling methods used, and when sampling activities were conducted.

Fifteen (15) soil samples were collected at 13 locations using direct push sampling methodology. All samples were collected from above the estimated water table depth, were based on initial construction design considerations, and represent a composited sample for that interval at each location. Sample locations were chosen to provide an areal distribution across the proposed construction footprint within the constraints imposed by active employee parking and traffic patterns. Sampling occurred September 23-29, 2020. Figure 1 shows the general site location, and Figure 2 provides the construction site detail and shows the existing sampling locations.

F. Explain how the sampling activities adequately characterized the contaminated soil or other solid waste proposed to be managed. Indicate whether the samples were analyzed for all contaminants previously identified at the generating site or facility and analyzed for all contaminants potentially present at the site or facility considering current and historic land use. Discuss how samples were collected from areas most likely to be contaminated and from material that will actually be managed under this exemption.

This area has been filled over time to raise it to its current grade. There were no obviously contaminated areas coming into the most recent investigation. Generally the parameters detected represent minor impacts and not point sources of impact. Soil impacts near GP-3 may represent a point impact, but the source is not known. Sampling parameters were

based on general Waste Management (WM) soil profile requirements for accepting material for landfilling or beneficial reuse on its property and historic test results (metals).

G. Enter the total number of samples collected from this material and analyzed for contaminants of concern.
15

H. Enter the rate of sample collection per volume. One sample per 3,866 yards of contaminated material.

i. Wis. Admin. Code § NR 718.12(1)(e) requires that samples collected to characterize soil be collected at a rate of one sample per 100 cubic yards (for the first 600 cubic yards) and one sample for each additional 300 cubic yards of material, with a minimum of two samples. If the DNR pre-approved an alternative sampling plan, describe how the sampling that was conducted complied with a pre-approved plan. Please also provide the date the sampling plan was pre-approved and the name of the DNR staff person who approved the plan.

The value of 3,866 yards above in Sec 4 (H.) is based on a total pre-construction excavation estimate of 58,000 yards of contaminated soil divided by the 15 samples collected. Most of the estimated volume will be taken to Waste Managment for offsite disposal/reuse including the adjoining areas of GP-3 & GP-13 where the highest arsenic and lead concentrations were found, and the only detect for benzene was identified. A remaining balance (estimated at approx. 14,500 cubic yards) will be reused on site. It is proposed that with having already collected 15 samples to characterize the overall volume, that the volume retained for repositioned onsite placement be tested at a rate of one sample for each additional 1,000 cubic yards of material. The proposed analytical testing parameters which are based on initial soil test results are: the metals arsenic, barium, lead and selenium; PCBs; and PAHs.

Section 5 – Project description/material management plan

The following information is necessary for the DNR to review the request for compliance with Wis. Admin. Code §§ NR 718.12 (2) (b) (5), (7) and (8). In this section, describe how the contaminated material will be managed, he propose schedule for managing the material, and provide sufficient information to justify that the placement of the contaminated materials will meet the requirements of Wis. Admin. Code §§ NR 726.13 (1) (b) 1. to 5. Narrative boxes have a limit of 2500 characters. Please attach additional pages if necessary, clearly labeling the section of the form to which you are responding.

A. Describe the material management activities to take place.* Provide details on how and where the material will be generated, transported and placed. Describe the depth of the proposed excavation of contaminated soil or other solid waste, and the depth that it will be placed at the receiving site or facility. Describe any response actions proposed for the receiving site or facility to address the relocated contaminated material (such as the construction of a cap). Discuss how material management activities will fit in with the overall property remediation and/or redevelopment plans.

It is anticipated that approximately 14,500 cubic yards of excavated soil material will be reused on site to both raise the grade below Building B-35 and provide general fill within and around the new buildings (B-34 and B-35) footprint during construction. These excavated soils will represent a portion of the total excavated volume to facilitate the installation of the Building B-34 foundation slab, construct the subgrade stormwater management system, and perform regrades. This will include an approximate even split between unsaturated and saturated zone material. The handling of saturated zone soils will be mostly associated with the installation of foundation pile caps, and in areas where the water table is the highest. All soils retained for onsite reuse will be sampled at the approved rate and for the approved analytical parameters. While unsaturated zone soil intended for onsite reuse may be placed throughout the construction area, saturated zone soils will be placed as close to the source excavation(s) as possible. Reused soils may be placed within three feet of the current high water mark which ranges from about 582 to 585 ft. NAVD 88 on the north and south ends of the construction area, respectively. All soil materials excavated and reused on site will ultimately be capped with concrete or asphalt unless placed in a berm. Any permanent berm(s) will also be capped with topsoil and vegetation. All other contaminated soils excavated for the building construction will be hauled off site to Waste Management for disposal/reuse.

B. Summarize the proposed schedule for implementation of the material management plan including anticipated start and end dates. *
Winter 2021 through summer 2021

C. Confirm the proposed material management will comply with Wis. Admin. Code § NR 726.13 (1) (b) 1. through 5.*

The soil material management proposed will comply with NR 726.13(1)(b)1 through 5 for the following reasons.
1) The property is zoned heavy industrial and is part of a closed ERP case (BRRTs# 02-38-260867) which already carries a groundwater use restriction.
2) The only known industrial direct contact residual contaminant level (RCL) exceedance areas (GP-3 & GP-13) will be removed and hauled off site to Waste Management for landfill disposal.
3) All other known RCL exceedences are groundwater pathway in nature. The ultimate placement of caps, and the groundwater use restriction, should address potential NR 140 ES issues.
4) The construction area does not adjoin the closest surface water (the Menominee River) which is about 800 feet to the north.
5) Soil testing has shown only the minimal presence of VOCs, the highest of which will be removed and hauled off site for landfilling.

D. Describe any procedures that have been established, or methods that will be used, to identify previously undocumented contamination during the completion of this project (such as instrument field screening, visual inspections, etc.). Also describe any contingency procedures that have been established to address unexpected contamination.

During excavation activities and between known boring locations a visual inspection of the soil material will be carried out. If visually anomalous or obvious petroleum related impacted material is encountered, it will be segregated and stockpiled on site separate from other soils for potential testing and/or offsite disposal.

As a separate task to better delineate the elevated arsenic (at GP-3 & GP-13) and the petroleum related impacts at GP-3, before or coincident with the soil removal activities, a series of shallow test pits will be dug surrounding the GP-3/GP-13 area for a visual and photoionization detector (PID) field screening assessment and soil PVOC, PAH, and metals sampling activity. The findings will guide the volume of material managed for off site landfill disposal. The approximate area of concern is shown on Figure 2.

E. Summarize how the proposed management activities will prevent or minimize adverse environmental impacts and potential threats to human health and welfare, including worker safety, by assessing how all potential exposure and migration pathways of concern, including direct contact exposure, vapor intrusion, ground water, surface water, sediment and any other relevant pathway will be addressed by the proposed management.

The proposed management will result in most construction related excavated soils (including the most impacted) being taken off site for either landfilling or reuse at Waste Management. The remaining balance will stay on site and be used beneath the Building B-35 foundation and provide general fill within and around the new buildings (B-34 and B-35) footprints during construction. Where reused soils are placed within three feet of the water table, they will be covered by either a concrete floor or asphalt pavement. Saturated reused soil will be placed as close as possible to the original excavation areas essentially resulting in a minimal change to the subsurface. A groundwater use restriction already exists for the construction area and is associated with closed ERP BRRTs# 02-38-260867. With the exception to the GP-3/GP-13 locations which will be excavated and landfilled, all known soil RCL exceedences are groundwater pathway related so industrial direct contact concerns are minimal. In addition, the migration pathways associated with surface water, air, and vapor intrusion are of no or minimal concern since the closest surface water (the Menominee River) is 800 feet north and the existing soil sampling has not detected significant VOC concentrations in the soil which could be reused on site.

Section 6 - Receiving site or facility information

The following information is necessary for the DNR to review the request for compliance with Wis. Admin. Code §§ NR 718.12 (2) (c) 3. In this section, describe the site or facility receiving the material by addressing the following items. Narrative boxes have a limit of 2500 characters. Please attach additional pages if necessary, clearly labeling the section of the form to which you are responding.

A. Briefly discuss the geology and hydrogeology of the receiving site(s) or facility(ies), including information from any previous remedial investigations, and well logs or well construction records from nearby wells. Please also provide the information requested below, indicating whether the response is based on regional or site-specific information. *

Based upon a geotechnical boring (E5) drilled in the proposed Building B-35 location the subsurface consists of approximately: 6 feet of gravelly sand w/silt, sandy silt, and silty sand fill; over primarily silty sand, sand, and silt; over dolomite bedrock at about 28 feet below grade. Based upon other geotechnical borings drilled across the site, this general sequence is typical for the overall construction area although the thickness of fill may vary between 6 and 10 feet, the lower sequence may include silty and sandy clay, and the depth to bedrock may vary by several feet. Based upon water table wells installed in the proposed construction area the depth to the water table is expected to be about 5.5 feet below grade in the Building B-35 area. Across the construction footprint the depth to the water table ranges from about 4 to 6 feet below grade, with shallow flow generally to the north-northwest (Figure 3).

Depth to Bedrock (ft. below ground surface):	28		○ Regional	◉ Site Specific
Bedrock Type:		○ Sandstone	◉ Limestone / Dolomite	○ Metamorphic / Igneous
High Groundwater Level (ft. below ground surface):	5.5		○ Regional	◉ Site Specific
Groundwater Flow Direction:	N-NW		○ Regional	◉ Site Specific

B. Briefly describe any previous environmental site investigations or remedial actions conducted at the receiving site(s) or facility(ies). Describe the environmental condition of the portion of the receiving site(s) or facility(ies) where material will be placed including what contaminants are present, the environmental sampling conducted in that area, and whether identified contaminant concentrations exceed applicable standards. *

See WDNR case file for 02-38-260867. This area of the site has reportedly received regional fill in the past.

C. Describe any environmentally sensitive areas at or near the receiving site(s) or facility(s) where the contaminated material will be managed.

None

D. Describe the historic, current and proposed land use of the receiving site(s) or facility(ies) where the contaminated soil or other solid waste will be managed. How are these site(s) or facility(ies) zoned?

The site is zoned heavy industrial.

E. Identify current uses of all properties adjacent to the receiving site or facility. Check all that apply.

	N	S	E	W	NE	NW	SE	SW
Agricultural	☐	☐	☐	☐	☐	☐	☐	☐
Industrial	☒	☐	☒	☒	☐	☐	☐	☐
Recreational	☐	☐	☐	☐	☐	☐	☐	☐
Residential	☐	☐	☐	☐	☐	☐	☐	☐
Undeveloped	☐	☐	☐	☐	☐	☐	☐	☐
Commercial	☐	☒	☐	☐	☐	☐	☐	☐
Other	☐	☐	☐	☐	☐	☐	☐	☐

Describe “other” property use below:

F. Describe any other features of this property not addressed above that influence the suitability of the receiving site(s) or facility(ies) for the disposal of the contaminated soil or other solid waste.

None

Section 7 – Locational criteria

The following information is necessary for the DNR to review the request for compliance with Wis. Admin. Code §§ NR 718.12 (1) (c). Indicate if excavated material will be placed in any of the following locations*:

- ☒ Within a floodplain.
- ☐ Within 100 feet of any wetland or critical habitat area.
- ☐ Within 300 feet of any navigable river, stream, lake, pond, or flowage.
- ☐ Within 100 feet of any on-site water supply well or 300 feet of any off-site water supply well.
- ☒ Within three (3) feet of the high groundwater level.
- ☐ At a depth greater than the depth of the original excavation from which the contaminated soil was removed.

If any of the above boxes are checked, an exemption from the indicated criteria must be requested as described below. If none of the above boxes are checked, and the proposed placement of material will not otherwise pose a threat to the public health, safety, or welfare or the environment, the proposed management activities will comply with the location criteria of Wis. Admin. Code § NR 718.12 (1) (c) and you may skip the following question.

Include an explanation of why granting an exemption to the Wis. Admin. Code § NR 718.12 (1) (c) locational criteria will not cause a threat to public health, safety, or welfare or the environment by assessing how all potential exposure and migration pathways of concern, including direct contact exposure, vapor intrusion, ground water, surface water, sediment and any other relevant pathway will be addressed by the proposed management. Consider the quantity and characteristics of the material being managed, the geologic and hydrogeological characteristics of the receiving site or facility, the unavailability of other environmentally suitable alternatives, and whether the activities will comply with other state and federal regulations including other portions of Wis. Admin. Code chs. NR 700 to NR 754.

All materials reused on this site will be either within or adjacent to one of the building excavation areas so the soils will essentially stay in the same area of the site from which they are excavated. The current water table appears to be the highest water table observed since approximately 2,000. Identified soils with elevated arsenic and benzene levels will be removed for landfilling so will not be reused on site. Saturated zone soils placed back into the excavation areas will be returned as close as possible to the source of excavation and may be within 3 feet of the currently measured water table. Reused unsaturated zone soils may be used throughout the construction area. All areas will ultimately be covered by either concrete or asphalt, unless material is placed in a berm. Any permanent berms created for the project will be capped with topsoil vegetated.

Section 8 – Additional information for non-metallic mine receiving sites or facilities

If the material to be managed is proposed for use in reclaiming a non-metallic mine, the disposal of such a material must be specifically allowed in the mine's reclamation plan. If not, the reclamation plan needs to be modified prior to DNR approving the management of the contaminated soil at the mine. Complete this section if the proposed receiving site or facility is a non-metallic mine.

A. Current depth to groundwater at facility (feet below ground surface): _____

B. Has the facility been dewatered to allow mining? ◯ Yes ◯ No

If yes, indicate the expected natural groundwater level when dewatering is terminated (feet below ground surface):

C. Is material proposed to be placed within 10 feet of the natural water table? ◯ Yes* ◯ No

If yes, provide information to justify a variance approval under Wis. Admin. Code ch. NR 503.

D. Include a copy of the reclamation plan indicating the placement of low level contaminated material is acceptable.

E. Describe any design criteria established for the disposal site, include restrictions on material placement, engineered barrier requirements, etc.

Section 9 – Continuing obligations at receiving site or facility

The following information is necessary for the DNR to review the request for compliance with Wis. Admin. Code §§ NR 718.12 (2) (d) and (e).Check the applicable boxes to indicate which continuing obligations will be specifically required to address the material being managed on the receiving site or facility. The associated language will appear in the Wis. Admin. Code ch. NR 718 Approval Letter.

☐ No Continuing Obligations

☒ Residual Soil Contamination:

If contaminated soil managed under this material management plan is excavated in the future, the property owner at the time of excavation will be responsible for the following:

- determine if contamination is present,
- determine whether the material would be considered solid or hazardous waste,
- ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules.

Contaminated soil may be managed in accordance with Wis. Admin. Code ch. NR 718, with prior DNR approval. In addition, all current and future property owners and occupants of the property and right-of-way holders need to be aware that excavation of the contaminated soil may pose a hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans. A historic fill exemption is required prior to construction of any structures over fill materials.

Depending on site-specific conditions, construction over contaminated soils or groundwater may also result in vapor migration of contaminants into enclosed structures or migration along underground utility lines. The potential for vapor intrusion and means of mitigation should be evaluated when planning any future redevelopment, and measures should be taken to ensure the continued protection of public health, safety, welfare and the environment at the site.

☐ Maintenance of a cover:

A soil cover/engineered cover/other has been placed over remaining contamination and this cover must be maintained. Inspections will be required, and submittal of inspection reports may be required. Certain activities which would disturb the cover or barrier will be prohibited. If the cover is approved for industrial land use, notification of the DNR is required before changing to a non-industrial use, to determine if the cover will be protective for that use. A maintenance plan is attached, which describes the maintenance activities to be required. If the DNR requires changes to the maintenance plan, an updated maintenance plan must be provided at the completion of the soil disposal action. A map is attached which shows the location of the extent of contaminated materials and the extent of the cover.

☒ Use of Industrial Land Use Soil Standards:

Industrial soil standards have been applied for the site receiving the contaminated materials. The DNR must be notified if the property land use will change from industrial use to a non-industrial land use. Additional investigation and remediation may be required prior to the change in land use to ensure the site conditions are protective for the planned land use.

☐ Vapor: Future Actions to Address Vapor Intrusion:

While vapor intrusion does not currently exist, if a building is constructed on this property, or reconstructed, or if use of a building is changed to a non-industrial use, vapor intrusion may be a concern. The DNR must be notified before construction of a building or changing the use of an existing building to non-industrial use. The use of vapor control technologies or an assessment of the potential for vapor intrusion will be required at that time.

☐ Site specific condition:

Describe the site specific condition:

Section 10 – Figures

Providing figures as part of the material management plan will allow DNR staff to more quickly evaluate the compliance of the request with the requirements of Wis. Admin. Code §§ NR 718.12 (1) and (2) and NR 718.15. The following are recommended figures to be submitted with this request.

The DNR recommends that all maps are drawn to scale not larger than 1 inch equal to 100 feet and labeled with the site or facility name and address. The location of the property and the specific disposal area should be provided in sufficient detail to allow DNR personnel to inspect these areas in the future. Providing a "cut/fill" map that clearly depicts how much material will be removed or added to different areas of the involved property(ies) and depicting how material will be moved across the site is also highly recommended. Providing cross sections that depict site conditions before and after material management activities is also recommended.

Attach appropriate figures to this form. Use the following checklist to ensure recommended items are included in the attached figures.

- ☒ The boundaries of each property involved in the project as well as named and unnamed roads or access points, buildings and other surface features, underground utilities, land uses on adjacent properties, and known and potential sources of hazardous substances.
- ☒ The location of wetlands, critical habitat areas, floodplains, surface water bodies, water supply wells, or other possible receptors located near or within the area where material will be managed.
- ☒ The lateral extent and depth of planned excavation, grading, or otherwise disturbed areas.
- ☒ The lateral extent and thickness of excavated material placement locations.
- ☒ Soil sample locations at the response action site and receiving site(s) or facility(ies). Depict applicable soil contaminant concentration data and sample depths. Indicate the extent of contamination exceeding a RCL.
- ☒ Depth to groundwater.
- ☐ The extent of any performance standards (such as a barrier or cap) that will be required at the completion of management activities.

Section 11 - Additional Attachments

The following documents are recommended for inclusion with a Wis. Admin. Code § NR 718.12 or a Wis. Admin. Code § 718.15 request. Indicate which of these documents are included in this request by checking the boxes below.

- ☒ A table summarizing the analytical results of all soil/waste samples collected at the generating site or facility that meets the requirements of Wis. Admin. Code § 716.15 (4) (e). Clearly indicate which of these samples were collected from material that is proposed to be managed.
- ☒ The analytical package for all samples listed on the above table. The package should include the sample results, chain of custody, sampling methods, and QA/QC data.
- ☐ A maintenance plan for any performance standard needed to address the material proposed to be managed. The plan should follow the format found in DNR Form 4400-202, Attachment D.

☐ A copy of the reclamation plan for the receiving site or facility if it is a nonmetallic mine. Confirm the plan allows for acceptance of contaminated soil by marking relevant plan sections.

☐ Power of Attorney (if applicable, see Section 12).

☐ Deed for the property receiving the contaminated material. If a certified survey map or plat map is referenced by this deed then also include those documents.

☒ Provide a copy of a parcel map depicting the property(ies) boundaries.

Section 12 - Certification Statements

Wis. Admin. Code ch. NR 712, entitled "Personnel Qualifications for Conducting Environmental Response Actions," establishes minimum standards for experience and professional qualifications for persons who perform certain environmental services. All exemption requests submitted to manage contaminated soil or other solid waste as an interim action or remedial action under Wis. Admin. Code chs. NR 708 or NR 722 must be prepared by, or prepared under, the supervision of a professional engineer per Wis. Admin. Code ch. NR 712. The professional engineer who prepared or supervised this exemption request should complete the following section. This law applies to work conducted under Wis. Admin. Code ch. NR 718, unless specifically exempted.

Per Wis. Admin. Code § NR 712.09 (3) (a), the following certification shall be attached to any submittal that is required to be prepared by, or under the supervision of, a professional engineer under s. NR 712.07 (2), (3) or (5):

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

Jim Hutchison, Professional Engineer, E-22484
Signature, title and P.E. number

WISCONSIN
James Brian
HUTCHISON
E-22484
Green Bay,
Wis.
PROFESSIONAL ENGINEER
P.E. stamp

In addition, if the work certified included investigation or evaluation of groundwater conditions, or groundwater related conclusions or recommendations, Wis. Admin. Code § NR 712.09 (3) (b) requires the following certification shall be attached to any submittal that is required to be prepared or to have its preparation supervised by a certified hydrogeologist under s. NR 712.07 (2), (4) or (5):

"I, Robert Meller, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Robert J Meller
Signature and title

12-15-2020
Date

Section 13 - Signatures

Owner(s) of receiving site(s) or facility(ies) if different than generating site

Each property owner of receiving site(s) or facility(ies) involved in the management project must provide their signature as part of this request. If one of the owners of the receiving site(s) or facility(ies) is acting on behalf of other owners, a power of attorney form or statement must be signed and attached to this agreement clearly granting the agent the authority to accept the contaminated materials on behalf of all other owners of the receiving site(s) or facility(ies) whose signatures are not included on this agreement.

I understand that by signing this application I certify that I will follow the conditions and limitations required by law and specified in the exemption issued to me as owner of the site or facility that will receive the contaminated soil. Further, I certify that the contaminated soil proposed to be managed under this exemption will be at a property that meets the definition of “site” or “facility” under Wis. Stats. ch.292 and Wis. Admin. Code chs. NR 700 – 754, and I understand that the material must be managed any time in the future as a solid waste with the department’s approval. I understand that this exemption will be tracked in the Wisconsin Remediation and Redevelopment Database, and if required, will include maintenance and inspection by me of any continuing obligations, such as maintaining an engineering control or barrier over the contaminated material, and will also be subject to inspection by the department. I understand that the conditions on my site or facility may be subject to Wis. Stats. ch. 709, Disclosures by Owners of Real Estate. I believe that the legal description for all properties where material will be managed is included with this submittal.

Receiving site or facility address as listed in Section 3F: _____

Print Name	Signature	Date
Print Name	Signature	Date

Table 1
Soil Analytical Results Compared to WI NR 720 Criteria
B34/B35 Supplemental Investigation
Fincantieri Marinette Marine
Marinette, Wisconsin

Analysis		WDNR NR 720 Direct Contact RCL[1]	WDNR NR 720 GW Pathway RCL[1]	Units	Sample ID GP-1, 0.2-5.5'	GP-2, 0.2 - 4.5' UPPER	GP-2, 0.2 - 4.5' LOWER	GP-3, 0.1 - 4.0'	GP-4, 0.0 - 4.0'
ASTM D2974-87	Moisture	N/A	N/A	%	7.4	6.1	9.1	14.0	4.4
EPA 8260 Detected VOCs	Benzene	7,070	5.1	ug/kg	<25	<25	<25	152	<25
	Ethylbenzene	35,400	1,570	ug/kg	<25	<25	<25	30.1 J	<25
	Chlorobenzene	761,000	135.8	ug/kg	<25	<25	<25	<25	<25
	p-Isopropyltoluene	162,000	N/A	ug/kg	<25	<25	<25	38.0 J	<25
	1,4-Dichlorobenzene	16,400	144.0	ug/kg	<25	<25	<25	53.0 J	<25
	n-Butylbenzene	108,000	N/A	ug/kg	<30	<30	<30	<30	<30
	sec-Butylbenzene	145,000	N/A	ug/kg	<25	<25	<25	<25	<25
	tert-Butylbenzene	183,000	N/A	ug/kg	<25	<25	<25	<25	<25
	Naphthalene	24,100	658.2	ug/kg	<27.3	<27.3	69.0 J	35.4 J	<27.3
	Toluene	818,000	1,107	ug/kg	<25	<25	<25	67.6 J	<25
	1,2,4-Trimethylbenzene	219,000	1,378.7	ug/kg	<25	<25	<25	<25	<25
	1,3,5-Trimethylbenzene	182,000		ug/kg	<25	<25	<25	<25	<25
	m&p-Xylene	260,000	3,960	ug/kg	<50	<50	<50	77.2 J	<50
	o-Xylene			ug/kg	<25	<25	<25	42.1 J	<25
EPA 6020 Metals	Arsenic	8.3[2]	8.3[2]	mg/kg	4.3	3.4	6.4	325	2.6
	Barium	100,000	164.8	mg/kg	25.4	14.2	255	160	15.4
	Cadmium	985	0.752	mg/kg	0.55 J	<0.098	0.42 J	1.4	0.29J
	Chromium	43.5[2]	43.5[2]	mg/kg	10.4	7.9	10.0	32.4	9.6
	Copper	46,700	91.6	mg/kg	23.5	17.0	40.3	366	33.6
	Lead	800	27	mg/kg	18.2	26.9	99.3	304	50.9
	Selenium	5,840	0.52	mg/kg	0.79	0.21 J	0.78	0.59 J	0.47 J
	Silver	5,840	0.85	mg/kg	0.23 J	<0.096	0.24 J	0.47	0.11 J
	Zinc	100,000	N/A	mg/kg	62.5	75.4	82.1	537	83.8
EPA 7471	Mercury	3.13	0.208	mg/kg	0.028 J	<0.011	0.069	0.15	0.016 J
EPA 6010 TCLP	Arsenic	NA	NA	mg/L	NT	NT	NT	0.056	NT
	Lead	NA	NA	mg/L	NT	NT	NT	0.097	NT
EPA 6020 Water Neutral Leach	Lead	NA	NA	mg/L	NT	NT	NT	<0.00024	NT
	Zinc	NA	NA	mg/L	NT	NT	NT	<0.010	NT
EPA 8081 Pesticides	Aldrin	187	N/A	ug/kg	<28.6	<5.6	<29.4	<6.2	<5.6
	alpha-BHC	365	N/A	ug/kg	<12.2	<2.4	<12.6	<2.7	<2.4
	beta-BHC	1,280	N/A	ug/kg	<20.5	<4.1	<21.1	<4.4	<4.0
	delta-BHC	N/A	N/A	ug/kg	<15.6	<3.1	<16.0	<3.4	<3.0
	gamma-BHC (Lindane)	2,540	2.3	ug/kg	<11.3	<2.2	<11.6	<2.5	<2.2
	Chlordane	7,760	542	ug/kg	<295	<58.1	<303	<63.8	<57.2
	alpha-Chlordane	N/A	N/A	ug/kg	<12.3	<2.4	<12.7	<2.7	<2.4
	gamma-Chlordane	N/A	N/A	ug/kg	<28.7	<5.7	<29.5	<6.2	<5.6
	4,4'-DDD	9,570	N/A	ug/kg	<20.7	<4.1	<21.3	9.7 J	<4.0
	4,4'-DDE	9,380	N/A	ug/kg	<19.4	<3.8	<19.9	11.5 J	<3.8
	4,4'-DDT	8,530	N/A	ug/kg	<43.6	<8.6	<44.8	<9.4	<8.5
	Dieldrin	144	N/A	ug/kg	<18.6	4.9 J	<19.1	5.2 J	<3.6
	Endosulfan I	N/A	N/A	ug/kg	<14.9	<2.9	<15.3	<3.2	<2.9
	Endosulfan II	N/A	N/A	ug/kg	<29.6	<5.8	<30.4	<6.4	<5.8
	Endosulfan sulfate	N/A	N/A	ug/kg	<35.8	<7.1	<36.7	<7.7	<7.0
	Endrin	246,000	162	ug/kg	<20.4	<4.0	<20.9	<4.4	<4.0
	Endrin aldehyde	N/A	N/A	ug/kg	<40.2	<7.9	<41.4	<8.7	<7.8
	Endrin ketone	N/A	N/A	ug/kg	<49.4	<9.8	<50.8	<10.7	<9.6
	Heptachlor	654	66.2	ug/kg	<20.1	<4.0	<20.7	<4.4	<3.9
	Heptachlor epoxide	338	8.2	ug/kg	<13.8	<2.7	<14.2	<3.0	<2.7
	Methoxychlor	4,100,000	4,320	ug/kg	<295	<58.3	<303	<63.9	<57.4
	Toxaphene	2,090	928	ug/kg	<791	<156	<813	<171	<154
EPA 8082A	PCBs - Total	N/A	9.4	ug/kg	22.6 J	22.7 J	62.1	141	21.8 J
	PCBs - Aroclor 1016	28,000	N/A	ug/kg	<16.4	<16.2	<16.7	<17.7	<16.0
	PCBs - Aroclor 1221	883	N/A	ug/kg	<16.4	<16.2	<16.7	<17.7	<16.0
	PCBs - Aroclor 1232	792	N/A	ug/kg	<16.4	<16.2	<16.7	<17.7	<16.0
	PCBs - Aroclor 1242	972	N/A	ug/kg	<16.4	<16.2	<16.7	22.2 J	<16.0
	PCBs - Aroclor 1248	975	N/A	ug/kg	<16.4	<16.2	<16.7	<17.7	<16.0
	PCBs - Aroclor 1254	988	N/A	ug/kg	22.6 J	22.7 J	40.1 J	62.6	21.8 J
	PCBs - Aroclor 1260	1,000	N/A	ug/kg	<16.4	<16.2	22.0 J	55.9 J	<16.0
EPA 8270 PAHs	1-Methylnaphthalene	72,700	N/A	ug/kg	25.0 J	16.0 J	163 J	35.7	<25.5
	2-Methylnaphthalene	3,010,000	N/A	ug/kg	29.4 J	23.0	151 J	52.1	<25.5
	Acenaphthene	45,200,000	N/A	ug/kg	29.8 J	3.4 J	104 J	22.9	<22.7
	Acenaphthylene	N/A	N/A	ug/kg	15.1 J	9.4 J	145 J	24.4	22.1 J
	Anthracene	100,000,000	196,949	ug/kg	35.1 J	15.6 J	356	58.6	114 J
	Benzo(a)anthracene	20,800	N/A	ug/kg	168	64.1	730	172	680
	Benzo(a)pyrene	2,110	470	ug/kg	254	99.1	909	225	960
	Benzo(b)fluoranthene	21,100	478.1	ug/kg	367	135	1090	339	1410
	Benzo(ghi)perylene	N/A	N/A	ug/kg	169	88.7	673	132	593
	Benzo(k)fluoranthene	211,000	N/A	ug/kg	145	59.0	478	126	537
	Chrysene	2,110,000	144.2	ug/kg	245	89.2	878	228	951
	Dibenzo(a,h)anthracene	2,110	N/A	ug/kg	39.9	18.5	172 J	45.4	157 J
	Fluoranthene	30,100,000	88,878	ug/kg	381	131	1540	318	1640
	Fluorene	30,100,000	14,830	ug/kg	17.3 J	4.9 J	182 J	27.6	21.0 J
	Indeno(1,2,3-cd)pyrene	21,100	N/A	ug/kg	139	67.9	501	117	524
	Naphthalene	24,100	658.2	ug/kg	24.4 J	19.3	182 J	118	<17.0
	Phenanthrene	N/A	N/A	ug/kg	138	46.6	1020	220	520
	Pyrene	22,600,000	54,546	ug/kg	283	100	1190	236	1200

Notes:
< = Parameter not detected at or above the laboratory detection limit shown.
J = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).
N/A = Not available
NT = Not Tested
VOC = Volatile organic compound
TCLP = Toxicity characteristic leaching procedure
PAH = Polycyclic aromatic hydrocarbons
PCB = Polychlorinated biphenyls
2.0 = Concentration above WDNR Industrial Direct Contact Residual Contaminant Level (RCL).
1.1 = Concentration above WDNR Groundwater Pathway RCL.
1= WDNR Industrial Direct Contact and Groundwater Pathway RCLs from WDNR online RCL Excel Spreadsheet, updated December 2018. DF=2 for GW RCL.
2= Statewide background threshold values used in the WDNR online RCL Excel spreadsheet are referenced as non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202*. See also WDNR Publication RR-940.

Prepared by: RLP1
Checked by: RJM7

Table 1
Soil Analytical Results Compared to WI NR 720 Criteria
B34/B35 Supplemental Investigation
Fincantieri Marinette Marine
Marinette, WI

Analysis		WDNR NR 720 Direct Contact RCL[1]	WDNR NR 720 GW Pathway RCL[1]	Units	Sample ID GP-5, 0.2 - 4.0'	GP-6, 0.2 - 5.0'	GP-7, 0.3 - 5.0'	GP-8, 0.3 - 6.5'	GP-9, 0.2 - 4.0'
ASTM D2974-87	Moisture	N/A	N/A	%	5.4	7.5	6.6	8.6	6.4
EPA 8260 Detected VOCs	Benzene	7,070	5.1	ug/kg	<25	<25	<25	<25	<25
	Ethylbenzene	35,400	1,570	ug/kg	<25	<25	<25	<25	<25
	Chlorobenzene	761,000	135.8	ug/kg	<25	<25	<25	<25	<25
	p-Isopropyltoluene	162,000	N/A	ug/kg	<25	<25	<25	84.6	<25
	1,4-Dichlorobenzene	16,400	144.0	ug/kg	<25	<25	<25	<25	<25
	n-Butylbenzene	108,000	N/A	ug/kg	<30	<30	<30	<30	<30
	sec-Butylbenzene	145,000	N/A	ug/kg	<25	<25	<25	<25	<25
	tert-Butylbenzene	183,000	N/A	ug/kg	<25	<25	<25	<25	<25
	Naphthalene	24,100	658.2	ug/kg	67.2 J	<27.3	<27.3	31.4 J	29.3 J
	Toluene	818,000	1,107	ug/kg	<25	58.3 J	<25	<25	82.3
	1,2,4-Trimethylbenzene	219,000	1378.7	ug/kg	45.0 J	<25	<25	<25	<25
	1,3,5-Trimethylbenzene	182,000		ug/kg	<25	<25	<25	<25	<25
	m&p-Xylene	260,000	3960	ug/kg	<50	<50	<50	<50	<50
	o-Xylene			ug/kg	<25	<25	<25	<25	33.6 J
EPA 6020 Metals	Arsenic	8.3[2]	8.3[2]	mg/kg	2.2	4.0	3.1	2.8	2.0
	Barium	100,000	164.8	mg/kg	12.1	44.3	16.2	26.4	13.4
	Cadmium	985	0.752	mg/kg	0.10 J	0.71 J	0.11 J	0.14 J	<0.099
	Chromium	43.5[2]	43.5[2]	mg/kg	11.7	10.6	9.2	11.5	9.5
	Copper	46,700	91.6	mg/kg	13.1	34.8	20.8	20.5	10
	Lead	800	27	mg/kg	18.0	129	25.1	33.5	18.5
	Selenium	5,840	0.52	mg/kg	0.34 J	0.55 J	0.34 J	0.36 J	0.34 J
	Silver	5,840	0.85	mg/kg	<0.096	<0.10	<0.10	<0.10	<0.097
	Zinc	100,000	N/A	mg/kg	60.6	1790	66.8	119	30.9
EPA 7471	Mercury	3.13	0.208	mg/kg	0.015 J	0.070	0.017 J	0.044	0.015 J
EPA 6010 TCLP	Arsenic	NA	NA	mg/L	NT	NT	NT	NT	NT
	Lead	NA	NA	mg/L	NT	0.056	NT	NT	NT
EPA 6020 Water Neutral Leach	Lead	NA	NA	mg/L	NT	<0.00024	NT	NT	NT
	Zinc	NA	NA	mg/L	NT	<0.010	NT	NT	NT
EPA 8081 Pesticides	Aldrin	187	N/A	ug/kg	<5.6	<2.9	<11.3	<29.2	<2.9
	alpha-BHC	365	N/A	ug/kg	<2.4	<1.2	<4.8	<12.5	<1.2
	beta-BHC	1,280	N/A	ug/kg	<4.0	<2.1	<8.1	<20.9	<2.0
	delta-BHC	N/A	N/A	ug/kg	<3.1	<1.6	<6.2	<15.9	<1.6
	gamma-BHC (Lindane)	2,540	2.3	ug/kg	<2.2	<1.1	<4.5	<11.6	<1.1
	Chlordane	7,760	542	ug/kg	<57.8	<29.7	<117	<300	<29.4
	alpha-Chlordane	N/A	N/A	ug/kg	<2.4	<1.2	<4.9	<12.6	<1.2
	gamma-Chlordane	N/A	N/A	ug/kg	<5.6	<2.9	<11.4	<29.3	<2.9
	4,4'-DDD	9,570	N/A	ug/kg	<4.1	<2.1	<8.2	<21.1	<2.1
	4,4'-DDE	9,380	N/A	ug/kg	<3.8	<2.0	<7.7	<19.8	2.7 J
	4,4'-DDT	8,530	N/A	ug/kg	<8.6	<4.4	<17.3	<44.4	<4.3
	Dieldrin	144	N/A	ug/kg	<3.7	6.1 J	<7.4	<19.0	<1.9
	Endosulfan I	N/A	N/A	ug/kg	<2.9	<1.5	<5.9	<15.2	<1.5
	Endosulfan II	N/A	N/A	ug/kg	<5.8	<3.0	<11.7	<30.2	<3.0
	Endosulfan sulfate	N/A	N/A	ug/kg	<7.0	<3.6	<14.2	<36.5	<3.6
	Endrin	246,000	162	ug/kg	<4.0	<2.1	<8.1	<20.8	<2.0
	Endrin aldehyde	N/A	N/A	ug/kg	<7.9	<4.1	<15.9	<41.0	<4.0
	Endrin ketone	N/A	N/A	ug/kg	<9.7	12.1 J	<19.6	<50.4	<4.9
	Heptachlor	654	66.2	ug/kg	<3.9	<2.0	<8.0	<20.5	<2.0
	Heptachlor epoxide	338	8.2	ug/kg	<2.7	<1.4	<5.5	<14.1	3.6 J
	Methoxychlor	4,100,000	4320	ug/kg	<58.0	<29.7	<117	<301	<29.5
	Toxaphene	2,090	928	ug/kg	<155	<79.8	<313	<807	<79.0
EPA 8082A	PCBs - Total	N/A	9.4	ug/kg	57.6	599	27.5 J	47.4 J	507
	PCBs - Aroclor 1016	28,000	N/A	ug/kg	<16.1	<16.4	<16.4	<16.7	<16.2
	PCBs - Aroclor 1221	883	N/A	ug/kg	<16.1	<16.4	<16.4	<16.7	<16.2
	PCBs - Aroclor 1232	792	N/A	ug/kg	<16.1	<16.4	<16.4	<16.7	<16.2
	PCBs - Aroclor 1242	972	N/A	ug/kg	<16.1	455	<16.4	<16.7	507
	PCBs - Aroclor 1248	975	N/A	ug/kg	<16.1	<16.4	<16.4	<16.7	<16.2
	PCBs - Aroclor 1254	988	N/A	ug/kg	57.6	125	27.5 J	47.4 J	<16.2
	PCBs - Aroclor 1260	1,000	N/A	ug/kg	<16.1	19.0 J	<16.4	<16.7	<16.2
EPA 8270 PAHs	1-Methylnaphthalene	72,700	N/A	ug/kg	17.3 J	47.7	20.2	36.9	35.6
	2-Methylnaphthalene	3,010,000	N/A	ug/kg	18.3 J	59.9	30.1	54.0	48.9
	Acenaphthene	45,200,000	N/A	ug/kg	17.0 J	8.0 J	<2.3	9.3 J	<2.3
	Acenaphthylene	N/A	N/A	ug/kg	39.8	8.5 J	7.3 J	105	5.5 J
	Anthracene	100,000,000	196,949	ug/kg	55.2	16.6 J	10.6 J	82.9	6.9 J
	Benzo(a)anthracene	20,800	N/A	ug/kg	110	38.4	33.6	296	21.9
	Benzo(a)pyrene	2,110	470	ug/kg	151	41.9	58.9	434	38.0
	Benzo(b)fluoranthene	21,100	478.1	ug/kg	193	60.9	76.9	525	51.0
	Benzo(ghi)perylene	N/A	N/A	ug/kg	124	24.3	53.1	289	43.8
	Benzo(k)fluoranthene	211,000	N/A	ug/kg	78.1	22.9	33.2	203	19.7
	Chrysene	2,110,000	144.2	ug/kg	142	49.2	51.5	330	29.3
	Dibenzo(a,h)anthracene	2,110	N/A	ug/kg	30.8 J	6.4 J	10.6 J	70.6	7.2 J
	Fluoranthene	30,100,000	88,878	ug/kg	212	73.3	62.3	495	34.7
	Fluorene	30,100,000	14,830	ug/kg	28.6 J	11.3 J	3.7 J	16.3 J	3.6 J
	Indeno(1,2,3-cd)pyrene	21,100	N/A	ug/kg	94.5	19.4	38.2	248	30.8
	Naphthalene	24,100	658.2	ug/kg	46.5	43.0	23.2	69.8	33.0
	Phenanthrene	N/A	N/A	ug/kg	122	70.4	29.0	167	31.2
	Pyrene	22,600,000	54,546	ug/kg	174	<2.7	55.8	406	36.2

Notes:
< = Parameter not detected at or above the laboratory detection limit shown.
J = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).
N/A = Not available
NT = Not Tested
VOC = Volatile organic compound
TCLP = Toxicity characteristic leaching procedure
PAH = Polycyclic aromatic hydrocarbons
PCB = Polychlorinated biphenyls
2.0 = Concentration above WDNR Industrial Direct Contact Residual Contaminant Level (RCL).
1.1 = Concentration above WDNR Groundwater Pathway RCL.
1= WDNR Industrial Direct Contact and Groundwater Pathway RCLs from WDNR online RCL Excel Spreadsheet, updated December 2018. DF=2 for GW RCL.
2= Statewide background threshold values used in the WDNR online RCL Excel spreadsheet are referenced as non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* . See also WDNR Publication RR-940.

Prepared by: RLP1
Checked by: RJM7

Table 1
Soil Analytical Results Compared to WI NR 720 Criteria
B34/B35 Supplemental Investigation
Fincantieri Marinette Marine
Marinette, WI

Analysis		WDNR NR 720 Direct Contact RCL[1]	WDNR NR 720 GW Pathway RCL[1]	Units	Sample ID GP-10, 0.3 - 4.0'	GP-11, 0.3 - 4.5'	GP-12, 0.2 - 5.0'	GP-12, 5.0 - 7.5'	GP-13, 0.2 - 4.0'
ASTM D2974-87	Moisture	N/A	N/A	%	8.1	9.1	5.8	15.4	9.6
EPA 8260 Detected VOCs	Benzene	7,070	5.1	ug/kg	<25	<25	<25	<25	<25
	Ethylbenzene	35,400	1,570	ug/kg	<25	<25	<25	<25	<25
	Chlorobenzene	761,000	135.8	ug/kg	<25	<25	<25	<25	<25
	p-Isopropyltoluene	162,000	N/A	ug/kg	<25	<25	<25	<25	<25
	1,4-Dichlorobenzene	16,400	144.0	ug/kg	<25	<25	<25	<25	<25
	n-Butylbenzene	108,000	N/A	ug/kg	<30	<30	<30	<30	<30
	sec-Butylbenzene	145,000	N/A	ug/kg	<25	<25	<25	<25	<25
	tert-Butylbenzene	183,000	N/A	ug/kg	<25	<25	<25	<25	<25
	Naphthalene	24,100	658.2	ug/kg	<27.3	<27.3	49.2 J	52.7 J	57.4 J
	Toluene	818,000	1,107	ug/kg	<25	<25	<25	<25	116
	1,2,4-Trimethylbenzene	219,000	1378.7	ug/kg	<25	<25	<25	<25	30.3 J
	1,3,5-Trimethylbenzene	182,000		ug/kg	<25	<25	<25	<25	<25
	m&p-Xylene	260,000	3960	ug/kg	<50	<50	<50	<50	96.6 J
	o-Xylene			ug/kg	<25	<25	<25	<25	49.4 J
EPA 6020 Metals	Arsenic	8.3[2]	8.3[2]	mg/kg	3.5	4.0	2.8	5.1	44.4
	Barium	100,000	164.8	mg/kg	22.4	34.4	35.2	34.5	182
	Cadmium	985	0.752	mg/kg	0.12 J	<0.11	<0.098	0.39 J	3.1
	Chromium	43.5[2]	43.5[2]	mg/kg	12.4	14.9	10.2	12.5	14.8
	Copper	46,700	91.6	mg/kg	29.0	26.7	17.0	24.3	74.4
	Lead	800	27	mg/kg	21.5	28.5	24.8	207	269
	Selenium	5,840	0.52	mg/kg	0.59 J	0.55 J	0.48 J	0.57 J	0.76
	Silver	5,840	0.85	mg/kg	<0.10	<0.10	<0.096	0.14 J	0.27 J
	Zinc	100,000	N/A	mg/kg	56.6	110	48.3	84.3	803
EPA 7471	Mercury	3.13	0.208	mg/kg	0.038	0.028 J	0.012 J	0.074	0.44
EPA 6010 TCLP	Arsenic	NA	NA	mg/L	NT	NT	NT	NT	NT
	Lead	NA	NA	mg/L	NT	NT	NT	0.033	0.044
EPA 6020 Water Neutral Leach	Lead	NA	NA	mg/L	NT	NT	NT	<0.00024	<0.00024
	Zinc	NA	NA	mg/L	NT	NT	NT	<0.010	<0.010
EPA 8081 Pesticides	Aldrin	187	N/A	ug/kg	<29.1	<29.2	<5.7	<31.5	<29.5
	alpha-BHC	365	N/A	ug/kg	<12.4	<12.5	<2.4	<13.5	<12.6
	beta-BHC	1,280	N/A	ug/kg	<20.9	<21.0	<4.1	<22.6	<21.2
	delta-BHC	N/A	N/A	ug/kg	<15.9	<15.9	<3.1	<17.2	<16.1
	gamma-BHC (Lindane)	2,540	2.3	ug/kg	<11.5	<11.6	4.2 J	<12.5	<11.7
	Chlordane	7,760	542	ug/kg	<299	<301	<58.4	<324	<304
	alpha-Chlordane	N/A	N/A	ug/kg	<12.5	<12.6	<2.4	<13.6	<12.7
	gamma-Chlordane	N/A	N/A	ug/kg	<29.2	<29.3	<5.7	<31.6	<29.6
	4,4'-DDD	9,570	N/A	ug/kg	<21.0	<21.1	<4.1	<22.8	<21.3
	4,4'-DDE	9,380	N/A	ug/kg	<19.7	<19.8	<3.8	<21.4	<20.0
	4,4'-DDT	8,530	N/A	ug/kg	<44.3	<44.5	<8.6	<48.0	<44.9
	Dieldrin	144	N/A	ug/kg	<18.9	<19.0	<3.7	<20.5	<19.2
	Endosulfan I	N/A	N/A	ug/kg	<15.2	<15.2	<3.0	<16.4	<15.4
	Endosulfan II	N/A	N/A	ug/kg	<30.1	<30.3	<5.9	<32.6	<30.5
	Endosulfan sulfate	N/A	N/A	ug/kg	<36.3	<36.5	<7.1	<39.4	<36.9
	Endrin	246,000	162	ug/kg	<20.7	<20.8	<4.0	<22.4	<21.0
	Endrin aldehyde	N/A	N/A	ug/kg	<40.9	<41.1	<8.0	<44.3	<41.5
	Endrin ketone	N/A	N/A	ug/kg	<50.2	<50.5	<9.8	<54.4	<51.0
	Heptachlor	654	66.2	ug/kg	<20.4	<20.5	<4.0	<22.1	<20.7
	Heptachlor epoxide	338	8.2	ug/kg	<14.0	<14.1	<2.7	<15.2	<14.2
	Methoxychlor	4,100,000	4320	ug/kg	<300	<301	<58.5	<325	<304
	Toxaphene	2,090	928	ug/kg	<804	<808	<157	<871	<816
EPA 8082A	PCBs - Total	N/A	9.4	ug/kg	67.2	25.4 J	35.7 J	87.4	156
	PCBs - Aroclor 1016	28,000	N/A	ug/kg	<16.5	<16.7	<16.1	<17.9	<16.8
	PCBs - Aroclor 1221	883	N/A	ug/kg	<16.5	<16.7	<16.1	<17.9	<16.8
	PCBs - Aroclor 1232	792	N/A	ug/kg	<16.5	<16.7	<16.1	<17.9	<16.8
	PCBs - Aroclor 1242	972	N/A	ug/kg	<16.5	<16.7	<16.1	<17.9	<16.8
	PCBs - Aroclor 1248	975	N/A	ug/kg	<16.5	<16.7	<16.1	<17.9	<16.8
	PCBs - Aroclor 1254	988	N/A	ug/kg	35.0 J	25.4 J	35.7 J	48.7 J	156
	PCBs - Aroclor 1260	1,000	N/A	ug/kg	32.2 J	<16.7	<16.1	38.8 J	<16.8
EPA 8270 PAHs	1-Methylnaphthalene	72,700	N/A	ug/kg	26.1	<26.8	67.0	61.6 J	266
	2-Methylnaphthalene	3,010,000	N/A	ug/kg	35.8	<26.9	77.3	73.2 J	387
	Acenaphthene	45,200,000	N/A	ug/kg	5.8 J	<23.8	8.8 J	54.3 J	12.4 J
	Acenaphthylene	N/A	N/A	ug/kg	37.2	111 J	32.2 J	159 J	21.1 J
	Anthracene	100,000,000	196,949	ug/kg	32.7	291	28.3 J	391	34.1 J
	Benzo(a)anthracene	20,800	N/A	ug/kg	100	490	113	776	78.4
	Benzo(a)pyrene	2,110	470	ug/kg	166	546	152	926	96.9
	Benzo(b)fluoranthene	21,100	478.1	ug/kg	186	746	231	1060	141
	Benzo(ghi)perylene	N/A	N/A	ug/kg	96.3	263	130	563	85.1
	Benzo(k)fluoranthene	211,000	N/A	ug/kg	92.0	293	87.8	466	49.3
	Chrysene	2,110,000	144.2	ug/kg	114	546	150	860	109
	Dibenzo(a,h)anthracene	2,110	N/A	ug/kg	22.8	77.2 J	29.5 J	162 J	18.5 J
	Fluoranthene	30,100,000	88,878	ug/kg	142	1240	257	1670	150
	Fluorene	30,100,000	14,830	ug/kg	5.4 J	56.4 J	17.3 J	130 J	27.0 J
	Indeno(1,2,3-cd)pyrene	21,100	N/A	ug/kg	84.4	251	105	488	57.5
	Naphthalene	24,100	658.2	ug/kg	31.8	29.4 J	71.2	82.5 J	355
	Phenanthrene	N/A	N/A	ug/kg	49.5	849	114	1020	199
	Pyrene	22,600,000	54,546	ug/kg	152	854	184	1290	110

Notes:
< = Parameter not detected at or above the laboratory detection limit shown.
J = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).
N/A = Not available
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VOC = Volatile organic compound
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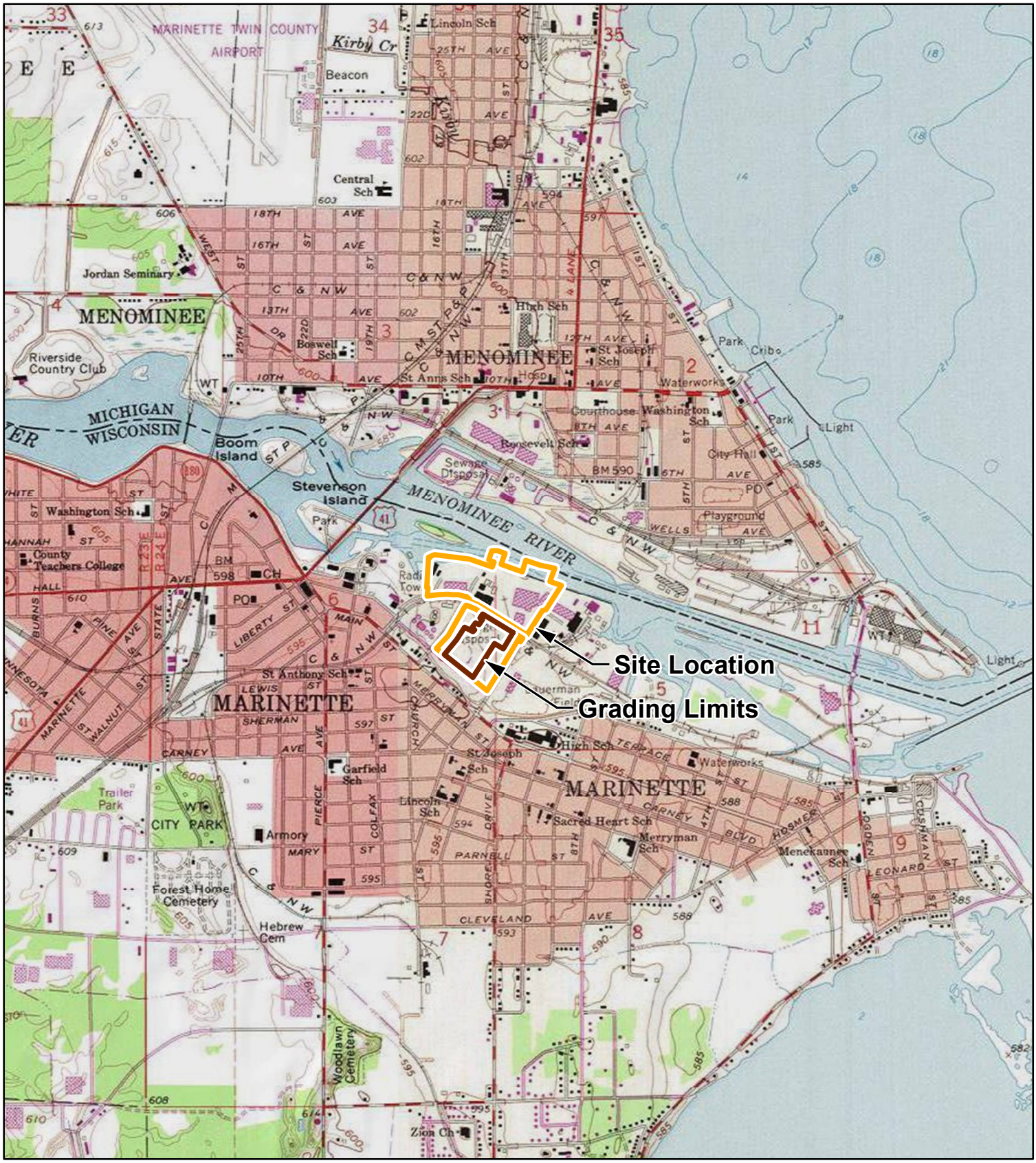
2.0 = Concentration above WDNR Industrial Direct Contact Residual Contaminant Level (RCL).
1.1 = Concentration above WDNR Groundwater Pathway RCL.
1= WDNR Industrial Direct Contact and Groundwater Pathway RCLs from WDNR online RCL Excel Spreadsheet, updated December 2018. DF=2 for GW RCL.
2= Statewide background threshold values used in the WDNR online RCL Excel spreadsheet are referenced as non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* . See also WDNR Publication RR-940.

Prepared by: RLP1
Checked by: RJM7



NOTES:

1. Base map from esri.com, courtesy of the National Geographic Society and i-cubed.

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

N

0 1,000 2,000 Feet

FINCANTIERI MARINETTE MARINE

FIGURE 1

SITE LOCATION MAP
1600 ELY STREET
MARINETTE, WI 54143

Date: DECEMBER 2020	Revision Date:	
Drawn By: BJW1	Checked By: RJM7	Project: 19M106

Path: Q:\Marinette Marine Corporation\19M106\GIS\mxd\B34-B35 Supplemental Investigation WDNR Form December 2020\Figure 1 - Site Location Map.mxd Date: 12/18/2020

NOTES:

1. Imagery basemap from esri.com, courtesy of the Microsoft Corporation and its data suppliers.
2. Horizontal coordinate system is NAD 1983 Wisconsin State Plane Central, units in feet.
3. Minimal excavation outside of building foundation and stormwater management system areas to regrade parking lots. Excavation depths and fill thicknesses within foundation and stormwater management system areas will vary from negligible to as much as 6-8 feet based on current construction designs.
4. See Table 1 attached to Form 4400-315 for sample depth and RCL exceedances.

FINCANTIERI MARINETTE MARINE

Foth

N

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

0 60 120 Feet

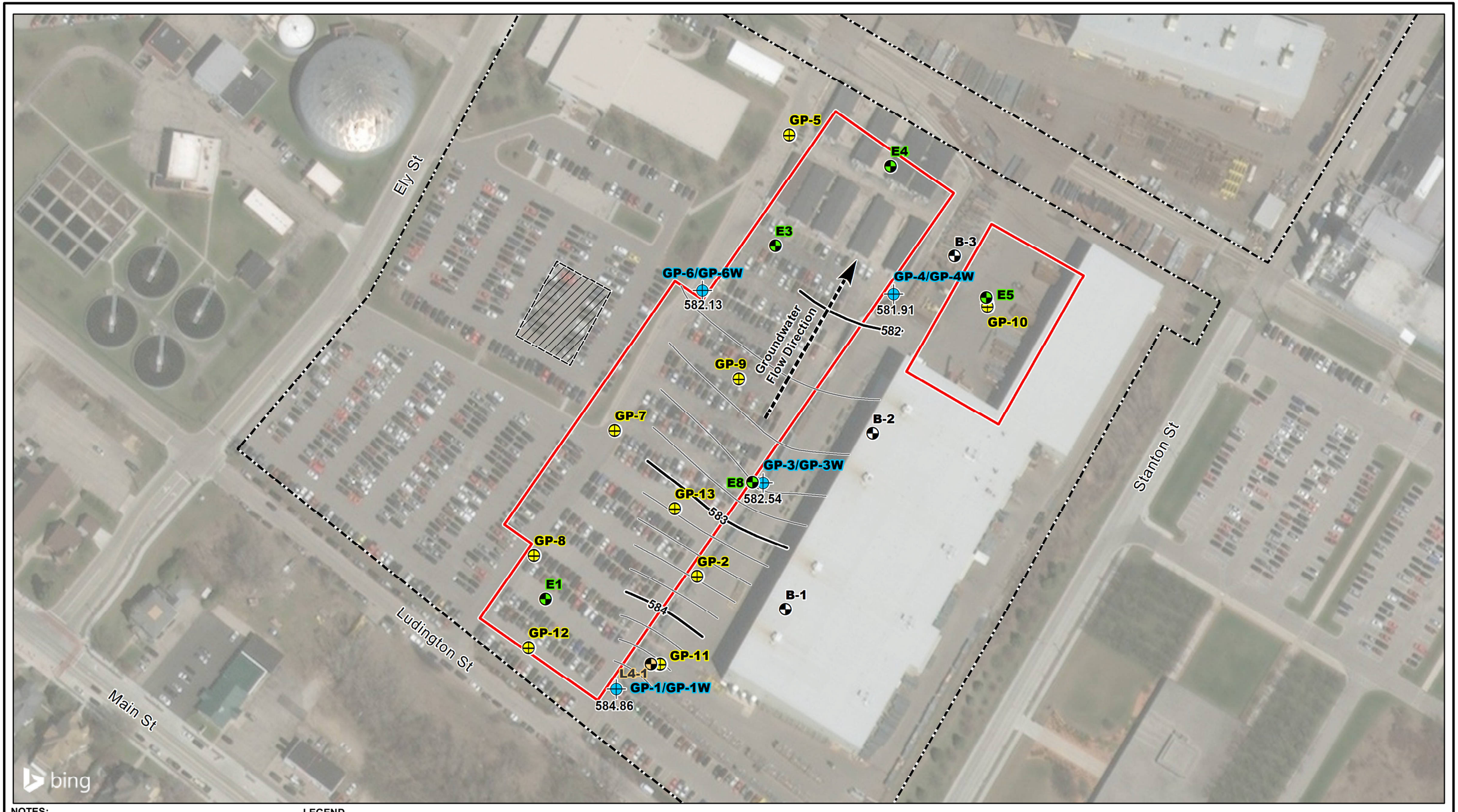
FINCANTIERI MARINETTE MARINE

FIGURE 2

SOIL BORINGS AND CONSTRUCTION DETAIL
FINCANTIERI MARINETTE MARINE
1600 ELY STREET
MARINETTE, WI 54143

Date: DECEMBER 2020	Revision Date:	
Drawn By: BJW1	Checked By: RLP1	Project: 19M106

Path: Q:\Marinette Marine Corporation\19M106\GIS\mxd\B34-B35 Supplemental Investigation WDNR Form December 2020\Figure 2 -Soil Borings and Construction Detail.mxd Date: 12/21/2020



NOTES:

1. Imagery basemap from esri.com, courtesy of the Microsoft Corporation and its data suppliers.
2. Horizontal coordinate system is NAD 1983 Wisconsin State Plane Central, units in feet.

LEGEND

- Foth September 2020 Soil Boring
- Foth September 2020 Soil Boring/ Monitoring Well Location
- Foth June-July 2020 Boring Location
- Foth 2018 Boring Location
- STS 2010 Boring Location
- 1' Groundwater Contour
- 0.2' Groundwater Contour
- Proposed Building Footprint
- Underground Chamber System
- Approximate Property Boundary

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

FINCANTIERI MARINETTE MARINE

Foth

N

0 60 120 Feet

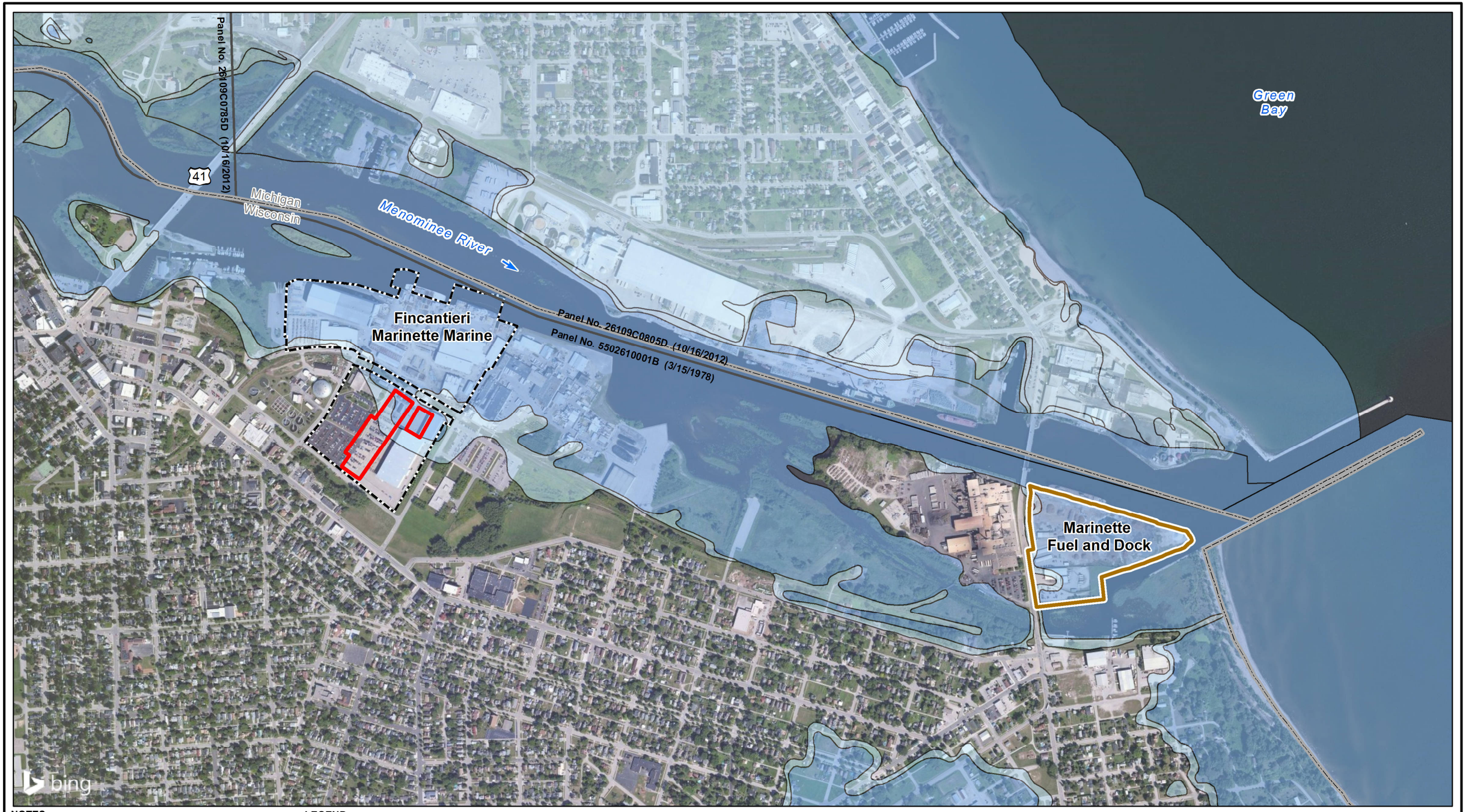
FINCANTIERI MARINETTE MARINE

FIGURE 3

GROUNDWATER CONTOUR MAP (9/29/2020)
FINCANTIERI MARINETTE MARINE
1600 ELY STREET
MARINETTE, WI 54143

Date: DECEMBER 2020	Revision Date:	
Drawn By: BJW1	Checked By: RLP1	Project: 19M106

Path: Q:\Marinette Marine Corporation\19M106\GIS\mxd\B34-B35 Supplemental Investigation WDNR Form December 2020\Figure 3 -Water Table Contour Map 9-29-2020.mxd Date: 12/18/2020



NOTES:

1. Imagery basemap from esri.com, courtesy of the Microsoft Corporation and its data suppliers.
2. Floodplain data from FEMA. (https://msc.fema.gov/portal/home)
3. Horizontal coordinate system is NAD 1983 Wisconsin State Plane Central, units in feet.

LEGEND

- Areas of 100-year flood; base elevations and flood hazards factors determined.
- Areas between limits of 100-year flood and 500-year flood; or areas of 100-year shallow flooding with less than 1 foot.
- Flood Insurance Rate Map Panel Number/Date Boundary
- Proposed Building Footprint
- Approximate Property Boundary
- Marinette Fuel and Dock Company
- State Boundary

FINCANTIERI MARINETTE MARINE

Foth

N

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0 400 800 Feet

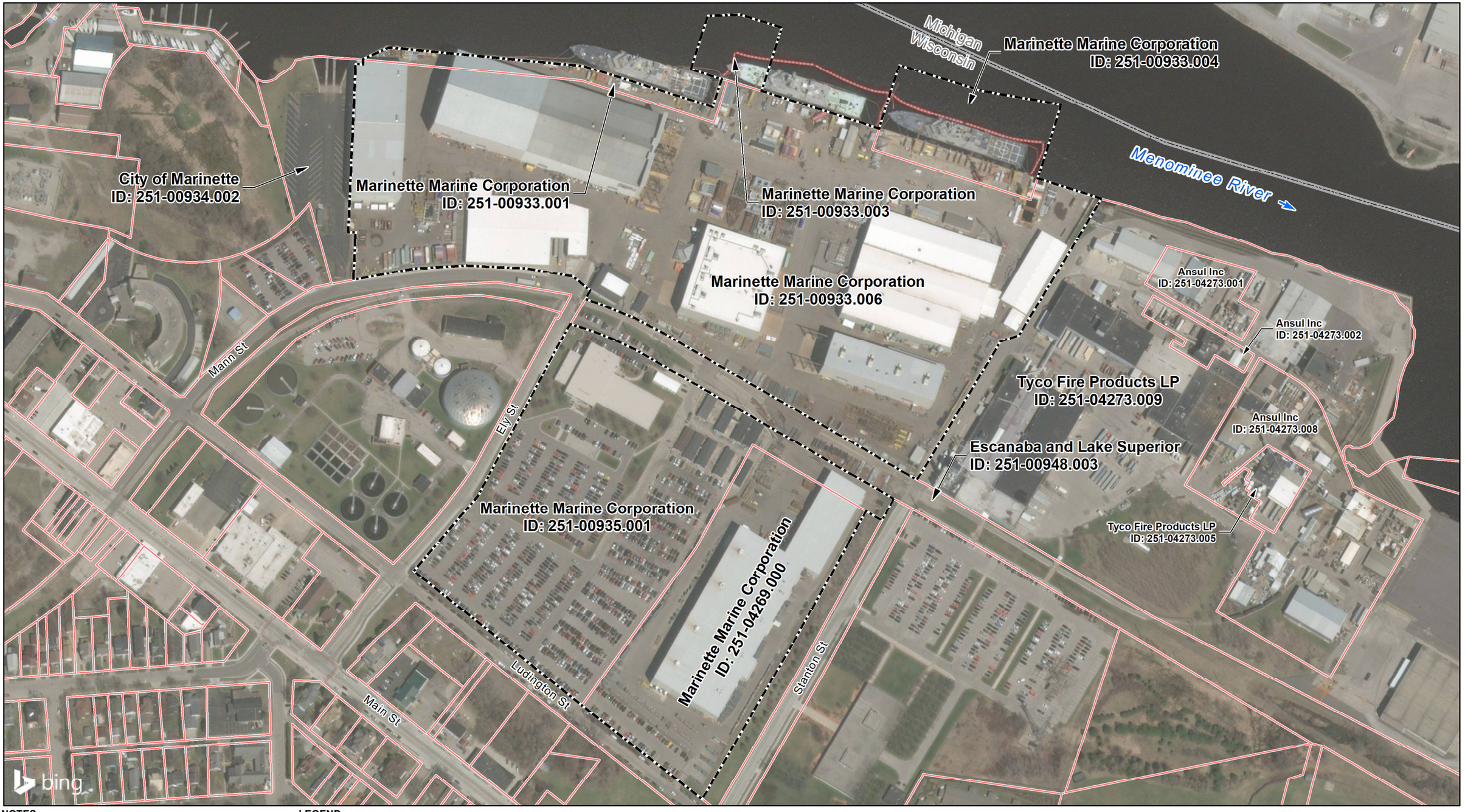
FINCANTIERI MARINETTE MARINE

FIGURE 4

FLOODPLAINS MAP
1600 ELY STREET
MARINETTE, WI 54143

Date: DECEMBER 2020	Revision Date:	
Drawn By: BJW1	Checked By: RJM7	Project: 19M106

Path: Q:\Marinette Marine Corporation\19M106\GIS\mxd\B34-B35 Supplemental Investigation WDNR Form December 2020\Figure 4 - Floodplains.mxd Date: 12/18/2020



NOTES:

1. Imagery basemap from esri.com, courtesy of the Microsoft Corporation and its data suppliers.
2. Horizontal coordinate system is NAD 1983 Wisconsin State Plane Central, units in feet.

LEGEND

- Approximate Property Boundary
- Tax Parcel
- State Boundary

FINCANTIERI MARINETTE MARINE

Foth

N

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

0 125 250 Feet

FINCANTIERI MARINETTE MARINE

FIGURE 5

PARCEL MAP
1600 ELY STREET
MARINETTE, WI 54143

Date: DECEMBER 2020	Revision Date:	
Drawn By: BJW1	Checked By: RJM7	Project: 19M106

Path: Q:\Marinette Marine Corporation\19M106\GIS\mxd\B34-B35 Supplemental Investigation WDNR Form December 2020\Figure 5 - Parcel Map.mxd Date: 12/14/2020

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

October 12, 2020

DENIS ROZNOWSKI
Foth Infrastructure & Environment, LLC
2121 Innovation Court
De Pere, WI 54115

RE: Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Dear DENIS ROZNOWSKI:

Enclosed are the analytical results for sample(s) received by the laboratory on September 25, 2020. 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
- Pace Analytical Services - Minneapolis

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

Sincerely,

Tod Noltemeyer

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

Enclosures

cc: Steve Lehrke, Foth Infrastructure & Environment
RICK PANOSH, Foth Infrastructure & Environment, LLC

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

CERTIFICATIONS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Pace Analytical Services - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208

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

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

SAMPLE SUMMARY

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40215420001	**GP-1, 0.2-5.5'**	Solid	09/23/20 13:10	09/25/20 15:12
40215420002	**GP-4, 0.0-4.0'**	Solid	09/23/20 15:15	09/25/20 15:12
40215420003	**GP-6, 0.2-5.0'**	Solid	09/23/20 17:02	09/25/20 15:12
40215420004	**GP-10, 0.3-4.0'**	Solid	09/23/20 12:05	09/25/20 15:12
40215420005	**GP-11, 0.3-4.5'**	Solid	09/23/20 11:14	09/25/20 15:12
40215420006	**GP-3, 0.1-4.0'**	Solid	09/24/20 08:36	09/25/20 15:12
40215420007	**GP-2, 0.2-4.5' UPPER**	Solid	09/24/20 10:40	09/25/20 15:12
40215420008	**GP-2, 0.2-4.5' LOWER**	Solid	09/24/20 10:40	09/25/20 15:12
40215420009	**GP-8, 0.3-6.5'**	Solid	09/24/20 10:55	09/25/20 15:12
40215420010	**GP-7, 0.3-5.0'**	Solid	09/24/20 11:08	09/25/20 15:12
40215420011	**GP-9, 0.2-4.0'**	Solid	09/24/20 11:43	09/25/20 15:12
40215420012	**GP-12, 0.2-5.0'**	Solid	09/24/20 12:15	09/25/20 15:12
40215420013	**GP-12, 5.0-7.5'**	Solid	09/24/20 12:20	09/25/20 15:12
40215420014	**GP-13, 0.2-4.0'**	Solid	09/24/20 12:25	09/25/20 15:12
40215420015	**GP-5, 0.2-4.0'**	Solid	09/24/20 12:45	09/25/20 15:12
40215420016	**MEOH BLANK**	Solid	09/23/20 00:00	09/25/20 15:12

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SAMPLE ANALYTE COUNT

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40215420001	**GP-1, 0.2-5.5'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420002	**GP-4, 0.0-4.0'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420003	**GP-6, 0.2-5.0'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420004	**GP-10, 0.3-4.0'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420005	**GP-11, 0.3-4.5'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420006	**GP-3, 0.1-4.0'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420007	**GP-2, 0.2-4.5' UPPER**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420008	**GP-2, 0.2-4.5' LOWER**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420009	**GP-8, 0.3-6.5'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420010	**GP-7, 0.3-5.0'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420011	**GP-9, 0.2-4.0'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420012	**GP-12, 0.2-5.0'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420013	**GP-12, 5.0-7.5'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420014	**GP-13, 0.2-4.0'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420015	**GP-5, 0.2-4.0'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420016	**MEOH BLANK**	EPA 8260	SMT	64	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Method: **EPA 8081B**
Description: 8081B GCS Pesticides
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 12, 2020

General Information:
15 samples were analyzed for EPA 8081B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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

Sample Preparation:
The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

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

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

QC Batch: 701891

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

- GP-11, 0.3-4.5' (Lab ID: 40215420005)
  - Decachlorobiphenyl (S)
- GP-2, 0.2-4.5' LOWER (Lab ID: 40215420008)
  - Decachlorobiphenyl (S)

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

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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

QC Batch: 701891

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Method: **EPA 8081B**
Description: 8081B GCS Pesticides
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 12, 2020

Analyte Comments:

QC Batch: 701891

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GP-1, 0.2-5.5' (Lab ID: 40215420001)
  - Tetrachloro-m-xylene (S)
- GP-10, 0.3-4.0' (Lab ID: 40215420004)
  - Tetrachloro-m-xylene (S)
- GP-11, 0.3-4.5' (Lab ID: 40215420005)
  - Tetrachloro-m-xylene (S)
- GP-12, 0.2-5.0' (Lab ID: 40215420012)
  - Tetrachloro-m-xylene (S)
- GP-12, 5.0-7.5' (Lab ID: 40215420013)
  - Tetrachloro-m-xylene (S)
- GP-13, 0.2-4.0' (Lab ID: 40215420014)
  - Tetrachloro-m-xylene (S)
- GP-2, 0.2-4.5' LOWER (Lab ID: 40215420008)
  - Tetrachloro-m-xylene (S)
- GP-2, 0.2-4.5' UPPER (Lab ID: 40215420007)
  - Tetrachloro-m-xylene (S)
- GP-3, 0.1-4.0' (Lab ID: 40215420006)
  - Tetrachloro-m-xylene (S)
- GP-4, 0.0-4.0' (Lab ID: 40215420002)
  - Tetrachloro-m-xylene (S)
- GP-5, 0.2-4.0' (Lab ID: 40215420015)
  - Tetrachloro-m-xylene (S)
- GP-6, 0.2-5.0' (Lab ID: 40215420003)
  - Tetrachloro-m-xylene (S)
- GP-7, 0.3-5.0' (Lab ID: 40215420010)
  - Tetrachloro-m-xylene (S)
- GP-8, 0.3-6.5' (Lab ID: 40215420009)
  - Tetrachloro-m-xylene (S)
- GP-9, 0.2-4.0' (Lab ID: 40215420011)
  - Tetrachloro-m-xylene (S)

- GP-12, 0.2-5.0' (Lab ID: 40215420012)
  - Tetrachloro-m-xylene (S)
- GP-2, 0.2-4.5' UPPER (Lab ID: 40215420007)
  - Tetrachloro-m-xylene (S)
- GP-4, 0.0-4.0' (Lab ID: 40215420002)
  - Tetrachloro-m-xylene (S)
- GP-5, 0.2-4.0' (Lab ID: 40215420015)
  - Tetrachloro-m-xylene (S)

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PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Method: **EPA 8082A**
Description: 8082A GCS PCB
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 12, 2020

General Information:
15 samples were analyzed for EPA 8082A by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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

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

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

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

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

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

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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

Additional Comments:

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PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 12, 2020

General Information:
15 samples were analyzed for EPA 6020 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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

Sample Preparation:
The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

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

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

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

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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

Additional Comments:

Analyte Comments:

QC Batch: 366768

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GP-1, 0.2-5.5' (Lab ID: 40215420001)
  - Silver
  - Cadmium
- GP-10, 0.3-4.0' (Lab ID: 40215420004)
  - Silver
  - Cadmium
  - Selenium
- GP-11, 0.3-4.5' (Lab ID: 40215420005)
  - Silver
  - Cadmium

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PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 12, 2020

Analyte Comments:

QC Batch: 366768

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GP-11, 0.3-4.5' (Lab ID: 40215420005)
  - Selenium
- GP-12, 0.2-5.0' (Lab ID: 40215420012)
  - Silver
  - Cadmium
  - Selenium
- GP-12, 5.0-7.5' (Lab ID: 40215420013)
  - Silver
  - Cadmium
  - Selenium
- GP-13, 0.2-4.0' (Lab ID: 40215420014)
  - Silver
- GP-2, 0.2-4.5' LOWER (Lab ID: 40215420008)
  - Silver
  - Cadmium
- GP-2, 0.2-4.5' UPPER (Lab ID: 40215420007)
  - Silver
  - Cadmium
  - Selenium
- GP-3, 0.1-4.0' (Lab ID: 40215420006)
  - Selenium
- GP-4, 0.0-4.0' (Lab ID: 40215420002)
  - Silver
  - Cadmium
  - Selenium
- GP-5, 0.2-4.0' (Lab ID: 40215420015)
  - Silver
  - Cadmium
  - Selenium
- GP-6, 0.2-5.0' (Lab ID: 40215420003)
  - Silver
  - Cadmium
  - Selenium
- GP-7, 0.3-5.0' (Lab ID: 40215420010)
  - Silver
  - Cadmium
  - Selenium
- GP-8, 0.3-6.5' (Lab ID: 40215420009)
  - Silver
  - Cadmium
  - Selenium
- GP-9, 0.2-4.0' (Lab ID: 40215420011)
  - Silver

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PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 12, 2020

Analyte Comments:

QC Batch: 366768

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GP-9, 0.2-4.0' (Lab ID: 40215420011)
  - Cadmium
  - Selenium

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PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Method: **EPA 7471**
Description: 7471 Mercury
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 12, 2020

General Information:
15 samples were analyzed for EPA 7471 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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

Sample Preparation:
The samples were prepared in accordance with EPA 7471 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

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

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

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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

Additional Comments:

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PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Method: **EPA 8270 by SIM**
Description: 8270 MSSV PAH by SIM
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 12, 2020

General Information:
15 samples were analyzed for EPA 8270 by SIM by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

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

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

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

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

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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

QC Batch: 367157

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40215403015

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2122352)
  - Fluoranthene
  - Phenanthrene
  - Pyrene

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Method: **EPA 8260**
Description: 8260 MSV Med Level Normal List
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 12, 2020

General Information:
16 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

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

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

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

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

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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

Additional Comments:

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

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-1, 0.2-5.5' **Lab ID: 40215420001** Collected: 09/23/20 13:10 Received: 09/25/20 15:12 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
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<28.6**	ug/kg	95.2	28.6	50	10/01/20 15:08	10/02/20 18:50	309-00-2	
alpha-BHC	**<12.2**	ug/kg	40.8	12.2	50	10/01/20 15:08	10/02/20 18:50	319-84-6	
beta-BHC	**<20.5**	ug/kg	68.3	20.5	50	10/01/20 15:08	10/02/20 18:50	319-85-7	
delta-BHC	**<15.6**	ug/kg	52.0	15.6	50	10/01/20 15:08	10/02/20 18:50	319-86-8	
gamma-BHC (Lindane)	**<11.3**	ug/kg	37.7	11.3	50	10/01/20 15:08	10/02/20 18:50	58-89-9	
Chlordane (Technical)	**<295**	ug/kg	981	295	50	10/01/20 15:08	10/02/20 18:50	57-74-9	
alpha-Chlordane	**<12.3**	ug/kg	41.1	12.3	50	10/01/20 15:08	10/02/20 18:50	5103-71-9	
gamma-Chlordane	**<28.7**	ug/kg	95.6	28.7	50	10/01/20 15:08	10/02/20 18:50	5103-74-2	
4,4'-DDD	**<20.7**	ug/kg	68.9	20.7	50	10/01/20 15:08	10/02/20 18:50	72-54-8	
4,4'-DDE	**<19.4**	ug/kg	64.6	19.4	50	10/01/20 15:08	10/02/20 18:50	72-55-9	
4,4'-DDT	**<43.6**	ug/kg	145	43.6	50	10/01/20 15:08	10/02/20 18:50	50-29-3	
Dieldrin	**<18.6**	ug/kg	61.9	18.6	50	10/01/20 15:08	10/02/20 18:50	60-57-1	
Endosulfan I	**<14.9**	ug/kg	49.7	14.9	50	10/01/20 15:08	10/02/20 18:50	959-98-8	
Endosulfan II	**<29.6**	ug/kg	98.6	29.6	50	10/01/20 15:08	10/02/20 18:50	33213-65-9	
Endosulfan sulfate	**<35.8**	ug/kg	119	35.8	50	10/01/20 15:08	10/02/20 18:50	1031-07-8	
Endrin	**<20.4**	ug/kg	67.8	20.4	50	10/01/20 15:08	10/02/20 18:50	72-20-8	
Endrin aldehyde	**<40.2**	ug/kg	134	40.2	50	10/01/20 15:08	10/02/20 18:50	7421-93-4	
Endrin ketone	**<49.4**	ug/kg	165	49.4	50	10/01/20 15:08	10/02/20 18:50	53494-70-5	
Heptachlor	**<20.1**	ug/kg	66.9	20.1	50	10/01/20 15:08	10/02/20 18:50	76-44-8	
Heptachlor epoxide	**<13.8**	ug/kg	45.9	13.8	50	10/01/20 15:08	10/02/20 18:50	1024-57-3	
Methoxychlor	**<295**	ug/kg	983	295	50	10/01/20 15:08	10/02/20 18:50	72-43-5	
Toxaphene	**<791**	ug/kg	2630	791	50	10/01/20 15:08	10/02/20 18:50	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	129	%.	30-150		50	10/01/20 15:08	10/02/20 18:50	877-09-8	D3,v1
Decachlorobiphenyl (S)	146	%.	30-150		50	10/01/20 15:08	10/02/20 18:50	2051-24-3	
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	09/28/20 14:42	09/29/20 14:11	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.4**	ug/kg	54.0	16.4	1	09/28/20 14:42	09/29/20 14:11	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.4**	ug/kg	54.0	16.4	1	09/28/20 14:42	09/29/20 14:11	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.4**	ug/kg	54.0	16.4	1	09/28/20 14:42	09/29/20 14:11	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.4**	ug/kg	54.0	16.4	1	09/28/20 14:42	09/29/20 14:11	12672-29-6	
PCB-1254 (Aroclor 1254)	**22.6J**	ug/kg	54.0	16.4	1	09/28/20 14:42	09/29/20 14:11	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.4**	ug/kg	54.0	16.4	1	09/28/20 14:42	09/29/20 14:11	11096-82-5	
PCB, Total	**22.6J**	ug/kg	54.0	16.4	1	09/28/20 14:42	09/29/20 14:11	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	69-115		1	09/28/20 14:42	09/29/20 14:11	877-09-8	
Decachlorobiphenyl (S)	82	%	62-104		1	09/28/20 14:42	09/29/20 14:11	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**4.3**	mg/kg	0.95	0.28	6.667	09/29/20 06:57	10/02/20 15:04	7440-38-2	
Barium	**25.4**	mg/kg	0.94	0.28	6.667	09/29/20 06:57	10/02/20 15:04	7440-39-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-1, 0.2-5.5' **Lab ID: 40215420001** Collected: 09/23/20 13:10 Received: 09/25/20 15:12 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
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**0.55J**	mg/kg	0.72	0.10	6.667	09/29/20 06:57	10/02/20 15:04	7440-43-9	D3
Chromium	**10.4**	mg/kg	2.2	0.66	6.667	09/29/20 06:57	10/02/20 15:04	7440-47-3	
Copper	**23.5**	mg/kg	1.9	0.58	6.667	09/29/20 06:57	10/02/20 15:04	7440-50-8	
Lead	**18.2**	mg/kg	0.72	0.20	6.667	09/29/20 06:57	10/02/20 15:04	7439-92-1	
Selenium	**0.79**	mg/kg	0.72	0.20	6.667	09/29/20 06:57	10/02/20 15:04	7782-49-2	
Silver	**0.23J**	mg/kg	0.36	0.10	6.667	09/29/20 06:57	10/02/20 15:04	7440-22-4	D3
Zinc	**62.5**	mg/kg	25.1	7.5	6.667	09/29/20 06:57	10/02/20 15:04	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.028J**	mg/kg	0.035	0.0099	1	10/07/20 09:07	10/08/20 09:55	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**29.8J**	ug/kg	36.1	4.7	2	10/02/20 08:09	10/02/20 13:42	83-32-9	
Acenaphthylene	**15.1J**	ug/kg	36.1	4.6	2	10/02/20 08:09	10/02/20 13:42	208-96-8	
Anthracene	**35.1J**	ug/kg	36.1	4.5	2	10/02/20 08:09	10/02/20 13:42	120-12-7	
Benzo(a)anthracene	**168**	ug/kg	36.1	4.7	2	10/02/20 08:09	10/02/20 13:42	56-55-3	
Benzo(a)pyrene	**254**	ug/kg	36.1	4.1	2	10/02/20 08:09	10/02/20 13:42	50-32-8	
Benzo(b)fluoranthene	**367**	ug/kg	36.1	5.0	2	10/02/20 08:09	10/02/20 13:42	205-99-2	
Benzo(g,h,i)perylene	**169**	ug/kg	36.1	6.3	2	10/02/20 08:09	10/02/20 13:42	191-24-2	
Benzo(k)fluoranthene	**145**	ug/kg	36.1	4.6	2	10/02/20 08:09	10/02/20 13:42	207-08-9	
Chrysene	**245**	ug/kg	36.1	6.8	2	10/02/20 08:09	10/02/20 13:42	218-01-9	
Dibenz(a,h)anthracene	**39.9**	ug/kg	36.1	5.0	2	10/02/20 08:09	10/02/20 13:42	53-70-3	
Fluoranthene	**381**	ug/kg	36.1	4.3	2	10/02/20 08:09	10/02/20 13:42	206-44-0	
Fluorene	**17.3J**	ug/kg	36.1	4.3	2	10/02/20 08:09	10/02/20 13:42	86-73-7	
Indeno(1,2,3-cd)pyrene	**139**	ug/kg	36.1	7.5	2	10/02/20 08:09	10/02/20 13:42	193-39-5	
1-Methylnaphthalene	**25.0J**	ug/kg	36.1	5.3	2	10/02/20 08:09	10/02/20 13:42	90-12-0	
2-Methylnaphthalene	**29.4J**	ug/kg	36.1	5.3	2	10/02/20 08:09	10/02/20 13:42	91-57-6	
Naphthalene	**24.4J**	ug/kg	36.1	3.5	2	10/02/20 08:09	10/02/20 13:42	91-20-3	
Phenanthrene	**138**	ug/kg	36.1	4.1	2	10/02/20 08:09	10/02/20 13:42	85-01-8	
Pyrene	**283**	ug/kg	36.1	5.3	2	10/02/20 08:09	10/02/20 13:42	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	17-100		2	10/02/20 08:09	10/02/20 13:42	321-60-8	
Terphenyl-d14 (S)	72	%	17-98		2	10/02/20 08:09	10/02/20 13:42	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-1, 0.2-5.5' **Lab ID: 40215420001** Collected: 09/23/20 13:10 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/05/20 09:00	10/05/20 14:47	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/05/20 09:00	10/05/20 14:47	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/05/20 09:00	10/05/20 14:47	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/05/20 09:00	10/05/20 14:47	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 14:47	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 14:47	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 14:47	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/05/20 09:00	10/05/20 14:47	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 14:47	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/05/20 09:00	10/05/20 14:47	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/05/20 09:00	10/05/20 14:47	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/05/20 09:00	10/05/20 14:47	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/05/20 09:00	10/05/20 14:47	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/05/20 09:00	10/05/20 14:47	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 14:47	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/05/20 09:00	10/05/20 14:47	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/05/20 09:00	10/05/20 14:47	75-09-2	W
Naphthalene	**<27.3**	ug/kg	91.0	27.3	1	10/05/20 09:00	10/05/20 14:47	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/05/20 09:00	10/05/20 14:47	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/05/20 09:00	10/05/20 14:47	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	75-01-4	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-1, 0.2-5.5' **Lab ID: 40215420001** Collected: 09/23/20 13:10 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/05/20 09:00	10/05/20 14:47	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/05/20 09:00	10/05/20 14:47	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/05/20 09:00	10/05/20 14:47	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 14:47	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 14:47	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 14:47	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/05/20 09:00	10/05/20 14:47	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/05/20 09:00	10/05/20 14:47	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	58-145		1	10/05/20 09:00	10/05/20 14:47	1868-53-7	
Toluene-d8 (S)	94	%	56-140		1	10/05/20 09:00	10/05/20 14:47	2037-26-5	
4-Bromofluorobenzene (S)	83	%	52-137		1	10/05/20 09:00	10/05/20 14:47	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**7.4**	%	0.10	0.10	1		09/28/20 14:01		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-4, 0.0-4.0' **Lab ID: 40215420002** Collected: 09/23/20 15:15 Received: 09/25/20 15:12 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
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<5.6**	ug/kg	18.5	5.6	10	10/01/20 15:08	10/02/20 15:45	309-00-2	
alpha-BHC	**<2.4**	ug/kg	7.9	2.4	10	10/01/20 15:08	10/02/20 15:45	319-84-6	
beta-BHC	**<4.0**	ug/kg	13.3	4.0	10	10/01/20 15:08	10/02/20 15:45	319-85-7	
delta-BHC	**<3.0**	ug/kg	10.1	3.0	10	10/01/20 15:08	10/02/20 15:45	319-86-8	
gamma-BHC (Lindane)	**<2.2**	ug/kg	7.3	2.2	10	10/01/20 15:08	10/02/20 15:45	58-89-9	
Chlordane (Technical)	**<57.2**	ug/kg	191	57.2	10	10/01/20 15:08	10/02/20 15:45	57-74-9	
alpha-Chlordane	**<2.4**	ug/kg	8.0	2.4	10	10/01/20 15:08	10/02/20 15:45	5103-71-9	
gamma-Chlordane	**<5.6**	ug/kg	18.6	5.6	10	10/01/20 15:08	10/02/20 15:45	5103-74-2	
4,4'-DDD	**<4.0**	ug/kg	13.4	4.0	10	10/01/20 15:08	10/02/20 15:45	72-54-8	
4,4'-DDE	**<3.8**	ug/kg	12.6	3.8	10	10/01/20 15:08	10/02/20 15:45	72-55-9	
4,4'-DDT	**<8.5**	ug/kg	28.2	8.5	10	10/01/20 15:08	10/02/20 15:45	50-29-3	
Dieldrin	**<3.6**	ug/kg	12.0	3.6	10	10/01/20 15:08	10/02/20 15:45	60-57-1	
Endosulfan I	**<2.9**	ug/kg	9.7	2.9	10	10/01/20 15:08	10/02/20 15:45	959-98-8	
Endosulfan II	**<5.8**	ug/kg	19.2	5.8	10	10/01/20 15:08	10/02/20 15:45	33213-65-9	
Endosulfan sulfate	**<7.0**	ug/kg	23.1	7.0	10	10/01/20 15:08	10/02/20 15:45	1031-07-8	
Endrin	**<4.0**	ug/kg	13.2	4.0	10	10/01/20 15:08	10/02/20 15:45	72-20-8	
Endrin aldehyde	**<7.8**	ug/kg	26.1	7.8	10	10/01/20 15:08	10/02/20 15:45	7421-93-4	
Endrin ketone	**<9.6**	ug/kg	32.0	9.6	10	10/01/20 15:08	10/02/20 15:45	53494-70-5	
Heptachlor	**<3.9**	ug/kg	13.0	3.9	10	10/01/20 15:08	10/02/20 15:45	76-44-8	
Heptachlor epoxide	**<2.7**	ug/kg	8.9	2.7	10	10/01/20 15:08	10/02/20 15:45	1024-57-3	
Methoxychlor	**<57.4**	ug/kg	191	57.4	10	10/01/20 15:08	10/02/20 15:45	72-43-5	
Toxaphene	**<154**	ug/kg	512	154	10	10/01/20 15:08	10/02/20 15:45	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	109	%.	30-150		10	10/01/20 15:08	10/02/20 15:45	877-09-8	D3
Decachlorobiphenyl (S)	130	%.	30-150		10	10/01/20 15:08	10/02/20 15:45	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.0**	ug/kg	52.5	16.0	1	09/28/20 14:42	09/29/20 14:33	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.0**	ug/kg	52.5	16.0	1	09/28/20 14:42	09/29/20 14:33	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.0**	ug/kg	52.5	16.0	1	09/28/20 14:42	09/29/20 14:33	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.0**	ug/kg	52.5	16.0	1	09/28/20 14:42	09/29/20 14:33	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.0**	ug/kg	52.5	16.0	1	09/28/20 14:42	09/29/20 14:33	12672-29-6	
PCB-1254 (Aroclor 1254)	**21.8J**	ug/kg	52.5	16.0	1	09/28/20 14:42	09/29/20 14:33	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.0**	ug/kg	52.5	16.0	1	09/28/20 14:42	09/29/20 14:33	11096-82-5	
PCB, Total	**21.8J**	ug/kg	52.5	16.0	1	09/28/20 14:42	09/29/20 14:33	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	69-115		1	09/28/20 14:42	09/29/20 14:33	877-09-8	
Decachlorobiphenyl (S)	84	%	62-104		1	09/28/20 14:42	09/29/20 14:33	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**2.6**	mg/kg	0.91	0.27	6.667	09/29/20 06:57	10/02/20 15:31	7440-38-2	
Barium	**15.4**	mg/kg	0.90	0.27	6.667	09/29/20 06:57	10/02/20 15:31	7440-39-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-4, 0.0-4.0' **Lab ID: 40215420002** Collected: 09/23/20 15:15 Received: 09/25/20 15:12 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
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**0.29J**	mg/kg	0.69	0.10	6.667	09/29/20 06:57	10/02/20 15:31	7440-43-9	D3
Chromium	**9.6**	mg/kg	2.1	0.63	6.667	09/29/20 06:57	10/02/20 15:31	7440-47-3	
Copper	**33.6**	mg/kg	1.8	0.55	6.667	09/29/20 06:57	10/02/20 15:31	7440-50-8	
Lead	**50.9**	mg/kg	0.69	0.19	6.667	09/29/20 06:57	10/02/20 15:31	7439-92-1	
Selenium	**0.47J**	mg/kg	0.69	0.19	6.667	09/29/20 06:57	10/02/20 15:31	7782-49-2	D3
Silver	**0.11J**	mg/kg	0.34	0.098	6.667	09/29/20 06:57	10/02/20 15:31	7440-22-4	D3
Zinc	**83.8**	mg/kg	24.0	7.2	6.667	09/29/20 06:57	10/02/20 15:31	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.016J**	mg/kg	0.036	0.010	1	10/07/20 09:07	10/08/20 09:57	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**<22.7**	ug/kg	175	22.7	10	10/02/20 08:09	10/02/20 14:33	83-32-9	
Acenaphthylene	**22.1J**	ug/kg	175	22.0	10	10/02/20 08:09	10/02/20 14:33	208-96-8	
Anthracene	**114J**	ug/kg	175	21.7	10	10/02/20 08:09	10/02/20 14:33	120-12-7	
Benzo(a)anthracene	**680**	ug/kg	175	22.6	10	10/02/20 08:09	10/02/20 14:33	56-55-3	
Benzo(a)pyrene	**960**	ug/kg	175	19.8	10	10/02/20 08:09	10/02/20 14:33	50-32-8	
Benzo(b)fluoranthene	**1410**	ug/kg	175	24.3	10	10/02/20 08:09	10/02/20 14:33	205-99-2	
Benzo(g,h,i)perylene	**593**	ug/kg	175	30.7	10	10/02/20 08:09	10/02/20 14:33	191-24-2	
Benzo(k)fluoranthene	**537**	ug/kg	175	22.3	10	10/02/20 08:09	10/02/20 14:33	207-08-9	
Chrysene	**951**	ug/kg	175	32.9	10	10/02/20 08:09	10/02/20 14:33	218-01-9	
Dibenz(a,h)anthracene	**157J**	ug/kg	175	24.2	10	10/02/20 08:09	10/02/20 14:33	53-70-3	
Fluoranthene	**1640**	ug/kg	175	20.7	10	10/02/20 08:09	10/02/20 14:33	206-44-0	
Fluorene	**21.0J**	ug/kg	175	20.9	10	10/02/20 08:09	10/02/20 14:33	86-73-7	
Indeno(1,2,3-cd)pyrene	**524**	ug/kg	175	36.4	10	10/02/20 08:09	10/02/20 14:33	193-39-5	
1-Methylnaphthalene	**<25.5**	ug/kg	175	25.5	10	10/02/20 08:09	10/02/20 14:33	90-12-0	
2-Methylnaphthalene	**<25.5**	ug/kg	175	25.5	10	10/02/20 08:09	10/02/20 14:33	91-57-6	
Naphthalene	**<17.0**	ug/kg	175	17.0	10	10/02/20 08:09	10/02/20 14:33	91-20-3	
Phenanthrene	**520**	ug/kg	175	20.0	10	10/02/20 08:09	10/02/20 14:33	85-01-8	
Pyrene	**1200**	ug/kg	175	25.7	10	10/02/20 08:09	10/02/20 14:33	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	59	%	17-100		10	10/02/20 08:09	10/02/20 14:33	321-60-8	
Terphenyl-d14 (S)	66	%	17-98		10	10/02/20 08:09	10/02/20 14:33	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-4, 0.0-4.0' **Lab ID: 40215420002** Collected: 09/23/20 15:15 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/02/20 11:15	10/05/20 20:36	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/02/20 11:15	10/05/20 20:36	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/02/20 11:15	10/05/20 20:36	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/02/20 11:15	10/05/20 20:36	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 20:36	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 20:36	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 20:36	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/02/20 11:15	10/05/20 20:36	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 20:36	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/02/20 11:15	10/05/20 20:36	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/02/20 11:15	10/05/20 20:36	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/02/20 11:15	10/05/20 20:36	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/02/20 11:15	10/05/20 20:36	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/02/20 11:15	10/05/20 20:36	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 20:36	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/02/20 11:15	10/05/20 20:36	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/02/20 11:15	10/05/20 20:36	75-09-2	W
Naphthalene	**<27.3**	ug/kg	91.0	27.3	1	10/02/20 11:15	10/05/20 20:36	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/02/20 11:15	10/05/20 20:36	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/02/20 11:15	10/05/20 20:36	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	75-01-4	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-4, 0.0-4.0' **Lab ID: 40215420002** Collected: 09/23/20 15:15 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/02/20 11:15	10/05/20 20:36	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/02/20 11:15	10/05/20 20:36	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 20:36	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 20:36	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 20:36	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 20:36	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/02/20 11:15	10/05/20 20:36	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/02/20 11:15	10/05/20 20:36	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	88	%	58-145		1	10/02/20 11:15	10/05/20 20:36	1868-53-7	
Toluene-d8 (S)	89	%	56-140		1	10/02/20 11:15	10/05/20 20:36	2037-26-5	
4-Bromofluorobenzene (S)	76	%	52-137		1	10/02/20 11:15	10/05/20 20:36	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**4.4**	%	0.10	0.10	1		09/28/20 14:01		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-6, 0.2-5.0' **Lab ID: 40215420003** Collected: 09/23/20 17:02 Received: 09/25/20 15:12 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
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<2.9**	ug/kg	9.6	2.9	5	10/01/20 15:08	10/02/20 14:31	309-00-2	
alpha-BHC	**<1.2**	ug/kg	4.1	1.2	5	10/01/20 15:08	10/02/20 14:31	319-84-6	
beta-BHC	**<2.1**	ug/kg	6.9	2.1	5	10/01/20 15:08	10/02/20 14:31	319-85-7	
delta-BHC	**<1.6**	ug/kg	5.2	1.6	5	10/01/20 15:08	10/02/20 14:31	319-86-8	
gamma-BHC (Lindane)	**<1.1**	ug/kg	3.8	1.1	5	10/01/20 15:08	10/02/20 14:31	58-89-9	
Chlordane (Technical)	**<29.7**	ug/kg	98.9	29.7	5	10/01/20 15:08	10/02/20 14:31	57-74-9	
alpha-Chlordane	**<1.2**	ug/kg	4.1	1.2	5	10/01/20 15:08	10/02/20 14:31	5103-71-9	
gamma-Chlordane	**<2.9**	ug/kg	9.6	2.9	5	10/01/20 15:08	10/02/20 14:31	5103-74-2	
4,4'-DDD	**<2.1**	ug/kg	6.9	2.1	5	10/01/20 15:08	10/02/20 14:31	72-54-8	
4,4'-DDE	**<2.0**	ug/kg	6.5	2.0	5	10/01/20 15:08	10/02/20 14:31	72-55-9	
4,4'-DDT	**<4.4**	ug/kg	14.6	4.4	5	10/01/20 15:08	10/02/20 14:31	50-29-3	
Dieldrin	**6.1J**	ug/kg	6.2	1.9	5	10/01/20 15:08	10/02/20 14:31	60-57-1	
Endosulfan I	**<1.5**	ug/kg	5.0	1.5	5	10/01/20 15:08	10/02/20 14:31	959-98-8	
Endosulfan II	**<3.0**	ug/kg	9.9	3.0	5	10/01/20 15:08	10/02/20 14:31	33213-65-9	
Endosulfan sulfate	**<3.6**	ug/kg	12.0	3.6	5	10/01/20 15:08	10/02/20 14:31	1031-07-8	
Endrin	**<2.1**	ug/kg	6.8	2.1	5	10/01/20 15:08	10/02/20 14:31	72-20-8	
Endrin aldehyde	**<4.1**	ug/kg	13.5	4.1	5	10/01/20 15:08	10/02/20 14:31	7421-93-4	
Endrin ketone	**12.1J**	ug/kg	16.6	5.0	5	10/01/20 15:08	10/02/20 14:31	53494-70-5	
Heptachlor	**<2.0**	ug/kg	6.7	2.0	5	10/01/20 15:08	10/02/20 14:31	76-44-8	
Heptachlor epoxide	**<1.4**	ug/kg	4.6	1.4	5	10/01/20 15:08	10/02/20 14:31	1024-57-3	
Methoxychlor	**<29.7**	ug/kg	99.1	29.7	5	10/01/20 15:08	10/02/20 14:31	72-43-5	
Toxaphene	**<79.8**	ug/kg	266	79.8	5	10/01/20 15:08	10/02/20 14:31	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	95	%.	30-150		5	10/01/20 15:08	10/02/20 14:31	877-09-8	D3
Decachlorobiphenyl (S)	108	%.	30-150		5	10/01/20 15:08	10/02/20 14:31	2051-24-3	
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	09/30/20 12:23	10/01/20 20:49	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.4**	ug/kg	54.0	16.4	1	09/30/20 12:23	10/01/20 20:49	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.4**	ug/kg	54.0	16.4	1	09/30/20 12:23	10/01/20 20:49	11141-16-5	
PCB-1242 (Aroclor 1242)	**455**	ug/kg	54.0	16.4	1	09/30/20 12:23	10/01/20 20:49	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.4**	ug/kg	54.0	16.4	1	09/30/20 12:23	10/01/20 20:49	12672-29-6	
PCB-1254 (Aroclor 1254)	**125**	ug/kg	54.0	16.4	1	09/30/20 12:23	10/01/20 20:49	11097-69-1	
PCB-1260 (Aroclor 1260)	**19.0J**	ug/kg	54.0	16.4	1	09/30/20 12:23	10/01/20 20:49	11096-82-5	
PCB, Total	**599**	ug/kg	54.0	16.4	1	09/30/20 12:23	10/01/20 20:49	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	69-115		1	09/30/20 12:23	10/01/20 20:49	877-09-8	
Decachlorobiphenyl (S)	82	%	62-104		1	09/30/20 12:23	10/01/20 20:49	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**4.0**	mg/kg	0.95	0.28	6.667	09/29/20 06:57	10/02/20 15:44	7440-38-2	
Barium	**44.3**	mg/kg	0.94	0.28	6.667	09/29/20 06:57	10/02/20 15:44	7440-39-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-6, 0.2-5.0' **Lab ID: 40215420003** Collected: 09/23/20 17:02 Received: 09/25/20 15:12 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
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**0.71J**	mg/kg	0.72	0.10	6.667	09/29/20 06:57	10/02/20 15:44	7440-43-9	D3
Chromium	**10.6**	mg/kg	2.2	0.65	6.667	09/29/20 06:57	10/02/20 15:44	7440-47-3	
Copper	**34.8**	mg/kg	1.9	0.58	6.667	09/29/20 06:57	10/02/20 15:44	7440-50-8	
Lead	**129**	mg/kg	0.72	0.19	6.667	09/29/20 06:57	10/02/20 15:44	7439-92-1	
Selenium	**0.55J**	mg/kg	0.72	0.20	6.667	09/29/20 06:57	10/02/20 15:44	7782-49-2	D3
Silver	**<0.10**	mg/kg	0.36	0.10	6.667	09/29/20 06:57	10/02/20 15:44	7440-22-4	D3
Zinc	**1790**	mg/kg	25.0	7.5	6.667	09/29/20 06:57	10/02/20 15:44	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.070**	mg/kg	0.037	0.010	1	10/07/20 09:07	10/08/20 10:00	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**8.0J**	ug/kg	18.0	2.3	1	10/02/20 08:09	10/02/20 13:59	83-32-9	
Acenaphthylene	**8.5J**	ug/kg	18.0	2.3	1	10/02/20 08:09	10/02/20 13:59	208-96-8	
Anthracene	**16.6J**	ug/kg	18.0	2.2	1	10/02/20 08:09	10/02/20 13:59	120-12-7	
Benzo(a)anthracene	**38.4**	ug/kg	18.0	2.3	1	10/02/20 08:09	10/02/20 13:59	56-55-3	
Benzo(a)pyrene	**41.9**	ug/kg	18.0	2.0	1	10/02/20 08:09	10/02/20 13:59	50-32-8	
Benzo(b)fluoranthene	**60.9**	ug/kg	18.0	2.5	1	10/02/20 08:09	10/02/20 13:59	205-99-2	
Benzo(g,h,i)perylene	**24.3**	ug/kg	18.0	3.2	1	10/02/20 08:09	10/02/20 13:59	191-24-2	
Benzo(k)fluoranthene	**22.9**	ug/kg	18.0	2.3	1	10/02/20 08:09	10/02/20 13:59	207-08-9	
Chrysene	**49.2**	ug/kg	18.0	3.4	1	10/02/20 08:09	10/02/20 13:59	218-01-9	
Dibenz(a,h)anthracene	**6.4J**	ug/kg	18.0	2.5	1	10/02/20 08:09	10/02/20 13:59	53-70-3	
Fluoranthene	**73.3**	ug/kg	18.0	2.1	1	10/02/20 08:09	10/02/20 13:59	206-44-0	
Fluorene	**11.3J**	ug/kg	18.0	2.2	1	10/02/20 08:09	10/02/20 13:59	86-73-7	
Indeno(1,2,3-cd)pyrene	**19.4**	ug/kg	18.0	3.8	1	10/02/20 08:09	10/02/20 13:59	193-39-5	
1-Methylnaphthalene	**47.7**	ug/kg	18.0	2.6	1	10/02/20 08:09	10/02/20 13:59	90-12-0	
2-Methylnaphthalene	**59.9**	ug/kg	18.0	2.6	1	10/02/20 08:09	10/02/20 13:59	91-57-6	
Naphthalene	**43.0**	ug/kg	18.0	1.8	1	10/02/20 08:09	10/02/20 13:59	91-20-3	
Phenanthrene	**70.4**	ug/kg	18.0	2.1	1	10/02/20 08:09	10/02/20 13:59	85-01-8	
Pyrene	**<2.7**	ug/kg	18.0	2.7	1	10/02/20 08:09	10/02/20 13:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	44	%	17-100		1	10/02/20 08:09	10/02/20 13:59	321-60-8	
Terphenyl-d14 (S)	48	%	17-98		1	10/02/20 08:09	10/02/20 13:59	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	75-35-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-6, 0.2-5.0' **Lab ID: 40215420003** Collected: 09/23/20 17:02 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/02/20 11:15	10/05/20 23:27	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/02/20 11:15	10/05/20 23:27	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/02/20 11:15	10/05/20 23:27	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/02/20 11:15	10/05/20 23:27	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 23:27	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 23:27	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 23:27	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/02/20 11:15	10/05/20 23:27	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 23:27	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/02/20 11:15	10/05/20 23:27	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/02/20 11:15	10/05/20 23:27	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/02/20 11:15	10/05/20 23:27	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/02/20 11:15	10/05/20 23:27	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/02/20 11:15	10/05/20 23:27	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 23:27	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/02/20 11:15	10/05/20 23:27	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/02/20 11:15	10/05/20 23:27	75-09-2	W
Naphthalene	**<27.3**	ug/kg	91.0	27.3	1	10/02/20 11:15	10/05/20 23:27	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/02/20 11:15	10/05/20 23:27	127-18-4	W
Toluene	**58.3J**	ug/kg	64.8	27.0	1	10/02/20 11:15	10/05/20 23:27	108-88-3	
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/02/20 11:15	10/05/20 23:27	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	75-01-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-6, 0.2-5.0' **Lab ID: 40215420003** Collected: 09/23/20 17:02 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/02/20 11:15	10/05/20 23:27	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/02/20 11:15	10/05/20 23:27	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 23:27	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 23:27	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 23:27	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 23:27	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/02/20 11:15	10/05/20 23:27	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/02/20 11:15	10/05/20 23:27	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	58-145		1	10/02/20 11:15	10/05/20 23:27	1868-53-7	
Toluene-d8 (S)	98	%	56-140		1	10/02/20 11:15	10/05/20 23:27	2037-26-5	
4-Bromofluorobenzene (S)	84	%	52-137		1	10/02/20 11:15	10/05/20 23:27	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**7.5**	%	0.10	0.10	1		09/28/20 14:20		

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-10, 0.3-4.0' **Lab ID: 40215420004** Collected: 09/23/20 12:05 Received: 09/25/20 15:12 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
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<29.1**	ug/kg	96.7	29.1	50	10/01/20 15:08	10/02/20 18:32	309-00-2	
alpha-BHC	**<12.4**	ug/kg	41.4	12.4	50	10/01/20 15:08	10/02/20 18:32	319-84-6	
beta-BHC	**<20.9**	ug/kg	69.4	20.9	50	10/01/20 15:08	10/02/20 18:32	319-85-7	
delta-BHC	**<15.9**	ug/kg	52.8	15.9	50	10/01/20 15:08	10/02/20 18:32	319-86-8	
gamma-BHC (Lindane)	**<11.5**	ug/kg	38.3	11.5	50	10/01/20 15:08	10/02/20 18:32	58-89-9	
Chlordane (Technical)	**<299**	ug/kg	996	299	50	10/01/20 15:08	10/02/20 18:32	57-74-9	
alpha-Chlordane	**<12.5**	ug/kg	41.8	12.5	50	10/01/20 15:08	10/02/20 18:32	5103-71-9	
gamma-Chlordane	**<29.2**	ug/kg	97.1	29.2	50	10/01/20 15:08	10/02/20 18:32	5103-74-2	
4,4'-DDD	**<21.0**	ug/kg	70.0	21.0	50	10/01/20 15:08	10/02/20 18:32	72-54-8	
4,4'-DDE	**<19.7**	ug/kg	65.6	19.7	50	10/01/20 15:08	10/02/20 18:32	72-55-9	
4,4'-DDT	**<44.3**	ug/kg	147	44.3	50	10/01/20 15:08	10/02/20 18:32	50-29-3	
Dieldrin	**<18.9**	ug/kg	62.9	18.9	50	10/01/20 15:08	10/02/20 18:32	60-57-1	
Endosulfan I	**<15.2**	ug/kg	50.5	15.2	50	10/01/20 15:08	10/02/20 18:32	959-98-8	
Endosulfan II	**<30.1**	ug/kg	100	30.1	50	10/01/20 15:08	10/02/20 18:32	33213-65-9	
Endosulfan sulfate	**<36.3**	ug/kg	121	36.3	50	10/01/20 15:08	10/02/20 18:32	1031-07-8	
Endrin	**<20.7**	ug/kg	68.9	20.7	50	10/01/20 15:08	10/02/20 18:32	72-20-8	
Endrin aldehyde	**<40.9**	ug/kg	136	40.9	50	10/01/20 15:08	10/02/20 18:32	7421-93-4	
Endrin ketone	**<50.2**	ug/kg	167	50.2	50	10/01/20 15:08	10/02/20 18:32	53494-70-5	
Heptachlor	**<20.4**	ug/kg	68.0	20.4	50	10/01/20 15:08	10/02/20 18:32	76-44-8	
Heptachlor epoxide	**<14.0**	ug/kg	46.7	14.0	50	10/01/20 15:08	10/02/20 18:32	1024-57-3	
Methoxychlor	**<300**	ug/kg	998	300	50	10/01/20 15:08	10/02/20 18:32	72-43-5	
Toxaphene	**<804**	ug/kg	2680	804	50	10/01/20 15:08	10/02/20 18:32	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	132	%.	30-150		50	10/01/20 15:08	10/02/20 18:32	877-09-8	D3,v1
Decachlorobiphenyl (S)	136	%.	30-150		50	10/01/20 15:08	10/02/20 18:32	2051-24-3	
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	09/28/20 14:42	09/29/20 15:17	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.5**	ug/kg	54.2	16.5	1	09/28/20 14:42	09/29/20 15:17	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.5**	ug/kg	54.2	16.5	1	09/28/20 14:42	09/29/20 15:17	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.5**	ug/kg	54.2	16.5	1	09/28/20 14:42	09/29/20 15:17	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.5**	ug/kg	54.2	16.5	1	09/28/20 14:42	09/29/20 15:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**35.0J**	ug/kg	54.2	16.5	1	09/28/20 14:42	09/29/20 15:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**32.2J**	ug/kg	54.2	16.5	1	09/28/20 14:42	09/29/20 15:17	11096-82-5	
PCB, Total	**67.2**	ug/kg	54.2	16.5	1	09/28/20 14:42	09/29/20 15:17	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	69-115		1	09/28/20 14:42	09/29/20 15:17	877-09-8	
Decachlorobiphenyl (S)	84	%	62-104		1	09/28/20 14:42	09/29/20 15:17	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**3.5**	mg/kg	0.93	0.28	6.667	09/29/20 06:57	10/02/20 15:51	7440-38-2	
Barium	**22.4**	mg/kg	0.93	0.28	6.667	09/29/20 06:57	10/02/20 15:51	7440-39-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-10, 0.3-4.0' **Lab ID: 40215420004** Collected: 09/23/20 12:05 Received: 09/25/20 15:12 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
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**0.12J**	mg/kg	0.71	0.10	6.667	09/29/20 06:57	10/02/20 15:51	7440-43-9	D3
Chromium	**12.4**	mg/kg	2.1	0.64	6.667	09/29/20 06:57	10/02/20 15:51	7440-47-3	
Copper	**29.0**	mg/kg	1.9	0.57	6.667	09/29/20 06:57	10/02/20 15:51	7440-50-8	
Lead	**21.5**	mg/kg	0.71	0.19	6.667	09/29/20 06:57	10/02/20 15:51	7439-92-1	
Selenium	**0.59J**	mg/kg	0.71	0.19	6.667	09/29/20 06:57	10/02/20 15:51	7782-49-2	D3
Silver	**<0.10**	mg/kg	0.35	0.10	6.667	09/29/20 06:57	10/02/20 15:51	7440-22-4	D3
Zinc	**56.5**	mg/kg	24.6	7.4	6.667	09/29/20 06:57	10/02/20 15:51	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.038**	mg/kg	0.037	0.010	1	10/07/20 09:07	10/08/20 10:02	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**5.8J**	ug/kg	18.2	2.4	1	10/02/20 08:09	10/02/20 14:16	83-32-9	
Acenaphthylene	**37.2**	ug/kg	18.2	2.3	1	10/02/20 08:09	10/02/20 14:16	208-96-8	
Anthracene	**32.7**	ug/kg	18.2	2.3	1	10/02/20 08:09	10/02/20 14:16	120-12-7	
Benzo(a)anthracene	**100**	ug/kg	18.2	2.3	1	10/02/20 08:09	10/02/20 14:16	56-55-3	
Benzo(a)pyrene	**166**	ug/kg	18.2	2.1	1	10/02/20 08:09	10/02/20 14:16	50-32-8	
Benzo(b)fluoranthene	**186**	ug/kg	18.2	2.5	1	10/02/20 08:09	10/02/20 14:16	205-99-2	
Benzo(g,h,i)perylene	**96.3**	ug/kg	18.2	3.2	1	10/02/20 08:09	10/02/20 14:16	191-24-2	
Benzo(k)fluoranthene	**92.0**	ug/kg	18.2	2.3	1	10/02/20 08:09	10/02/20 14:16	207-08-9	
Chrysene	**114**	ug/kg	18.2	3.4	1	10/02/20 08:09	10/02/20 14:16	218-01-9	
Dibenz(a,h)anthracene	**22.8**	ug/kg	18.2	2.5	1	10/02/20 08:09	10/02/20 14:16	53-70-3	
Fluoranthene	**142**	ug/kg	18.2	2.1	1	10/02/20 08:09	10/02/20 14:16	206-44-0	
Fluorene	**5.4J**	ug/kg	18.2	2.2	1	10/02/20 08:09	10/02/20 14:16	86-73-7	
Indeno(1,2,3-cd)pyrene	**84.4**	ug/kg	18.2	3.8	1	10/02/20 08:09	10/02/20 14:16	193-39-5	
1-Methylnaphthalene	**26.1**	ug/kg	18.2	2.7	1	10/02/20 08:09	10/02/20 14:16	90-12-0	
2-Methylnaphthalene	**35.8**	ug/kg	18.2	2.7	1	10/02/20 08:09	10/02/20 14:16	91-57-6	
Naphthalene	**31.8**	ug/kg	18.2	1.8	1	10/02/20 08:09	10/02/20 14:16	91-20-3	
Phenanthrene	**49.5**	ug/kg	18.2	2.1	1	10/02/20 08:09	10/02/20 14:16	85-01-8	
Pyrene	**152**	ug/kg	18.2	2.7	1	10/02/20 08:09	10/02/20 14:16	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	66	%	17-100		1	10/02/20 08:09	10/02/20 14:16	321-60-8	
Terphenyl-d14 (S)	68	%	17-98		1	10/02/20 08:09	10/02/20 14:16	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	75-35-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

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Pace Project No.: 40215420

Sample: GP-10, 0.3-4.0' **Lab ID: 40215420004** Collected: 09/23/20 12:05 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/02/20 11:15	10/05/20 20:53	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/02/20 11:15	10/05/20 20:53	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/02/20 11:15	10/05/20 20:53	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/02/20 11:15	10/05/20 20:53	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 20:53	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 20:53	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 20:53	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/02/20 11:15	10/05/20 20:53	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 20:53	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/02/20 11:15	10/05/20 20:53	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/02/20 11:15	10/05/20 20:53	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/02/20 11:15	10/05/20 20:53	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/02/20 11:15	10/05/20 20:53	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/02/20 11:15	10/05/20 20:53	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 20:53	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/02/20 11:15	10/05/20 20:53	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/02/20 11:15	10/05/20 20:53	75-09-2	W
Naphthalene	**<27.3**	ug/kg	91.0	27.3	1	10/02/20 11:15	10/05/20 20:53	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/02/20 11:15	10/05/20 20:53	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/02/20 11:15	10/05/20 20:53	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	75-01-4	W

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-10, 0.3-4.0' **Lab ID: 40215420004** Collected: 09/23/20 12:05 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/02/20 11:15	10/05/20 20:53	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/02/20 11:15	10/05/20 20:53	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 20:53	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 20:53	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 20:53	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 20:53	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/02/20 11:15	10/05/20 20:53	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/02/20 11:15	10/05/20 20:53	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	91	%	58-145		1	10/02/20 11:15	10/05/20 20:53	1868-53-7	
Toluene-d8 (S)	94	%	56-140		1	10/02/20 11:15	10/05/20 20:53	2037-26-5	
4-Bromofluorobenzene (S)	78	%	52-137		1	10/02/20 11:15	10/05/20 20:53	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**8.1**	%	0.10	0.10	1		09/28/20 14:20		

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Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-11, 0.3-4.5' **Lab ID: 40215420005** Collected: 09/23/20 11:14 Received: 09/25/20 15:12 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
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<29.2**	ug/kg	97.3	29.2	50	10/01/20 15:08	10/02/20 19:08	309-00-2	
alpha-BHC	**<12.5**	ug/kg	41.6	12.5	50	10/01/20 15:08	10/02/20 19:08	319-84-6	
beta-BHC	**<21.0**	ug/kg	69.8	21.0	50	10/01/20 15:08	10/02/20 19:08	319-85-7	
delta-BHC	**<15.9**	ug/kg	53.1	15.9	50	10/01/20 15:08	10/02/20 19:08	319-86-8	
gamma-BHC (Lindane)	**<11.6**	ug/kg	38.6	11.6	50	10/01/20 15:08	10/02/20 19:08	58-89-9	
Chlordane (Technical)	**<301**	ug/kg	1000	301	50	10/01/20 15:08	10/02/20 19:08	57-74-9	
alpha-Chlordane	**<12.6**	ug/kg	42.0	12.6	50	10/01/20 15:08	10/02/20 19:08	5103-71-9	
gamma-Chlordane	**<29.3**	ug/kg	97.7	29.3	50	10/01/20 15:08	10/02/20 19:08	5103-74-2	
4,4'-DDD	**<21.1**	ug/kg	70.4	21.1	50	10/01/20 15:08	10/02/20 19:08	72-54-8	
4,4'-DDE	**<19.8**	ug/kg	66.0	19.8	50	10/01/20 15:08	10/02/20 19:08	72-55-9	
4,4'-DDT	**<44.5**	ug/kg	148	44.5	50	10/01/20 15:08	10/02/20 19:08	50-29-3	
Dieldrin	**<19.0**	ug/kg	63.3	19.0	50	10/01/20 15:08	10/02/20 19:08	60-57-1	
Endosulfan I	**<15.2**	ug/kg	50.7	15.2	50	10/01/20 15:08	10/02/20 19:08	959-98-8	
Endosulfan II	**<30.3**	ug/kg	101	30.3	50	10/01/20 15:08	10/02/20 19:08	33213-65-9	
Endosulfan sulfate	**<36.5**	ug/kg	122	36.5	50	10/01/20 15:08	10/02/20 19:08	1031-07-8	
Endrin	**<20.8**	ug/kg	69.3	20.8	50	10/01/20 15:08	10/02/20 19:08	72-20-8	
Endrin aldehyde	**<41.1**	ug/kg	137	41.1	50	10/01/20 15:08	10/02/20 19:08	7421-93-4	
Endrin ketone	**<50.5**	ug/kg	168	50.5	50	10/01/20 15:08	10/02/20 19:08	53494-70-5	
Heptachlor	**<20.5**	ug/kg	68.4	20.5	50	10/01/20 15:08	10/02/20 19:08	76-44-8	
Heptachlor epoxide	**<14.1**	ug/kg	46.9	14.1	50	10/01/20 15:08	10/02/20 19:08	1024-57-3	
Methoxychlor	**<301**	ug/kg	1000	301	50	10/01/20 15:08	10/02/20 19:08	72-43-5	
Toxaphene	**<808**	ug/kg	2690	808	50	10/01/20 15:08	10/02/20 19:08	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	125	%.	30-150		50	10/01/20 15:08	10/02/20 19:08	877-09-8	D3,v1
Decachlorobiphenyl (S)	153	%.	30-150		50	10/01/20 15:08	10/02/20 19:08	2051-24-3	S4
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	09/28/20 14:42	09/29/20 13:27	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.7**	ug/kg	54.8	16.7	1	09/28/20 14:42	09/29/20 13:27	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.7**	ug/kg	54.8	16.7	1	09/28/20 14:42	09/29/20 13:27	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.7**	ug/kg	54.8	16.7	1	09/28/20 14:42	09/29/20 13:27	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.7**	ug/kg	54.8	16.7	1	09/28/20 14:42	09/29/20 13:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**25.4J**	ug/kg	54.8	16.7	1	09/28/20 14:42	09/29/20 13:27	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.7**	ug/kg	54.8	16.7	1	09/28/20 14:42	09/29/20 13:27	11096-82-5	
PCB, Total	**25.4J**	ug/kg	54.8	16.7	1	09/28/20 14:42	09/29/20 13:27	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	69-115		1	09/28/20 14:42	09/29/20 13:27	877-09-8	
Decachlorobiphenyl (S)	84	%	62-104		1	09/28/20 14:42	09/29/20 13:27	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**4.0**	mg/kg	0.95	0.29	6.667	09/29/20 06:57	10/02/20 16:12	7440-38-2	
Barium	**34.4**	mg/kg	0.94	0.28	6.667	09/29/20 06:57	10/02/20 16:12	7440-39-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-11, 0.3-4.5' **Lab ID: 40215420005** Collected: 09/23/20 11:14 Received: 09/25/20 15:12 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
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**<0.11**	mg/kg	0.72	0.11	6.667	09/29/20 06:57	10/02/20 16:12	7440-43-9	D3
Chromium	**14.9**	mg/kg	2.2	0.66	6.667	09/29/20 06:57	10/02/20 16:12	7440-47-3	
Copper	**26.7**	mg/kg	1.9	0.58	6.667	09/29/20 06:57	10/02/20 16:12	7440-50-8	
Lead	**28.5**	mg/kg	0.72	0.20	6.667	09/29/20 06:57	10/02/20 16:12	7439-92-1	
Selenium	**0.55J**	mg/kg	0.72	0.20	6.667	09/29/20 06:57	10/02/20 16:12	7782-49-2	D3
Silver	**<0.10**	mg/kg	0.36	0.10	6.667	09/29/20 06:57	10/02/20 16:12	7440-22-4	D3
Zinc	**110**	mg/kg	25.1	7.5	6.667	09/29/20 06:57	10/02/20 16:12	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.028J**	mg/kg	0.038	0.011	1	10/07/20 09:07	10/08/20 10:09	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**<23.8**	ug/kg	184	23.8	10	10/02/20 08:09	10/02/20 14:51	83-32-9	
Acenaphthylene	**111J**	ug/kg	184	23.1	10	10/02/20 08:09	10/02/20 14:51	208-96-8	
Anthracene	**291**	ug/kg	184	22.8	10	10/02/20 08:09	10/02/20 14:51	120-12-7	
Benzo(a)anthracene	**490**	ug/kg	184	23.7	10	10/02/20 08:09	10/02/20 14:51	56-55-3	
Benzo(a)pyrene	**546**	ug/kg	184	20.9	10	10/02/20 08:09	10/02/20 14:51	50-32-8	
Benzo(b)fluoranthene	**746**	ug/kg	184	25.5	10	10/02/20 08:09	10/02/20 14:51	205-99-2	
Benzo(g,h,i)perylene	**263**	ug/kg	184	32.2	10	10/02/20 08:09	10/02/20 14:51	191-24-2	
Benzo(k)fluoranthene	**293**	ug/kg	184	23.5	10	10/02/20 08:09	10/02/20 14:51	207-08-9	
Chrysene	**546**	ug/kg	184	34.6	10	10/02/20 08:09	10/02/20 14:51	218-01-9	
Dibenz(a,h)anthracene	**77.2J**	ug/kg	184	25.4	10	10/02/20 08:09	10/02/20 14:51	53-70-3	
Fluoranthene	**1240**	ug/kg	184	21.7	10	10/02/20 08:09	10/02/20 14:51	206-44-0	
Fluorene	**56.4J**	ug/kg	184	22.0	10	10/02/20 08:09	10/02/20 14:51	86-73-7	
Indeno(1,2,3-cd)pyrene	**251**	ug/kg	184	38.3	10	10/02/20 08:09	10/02/20 14:51	193-39-5	
1-Methylnaphthalene	**<26.8**	ug/kg	184	26.8	10	10/02/20 08:09	10/02/20 14:51	90-12-0	
2-Methylnaphthalene	**<26.9**	ug/kg	184	26.9	10	10/02/20 08:09	10/02/20 14:51	91-57-6	
Naphthalene	**29.4J**	ug/kg	184	17.9	10	10/02/20 08:09	10/02/20 14:51	91-20-3	
Phenanthrene	**849**	ug/kg	184	21.0	10	10/02/20 08:09	10/02/20 14:51	85-01-8	
Pyrene	**854**	ug/kg	184	27.0	10	10/02/20 08:09	10/02/20 14:51	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	60	%	17-100		10	10/02/20 08:09	10/02/20 14:51	321-60-8	
Terphenyl-d14 (S)	67	%	17-98		10	10/02/20 08:09	10/02/20 14:51	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	75-35-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-11, 0.3-4.5' **Lab ID: 40215420005** Collected: 09/23/20 11:14 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/02/20 11:15	10/05/20 21:10	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/02/20 11:15	10/05/20 21:10	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/02/20 11:15	10/05/20 21:10	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/02/20 11:15	10/05/20 21:10	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 21:10	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 21:10	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 21:10	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/02/20 11:15	10/05/20 21:10	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:10	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/02/20 11:15	10/05/20 21:10	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/02/20 11:15	10/05/20 21:10	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/02/20 11:15	10/05/20 21:10	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/02/20 11:15	10/05/20 21:10	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/02/20 11:15	10/05/20 21:10	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:10	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/02/20 11:15	10/05/20 21:10	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/02/20 11:15	10/05/20 21:10	75-09-2	W
Naphthalene	**<27.3**	ug/kg	91.0	27.3	1	10/02/20 11:15	10/05/20 21:10	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/02/20 11:15	10/05/20 21:10	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/02/20 11:15	10/05/20 21:10	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	75-01-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-11, 0.3-4.5' **Lab ID: 40215420005** Collected: 09/23/20 11:14 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/02/20 11:15	10/05/20 21:10	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/02/20 11:15	10/05/20 21:10	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 21:10	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:10	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:10	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 21:10	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/02/20 11:15	10/05/20 21:10	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/02/20 11:15	10/05/20 21:10	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	91	%	58-145		1	10/02/20 11:15	10/05/20 21:10	1868-53-7	
Toluene-d8 (S)	93	%	56-140		1	10/02/20 11:15	10/05/20 21:10	2037-26-5	
4-Bromofluorobenzene (S)	79	%	52-137		1	10/02/20 11:15	10/05/20 21:10	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**9.1**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-3, 0.1-4.0' **Lab ID: 40215420006** Collected: 09/24/20 08:36 Received: 09/25/20 15:12 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
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<6.2**	ug/kg	20.6	6.2	10	10/01/20 15:08	10/06/20 17:43	309-00-2	
alpha-BHC	**<2.7**	ug/kg	8.8	2.7	10	10/01/20 15:08	10/06/20 17:43	319-84-6	
beta-BHC	**<4.4**	ug/kg	14.8	4.4	10	10/01/20 15:08	10/06/20 17:43	319-85-7	
delta-BHC	**<3.4**	ug/kg	11.3	3.4	10	10/01/20 15:08	10/06/20 17:43	319-86-8	
gamma-BHC (Lindane)	**<2.5**	ug/kg	8.2	2.5	10	10/01/20 15:08	10/06/20 17:43	58-89-9	
Chlordane (Technical)	**<63.8**	ug/kg	212	63.8	10	10/01/20 15:08	10/06/20 17:43	57-74-9	
alpha-Chlordane	**<2.7**	ug/kg	8.9	2.7	10	10/01/20 15:08	10/06/20 17:43	5103-71-9	
gamma-Chlordane	**<6.2**	ug/kg	20.7	6.2	10	10/01/20 15:08	10/06/20 17:43	5103-74-2	
4,4'-DDD	**9.7J**	ug/kg	14.9	4.5	10	10/01/20 15:08	10/06/20 17:43	72-54-8	
4,4'-DDE	**11.5J**	ug/kg	14.0	4.2	10	10/01/20 15:08	10/06/20 17:43	72-55-9	
4,4'-DDT	**<9.4**	ug/kg	31.4	9.4	10	10/01/20 15:08	10/06/20 17:43	50-29-3	
Dieldrin	**5.2J**	ug/kg	13.4	4.0	10	10/01/20 15:08	10/06/20 17:43	60-57-1	
Endosulfan I	**<3.2**	ug/kg	10.8	3.2	10	10/01/20 15:08	10/06/20 17:43	959-98-8	
Endosulfan II	**<6.4**	ug/kg	21.4	6.4	10	10/01/20 15:08	10/06/20 17:43	33213-65-9	
Endosulfan sulfate	**<7.7**	ug/kg	25.8	7.7	10	10/01/20 15:08	10/06/20 17:43	1031-07-8	
Endrin	**<4.4**	ug/kg	14.7	4.4	10	10/01/20 15:08	10/06/20 17:43	72-20-8	
Endrin aldehyde	**<8.7**	ug/kg	29.0	8.7	10	10/01/20 15:08	10/06/20 17:43	7421-93-4	
Endrin ketone	**<10.7**	ug/kg	35.6	10.7	10	10/01/20 15:08	10/06/20 17:43	53494-70-5	
Heptachlor	**<4.4**	ug/kg	14.5	4.4	10	10/01/20 15:08	10/06/20 17:43	76-44-8	
Heptachlor epoxide	**<3.0**	ug/kg	9.9	3.0	10	10/01/20 15:08	10/06/20 17:43	1024-57-3	
Methoxychlor	**<63.9**	ug/kg	213	63.9	10	10/01/20 15:08	10/06/20 17:43	72-43-5	
Toxaphene	**<171**	ug/kg	570	171	10	10/01/20 15:08	10/06/20 17:43	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	94	%.	30-150		10	10/01/20 15:08	10/06/20 17:43	877-09-8	D3
Decachlorobiphenyl (S)	111	%.	30-150		10	10/01/20 15:08	10/06/20 17:43	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<17.7**	ug/kg	58.2	17.7	1	09/28/20 14:42	09/29/20 15:39	12674-11-2	
PCB-1221 (Aroclor 1221)	**<17.7**	ug/kg	58.2	17.7	1	09/28/20 14:42	09/29/20 15:39	11104-28-2	
PCB-1232 (Aroclor 1232)	**<17.7**	ug/kg	58.2	17.7	1	09/28/20 14:42	09/29/20 15:39	11141-16-5	
PCB-1242 (Aroclor 1242)	**22.2J**	ug/kg	58.2	17.7	1	09/28/20 14:42	09/29/20 15:39	53469-21-9	
PCB-1248 (Aroclor 1248)	**<17.7**	ug/kg	58.2	17.7	1	09/28/20 14:42	09/29/20 15:39	12672-29-6	
PCB-1254 (Aroclor 1254)	**62.6**	ug/kg	58.2	17.7	1	09/28/20 14:42	09/29/20 15:39	11097-69-1	
PCB-1260 (Aroclor 1260)	**55.9J**	ug/kg	58.2	17.7	1	09/28/20 14:42	09/29/20 15:39	11096-82-5	
PCB, Total	**141**	ug/kg	58.2	17.7	1	09/28/20 14:42	09/29/20 15:39	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	69-115		1	09/28/20 14:42	09/29/20 15:39	877-09-8	
Decachlorobiphenyl (S)	83	%	62-104		1	09/28/20 14:42	09/29/20 15:39	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**325**	mg/kg	0.98	0.29	6.667	09/29/20 06:57	10/02/20 16:18	7440-38-2	
Barium	**160**	mg/kg	0.98	0.29	6.667	09/29/20 06:57	10/02/20 16:18	7440-39-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-3, 0.1-4.0' **Lab ID: 40215420006** Collected: 09/24/20 08:36 Received: 09/25/20 15:12 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
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**1.4**	mg/kg	0.74	0.11	6.667	09/29/20 06:57	10/02/20 16:18	7440-43-9	
Chromium	**32.4**	mg/kg	2.3	0.68	6.667	09/29/20 06:57	10/02/20 16:18	7440-47-3	
Copper	**366**	mg/kg	2.0	0.60	6.667	09/29/20 06:57	10/02/20 16:18	7440-50-8	
Lead	**304**	mg/kg	0.74	0.20	6.667	09/29/20 06:57	10/02/20 16:18	7439-92-1	
Selenium	**0.59J**	mg/kg	0.74	0.20	6.667	09/29/20 06:57	10/02/20 16:18	7782-49-2	D3
Silver	**0.47**	mg/kg	0.37	0.11	6.667	09/29/20 06:57	10/02/20 16:18	7440-22-4	
Zinc	**537**	mg/kg	26.0	7.8	6.667	09/29/20 06:57	10/02/20 16:18	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.15**	mg/kg	0.037	0.011	1	10/07/20 09:07	10/08/20 10:11	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**22.9**	ug/kg	19.4	2.5	1	10/02/20 08:09	10/02/20 15:08	83-32-9	
Acenaphthylene	**24.4**	ug/kg	19.4	2.5	1	10/02/20 08:09	10/02/20 15:08	208-96-8	
Anthracene	**58.6**	ug/kg	19.4	2.4	1	10/02/20 08:09	10/02/20 15:08	120-12-7	
Benzo(a)anthracene	**172**	ug/kg	19.4	2.5	1	10/02/20 08:09	10/02/20 15:08	56-55-3	
Benzo(a)pyrene	**225**	ug/kg	19.4	2.2	1	10/02/20 08:09	10/02/20 15:08	50-32-8	
Benzo(b)fluoranthene	**339**	ug/kg	19.4	2.7	1	10/02/20 08:09	10/02/20 15:08	205-99-2	
Benzo(g,h,i)perylene	**132**	ug/kg	19.4	3.4	1	10/02/20 08:09	10/02/20 15:08	191-24-2	
Benzo(k)fluoranthene	**126**	ug/kg	19.4	2.5	1	10/02/20 08:09	10/02/20 15:08	207-08-9	
Chrysene	**228**	ug/kg	19.4	3.7	1	10/02/20 08:09	10/02/20 15:08	218-01-9	
Dibenz(a,h)anthracene	**45.4**	ug/kg	19.4	2.7	1	10/02/20 08:09	10/02/20 15:08	53-70-3	
Fluoranthene	**318**	ug/kg	19.4	2.3	1	10/02/20 08:09	10/02/20 15:08	206-44-0	
Fluorene	**27.6**	ug/kg	19.4	2.3	1	10/02/20 08:09	10/02/20 15:08	86-73-7	
Indeno(1,2,3-cd)pyrene	**117**	ug/kg	19.4	4.1	1	10/02/20 08:09	10/02/20 15:08	193-39-5	
1-Methylnaphthalene	**35.7**	ug/kg	19.4	2.8	1	10/02/20 08:09	10/02/20 15:08	90-12-0	
2-Methylnaphthalene	**52.1**	ug/kg	19.4	2.8	1	10/02/20 08:09	10/02/20 15:08	91-57-6	
Naphthalene	**118**	ug/kg	19.4	1.9	1	10/02/20 08:09	10/02/20 15:08	91-20-3	
Phenanthrene	**220**	ug/kg	19.4	2.2	1	10/02/20 08:09	10/02/20 15:08	85-01-8	
Pyrene	**236**	ug/kg	19.4	2.9	1	10/02/20 08:09	10/02/20 15:08	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	61	%	17-100		1	10/02/20 08:09	10/02/20 15:08	321-60-8	
Terphenyl-d14 (S)	65	%	17-98		1	10/02/20 08:09	10/02/20 15:08	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-3, 0.1-4.0' **Lab ID: 40215420006** Collected: 09/24/20 08:36 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/02/20 11:15	10/05/20 21:27	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/02/20 11:15	10/05/20 21:27	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/02/20 11:15	10/05/20 21:27	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/02/20 11:15	10/05/20 21:27	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	142-28-9	W
1,4-Dichlorobenzene	**53.0J**	ug/kg	69.8	29.1	1	10/02/20 11:15	10/05/20 21:27	106-46-7	
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 21:27	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 21:27	106-43-4	W
Benzene	**152**	ug/kg	69.8	29.1	1	10/02/20 11:15	10/05/20 21:27	71-43-2	
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 21:27	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/02/20 11:15	10/05/20 21:27	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:27	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/02/20 11:15	10/05/20 21:27	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/02/20 11:15	10/05/20 21:27	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/02/20 11:15	10/05/20 21:27	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/02/20 11:15	10/05/20 21:27	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/02/20 11:15	10/05/20 21:27	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:27	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	108-20-3	W
Ethylbenzene	**30.1J**	ug/kg	69.8	29.1	1	10/02/20 11:15	10/05/20 21:27	100-41-4	
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/02/20 11:15	10/05/20 21:27	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/02/20 11:15	10/05/20 21:27	75-09-2	W
Naphthalene	**35.4J**	ug/kg	106	31.7	1	10/02/20 11:15	10/05/20 21:27	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/02/20 11:15	10/05/20 21:27	127-18-4	W
Toluene	**67.6J**	ug/kg	69.8	29.1	1	10/02/20 11:15	10/05/20 21:27	108-88-3	
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/02/20 11:15	10/05/20 21:27	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	75-01-4	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-3, 0.1-4.0' **Lab ID: 40215420006** Collected: 09/24/20 08:36 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/02/20 11:15	10/05/20 21:27	10061-01-5	W
m&p-Xylene	**77.2J**	ug/kg	140	58.2	1	10/02/20 11:15	10/05/20 21:27	179601-23-1	
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 21:27	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	103-65-1	W
o-Xylene	**42.1J**	ug/kg	69.8	29.1	1	10/02/20 11:15	10/05/20 21:27	95-47-6	
p-Isopropyltoluene	**38.0J**	ug/kg	83.7	29.1	1	10/02/20 11:15	10/05/20 21:27	99-87-6	
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:27	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 21:27	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/02/20 11:15	10/05/20 21:27	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/02/20 11:15	10/05/20 21:27	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	84	%	58-145		1	10/02/20 11:15	10/05/20 21:27	1868-53-7	
Toluene-d8 (S)	88	%	56-140		1	10/02/20 11:15	10/05/20 21:27	2037-26-5	
4-Bromofluorobenzene (S)	76	%	52-137		1	10/02/20 11:15	10/05/20 21:27	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**14.0**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-2, 0.2-4.5' UPPER **Lab ID: 40215420007** Collected: 09/24/20 10:40 Received: 09/25/20 15:12 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
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<5.6**	ug/kg	18.8	5.6	10	10/01/20 15:08	10/02/20 16:22	309-00-2	
alpha-BHC	**<2.4**	ug/kg	8.0	2.4	10	10/01/20 15:08	10/02/20 16:22	319-84-6	
beta-BHC	**<4.1**	ug/kg	13.5	4.1	10	10/01/20 15:08	10/02/20 16:22	319-85-7	
delta-BHC	**<3.1**	ug/kg	10.3	3.1	10	10/01/20 15:08	10/02/20 16:22	319-86-8	
gamma-BHC (Lindane)	**<2.2**	ug/kg	7.4	2.2	10	10/01/20 15:08	10/02/20 16:22	58-89-9	
Chlordane (Technical)	**<58.1**	ug/kg	194	58.1	10	10/01/20 15:08	10/02/20 16:22	57-74-9	
alpha-Chlordane	**<2.4**	ug/kg	8.1	2.4	10	10/01/20 15:08	10/02/20 16:22	5103-71-9	
gamma-Chlordane	**<5.7**	ug/kg	18.9	5.7	10	10/01/20 15:08	10/02/20 16:22	5103-74-2	
4,4'-DDD	**<4.1**	ug/kg	13.6	4.1	10	10/01/20 15:08	10/02/20 16:22	72-54-8	
4,4'-DDE	**<3.8**	ug/kg	12.8	3.8	10	10/01/20 15:08	10/02/20 16:22	72-55-9	
4,4'-DDT	**<8.6**	ug/kg	28.6	8.6	10	10/01/20 15:08	10/02/20 16:22	50-29-3	
Dieldrin	**4.9J**	ug/kg	12.2	3.7	10	10/01/20 15:08	10/02/20 16:22	60-57-1	
Endosulfan I	**<2.9**	ug/kg	9.8	2.9	10	10/01/20 15:08	10/02/20 16:22	959-98-8	
Endosulfan II	**<5.8**	ug/kg	19.5	5.8	10	10/01/20 15:08	10/02/20 16:22	33213-65-9	
Endosulfan sulfate	**<7.1**	ug/kg	23.5	7.1	10	10/01/20 15:08	10/02/20 16:22	1031-07-8	
Endrin	**<4.0**	ug/kg	13.4	4.0	10	10/01/20 15:08	10/02/20 16:22	72-20-8	
Endrin aldehyde	**<7.9**	ug/kg	26.5	7.9	10	10/01/20 15:08	10/02/20 16:22	7421-93-4	
Endrin ketone	**<9.8**	ug/kg	32.5	9.8	10	10/01/20 15:08	10/02/20 16:22	53494-70-5	
Heptachlor	**<4.0**	ug/kg	13.2	4.0	10	10/01/20 15:08	10/02/20 16:22	76-44-8	
Heptachlor epoxide	**<2.7**	ug/kg	9.1	2.7	10	10/01/20 15:08	10/02/20 16:22	1024-57-3	
Methoxychlor	**<58.3**	ug/kg	194	58.3	10	10/01/20 15:08	10/02/20 16:22	72-43-5	
Toxaphene	**<156**	ug/kg	520	156	10	10/01/20 15:08	10/02/20 16:22	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	113	%.	30-150		10	10/01/20 15:08	10/02/20 16:22	877-09-8	D3
Decachlorobiphenyl (S)	124	%.	30-150		10	10/01/20 15:08	10/02/20 16:22	2051-24-3	
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	09/28/20 14:42	09/29/20 16:01	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 16:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 16:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 16:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 16:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**22.7J**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 16:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 16:01	11096-82-5	
PCB, Total	**22.7J**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 16:01	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	69-115		1	09/28/20 14:42	09/29/20 16:01	877-09-8	
Decachlorobiphenyl (S)	86	%	62-104		1	09/28/20 14:42	09/29/20 16:01	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**3.4**	mg/kg	0.89	0.27	6.667	09/29/20 06:57	10/02/20 16:25	7440-38-2	
Barium	**14.2**	mg/kg	0.88	0.26	6.667	09/29/20 06:57	10/02/20 16:25	7440-39-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-2, 0.2-4.5' UPPER **Lab ID: 40215420007** Collected: 09/24/20 10:40 Received: 09/25/20 15:12 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
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**<0.098**	mg/kg	0.67	0.098	6.667	09/29/20 06:57	10/02/20 16:25	7440-43-9	D3
Chromium	**7.9**	mg/kg	2.0	0.61	6.667	09/29/20 06:57	10/02/20 16:25	7440-47-3	
Copper	**17.0**	mg/kg	1.8	0.54	6.667	09/29/20 06:57	10/02/20 16:25	7440-50-8	
Lead	**26.9**	mg/kg	0.67	0.18	6.667	09/29/20 06:57	10/02/20 16:25	7439-92-1	
Selenium	**0.21J**	mg/kg	0.67	0.18	6.667	09/29/20 06:57	10/02/20 16:25	7782-49-2	D3
Silver	**<0.096**	mg/kg	0.34	0.096	6.667	09/29/20 06:57	10/02/20 16:25	7440-22-4	D3
Zinc	**75.4**	mg/kg	23.4	7.0	6.667	09/29/20 06:57	10/02/20 16:25	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**<0.011**	mg/kg	0.037	0.011	1	10/07/20 09:07	10/08/20 10:14	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**3.4J**	ug/kg	17.8	2.3	1	10/02/20 08:09	10/05/20 20:04	83-32-9	
Acenaphthylene	**9.4J**	ug/kg	17.8	2.2	1	10/02/20 08:09	10/05/20 20:04	208-96-8	
Anthracene	**15.6J**	ug/kg	17.8	2.2	1	10/02/20 08:09	10/05/20 20:04	120-12-7	
Benzo(a)anthracene	**64.1**	ug/kg	17.8	2.3	1	10/02/20 08:09	10/05/20 20:04	56-55-3	
Benzo(a)pyrene	**99.1**	ug/kg	17.8	2.0	1	10/02/20 08:09	10/05/20 20:04	50-32-8	
Benzo(b)fluoranthene	**135**	ug/kg	17.8	2.5	1	10/02/20 08:09	10/05/20 20:04	205-99-2	
Benzo(g,h,i)perylene	**88.7**	ug/kg	17.8	3.1	1	10/02/20 08:09	10/05/20 20:04	191-24-2	
Benzo(k)fluoranthene	**59.0**	ug/kg	17.8	2.3	1	10/02/20 08:09	10/05/20 20:04	207-08-9	
Chrysene	**89.2**	ug/kg	17.8	3.4	1	10/02/20 08:09	10/05/20 20:04	218-01-9	
Dibenz(a,h)anthracene	**18.5**	ug/kg	17.8	2.5	1	10/02/20 08:09	10/05/20 20:04	53-70-3	
Fluoranthene	**131**	ug/kg	17.8	2.1	1	10/02/20 08:09	10/05/20 20:04	206-44-0	
Fluorene	**4.9J**	ug/kg	17.8	2.1	1	10/02/20 08:09	10/05/20 20:04	86-73-7	
Indeno(1,2,3-cd)pyrene	**67.9**	ug/kg	17.8	3.7	1	10/02/20 08:09	10/05/20 20:04	193-39-5	
1-Methylnaphthalene	**16.0J**	ug/kg	17.8	2.6	1	10/02/20 08:09	10/05/20 20:04	90-12-0	
2-Methylnaphthalene	**23.0**	ug/kg	17.8	2.6	1	10/02/20 08:09	10/05/20 20:04	91-57-6	
Naphthalene	**19.3**	ug/kg	17.8	1.7	1	10/02/20 08:09	10/05/20 20:04	91-20-3	
Phenanthrene	**46.6**	ug/kg	17.8	2.0	1	10/02/20 08:09	10/05/20 20:04	85-01-8	
Pyrene	**100**	ug/kg	17.8	2.6	1	10/02/20 08:09	10/05/20 20:04	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	17-100		1	10/02/20 08:09	10/05/20 20:04	321-60-8	
Terphenyl-d14 (S)	68	%	17-98		1	10/02/20 08:09	10/05/20 20:04	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	75-35-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-2, 0.2-4.5' UPPER **Lab ID: 40215420007** Collected: 09/24/20 10:40 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/02/20 11:15	10/05/20 21:44	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/02/20 11:15	10/05/20 21:44	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/02/20 11:15	10/05/20 21:44	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/02/20 11:15	10/05/20 21:44	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 21:44	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 21:44	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 21:44	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/02/20 11:15	10/05/20 21:44	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:44	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/02/20 11:15	10/05/20 21:44	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/02/20 11:15	10/05/20 21:44	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/02/20 11:15	10/05/20 21:44	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/02/20 11:15	10/05/20 21:44	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/02/20 11:15	10/05/20 21:44	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:44	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/02/20 11:15	10/05/20 21:44	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/02/20 11:15	10/05/20 21:44	75-09-2	W
Naphthalene	**<27.3**	ug/kg	91.0	27.3	1	10/02/20 11:15	10/05/20 21:44	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/02/20 11:15	10/05/20 21:44	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/02/20 11:15	10/05/20 21:44	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	75-01-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-2, 0.2-4.5' UPPER **Lab ID: 40215420007** Collected: 09/24/20 10:40 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/02/20 11:15	10/05/20 21:44	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/02/20 11:15	10/05/20 21:44	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 21:44	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:44	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:44	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 21:44	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/02/20 11:15	10/05/20 21:44	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/02/20 11:15	10/05/20 21:44	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	91	%	58-145		1	10/02/20 11:15	10/05/20 21:44	1868-53-7	
Toluene-d8 (S)	96	%	56-140		1	10/02/20 11:15	10/05/20 21:44	2037-26-5	
4-Bromofluorobenzene (S)	81	%	52-137		1	10/02/20 11:15	10/05/20 21:44	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**6.1**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-2, 0.2-4.5' LOWER **Lab ID: 40215420008** Collected: 09/24/20 10:40 Received: 09/25/20 15:12 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
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<29.4**	ug/kg	97.8	29.4	50	10/01/20 15:08	10/02/20 20:04	309-00-2	
alpha-BHC	**<12.6**	ug/kg	41.9	12.6	50	10/01/20 15:08	10/02/20 20:04	319-84-6	
beta-BHC	**<21.1**	ug/kg	70.2	21.1	50	10/01/20 15:08	10/02/20 20:04	319-85-7	
delta-BHC	**<16.0**	ug/kg	53.4	16.0	50	10/01/20 15:08	10/02/20 20:04	319-86-8	
gamma-BHC (Lindane)	**<11.6**	ug/kg	38.8	11.6	50	10/01/20 15:08	10/02/20 20:04	58-89-9	
Chlordane (Technical)	**<303**	ug/kg	1010	303	50	10/01/20 15:08	10/02/20 20:04	57-74-9	
alpha-Chlordane	**<12.7**	ug/kg	42.2	12.7	50	10/01/20 15:08	10/02/20 20:04	5103-71-9	
gamma-Chlordane	**<29.5**	ug/kg	98.2	29.5	50	10/01/20 15:08	10/02/20 20:04	5103-74-2	
4,4'-DDD	**<21.3**	ug/kg	70.8	21.3	50	10/01/20 15:08	10/02/20 20:04	72-54-8	
4,4'-DDE	**<19.9**	ug/kg	66.4	19.9	50	10/01/20 15:08	10/02/20 20:04	72-55-9	
4,4'-DDT	**<44.8**	ug/kg	149	44.8	50	10/01/20 15:08	10/02/20 20:04	50-29-3	
Dieldrin	**<19.1**	ug/kg	63.6	19.1	50	10/01/20 15:08	10/02/20 20:04	60-57-1	
Endosulfan I	**<15.3**	ug/kg	51.0	15.3	50	10/01/20 15:08	10/02/20 20:04	959-98-8	
Endosulfan II	**<30.4**	ug/kg	101	30.4	50	10/01/20 15:08	10/02/20 20:04	33213-65-9	
Endosulfan sulfate	**<36.7**	ug/kg	122	36.7	50	10/01/20 15:08	10/02/20 20:04	1031-07-8	
Endrin	**<20.9**	ug/kg	69.7	20.9	50	10/01/20 15:08	10/02/20 20:04	72-20-8	
Endrin aldehyde	**<41.4**	ug/kg	138	41.4	50	10/01/20 15:08	10/02/20 20:04	7421-93-4	
Endrin ketone	**<50.8**	ug/kg	169	50.8	50	10/01/20 15:08	10/02/20 20:04	53494-70-5	
Heptachlor	**<20.7**	ug/kg	68.8	20.7	50	10/01/20 15:08	10/02/20 20:04	76-44-8	
Heptachlor epoxide	**<14.2**	ug/kg	47.2	14.2	50	10/01/20 15:08	10/02/20 20:04	1024-57-3	
Methoxychlor	**<303**	ug/kg	1010	303	50	10/01/20 15:08	10/02/20 20:04	72-43-5	
Toxaphene	**<813**	ug/kg	2710	813	50	10/01/20 15:08	10/02/20 20:04	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	132	%.	30-150		50	10/01/20 15:08	10/02/20 20:04	877-09-8	D3,v1
Decachlorobiphenyl (S)	154	%.	30-150		50	10/01/20 15:08	10/02/20 20:04	2051-24-3	S4
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.7**	ug/kg	55.0	16.7	1	09/28/20 14:42	09/29/20 19:17	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.7**	ug/kg	55.0	16.7	1	09/28/20 14:42	09/29/20 19:17	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.7**	ug/kg	55.0	16.7	1	09/28/20 14:42	09/29/20 19:17	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.7**	ug/kg	55.0	16.7	1	09/28/20 14:42	09/29/20 19:17	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.7**	ug/kg	55.0	16.7	1	09/28/20 14:42	09/29/20 19:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**40.1J**	ug/kg	55.0	16.7	1	09/28/20 14:42	09/29/20 19:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**22.0J**	ug/kg	55.0	16.7	1	09/28/20 14:42	09/29/20 19:17	11096-82-5	
PCB, Total	**62.1**	ug/kg	55.0	16.7	1	09/28/20 14:42	09/29/20 19:17	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	69-115		1	09/28/20 14:42	09/29/20 19:17	877-09-8	
Decachlorobiphenyl (S)	78	%	62-104		1	09/28/20 14:42	09/29/20 19:17	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**6.4**	mg/kg	0.95	0.28	6.667	09/29/20 06:57	10/02/20 16:32	7440-38-2	
Barium	**255**	mg/kg	0.94	0.28	6.667	09/29/20 06:57	10/02/20 16:32	7440-39-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-2, 0.2-4.5' LOWER **Lab ID: 40215420008** Collected: 09/24/20 10:40 Received: 09/25/20 15:12 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
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**0.42J**	mg/kg	0.72	0.10	6.667	09/29/20 06:57	10/02/20 16:32	7440-43-9	D3
Chromium	**10.0**	mg/kg	2.2	0.65	6.667	09/29/20 06:57	10/02/20 16:32	7440-47-3	
Copper	**40.3**	mg/kg	1.9	0.58	6.667	09/29/20 06:57	10/02/20 16:32	7440-50-8	
Lead	**99.3**	mg/kg	0.72	0.19	6.667	09/29/20 06:57	10/02/20 16:32	7439-92-1	
Selenium	**0.78**	mg/kg	0.72	0.20	6.667	09/29/20 06:57	10/02/20 16:32	7782-49-2	
Silver	**0.24J**	mg/kg	0.36	0.10	6.667	09/29/20 06:57	10/02/20 16:32	7440-22-4	D3
Zinc	**82.1**	mg/kg	25.0	7.5	6.667	09/29/20 06:57	10/02/20 16:32	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.069**	mg/kg	0.038	0.011	1	10/07/20 09:07	10/08/20 10:16	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**104J**	ug/kg	184	23.8	10	10/02/20 08:09	10/05/20 18:04	83-32-9	
Acenaphthylene	**145J**	ug/kg	184	23.2	10	10/02/20 08:09	10/05/20 18:04	208-96-8	
Anthracene	**356**	ug/kg	184	22.8	10	10/02/20 08:09	10/05/20 18:04	120-12-7	
Benzo(a)anthracene	**730**	ug/kg	184	23.7	10	10/02/20 08:09	10/05/20 18:04	56-55-3	
Benzo(a)pyrene	**909**	ug/kg	184	20.9	10	10/02/20 08:09	10/05/20 18:04	50-32-8	
Benzo(b)fluoranthene	**1090**	ug/kg	184	25.5	10	10/02/20 08:09	10/05/20 18:04	205-99-2	
Benzo(g,h,i)perylene	**673**	ug/kg	184	32.2	10	10/02/20 08:09	10/05/20 18:04	191-24-2	
Benzo(k)fluoranthene	**478**	ug/kg	184	23.5	10	10/02/20 08:09	10/05/20 18:04	207-08-9	
Chrysene	**878**	ug/kg	184	34.6	10	10/02/20 08:09	10/05/20 18:04	218-01-9	
Dibenz(a,h)anthracene	**172J**	ug/kg	184	25.4	10	10/02/20 08:09	10/05/20 18:04	53-70-3	
Fluoranthene	**1540**	ug/kg	184	21.7	10	10/02/20 08:09	10/05/20 18:04	206-44-0	
Fluorene	**182J**	ug/kg	184	22.0	10	10/02/20 08:09	10/05/20 18:04	86-73-7	
Indeno(1,2,3-cd)pyrene	**501**	ug/kg	184	38.3	10	10/02/20 08:09	10/05/20 18:04	193-39-5	
1-Methylnaphthalene	**163J**	ug/kg	184	26.8	10	10/02/20 08:09	10/05/20 18:04	90-12-0	
2-Methylnaphthalene	**151J**	ug/kg	184	26.9	10	10/02/20 08:09	10/05/20 18:04	91-57-6	
Naphthalene	**182J**	ug/kg	184	17.9	10	10/02/20 08:09	10/05/20 18:04	91-20-3	
Phenanthrene	**1020**	ug/kg	184	21.0	10	10/02/20 08:09	10/05/20 18:04	85-01-8	
Pyrene	**1190**	ug/kg	184	27.0	10	10/02/20 08:09	10/05/20 18:04	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%	17-100		10	10/02/20 08:09	10/05/20 18:04	321-60-8	
Terphenyl-d14 (S)	57	%	17-98		10	10/02/20 08:09	10/05/20 18:04	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	75-35-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-2, 0.2-4.5' LOWER **Lab ID: 40215420008** Collected: 09/24/20 10:40 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/02/20 11:15	10/05/20 22:01	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/02/20 11:15	10/05/20 22:01	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/02/20 11:15	10/05/20 22:01	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/02/20 11:15	10/05/20 22:01	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 22:01	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 22:01	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 22:01	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/02/20 11:15	10/05/20 22:01	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:01	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/02/20 11:15	10/05/20 22:01	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/02/20 11:15	10/05/20 22:01	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/02/20 11:15	10/05/20 22:01	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/02/20 11:15	10/05/20 22:01	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/02/20 11:15	10/05/20 22:01	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:01	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/02/20 11:15	10/05/20 22:01	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/02/20 11:15	10/05/20 22:01	75-09-2	W
Naphthalene	**69.0J**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 22:01	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/02/20 11:15	10/05/20 22:01	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/02/20 11:15	10/05/20 22:01	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	75-01-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-2, 0.2-4.5' LOWER **Lab ID: 40215420008** Collected: 09/24/20 10:40 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/02/20 11:15	10/05/20 22:01	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/02/20 11:15	10/05/20 22:01	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 22:01	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:01	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:01	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 22:01	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/02/20 11:15	10/05/20 22:01	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/02/20 11:15	10/05/20 22:01	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	97	%	58-145		1	10/02/20 11:15	10/05/20 22:01	1868-53-7	
Toluene-d8 (S)	101	%	56-140		1	10/02/20 11:15	10/05/20 22:01	2037-26-5	
4-Bromofluorobenzene (S)	86	%	52-137		1	10/02/20 11:15	10/05/20 22:01	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**9.1**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-8, 0.3-6.5' **Lab ID: 40215420009** Collected: 09/24/20 10:55 Received: 09/25/20 15:12 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
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<29.2**	ug/kg	97.1	29.2	50	10/01/20 15:08	10/02/20 20:23	309-00-2	
alpha-BHC	**<12.5**	ug/kg	41.6	12.5	50	10/01/20 15:08	10/02/20 20:23	319-84-6	
beta-BHC	**<20.9**	ug/kg	69.7	20.9	50	10/01/20 15:08	10/02/20 20:23	319-85-7	
delta-BHC	**<15.9**	ug/kg	53.0	15.9	50	10/01/20 15:08	10/02/20 20:23	319-86-8	
gamma-BHC (Lindane)	**<11.6**	ug/kg	38.5	11.6	50	10/01/20 15:08	10/02/20 20:23	58-89-9	
Chlordane (Technical)	**<300**	ug/kg	1000	300	50	10/01/20 15:08	10/02/20 20:23	57-74-9	
alpha-Chlordane	**<12.6**	ug/kg	41.9	12.6	50	10/01/20 15:08	10/02/20 20:23	5103-71-9	
gamma-Chlordane	**<29.3**	ug/kg	97.5	29.3	50	10/01/20 15:08	10/02/20 20:23	5103-74-2	
4,4'-DDD	**<21.1**	ug/kg	70.2	21.1	50	10/01/20 15:08	10/02/20 20:23	72-54-8	
4,4'-DDE	**<19.8**	ug/kg	65.9	19.8	50	10/01/20 15:08	10/02/20 20:23	72-55-9	
4,4'-DDT	**<44.4**	ug/kg	148	44.4	50	10/01/20 15:08	10/02/20 20:23	50-29-3	
Dieldrin	**<19.0**	ug/kg	63.2	19.0	50	10/01/20 15:08	10/02/20 20:23	60-57-1	
Endosulfan I	**<15.2**	ug/kg	50.6	15.2	50	10/01/20 15:08	10/02/20 20:23	959-98-8	
Endosulfan II	**<30.2**	ug/kg	101	30.2	50	10/01/20 15:08	10/02/20 20:23	33213-65-9	
Endosulfan sulfate	**<36.5**	ug/kg	121	36.5	50	10/01/20 15:08	10/02/20 20:23	1031-07-8	
Endrin	**<20.8**	ug/kg	69.1	20.8	50	10/01/20 15:08	10/02/20 20:23	72-20-8	
Endrin aldehyde	**<41.0**	ug/kg	137	41.0	50	10/01/20 15:08	10/02/20 20:23	7421-93-4	
Endrin ketone	**<50.4**	ug/kg	168	50.4	50	10/01/20 15:08	10/02/20 20:23	53494-70-5	
Heptachlor	**<20.5**	ug/kg	68.2	20.5	50	10/01/20 15:08	10/02/20 20:23	76-44-8	
Heptachlor epoxide	**<14.1**	ug/kg	46.8	14.1	50	10/01/20 15:08	10/02/20 20:23	1024-57-3	
Methoxychlor	**<301**	ug/kg	1000	301	50	10/01/20 15:08	10/02/20 20:23	72-43-5	
Toxaphene	**<807**	ug/kg	2690	807	50	10/01/20 15:08	10/02/20 20:23	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	139	%.	30-150		50	10/01/20 15:08	10/02/20 20:23	877-09-8	D3,v1
Decachlorobiphenyl (S)	150	%.	30-150		50	10/01/20 15:08	10/02/20 20:23	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.7**	ug/kg	54.7	16.7	1	09/28/20 14:42	09/29/20 17:06	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.7**	ug/kg	54.7	16.7	1	09/28/20 14:42	09/29/20 17:06	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.7**	ug/kg	54.7	16.7	1	09/28/20 14:42	09/29/20 17:06	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.7**	ug/kg	54.7	16.7	1	09/28/20 14:42	09/29/20 17:06	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.7**	ug/kg	54.7	16.7	1	09/28/20 14:42	09/29/20 17:06	12672-29-6	
PCB-1254 (Aroclor 1254)	**47.4J**	ug/kg	54.7	16.7	1	09/28/20 14:42	09/29/20 17:06	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.7**	ug/kg	54.7	16.7	1	09/28/20 14:42	09/29/20 17:06	11096-82-5	
PCB, Total	**47.4J**	ug/kg	54.7	16.7	1	09/28/20 14:42	09/29/20 17:06	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	69-115		1	09/28/20 14:42	09/29/20 17:06	877-09-8	
Decachlorobiphenyl (S)	84	%	62-104		1	09/28/20 14:42	09/29/20 17:06	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**2.8**	mg/kg	0.94	0.28	6.667	09/29/20 06:57	10/02/20 16:39	7440-38-2	
Barium	**26.4**	mg/kg	0.93	0.28	6.667	09/29/20 06:57	10/02/20 16:39	7440-39-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-8, 0.3-6.5' **Lab ID: 40215420009** Collected: 09/24/20 10:55 Received: 09/25/20 15:12 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
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**0.14J**	mg/kg	0.71	0.10	6.667	09/29/20 06:57	10/02/20 16:39	7440-43-9	D3
Chromium	**11.5**	mg/kg	2.2	0.65	6.667	09/29/20 06:57	10/02/20 16:39	7440-47-3	
Copper	**20.5**	mg/kg	1.9	0.57	6.667	09/29/20 06:57	10/02/20 16:39	7440-50-8	
Lead	**33.5**	mg/kg	0.71	0.19	6.667	09/29/20 06:57	10/02/20 16:39	7439-92-1	
Selenium	**0.36J**	mg/kg	0.71	0.19	6.667	09/29/20 06:57	10/02/20 16:39	7782-49-2	D3
Silver	**<0.10**	mg/kg	0.35	0.10	6.667	09/29/20 06:57	10/02/20 16:39	7440-22-4	D3
Zinc	**119**	mg/kg	24.7	7.4	6.667	09/29/20 06:57	10/02/20 16:39	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.044**	mg/kg	0.036	0.010	1	10/07/20 09:07	10/08/20 10:18	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**9.3J**	ug/kg	36.5	4.7	2	10/02/20 08:09	10/05/20 19:13	83-32-9	
Acenaphthylene	**105**	ug/kg	36.5	4.6	2	10/02/20 08:09	10/05/20 19:13	208-96-8	
Anthracene	**82.9**	ug/kg	36.5	4.5	2	10/02/20 08:09	10/05/20 19:13	120-12-7	
Benzo(a)anthracene	**296**	ug/kg	36.5	4.7	2	10/02/20 08:09	10/05/20 19:13	56-55-3	
Benzo(a)pyrene	**434**	ug/kg	36.5	4.1	2	10/02/20 08:09	10/05/20 19:13	50-32-8	
Benzo(b)fluoranthene	**525**	ug/kg	36.5	5.1	2	10/02/20 08:09	10/05/20 19:13	205-99-2	
Benzo(g,h,i)perylene	**289**	ug/kg	36.5	6.4	2	10/02/20 08:09	10/05/20 19:13	191-24-2	
Benzo(k)fluoranthene	**203**	ug/kg	36.5	4.7	2	10/02/20 08:09	10/05/20 19:13	207-08-9	
Chrysene	**330**	ug/kg	36.5	6.9	2	10/02/20 08:09	10/05/20 19:13	218-01-9	
Dibenz(a,h)anthracene	**70.6**	ug/kg	36.5	5.0	2	10/02/20 08:09	10/05/20 19:13	53-70-3	
Fluoranthene	**495**	ug/kg	36.5	4.3	2	10/02/20 08:09	10/05/20 19:13	206-44-0	
Fluorene	**16.3J**	ug/kg	36.5	4.4	2	10/02/20 08:09	10/05/20 19:13	86-73-7	
Indeno(1,2,3-cd)pyrene	**248**	ug/kg	36.5	7.6	2	10/02/20 08:09	10/05/20 19:13	193-39-5	
1-Methylnaphthalene	**36.9**	ug/kg	36.5	5.3	2	10/02/20 08:09	10/05/20 19:13	90-12-0	
2-Methylnaphthalene	**54.0**	ug/kg	36.5	5.3	2	10/02/20 08:09	10/05/20 19:13	91-57-6	
Naphthalene	**69.8**	ug/kg	36.5	3.6	2	10/02/20 08:09	10/05/20 19:13	91-20-3	
Phenanthrene	**167**	ug/kg	36.5	4.2	2	10/02/20 08:09	10/05/20 19:13	85-01-8	
Pyrene	**406**	ug/kg	36.5	5.4	2	10/02/20 08:09	10/05/20 19:13	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%	17-100		2	10/02/20 08:09	10/05/20 19:13	321-60-8	
Terphenyl-d14 (S)	50	%	17-98		2	10/02/20 08:09	10/05/20 19:13	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-8, 0.3-6.5' **Lab ID: 40215420009** Collected: 09/24/20 10:55 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/02/20 11:15	10/05/20 22:18	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/02/20 11:15	10/05/20 22:18	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/02/20 11:15	10/05/20 22:18	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/02/20 11:15	10/05/20 22:18	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 22:18	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 22:18	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 22:18	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/02/20 11:15	10/05/20 22:18	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:18	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/02/20 11:15	10/05/20 22:18	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/02/20 11:15	10/05/20 22:18	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/02/20 11:15	10/05/20 22:18	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/02/20 11:15	10/05/20 22:18	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/02/20 11:15	10/05/20 22:18	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:18	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/02/20 11:15	10/05/20 22:18	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/02/20 11:15	10/05/20 22:18	75-09-2	W
Naphthalene	**31.4J**	ug/kg	99.5	29.8	1	10/02/20 11:15	10/05/20 22:18	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/02/20 11:15	10/05/20 22:18	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/02/20 11:15	10/05/20 22:18	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	75-01-4	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-8, 0.3-6.5' **Lab ID: 40215420009** Collected: 09/24/20 10:55 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/02/20 11:15	10/05/20 22:18	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/02/20 11:15	10/05/20 22:18	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 22:18	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	95-47-6	W
p-Isopropyltoluene	**84.6**	ug/kg	78.7	27.3	1	10/02/20 11:15	10/05/20 22:18	99-87-6	
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:18	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 22:18	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/02/20 11:15	10/05/20 22:18	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/02/20 11:15	10/05/20 22:18	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	62	%	58-145		1	10/02/20 11:15	10/05/20 22:18	1868-53-7	
Toluene-d8 (S)	91	%	56-140		1	10/02/20 11:15	10/05/20 22:18	2037-26-5	
4-Bromofluorobenzene (S)	78	%	52-137		1	10/02/20 11:15	10/05/20 22:18	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**8.6**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-7, 0.3-5.0' **Lab ID: 40215420010** Collected: 09/24/20 11:08 Received: 09/25/20 15:12 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
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550 Pace Analytical Services - Minneapolis								
Aldrin	**<11.3**	ug/kg	37.7	11.3	20	10/01/20 15:08	10/02/20 18:13	309-00-2	
alpha-BHC	**<4.8**	ug/kg	16.1	4.8	20	10/01/20 15:08	10/02/20 18:13	319-84-6	
beta-BHC	**<8.1**	ug/kg	27.1	8.1	20	10/01/20 15:08	10/02/20 18:13	319-85-7	
delta-BHC	**<6.2**	ug/kg	20.6	6.2	20	10/01/20 15:08	10/02/20 18:13	319-86-8	
gamma-BHC (Lindane)	**<4.5**	ug/kg	14.9	4.5	20	10/01/20 15:08	10/02/20 18:13	58-89-9	
Chlordane (Technical)	**<117**	ug/kg	388	117	20	10/01/20 15:08	10/02/20 18:13	57-74-9	
alpha-Chlordane	**<4.9**	ug/kg	16.3	4.9	20	10/01/20 15:08	10/02/20 18:13	5103-71-9	
gamma-Chlordane	**<11.4**	ug/kg	37.9	11.4	20	10/01/20 15:08	10/02/20 18:13	5103-74-2	
4,4'-DDD	**<8.2**	ug/kg	27.3	8.2	20	10/01/20 15:08	10/02/20 18:13	72-54-8	
4,4'-DDE	**<7.7**	ug/kg	25.6	7.7	20	10/01/20 15:08	10/02/20 18:13	72-55-9	
4,4'-DDT	**<17.3**	ug/kg	57.5	17.3	20	10/01/20 15:08	10/02/20 18:13	50-29-3	
Dieldrin	**<7.4**	ug/kg	24.5	7.4	20	10/01/20 15:08	10/02/20 18:13	60-57-1	
Endosulfan I	**<5.9**	ug/kg	19.7	5.9	20	10/01/20 15:08	10/02/20 18:13	959-98-8	
Endosulfan II	**<11.7**	ug/kg	39.1	11.7	20	10/01/20 15:08	10/02/20 18:13	33213-65-9	
Endosulfan sulfate	**<14.2**	ug/kg	47.2	14.2	20	10/01/20 15:08	10/02/20 18:13	1031-07-8	
Endrin	**<8.1**	ug/kg	26.9	8.1	20	10/01/20 15:08	10/02/20 18:13	72-20-8	
Endrin aldehyde	**<15.9**	ug/kg	53.1	15.9	20	10/01/20 15:08	10/02/20 18:13	7421-93-4	
Endrin ketone	**<19.6**	ug/kg	65.2	19.6	20	10/01/20 15:08	10/02/20 18:13	53494-70-5	
Heptachlor	**<8.0**	ug/kg	26.5	8.0	20	10/01/20 15:08	10/02/20 18:13	76-44-8	
Heptachlor epoxide	**<5.5**	ug/kg	18.2	5.5	20	10/01/20 15:08	10/02/20 18:13	1024-57-3	
Methoxychlor	**<117**	ug/kg	389	117	20	10/01/20 15:08	10/02/20 18:13	72-43-5	
Toxaphene	**<313**	ug/kg	1040	313	20	10/01/20 15:08	10/02/20 18:13	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	119	%.	30-150		20	10/01/20 15:08	10/02/20 18:13	877-09-8	D3,v1
Decachlorobiphenyl (S)	145	%.	30-150		20	10/01/20 15:08	10/02/20 18:13	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.4**	ug/kg	53.7	16.4	1	09/28/20 14:42	09/29/20 19:39	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.4**	ug/kg	53.7	16.4	1	09/28/20 14:42	09/29/20 19:39	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.4**	ug/kg	53.7	16.4	1	09/28/20 14:42	09/29/20 19:39	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.4**	ug/kg	53.7	16.4	1	09/28/20 14:42	09/29/20 19:39	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.4**	ug/kg	53.7	16.4	1	09/28/20 14:42	09/29/20 19:39	12672-29-6	
PCB-1254 (Aroclor 1254)	**27.5J**	ug/kg	53.7	16.4	1	09/28/20 14:42	09/29/20 19:39	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.4**	ug/kg	53.7	16.4	1	09/28/20 14:42	09/29/20 19:39	11096-82-5	
PCB, Total	**27.5J**	ug/kg	53.7	16.4	1	09/28/20 14:42	09/29/20 19:39	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	69-115		1	09/28/20 14:42	09/29/20 19:39	877-09-8	
Decachlorobiphenyl (S)	84	%	62-104		1	09/28/20 14:42	09/29/20 19:39	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Arsenic	**3.1**	mg/kg	0.92	0.28	6.667	09/29/20 06:57	10/02/20 16:46	7440-38-2	
Barium	**16.2**	mg/kg	0.92	0.28	6.667	09/29/20 06:57	10/02/20 16:46	7440-39-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-7, 0.3-5.0' **Lab ID: 40215420010** Collected: 09/24/20 11:08 Received: 09/25/20 15:12 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
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**0.11J**	mg/kg	0.70	0.10	6.667	09/29/20 06:57	10/02/20 16:46	7440-43-9	D3
Chromium	**9.2**	mg/kg	2.1	0.64	6.667	09/29/20 06:57	10/02/20 16:46	7440-47-3	
Copper	**20.8**	mg/kg	1.9	0.56	6.667	09/29/20 06:57	10/02/20 16:46	7440-50-8	
Lead	**25.1**	mg/kg	0.70	0.19	6.667	09/29/20 06:57	10/02/20 16:46	7439-92-1	
Selenium	**0.34J**	mg/kg	0.70	0.19	6.667	09/29/20 06:57	10/02/20 16:46	7782-49-2	D3
Silver	**<0.10**	mg/kg	0.35	0.10	6.667	09/29/20 06:57	10/02/20 16:46	7440-22-4	D3
Zinc	**66.8**	mg/kg	24.4	7.3	6.667	09/29/20 06:57	10/02/20 16:46	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.017J**	mg/kg	0.034	0.0098	1	10/07/20 09:07	10/08/20 10:20	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**<2.3**	ug/kg	17.9	2.3	1	10/02/20 08:09	10/05/20 20:22	83-32-9	
Acenaphthylene	**7.3J**	ug/kg	17.9	2.3	1	10/02/20 08:09	10/05/20 20:22	208-96-8	
Anthracene	**10.6J**	ug/kg	17.9	2.2	1	10/02/20 08:09	10/05/20 20:22	120-12-7	
Benzo(a)anthracene	**33.6**	ug/kg	17.9	2.3	1	10/02/20 08:09	10/05/20 20:22	56-55-3	
Benzo(a)pyrene	**58.9**	ug/kg	17.9	2.0	1	10/02/20 08:09	10/05/20 20:22	50-32-8	
Benzo(b)fluoranthene	**76.9**	ug/kg	17.9	2.5	1	10/02/20 08:09	10/05/20 20:22	205-99-2	
Benzo(g,h,i)perylene	**53.1**	ug/kg	17.9	3.1	1	10/02/20 08:09	10/05/20 20:22	191-24-2	
Benzo(k)fluoranthene	**33.2**	ug/kg	17.9	2.3	1	10/02/20 08:09	10/05/20 20:22	207-08-9	
Chrysene	**51.5**	ug/kg	17.9	3.4	1	10/02/20 08:09	10/05/20 20:22	218-01-9	
Dibenz(a,h)anthracene	**10.6J**	ug/kg	17.9	2.5	1	10/02/20 08:09	10/05/20 20:22	53-70-3	
Fluoranthene	**62.3**	ug/kg	17.9	2.1	1	10/02/20 08:09	10/05/20 20:22	206-44-0	
Fluorene	**3.7J**	ug/kg	17.9	2.1	1	10/02/20 08:09	10/05/20 20:22	86-73-7	
Indeno(1,2,3-cd)pyrene	**38.2**	ug/kg	17.9	3.7	1	10/02/20 08:09	10/05/20 20:22	193-39-5	
1-Methylnaphthalene	**20.2**	ug/kg	17.9	2.6	1	10/02/20 08:09	10/05/20 20:22	90-12-0	
2-Methylnaphthalene	**30.1**	ug/kg	17.9	2.6	1	10/02/20 08:09	10/05/20 20:22	91-57-6	
Naphthalene	**23.2**	ug/kg	17.9	1.7	1	10/02/20 08:09	10/05/20 20:22	91-20-3	
Phenanthrene	**29.0**	ug/kg	17.9	2.0	1	10/02/20 08:09	10/05/20 20:22	85-01-8	
Pyrene	**55.8**	ug/kg	17.9	2.6	1	10/02/20 08:09	10/05/20 20:22	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%	17-100		1	10/02/20 08:09	10/05/20 20:22	321-60-8	
Terphenyl-d14 (S)	73	%	17-98		1	10/02/20 08:09	10/05/20 20:22	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-7, 0.3-5.0' **Lab ID: 40215420010** Collected: 09/24/20 11:08 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/02/20 11:15	10/05/20 22:35	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/02/20 11:15	10/05/20 22:35	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/02/20 11:15	10/05/20 22:35	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/02/20 11:15	10/05/20 22:35	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 22:35	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 22:35	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 22:35	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/02/20 11:15	10/05/20 22:35	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:35	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/02/20 11:15	10/05/20 22:35	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/02/20 11:15	10/05/20 22:35	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/02/20 11:15	10/05/20 22:35	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/02/20 11:15	10/05/20 22:35	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/02/20 11:15	10/05/20 22:35	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:35	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/02/20 11:15	10/05/20 22:35	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/02/20 11:15	10/05/20 22:35	75-09-2	W
Naphthalene	**<27.3**	ug/kg	91.0	27.3	1	10/02/20 11:15	10/05/20 22:35	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/02/20 11:15	10/05/20 22:35	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/02/20 11:15	10/05/20 22:35	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	75-01-4	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-7, 0.3-5.0' **Lab ID: 40215420010** Collected: 09/24/20 11:08 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/02/20 11:15	10/05/20 22:35	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/02/20 11:15	10/05/20 22:35	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 22:35	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:35	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:35	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 22:35	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/02/20 11:15	10/05/20 22:35	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/02/20 11:15	10/05/20 22:35	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	75	%	58-145		1	10/02/20 11:15	10/05/20 22:35	1868-53-7	
Toluene-d8 (S)	77	%	56-140		1	10/02/20 11:15	10/05/20 22:35	2037-26-5	
4-Bromofluorobenzene (S)	63	%	52-137		1	10/02/20 11:15	10/05/20 22:35	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**6.6**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-9, 0.2-4.0' **Lab ID: 40215420011** Collected: 09/24/20 11:43 Received: 09/25/20 15:12 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
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<2.9**	ug/kg	9.5	2.9	5	10/01/20 15:08	10/06/20 16:48	309-00-2	
alpha-BHC	**<1.2**	ug/kg	4.1	1.2	5	10/01/20 15:08	10/06/20 16:48	319-84-6	
beta-BHC	**<2.0**	ug/kg	6.8	2.0	5	10/01/20 15:08	10/06/20 16:48	319-85-7	
delta-BHC	**<1.6**	ug/kg	5.2	1.6	5	10/01/20 15:08	10/06/20 16:48	319-86-8	
gamma-BHC (Lindane)	**<1.1**	ug/kg	3.8	1.1	5	10/01/20 15:08	10/06/20 16:48	58-89-9	
Chlordane (Technical)	**<29.4**	ug/kg	97.9	29.4	5	10/01/20 15:08	10/06/20 16:48	57-74-9	
alpha-Chlordane	**<1.2**	ug/kg	4.1	1.2	5	10/01/20 15:08	10/06/20 16:48	5103-71-9	
gamma-Chlordane	**<2.9**	ug/kg	9.5	2.9	5	10/01/20 15:08	10/06/20 16:48	5103-74-2	
4,4'-DDD	**<2.1**	ug/kg	6.9	2.1	5	10/01/20 15:08	10/06/20 16:48	72-54-8	
4,4'-DDE	**2.7J**	ug/kg	6.5	1.9	5	10/01/20 15:08	10/06/20 16:48	72-55-9	
4,4'-DDT	**<4.3**	ug/kg	14.5	4.3	5	10/01/20 15:08	10/06/20 16:48	50-29-3	
Dieldrin	**<1.9**	ug/kg	6.2	1.9	5	10/01/20 15:08	10/06/20 16:48	60-57-1	
Endosulfan I	**<1.5**	ug/kg	5.0	1.5	5	10/01/20 15:08	10/06/20 16:48	959-98-8	
Endosulfan II	**<3.0**	ug/kg	9.8	3.0	5	10/01/20 15:08	10/06/20 16:48	33213-65-9	
Endosulfan sulfate	**<3.6**	ug/kg	11.9	3.6	5	10/01/20 15:08	10/06/20 16:48	1031-07-8	
Endrin	**<2.0**	ug/kg	6.8	2.0	5	10/01/20 15:08	10/06/20 16:48	72-20-8	
Endrin aldehyde	**<4.0**	ug/kg	13.4	4.0	5	10/01/20 15:08	10/06/20 16:48	7421-93-4	
Endrin ketone	**<4.9**	ug/kg	16.4	4.9	5	10/01/20 15:08	10/06/20 16:48	53494-70-5	
Heptachlor	**<2.0**	ug/kg	6.7	2.0	5	10/01/20 15:08	10/06/20 16:48	76-44-8	
Heptachlor epoxide	**3.6J**	ug/kg	4.6	1.4	5	10/01/20 15:08	10/06/20 16:48	1024-57-3	
Methoxychlor	**<29.5**	ug/kg	98.1	29.5	5	10/01/20 15:08	10/06/20 16:48	72-43-5	
Toxaphene	**<79.0**	ug/kg	263	79.0	5	10/01/20 15:08	10/06/20 16:48	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	96	%.	30-150		5	10/01/20 15:08	10/06/20 16:48	877-09-8	D3
Decachlorobiphenyl (S)	115	%.	30-150		5	10/01/20 15:08	10/06/20 16:48	2051-24-3	
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	09/28/20 14:42	09/29/20 17:50	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 17:50	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 17:50	11141-16-5	
PCB-1242 (Aroclor 1242)	**507**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 17:50	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 17:50	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 17:50	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 17:50	11096-82-5	
PCB, Total	**507**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 17:50	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	69-115		1	09/28/20 14:42	09/29/20 17:50	877-09-8	
Decachlorobiphenyl (S)	84	%	62-104		1	09/28/20 14:42	09/29/20 17:50	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**2.0**	mg/kg	0.90	0.27	6.667	09/29/20 06:57	10/02/20 16:52	7440-38-2	
Barium	**13.4**	mg/kg	0.89	0.27	6.667	09/29/20 06:57	10/02/20 16:52	7440-39-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-9, 0.2-4.0' **Lab ID: 40215420011** Collected: 09/24/20 11:43 Received: 09/25/20 15:12 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
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**<0.099**	mg/kg	0.68	0.099	6.667	09/29/20 06:57	10/02/20 16:52	7440-43-9	D3
Chromium	**9.5**	mg/kg	2.1	0.62	6.667	09/29/20 06:57	10/02/20 16:52	7440-47-3	
Copper	**10**	mg/kg	1.8	0.55	6.667	09/29/20 06:57	10/02/20 16:52	7440-50-8	
Lead	**18.5**	mg/kg	0.68	0.19	6.667	09/29/20 06:57	10/02/20 16:52	7439-92-1	
Selenium	**0.34J**	mg/kg	0.68	0.19	6.667	09/29/20 06:57	10/02/20 16:52	7782-49-2	D3
Silver	**<0.097**	mg/kg	0.34	0.097	6.667	09/29/20 06:57	10/02/20 16:52	7440-22-4	D3
Zinc	**30.9**	mg/kg	23.8	7.1	6.667	09/29/20 06:57	10/02/20 16:52	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.015J**	mg/kg	0.037	0.011	1	10/07/20 09:07	10/08/20 10:23	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**<2.3**	ug/kg	17.9	2.3	1	10/02/20 08:09	10/05/20 18:56	83-32-9	
Acenaphthylene	**5.5J**	ug/kg	17.9	2.3	1	10/02/20 08:09	10/05/20 18:56	208-96-8	
Anthracene	**6.9J**	ug/kg	17.9	2.2	1	10/02/20 08:09	10/05/20 18:56	120-12-7	
Benzo(a)anthracene	**21.9**	ug/kg	17.9	2.3	1	10/02/20 08:09	10/05/20 18:56	56-55-3	
Benzo(a)pyrene	**38.0**	ug/kg	17.9	2.0	1	10/02/20 08:09	10/05/20 18:56	50-32-8	
Benzo(b)fluoranthene	**51.0**	ug/kg	17.9	2.5	1	10/02/20 08:09	10/05/20 18:56	205-99-2	
Benzo(g,h,i)perylene	**43.8**	ug/kg	17.9	3.1	1	10/02/20 08:09	10/05/20 18:56	191-24-2	
Benzo(k)fluoranthene	**19.7**	ug/kg	17.9	2.3	1	10/02/20 08:09	10/05/20 18:56	207-08-9	
Chrysene	**29.3**	ug/kg	17.9	3.4	1	10/02/20 08:09	10/05/20 18:56	218-01-9	
Dibenz(a,h)anthracene	**7.2J**	ug/kg	17.9	2.5	1	10/02/20 08:09	10/05/20 18:56	53-70-3	
Fluoranthene	**34.7**	ug/kg	17.9	2.1	1	10/02/20 08:09	10/05/20 18:56	206-44-0	
Fluorene	**3.6J**	ug/kg	17.9	2.1	1	10/02/20 08:09	10/05/20 18:56	86-73-7	
Indeno(1,2,3-cd)pyrene	**30.8**	ug/kg	17.9	3.7	1	10/02/20 08:09	10/05/20 18:56	193-39-5	
1-Methylnaphthalene	**35.6**	ug/kg	17.9	2.6	1	10/02/20 08:09	10/05/20 18:56	90-12-0	
2-Methylnaphthalene	**48.9**	ug/kg	17.9	2.6	1	10/02/20 08:09	10/05/20 18:56	91-57-6	
Naphthalene	**33.0**	ug/kg	17.9	1.7	1	10/02/20 08:09	10/05/20 18:56	91-20-3	
Phenanthrene	**31.2**	ug/kg	17.9	2.0	1	10/02/20 08:09	10/05/20 18:56	85-01-8	
Pyrene	**36.2**	ug/kg	17.9	2.6	1	10/02/20 08:09	10/05/20 18:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71	%	17-100		1	10/02/20 08:09	10/05/20 18:56	321-60-8	
Terphenyl-d14 (S)	75	%	17-98		1	10/02/20 08:09	10/05/20 18:56	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	75-35-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-9, 0.2-4.0' **Lab ID: 40215420011** Collected: 09/24/20 11:43 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/02/20 11:15	10/05/20 22:53	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/02/20 11:15	10/05/20 22:53	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/02/20 11:15	10/05/20 22:53	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/02/20 11:15	10/05/20 22:53	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 22:53	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 22:53	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 22:53	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/02/20 11:15	10/05/20 22:53	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:53	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/02/20 11:15	10/05/20 22:53	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/02/20 11:15	10/05/20 22:53	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/02/20 11:15	10/05/20 22:53	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/02/20 11:15	10/05/20 22:53	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/02/20 11:15	10/05/20 22:53	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:53	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/02/20 11:15	10/05/20 22:53	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/02/20 11:15	10/05/20 22:53	75-09-2	W
Naphthalene	**29.3J**	ug/kg	97.2	29.2	1	10/02/20 11:15	10/05/20 22:53	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/02/20 11:15	10/05/20 22:53	127-18-4	W
Toluene	**82.3**	ug/kg	64.1	26.7	1	10/02/20 11:15	10/05/20 22:53	108-88-3	
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/02/20 11:15	10/05/20 22:53	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	75-01-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-9, 0.2-4.0' **Lab ID: 40215420011** Collected: 09/24/20 11:43 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/02/20 11:15	10/05/20 22:53	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/02/20 11:15	10/05/20 22:53	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 22:53	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	103-65-1	W
o-Xylene	**33.6J**	ug/kg	64.1	26.7	1	10/02/20 11:15	10/05/20 22:53	95-47-6	
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:53	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:53	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 22:53	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/02/20 11:15	10/05/20 22:53	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/02/20 11:15	10/05/20 22:53	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	89	%	58-145		1	10/02/20 11:15	10/05/20 22:53	1868-53-7	
Toluene-d8 (S)	93	%	56-140		1	10/02/20 11:15	10/05/20 22:53	2037-26-5	
4-Bromofluorobenzene (S)	80	%	52-137		1	10/02/20 11:15	10/05/20 22:53	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**6.4**	%	0.10	0.10	1		09/28/20 14:20		

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-12, 0.2-5.0' **Lab ID: 40215420012** Collected: 09/24/20 12:15 Received: 09/25/20 15:12 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
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<5.7**	ug/kg	18.9	5.7	10	10/01/20 15:08	10/02/20 16:41	309-00-2	
alpha-BHC	**<2.4**	ug/kg	8.1	2.4	10	10/01/20 15:08	10/02/20 16:41	319-84-6	
beta-BHC	**<4.1**	ug/kg	13.5	4.1	10	10/01/20 15:08	10/02/20 16:41	319-85-7	
delta-BHC	**<3.1**	ug/kg	10.3	3.1	10	10/01/20 15:08	10/02/20 16:41	319-86-8	
gamma-BHC (Lindane)	**4.2J**	ug/kg	7.5	2.2	10	10/01/20 15:08	10/02/20 16:41	58-89-9	
Chlordane (Technical)	**<58.4**	ug/kg	194	58.4	10	10/01/20 15:08	10/02/20 16:41	57-74-9	
alpha-Chlordane	**<2.4**	ug/kg	8.1	2.4	10	10/01/20 15:08	10/02/20 16:41	5103-71-9	
gamma-Chlordane	**<5.7**	ug/kg	18.9	5.7	10	10/01/20 15:08	10/02/20 16:41	5103-74-2	
4,4'-DDD	**<4.1**	ug/kg	13.6	4.1	10	10/01/20 15:08	10/02/20 16:41	72-54-8	
4,4'-DDE	**<3.8**	ug/kg	12.8	3.8	10	10/01/20 15:08	10/02/20 16:41	72-55-9	
4,4'-DDT	**<8.6**	ug/kg	28.7	8.6	10	10/01/20 15:08	10/02/20 16:41	50-29-3	
Dieldrin	**<3.7**	ug/kg	12.3	3.7	10	10/01/20 15:08	10/02/20 16:41	60-57-1	
Endosulfan I	**<3.0**	ug/kg	9.8	3.0	10	10/01/20 15:08	10/02/20 16:41	959-98-8	
Endosulfan II	**<5.9**	ug/kg	19.5	5.9	10	10/01/20 15:08	10/02/20 16:41	33213-65-9	
Endosulfan sulfate	**<7.1**	ug/kg	23.6	7.1	10	10/01/20 15:08	10/02/20 16:41	1031-07-8	
Endrin	**<4.0**	ug/kg	13.4	4.0	10	10/01/20 15:08	10/02/20 16:41	72-20-8	
Endrin aldehyde	**<8.0**	ug/kg	26.6	8.0	10	10/01/20 15:08	10/02/20 16:41	7421-93-4	
Endrin ketone	**<9.8**	ug/kg	32.6	9.8	10	10/01/20 15:08	10/02/20 16:41	53494-70-5	
Heptachlor	**<4.0**	ug/kg	13.3	4.0	10	10/01/20 15:08	10/02/20 16:41	76-44-8	
Heptachlor epoxide	**<2.7**	ug/kg	9.1	2.7	10	10/01/20 15:08	10/02/20 16:41	1024-57-3	
Methoxychlor	**<58.5**	ug/kg	195	58.5	10	10/01/20 15:08	10/02/20 16:41	72-43-5	
Toxaphene	**<157**	ug/kg	522	157	10	10/01/20 15:08	10/02/20 16:41	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	118	%.	30-150		10	10/01/20 15:08	10/02/20 16:41	877-09-8	D3
Decachlorobiphenyl (S)	126	%.	30-150		10	10/01/20 15:08	10/02/20 16:41	2051-24-3	
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	09/28/20 14:42	09/29/20 20:01	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.1**	ug/kg	53.0	16.1	1	09/28/20 14:42	09/29/20 20:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.1**	ug/kg	53.0	16.1	1	09/28/20 14:42	09/29/20 20:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.1**	ug/kg	53.0	16.1	1	09/28/20 14:42	09/29/20 20:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.1**	ug/kg	53.0	16.1	1	09/28/20 14:42	09/29/20 20:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**35.7J**	ug/kg	53.0	16.1	1	09/28/20 14:42	09/29/20 20:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.1**	ug/kg	53.0	16.1	1	09/28/20 14:42	09/29/20 20:01	11096-82-5	
PCB, Total	**35.7J**	ug/kg	53.0	16.1	1	09/28/20 14:42	09/29/20 20:01	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	69-115		1	09/28/20 14:42	09/29/20 20:01	877-09-8	
Decachlorobiphenyl (S)	84	%	62-104		1	09/28/20 14:42	09/29/20 20:01	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**2.8**	mg/kg	0.89	0.27	6.667	09/29/20 06:57	10/02/20 16:59	7440-38-2	
Barium	**35.2**	mg/kg	0.88	0.26	6.667	09/29/20 06:57	10/02/20 16:59	7440-39-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-12, 0.2-5.0' **Lab ID: 40215420012** Collected: 09/24/20 12:15 Received: 09/25/20 15:12 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
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**<0.098**	mg/kg	0.67	0.098	6.667	09/29/20 06:57	10/02/20 16:59	7440-43-9	D3
Chromium	**10.2**	mg/kg	2.0	0.61	6.667	09/29/20 06:57	10/02/20 16:59	7440-47-3	
Copper	**17.0**	mg/kg	1.8	0.54	6.667	09/29/20 06:57	10/02/20 16:59	7440-50-8	
Lead	**24.8**	mg/kg	0.67	0.18	6.667	09/29/20 06:57	10/02/20 16:59	7439-92-1	
Selenium	**0.48J**	mg/kg	0.67	0.18	6.667	09/29/20 06:57	10/02/20 16:59	7782-49-2	D3
Silver	**<0.096**	mg/kg	0.34	0.096	6.667	09/29/20 06:57	10/02/20 16:59	7440-22-4	D3
Zinc	**48.3**	mg/kg	23.4	7.0	6.667	09/29/20 06:57	10/02/20 16:59	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.012J**	mg/kg	0.035	0.010	1	10/07/20 09:07	10/08/20 10:25	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**8.8J**	ug/kg	35.5	4.6	2	10/02/20 08:09	10/05/20 19:30	83-32-9	
Acenaphthylene	**32.2J**	ug/kg	35.5	4.5	2	10/02/20 08:09	10/05/20 19:30	208-96-8	
Anthracene	**28.3J**	ug/kg	35.5	4.4	2	10/02/20 08:09	10/05/20 19:30	120-12-7	
Benzo(a)anthracene	**113**	ug/kg	35.5	4.6	2	10/02/20 08:09	10/05/20 19:30	56-55-3	
Benzo(a)pyrene	**152**	ug/kg	35.5	4.0	2	10/02/20 08:09	10/05/20 19:30	50-32-8	
Benzo(b)fluoranthene	**231**	ug/kg	35.5	4.9	2	10/02/20 08:09	10/05/20 19:30	205-99-2	
Benzo(g,h,i)perylene	**130**	ug/kg	35.5	6.2	2	10/02/20 08:09	10/05/20 19:30	191-24-2	
Benzo(k)fluoranthene	**87.8**	ug/kg	35.5	4.5	2	10/02/20 08:09	10/05/20 19:30	207-08-9	
Chrysene	**150**	ug/kg	35.5	6.7	2	10/02/20 08:09	10/05/20 19:30	218-01-9	
Dibenz(a,h)anthracene	**29.5J**	ug/kg	35.5	4.9	2	10/02/20 08:09	10/05/20 19:30	53-70-3	
Fluoranthene	**257**	ug/kg	35.5	4.2	2	10/02/20 08:09	10/05/20 19:30	206-44-0	
Fluorene	**17.3J**	ug/kg	35.5	4.3	2	10/02/20 08:09	10/05/20 19:30	86-73-7	
Indeno(1,2,3-cd)pyrene	**105**	ug/kg	35.5	7.4	2	10/02/20 08:09	10/05/20 19:30	193-39-5	
1-Methylnaphthalene	**67.0**	ug/kg	35.5	5.2	2	10/02/20 08:09	10/05/20 19:30	90-12-0	
2-Methylnaphthalene	**77.3**	ug/kg	35.5	5.2	2	10/02/20 08:09	10/05/20 19:30	91-57-6	
Naphthalene	**71.2**	ug/kg	35.5	3.5	2	10/02/20 08:09	10/05/20 19:30	91-20-3	
Phenanthrene	**114**	ug/kg	35.5	4.1	2	10/02/20 08:09	10/05/20 19:30	85-01-8	
Pyrene	**184**	ug/kg	35.5	5.2	2	10/02/20 08:09	10/05/20 19:30	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71	%	17-100		2	10/02/20 08:09	10/05/20 19:30	321-60-8	
Terphenyl-d14 (S)	72	%	17-98		2	10/02/20 08:09	10/05/20 19:30	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	75-35-4	W

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-12, 0.2-5.0' **Lab ID: 40215420012** Collected: 09/24/20 12:15 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/05/20 09:00	10/05/20 15:05	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/05/20 09:00	10/05/20 15:05	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/05/20 09:00	10/05/20 15:05	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/05/20 09:00	10/05/20 15:05	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 15:05	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 15:05	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 15:05	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/05/20 09:00	10/05/20 15:05	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:05	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/05/20 09:00	10/05/20 15:05	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/05/20 09:00	10/05/20 15:05	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/05/20 09:00	10/05/20 15:05	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/05/20 09:00	10/05/20 15:05	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/05/20 09:00	10/05/20 15:05	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:05	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/05/20 09:00	10/05/20 15:05	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/05/20 09:00	10/05/20 15:05	75-09-2	W
Naphthalene	**49.2J**	ug/kg	96.6	29.0	1	10/05/20 09:00	10/05/20 15:05	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/05/20 09:00	10/05/20 15:05	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/05/20 09:00	10/05/20 15:05	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	75-01-4	W

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-12, 0.2-5.0' **Lab ID: 40215420012** Collected: 09/24/20 12:15 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/05/20 09:00	10/05/20 15:05	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/05/20 09:00	10/05/20 15:05	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/05/20 09:00	10/05/20 15:05	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:05	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:05	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 15:05	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/05/20 09:00	10/05/20 15:05	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/05/20 09:00	10/05/20 15:05	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	95	%	58-145		1	10/05/20 09:00	10/05/20 15:05	1868-53-7	
Toluene-d8 (S)	96	%	56-140		1	10/05/20 09:00	10/05/20 15:05	2037-26-5	
4-Bromofluorobenzene (S)	83	%	52-137		1	10/05/20 09:00	10/05/20 15:05	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.8**	%	0.10	0.10	1		09/28/20 14:20		

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-12, 5.0-7.5' **Lab ID: 40215420013** Collected: 09/24/20 12:20 Received: 09/25/20 15:12 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
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<31.5**	ug/kg	105	31.5	50	10/01/20 15:08	10/02/20 19:27	309-00-2	
alpha-BHC	**<13.5**	ug/kg	44.9	13.5	50	10/01/20 15:08	10/02/20 19:27	319-84-6	
beta-BHC	**<22.6**	ug/kg	75.2	22.6	50	10/01/20 15:08	10/02/20 19:27	319-85-7	
delta-BHC	**<17.2**	ug/kg	57.2	17.2	50	10/01/20 15:08	10/02/20 19:27	319-86-8	
gamma-BHC (Lindane)	**<12.5**	ug/kg	41.5	12.5	50	10/01/20 15:08	10/02/20 19:27	58-89-9	
Chlordane (Technical)	**<324**	ug/kg	1080	324	50	10/01/20 15:08	10/02/20 19:27	57-74-9	
alpha-Chlordane	**<13.6**	ug/kg	45.3	13.6	50	10/01/20 15:08	10/02/20 19:27	5103-71-9	
gamma-Chlordane	**<31.6**	ug/kg	105	31.6	50	10/01/20 15:08	10/02/20 19:27	5103-74-2	
4,4'-DDD	**<22.8**	ug/kg	75.8	22.8	50	10/01/20 15:08	10/02/20 19:27	72-54-8	
4,4'-DDE	**<21.4**	ug/kg	71.1	21.4	50	10/01/20 15:08	10/02/20 19:27	72-55-9	
4,4'-DDT	**<48.0**	ug/kg	160	48.0	50	10/01/20 15:08	10/02/20 19:27	50-29-3	
Dieldrin	**<20.5**	ug/kg	68.2	20.5	50	10/01/20 15:08	10/02/20 19:27	60-57-1	
Endosulfan I	**<16.4**	ug/kg	54.7	16.4	50	10/01/20 15:08	10/02/20 19:27	959-98-8	
Endosulfan II	**<32.6**	ug/kg	109	32.6	50	10/01/20 15:08	10/02/20 19:27	33213-65-9	
Endosulfan sulfate	**<39.4**	ug/kg	131	39.4	50	10/01/20 15:08	10/02/20 19:27	1031-07-8	
Endrin	**<22.4**	ug/kg	74.7	22.4	50	10/01/20 15:08	10/02/20 19:27	72-20-8	
Endrin aldehyde	**<44.3**	ug/kg	148	44.3	50	10/01/20 15:08	10/02/20 19:27	7421-93-4	
Endrin ketone	**<54.4**	ug/kg	181	54.4	50	10/01/20 15:08	10/02/20 19:27	53494-70-5	
Heptachlor	**<22.1**	ug/kg	73.7	22.1	50	10/01/20 15:08	10/02/20 19:27	76-44-8	
Heptachlor epoxide	**<15.2**	ug/kg	50.6	15.2	50	10/01/20 15:08	10/02/20 19:27	1024-57-3	
Methoxychlor	**<325**	ug/kg	1080	325	50	10/01/20 15:08	10/02/20 19:27	72-43-5	
Toxaphene	**<871**	ug/kg	2900	871	50	10/01/20 15:08	10/02/20 19:27	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	124	%.	30-150		50	10/01/20 15:08	10/02/20 19:27	877-09-8	D3,v1
Decachlorobiphenyl (S)	148	%.	30-150		50	10/01/20 15:08	10/02/20 19:27	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<17.9**	ug/kg	58.9	17.9	1	09/28/20 14:42	09/29/20 20:23	12674-11-2	
PCB-1221 (Aroclor 1221)	**<17.9**	ug/kg	58.9	17.9	1	09/28/20 14:42	09/29/20 20:23	11104-28-2	
PCB-1232 (Aroclor 1232)	**<17.9**	ug/kg	58.9	17.9	1	09/28/20 14:42	09/29/20 20:23	11141-16-5	
PCB-1242 (Aroclor 1242)	**<17.9**	ug/kg	58.9	17.9	1	09/28/20 14:42	09/29/20 20:23	53469-21-9	
PCB-1248 (Aroclor 1248)	**<17.9**	ug/kg	58.9	17.9	1	09/28/20 14:42	09/29/20 20:23	12672-29-6	
PCB-1254 (Aroclor 1254)	**48.7J**	ug/kg	58.9	17.9	1	09/28/20 14:42	09/29/20 20:23	11097-69-1	
PCB-1260 (Aroclor 1260)	**38.8J**	ug/kg	58.9	17.9	1	09/28/20 14:42	09/29/20 20:23	11096-82-5	
PCB, Total	**87.4**	ug/kg	58.9	17.9	1	09/28/20 14:42	09/29/20 20:23	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	69-115		1	09/28/20 14:42	09/29/20 20:23	877-09-8	
Decachlorobiphenyl (S)	81	%	62-104		1	09/28/20 14:42	09/29/20 20:23	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**5.1**	mg/kg	0.96	0.29	6.667	09/29/20 06:57	10/02/20 17:06	7440-38-2	
Barium	**34.5**	mg/kg	0.95	0.29	6.667	09/29/20 06:57	10/02/20 17:06	7440-39-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-12, 5.0-7.5' **Lab ID: 40215420013** Collected: 09/24/20 12:20 Received: 09/25/20 15:12 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
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**0.39J**	mg/kg	0.72	0.11	6.667	09/29/20 06:57	10/02/20 17:06	7440-43-9	D3
Chromium	**12.5**	mg/kg	2.2	0.66	6.667	09/29/20 06:57	10/02/20 17:06	7440-47-3	
Copper	**24.3**	mg/kg	1.9	0.58	6.667	09/29/20 06:57	10/02/20 17:06	7440-50-8	
Lead	**207**	mg/kg	0.72	0.20	6.667	09/29/20 06:57	10/02/20 17:06	7439-92-1	
Selenium	**0.57J**	mg/kg	0.72	0.20	6.667	09/29/20 06:57	10/02/20 17:06	7782-49-2	D3
Silver	**0.14J**	mg/kg	0.36	0.10	6.667	09/29/20 06:57	10/02/20 17:06	7440-22-4	D3
Zinc	**84.3**	mg/kg	25.2	7.6	6.667	09/29/20 06:57	10/02/20 17:06	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.074**	mg/kg	0.039	0.011	1	10/07/20 09:07	10/08/20 10:27	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**54.3J**	ug/kg	197	25.6	10	10/02/20 08:09	10/05/20 18:21	83-32-9	
Acenaphthylene	**159J**	ug/kg	197	24.8	10	10/02/20 08:09	10/05/20 18:21	208-96-8	
Anthracene	**391**	ug/kg	197	24.5	10	10/02/20 08:09	10/05/20 18:21	120-12-7	
Benzo(a)anthracene	**776**	ug/kg	197	25.5	10	10/02/20 08:09	10/05/20 18:21	56-55-3	
Benzo(a)pyrene	**926**	ug/kg	197	22.4	10	10/02/20 08:09	10/05/20 18:21	50-32-8	
Benzo(b)fluoranthene	**1060**	ug/kg	197	27.4	10	10/02/20 08:09	10/05/20 18:21	205-99-2	
Benzo(g,h,i)perylene	**563**	ug/kg	197	34.6	10	10/02/20 08:09	10/05/20 18:21	191-24-2	
Benzo(k)fluoranthene	**466**	ug/kg	197	25.2	10	10/02/20 08:09	10/05/20 18:21	207-08-9	
Chrysene	**860**	ug/kg	197	37.2	10	10/02/20 08:09	10/05/20 18:21	218-01-9	
Dibenz(a,h)anthracene	**162J**	ug/kg	197	27.3	10	10/02/20 08:09	10/05/20 18:21	53-70-3	
Fluoranthene	**1670**	ug/kg	197	23.3	10	10/02/20 08:09	10/05/20 18:21	206-44-0	
Fluorene	**130J**	ug/kg	197	23.6	10	10/02/20 08:09	10/05/20 18:21	86-73-7	
Indeno(1,2,3-cd)pyrene	**488**	ug/kg	197	41.1	10	10/02/20 08:09	10/05/20 18:21	193-39-5	
1-Methylnaphthalene	**61.6J**	ug/kg	197	28.8	10	10/02/20 08:09	10/05/20 18:21	90-12-0	
2-Methylnaphthalene	**73.2J**	ug/kg	197	28.8	10	10/02/20 08:09	10/05/20 18:21	91-57-6	
Naphthalene	**82.5J**	ug/kg	197	19.2	10	10/02/20 08:09	10/05/20 18:21	91-20-3	
Phenanthrene	**1020**	ug/kg	197	22.6	10	10/02/20 08:09	10/05/20 18:21	85-01-8	
Pyrene	**1290**	ug/kg	197	29.0	10	10/02/20 08:09	10/05/20 18:21	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%	17-100		10	10/02/20 08:09	10/05/20 18:21	321-60-8	
Terphenyl-d14 (S)	68	%	17-98		10	10/02/20 08:09	10/05/20 18:21	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-12, 5.0-7.5' **Lab ID: 40215420013** Collected: 09/24/20 12:20 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/05/20 09:00	10/05/20 15:22	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/05/20 09:00	10/05/20 15:22	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/05/20 09:00	10/05/20 15:22	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/05/20 09:00	10/05/20 15:22	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 15:22	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 15:22	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 15:22	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/05/20 09:00	10/05/20 15:22	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:22	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/05/20 09:00	10/05/20 15:22	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/05/20 09:00	10/05/20 15:22	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/05/20 09:00	10/05/20 15:22	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/05/20 09:00	10/05/20 15:22	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/05/20 09:00	10/05/20 15:22	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:22	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/05/20 09:00	10/05/20 15:22	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/05/20 09:00	10/05/20 15:22	75-09-2	W
Naphthalene	**52.7J**	ug/kg	108	32.2	1	10/05/20 09:00	10/05/20 15:22	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/05/20 09:00	10/05/20 15:22	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/05/20 09:00	10/05/20 15:22	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	75-01-4	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-12, 5.0-7.5' **Lab ID: 40215420013** Collected: 09/24/20 12:20 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/05/20 09:00	10/05/20 15:22	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/05/20 09:00	10/05/20 15:22	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/05/20 09:00	10/05/20 15:22	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:22	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:22	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 15:22	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/05/20 09:00	10/05/20 15:22	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/05/20 09:00	10/05/20 15:22	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	97	%	58-145		1	10/05/20 09:00	10/05/20 15:22	1868-53-7	
Toluene-d8 (S)	98	%	56-140		1	10/05/20 09:00	10/05/20 15:22	2037-26-5	
4-Bromofluorobenzene (S)	85	%	52-137		1	10/05/20 09:00	10/05/20 15:22	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**15.4**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-13, 0.2-4.0' **Lab ID: 40215420014** Collected: 09/24/20 12:25 Received: 09/25/20 15:12 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
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<29.5**	ug/kg	98.2	29.5	50	10/01/20 15:08	10/02/20 19:46	309-00-2	
alpha-BHC	**<12.6**	ug/kg	42.0	12.6	50	10/01/20 15:08	10/02/20 19:46	319-84-6	
beta-BHC	**<21.2**	ug/kg	70.5	21.2	50	10/01/20 15:08	10/02/20 19:46	319-85-7	
delta-BHC	**<16.1**	ug/kg	53.6	16.1	50	10/01/20 15:08	10/02/20 19:46	319-86-8	
gamma-BHC (Lindane)	**<11.7**	ug/kg	38.9	11.7	50	10/01/20 15:08	10/02/20 19:46	58-89-9	
Chlordane (Technical)	**<304**	ug/kg	1010	304	50	10/01/20 15:08	10/02/20 19:46	57-74-9	
alpha-Chlordane	**<12.7**	ug/kg	42.4	12.7	50	10/01/20 15:08	10/02/20 19:46	5103-71-9	
gamma-Chlordane	**<29.6**	ug/kg	98.6	29.6	50	10/01/20 15:08	10/02/20 19:46	5103-74-2	
4,4'-DDD	**<21.3**	ug/kg	71.0	21.3	50	10/01/20 15:08	10/02/20 19:46	72-54-8	
4,4'-DDE	**<20.0**	ug/kg	66.6	20.0	50	10/01/20 15:08	10/02/20 19:46	72-55-9	
4,4'-DDT	**<44.9**	ug/kg	150	44.9	50	10/01/20 15:08	10/02/20 19:46	50-29-3	
Dieldrin	**<19.2**	ug/kg	63.9	19.2	50	10/01/20 15:08	10/02/20 19:46	60-57-1	
Endosulfan I	**<15.4**	ug/kg	51.2	15.4	50	10/01/20 15:08	10/02/20 19:46	959-98-8	
Endosulfan II	**<30.5**	ug/kg	102	30.5	50	10/01/20 15:08	10/02/20 19:46	33213-65-9	
Endosulfan sulfate	**<36.9**	ug/kg	123	36.9	50	10/01/20 15:08	10/02/20 19:46	1031-07-8	
Endrin	**<21.0**	ug/kg	69.9	21.0	50	10/01/20 15:08	10/02/20 19:46	72-20-8	
Endrin aldehyde	**<41.5**	ug/kg	138	41.5	50	10/01/20 15:08	10/02/20 19:46	7421-93-4	
Endrin ketone	**<51.0**	ug/kg	170	51.0	50	10/01/20 15:08	10/02/20 19:46	53494-70-5	
Heptachlor	**<20.7**	ug/kg	69.0	20.7	50	10/01/20 15:08	10/02/20 19:46	76-44-8	
Heptachlor epoxide	**<14.2**	ug/kg	47.4	14.2	50	10/01/20 15:08	10/02/20 19:46	1024-57-3	
Methoxychlor	**<304**	ug/kg	1010	304	50	10/01/20 15:08	10/02/20 19:46	72-43-5	
Toxaphene	**<816**	ug/kg	2720	816	50	10/01/20 15:08	10/02/20 19:46	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	124	%.	30-150		50	10/01/20 15:08	10/02/20 19:46	877-09-8	D3,v1
Decachlorobiphenyl (S)	131	%.	30-150		50	10/01/20 15:08	10/02/20 19:46	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.8**	ug/kg	55.3	16.8	1	09/28/20 14:42	09/29/20 20:45	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.8**	ug/kg	55.3	16.8	1	09/28/20 14:42	09/29/20 20:45	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.8**	ug/kg	55.3	16.8	1	09/28/20 14:42	09/29/20 20:45	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.8**	ug/kg	55.3	16.8	1	09/28/20 14:42	09/29/20 20:45	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.8**	ug/kg	55.3	16.8	1	09/28/20 14:42	09/29/20 20:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**156**	ug/kg	55.3	16.8	1	09/28/20 14:42	09/29/20 20:45	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.8**	ug/kg	55.3	16.8	1	09/28/20 14:42	09/29/20 20:45	11096-82-5	
PCB, Total	**156**	ug/kg	55.3	16.8	1	09/28/20 14:42	09/29/20 20:45	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	69-115		1	09/28/20 14:42	09/29/20 20:45	877-09-8	
Decachlorobiphenyl (S)	88	%	62-104		1	09/28/20 14:42	09/29/20 20:45	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**44.4**	mg/kg	0.96	0.29	6.667	09/29/20 06:57	10/02/20 17:13	7440-38-2	
Barium	**182**	mg/kg	0.95	0.29	6.667	09/29/20 06:57	10/02/20 17:13	7440-39-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-13, 0.2-4.0' **Lab ID: 40215420014** Collected: 09/24/20 12:25 Received: 09/25/20 15:12 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
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**3.1**	mg/kg	0.72	0.11	6.667	09/29/20 06:57	10/02/20 17:13	7440-43-9	
Chromium	**14.8**	mg/kg	2.2	0.66	6.667	09/29/20 06:57	10/02/20 17:13	7440-47-3	
Copper	**74.4**	mg/kg	1.9	0.58	6.667	09/29/20 06:57	10/02/20 17:13	7440-50-8	
Lead	**269**	mg/kg	0.72	0.20	6.667	09/29/20 06:57	10/02/20 17:13	7439-92-1	
Selenium	**0.76**	mg/kg	0.72	0.20	6.667	09/29/20 06:57	10/02/20 17:13	7782-49-2	
Silver	**0.27J**	mg/kg	0.36	0.10	6.667	09/29/20 06:57	10/02/20 17:13	7440-22-4	D3
Zinc	**803**	mg/kg	25.2	7.6	6.667	09/29/20 06:57	10/02/20 17:13	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.44**	mg/kg	0.036	0.010	1	10/07/20 09:07	10/08/20 10:30	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**12.4J**	ug/kg	36.9	4.8	2	10/02/20 08:09	10/05/20 19:47	83-32-9	
Acenaphthylene	**21.1J**	ug/kg	36.9	4.7	2	10/02/20 08:09	10/05/20 19:47	208-96-8	
Anthracene	**34.1J**	ug/kg	36.9	4.6	2	10/02/20 08:09	10/05/20 19:47	120-12-7	
Benzo(a)anthracene	**78.4**	ug/kg	36.9	4.8	2	10/02/20 08:09	10/05/20 19:47	56-55-3	
Benzo(a)pyrene	**96.9**	ug/kg	36.9	4.2	2	10/02/20 08:09	10/05/20 19:47	50-32-8	
Benzo(b)fluoranthene	**141**	ug/kg	36.9	5.1	2	10/02/20 08:09	10/05/20 19:47	205-99-2	
Benzo(g,h,i)perylene	**85.1**	ug/kg	36.9	6.5	2	10/02/20 08:09	10/05/20 19:47	191-24-2	
Benzo(k)fluoranthene	**49.3**	ug/kg	36.9	4.7	2	10/02/20 08:09	10/05/20 19:47	207-08-9	
Chrysene	**109**	ug/kg	36.9	7.0	2	10/02/20 08:09	10/05/20 19:47	218-01-9	
Dibenz(a,h)anthracene	**18.5J**	ug/kg	36.9	5.1	2	10/02/20 08:09	10/05/20 19:47	53-70-3	
Fluoranthene	**150**	ug/kg	36.9	4.4	2	10/02/20 08:09	10/05/20 19:47	206-44-0	
Fluorene	**27.0J**	ug/kg	36.9	4.4	2	10/02/20 08:09	10/05/20 19:47	86-73-7	
Indeno(1,2,3-cd)pyrene	**57.5**	ug/kg	36.9	7.7	2	10/02/20 08:09	10/05/20 19:47	193-39-5	
1-Methylnaphthalene	**266**	ug/kg	36.9	5.4	2	10/02/20 08:09	10/05/20 19:47	90-12-0	
2-Methylnaphthalene	**387**	ug/kg	36.9	5.4	2	10/02/20 08:09	10/05/20 19:47	91-57-6	
Naphthalene	**355**	ug/kg	36.9	3.6	2	10/02/20 08:09	10/05/20 19:47	91-20-3	
Phenanthrene	**199**	ug/kg	36.9	4.2	2	10/02/20 08:09	10/05/20 19:47	85-01-8	
Pyrene	**110**	ug/kg	36.9	5.4	2	10/02/20 08:09	10/05/20 19:47	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%	17-100		2	10/02/20 08:09	10/05/20 19:47	321-60-8	
Terphenyl-d14 (S)	69	%	17-98		2	10/02/20 08:09	10/05/20 19:47	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	75-35-4	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-13, 0.2-4.0' **Lab ID: 40215420014** Collected: 09/24/20 12:25 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/05/20 09:00	10/05/20 12:48	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/05/20 09:00	10/05/20 12:48	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/05/20 09:00	10/05/20 12:48	120-82-1	W
1,2,4-Trimethylbenzene	**30.3J**	ug/kg	66.4	27.7	1	10/05/20 09:00	10/05/20 12:48	95-63-6	
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/05/20 09:00	10/05/20 12:48	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 12:48	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 12:48	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 12:48	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/05/20 09:00	10/05/20 12:48	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 12:48	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/05/20 09:00	10/05/20 12:48	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/05/20 09:00	10/05/20 12:48	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/05/20 09:00	10/05/20 12:48	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/05/20 09:00	10/05/20 12:48	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/05/20 09:00	10/05/20 12:48	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 12:48	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/05/20 09:00	10/05/20 12:48	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/05/20 09:00	10/05/20 12:48	75-09-2	W
Naphthalene	**57.4J**	ug/kg	101	30.2	1	10/05/20 09:00	10/05/20 12:48	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/05/20 09:00	10/05/20 12:48	127-18-4	W
Toluene	**116**	ug/kg	66.4	27.7	1	10/05/20 09:00	10/05/20 12:48	108-88-3	
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/05/20 09:00	10/05/20 12:48	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	75-01-4	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-13, 0.2-4.0' **Lab ID: 40215420014** Collected: 09/24/20 12:25 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/05/20 09:00	10/05/20 12:48	10061-01-5	W
m&p-Xylene	**96.6J**	ug/kg	133	55.3	1	10/05/20 09:00	10/05/20 12:48	179601-23-1	
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/05/20 09:00	10/05/20 12:48	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	103-65-1	W
o-Xylene	**49.4J**	ug/kg	66.4	27.7	1	10/05/20 09:00	10/05/20 12:48	95-47-6	
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 12:48	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 12:48	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 12:48	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/05/20 09:00	10/05/20 12:48	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/05/20 09:00	10/05/20 12:48	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	58-145		1	10/05/20 09:00	10/05/20 12:48	1868-53-7	
Toluene-d8 (S)	92	%	56-140		1	10/05/20 09:00	10/05/20 12:48	2037-26-5	
4-Bromofluorobenzene (S)	83	%	52-137		1	10/05/20 09:00	10/05/20 12:48	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**9.6**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-5, 0.2-4.0' **Lab ID: 40215420015** Collected: 09/24/20 12:45 Received: 09/25/20 15:12 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
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<5.6**	ug/kg	18.7	5.6	10	10/01/20 15:08	10/02/20 16:59	309-00-2	
alpha-BHC	**<2.4**	ug/kg	8.0	2.4	10	10/01/20 15:08	10/02/20 16:59	319-84-6	
beta-BHC	**<4.0**	ug/kg	13.4	4.0	10	10/01/20 15:08	10/02/20 16:59	319-85-7	
delta-BHC	**<3.1**	ug/kg	10.2	3.1	10	10/01/20 15:08	10/02/20 16:59	319-86-8	
gamma-BHC (Lindane)	**<2.2**	ug/kg	7.4	2.2	10	10/01/20 15:08	10/02/20 16:59	58-89-9	
Chlordane (Technical)	**<57.8**	ug/kg	193	57.8	10	10/01/20 15:08	10/02/20 16:59	57-74-9	
alpha-Chlordane	**<2.4**	ug/kg	8.1	2.4	10	10/01/20 15:08	10/02/20 16:59	5103-71-9	
gamma-Chlordane	**<5.6**	ug/kg	18.8	5.6	10	10/01/20 15:08	10/02/20 16:59	5103-74-2	
4,4'-DDD	**<4.1**	ug/kg	13.5	4.1	10	10/01/20 15:08	10/02/20 16:59	72-54-8	
4,4'-DDE	**<3.8**	ug/kg	12.7	3.8	10	10/01/20 15:08	10/02/20 16:59	72-55-9	
4,4'-DDT	**<8.6**	ug/kg	28.5	8.6	10	10/01/20 15:08	10/02/20 16:59	50-29-3	
Dieldrin	**<3.7**	ug/kg	12.2	3.7	10	10/01/20 15:08	10/02/20 16:59	60-57-1	
Endosulfan I	**<2.9**	ug/kg	9.8	2.9	10	10/01/20 15:08	10/02/20 16:59	959-98-8	
Endosulfan II	**<5.8**	ug/kg	19.4	5.8	10	10/01/20 15:08	10/02/20 16:59	33213-65-9	
Endosulfan sulfate	**<7.0**	ug/kg	23.4	7.0	10	10/01/20 15:08	10/02/20 16:59	1031-07-8	
Endrin	**<4.0**	ug/kg	13.3	4.0	10	10/01/20 15:08	10/02/20 16:59	72-20-8	
Endrin aldehyde	**<7.9**	ug/kg	26.3	7.9	10	10/01/20 15:08	10/02/20 16:59	7421-93-4	
Endrin ketone	**<9.7**	ug/kg	32.3	9.7	10	10/01/20 15:08	10/02/20 16:59	53494-70-5	
Heptachlor	**<3.9**	ug/kg	13.1	3.9	10	10/01/20 15:08	10/02/20 16:59	76-44-8	
Heptachlor epoxide	**<2.7**	ug/kg	9.0	2.7	10	10/01/20 15:08	10/02/20 16:59	1024-57-3	
Methoxychlor	**<58.0**	ug/kg	193	58.0	10	10/01/20 15:08	10/02/20 16:59	72-43-5	
Toxaphene	**<155**	ug/kg	517	155	10	10/01/20 15:08	10/02/20 16:59	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	113	%.	30-150		10	10/01/20 15:08	10/02/20 16:59	877-09-8	D3
Decachlorobiphenyl (S)	135	%.	30-150		10	10/01/20 15:08	10/02/20 16:59	2051-24-3	
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	09/28/20 14:42	09/29/20 18:34	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.1**	ug/kg	52.8	16.1	1	09/28/20 14:42	09/29/20 18:34	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.1**	ug/kg	52.8	16.1	1	09/28/20 14:42	09/29/20 18:34	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.1**	ug/kg	52.8	16.1	1	09/28/20 14:42	09/29/20 18:34	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.1**	ug/kg	52.8	16.1	1	09/28/20 14:42	09/29/20 18:34	12672-29-6	
PCB-1254 (Aroclor 1254)	**57.6**	ug/kg	52.8	16.1	1	09/28/20 14:42	09/29/20 18:34	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.1**	ug/kg	52.8	16.1	1	09/28/20 14:42	09/29/20 18:34	11096-82-5	
PCB, Total	**57.6**	ug/kg	52.8	16.1	1	09/28/20 14:42	09/29/20 18:34	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	69-115		1	09/28/20 14:42	09/29/20 18:34	877-09-8	
Decachlorobiphenyl (S)	85	%	62-104		1	09/28/20 14:42	09/29/20 18:34	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**2.2**	mg/kg	0.88	0.26	6.667	09/29/20 06:57	10/02/20 17:33	7440-38-2	
Barium	**12.1**	mg/kg	0.88	0.26	6.667	09/29/20 06:57	10/02/20 17:33	7440-39-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-5, 0.2-4.0' **Lab ID: 40215420015** Collected: 09/24/20 12:45 Received: 09/25/20 15:12 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
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**0.10J**	mg/kg	0.67	0.098	6.667	09/29/20 06:57	10/02/20 17:33	7440-43-9	D3
Chromium	**11.7**	mg/kg	2.0	0.61	6.667	09/29/20 06:57	10/02/20 17:33	7440-47-3	
Copper	**13.1**	mg/kg	1.8	0.54	6.667	09/29/20 06:57	10/02/20 17:33	7440-50-8	
Lead	**18.0**	mg/kg	0.67	0.18	6.667	09/29/20 06:57	10/02/20 17:33	7439-92-1	
Selenium	**0.34J**	mg/kg	0.67	0.18	6.667	09/29/20 06:57	10/02/20 17:33	7782-49-2	D3
Silver	**<0.096**	mg/kg	0.33	0.096	6.667	09/29/20 06:57	10/02/20 17:33	7440-22-4	D3
Zinc	**60.6**	mg/kg	23.3	7.0	6.667	09/29/20 06:57	10/02/20 17:33	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.015J**	mg/kg	0.036	0.010	1	10/07/20 09:07	10/08/20 10:37	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**17.0J**	ug/kg	35.3	4.6	2	10/02/20 08:09	10/05/20 18:38	83-32-9	
Acenaphthylene	**39.8**	ug/kg	35.3	4.5	2	10/02/20 08:09	10/05/20 18:38	208-96-8	
Anthracene	**55.2**	ug/kg	35.3	4.4	2	10/02/20 08:09	10/05/20 18:38	120-12-7	
Benzo(a)anthracene	**110**	ug/kg	35.3	4.6	2	10/02/20 08:09	10/05/20 18:38	56-55-3	
Benzo(a)pyrene	**151**	ug/kg	35.3	4.0	2	10/02/20 08:09	10/05/20 18:38	50-32-8	
Benzo(b)fluoranthene	**193**	ug/kg	35.3	4.9	2	10/02/20 08:09	10/05/20 18:38	205-99-2	
Benzo(g,h,i)perylene	**124**	ug/kg	35.3	6.2	2	10/02/20 08:09	10/05/20 18:38	191-24-2	
Benzo(k)fluoranthene	**78.1**	ug/kg	35.3	4.5	2	10/02/20 08:09	10/05/20 18:38	207-08-9	
Chrysene	**142**	ug/kg	35.3	6.7	2	10/02/20 08:09	10/05/20 18:38	218-01-9	
Dibenz(a,h)anthracene	**30.8J**	ug/kg	35.3	4.9	2	10/02/20 08:09	10/05/20 18:38	53-70-3	
Fluoranthene	**212**	ug/kg	35.3	4.2	2	10/02/20 08:09	10/05/20 18:38	206-44-0	
Fluorene	**28.6J**	ug/kg	35.3	4.2	2	10/02/20 08:09	10/05/20 18:38	86-73-7	
Indeno(1,2,3-cd)pyrene	**94.5**	ug/kg	35.3	7.4	2	10/02/20 08:09	10/05/20 18:38	193-39-5	
1-Methylnaphthalene	**17.3J**	ug/kg	35.3	5.2	2	10/02/20 08:09	10/05/20 18:38	90-12-0	
2-Methylnaphthalene	**18.3J**	ug/kg	35.3	5.2	2	10/02/20 08:09	10/05/20 18:38	91-57-6	
Naphthalene	**46.5**	ug/kg	35.3	3.4	2	10/02/20 08:09	10/05/20 18:38	91-20-3	
Phenanthrene	**122**	ug/kg	35.3	4.0	2	10/02/20 08:09	10/05/20 18:38	85-01-8	
Pyrene	**174**	ug/kg	35.3	5.2	2	10/02/20 08:09	10/05/20 18:38	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	17-100		2	10/02/20 08:09	10/05/20 18:38	321-60-8	
Terphenyl-d14 (S)	55	%	17-98		2	10/02/20 08:09	10/05/20 18:38	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	75-35-4	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-5, 0.2-4.0' **Lab ID: 40215420015** Collected: 09/24/20 12:45 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/05/20 09:00	10/05/20 15:39	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/05/20 09:00	10/05/20 15:39	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/05/20 09:00	10/05/20 15:39	120-82-1	W
1,2,4-Trimethylbenzene	**45.0J**	ug/kg	63.5	26.4	1	10/05/20 09:00	10/05/20 15:39	95-63-6	
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/05/20 09:00	10/05/20 15:39	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 15:39	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 15:39	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 15:39	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/05/20 09:00	10/05/20 15:39	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:39	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/05/20 09:00	10/05/20 15:39	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/05/20 09:00	10/05/20 15:39	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/05/20 09:00	10/05/20 15:39	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/05/20 09:00	10/05/20 15:39	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/05/20 09:00	10/05/20 15:39	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:39	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/05/20 09:00	10/05/20 15:39	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/05/20 09:00	10/05/20 15:39	75-09-2	W
Naphthalene	**67.2J**	ug/kg	96.2	28.9	1	10/05/20 09:00	10/05/20 15:39	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/05/20 09:00	10/05/20 15:39	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/05/20 09:00	10/05/20 15:39	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	75-01-4	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-5, 0.2-4.0' **Lab ID: 40215420015** Collected: 09/24/20 12:45 Received: 09/25/20 15:12 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/05/20 09:00	10/05/20 15:39	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/05/20 09:00	10/05/20 15:39	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/05/20 09:00	10/05/20 15:39	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:39	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:39	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 15:39	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/05/20 09:00	10/05/20 15:39	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/05/20 09:00	10/05/20 15:39	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	58-145		1	10/05/20 09:00	10/05/20 15:39	1868-53-7	
Toluene-d8 (S)	94	%	56-140		1	10/05/20 09:00	10/05/20 15:39	2037-26-5	
4-Bromofluorobenzene (S)	81	%	52-137		1	10/05/20 09:00	10/05/20 15:39	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.4**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: MEOH BLANK **Lab ID: 40215420016** Collected: 09/23/20 00:00 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/05/20 09:00	10/05/20 12:14	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/05/20 09:00	10/05/20 12:14	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/05/20 09:00	10/05/20 12:14	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/05/20 09:00	10/05/20 12:14	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 12:14	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 12:14	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 12:14	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/05/20 09:00	10/05/20 12:14	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 12:14	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/05/20 09:00	10/05/20 12:14	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/05/20 09:00	10/05/20 12:14	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/05/20 09:00	10/05/20 12:14	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/05/20 09:00	10/05/20 12:14	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/05/20 09:00	10/05/20 12:14	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 12:14	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/05/20 09:00	10/05/20 12:14	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/05/20 09:00	10/05/20 12:14	75-09-2	W
Naphthalene	**<27.3**	ug/kg	91.0	27.3	1	10/05/20 09:00	10/05/20 12:14	91-20-3	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: MEOH BLANK **Lab ID: 40215420016** Collected: 09/23/20 00:00 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/05/20 09:00	10/05/20 12:14	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/05/20 09:00	10/05/20 12:14	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/05/20 09:00	10/05/20 12:14	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/05/20 09:00	10/05/20 12:14	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/05/20 09:00	10/05/20 12:14	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 12:14	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 12:14	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 12:14	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/05/20 09:00	10/05/20 12:14	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/05/20 09:00	10/05/20 12:14	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	95	%	58-145		1	10/05/20 09:00	10/05/20 12:14	1868-53-7	
Toluene-d8 (S)	96	%	56-140		1	10/05/20 09:00	10/05/20 12:14	2037-26-5	
4-Bromofluorobenzene (S)	85	%	52-137		1	10/05/20 09:00	10/05/20 12:14	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

QC Batch: 367571
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215420001, 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

METHOD BLANK: 2124444 Matrix: Solid
Associated Lab Samples: 40215420001, 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	10/08/20 09:41	

LABORATORY CONTROL SAMPLE: 2124445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.85	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2124446 2124447

Parameter	Units	40215277001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.034J	0.88	0.88	0.86	0.85	94	94	85-115	0	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

QC Batch: 366768
QC Batch Method: EPA 3050
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215420001, 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

METHOD BLANK: 2119990 Matrix: Solid
Associated Lab Samples: 40215420001, 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<0.040	0.13	10/02/20 14:50	
Barium	mg/kg	<0.039	0.13	10/02/20 14:50	
Cadmium	mg/kg	<0.015	0.10	10/02/20 14:50	
Chromium	mg/kg	<0.091	0.30	10/02/20 14:50	
Copper	mg/kg	<0.080	0.27	10/02/20 14:50	
Lead	mg/kg	<0.027	0.10	10/02/20 14:50	
Selenium	mg/kg	<0.027	0.10	10/02/20 14:50	
Silver	mg/kg	<0.014	0.050	10/02/20 14:50	
Zinc	mg/kg	<1.0	3.5	10/02/20 14:50	

LABORATORY CONTROL SAMPLE: 2119991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	51.9	104	80-120	
Barium	mg/kg	50	49.7	99	80-120	
Cadmium	mg/kg	50	52.4	105	80-120	
Chromium	mg/kg	50	48.9	98	80-120	
Copper	mg/kg	50	48.4	97	80-120	
Lead	mg/kg	50	46.5	93	80-120	
Selenium	mg/kg	50	51.5	103	80-120	
Silver	mg/kg	25	24.9	100	80-120	
Zinc	mg/kg	50	49.1	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2119992 2119993

Parameter	Units	40215420001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	4.3	53.7	53.7	57.6	58.8	99	101	75-125	2	20	
Barium	mg/kg	25.4	53.7	53.7	87.8	84.6	116	110	75-125	4	20	
Cadmium	mg/kg	0.55J	53.7	53.7	54.9	55.4	101	102	75-125	1	20	
Chromium	mg/kg	10.4	53.7	53.7	63.6	63.5	99	99	75-125	0	20	
Copper	mg/kg	23.5	53.7	53.7	76.1	77.0	98	100	75-125	1	20	
Lead	mg/kg	18.2	53.7	53.7	75.9	75.2	107	106	75-125	1	20	
Selenium	mg/kg	0.79	53.7	53.7	54.5	55.0	100	101	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2119992 2119993

Parameter	Units	40215420001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Silver	mg/kg	0.23J	26.9	26.9	26.2	26.4	97	97	75-125	1	20	
Zinc	mg/kg	62.5	53.7	53.7	126	126	118	119	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

QC Batch: 367217
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011

METHOD BLANK: 2122800
Matrix: Solid
Associated Lab Samples: 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<7.8	50.0	10/05/20 18:01	
1,1,1-Trichloroethane	ug/kg	<13.5	50.0	10/05/20 18:01	
1,1,2,2-Tetrachloroethane	ug/kg	<15.7	52.0	10/05/20 18:01	
1,1,2-Trichloroethane	ug/kg	<15.7	52.0	10/05/20 18:01	
1,1-Dichloroethane	ug/kg	<13.5	50.0	10/05/20 18:01	
1,1-Dichloroethene	ug/kg	<11.8	50.0	10/05/20 18:01	
1,1-Dichloropropene	ug/kg	<10.7	50.0	10/05/20 18:01	
1,2,3-Trichlorobenzene	ug/kg	<47.3	158	10/05/20 18:01	
1,2,3-Trichloropropane	ug/kg	<37.4	125	10/05/20 18:01	
1,2,4-Trichlorobenzene	ug/kg	<41.7	250	10/05/20 18:01	
1,2,4-Trimethylbenzene	ug/kg	<18.1	60.0	10/05/20 18:01	
1,2-Dibromo-3-chloropropane	ug/kg	<237	789	10/05/20 18:01	
1,2-Dibromoethane (EDB)	ug/kg	<17.0	57.0	10/05/20 18:01	
1,2-Dichlorobenzene	ug/kg	<13.1	50.0	10/05/20 18:01	
1,2-Dichloroethane	ug/kg	<13.8	50.0	10/05/20 18:01	
1,2-Dichloropropane	ug/kg	<13.5	50.0	10/05/20 18:01	
1,3,5-Trimethylbenzene	ug/kg	<16.0	53.0	10/05/20 18:01	
1,3-Dichlorobenzene	ug/kg	<13.0	50.0	10/05/20 18:01	
1,3-Dichloropropane	ug/kg	<11.0	50.0	10/05/20 18:01	
1,4-Dichlorobenzene	ug/kg	<12.0	50.0	10/05/20 18:01	
2,2-Dichloropropane	ug/kg	<15.7	52.0	10/05/20 18:01	
2-Chlorotoluene	ug/kg	<19.3	64.0	10/05/20 18:01	
4-Chlorotoluene	ug/kg	<19.3	64.0	10/05/20 18:01	
Benzene	ug/kg	<12.5	42.0	10/05/20 18:01	
Bromobenzene	ug/kg	<18.5	62.0	10/05/20 18:01	
Bromochloromethane	ug/kg	<20.9	70.0	10/05/20 18:01	
Bromodichloromethane	ug/kg	<10.0	50.0	10/05/20 18:01	
Bromoform	ug/kg	<21.6	72.0	10/05/20 18:01	
Bromomethane	ug/kg	<63.8	250	10/05/20 18:01	
Carbon tetrachloride	ug/kg	<7.5	50.0	10/05/20 18:01	
Chlorobenzene	ug/kg	<16.8	56.0	10/05/20 18:01	
Chloroethane	ug/kg	<46.4	250	10/05/20 18:01	
Chloroform	ug/kg	<47.5	250	10/05/20 18:01	
Chloromethane	ug/kg	<24.0	80.0	10/05/20 18:01	
cis-1,2-Dichloroethene	ug/kg	<14.8	50.0	10/05/20 18:01	
cis-1,3-Dichloropropene	ug/kg	<42.3	141	10/05/20 18:01	
Dibromochloromethane	ug/kg	<229	763	10/05/20 18:01	
Dibromomethane	ug/kg	<17.7	59.0	10/05/20 18:01	
Dichlorodifluoromethane	ug/kg	<21.7	72.0	10/05/20 18:01	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

METHOD BLANK: 2122800 Matrix: Solid

Associated Lab Samples: 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	<14.0	50.0	10/05/20 18:01	
Ethylbenzene	ug/kg	<14.5	50.0	10/05/20 18:01	
Hexachloro-1,3-butadiene	ug/kg	<68.7	229	10/05/20 18:01	
Isopropylbenzene (Cumene)	ug/kg	<17.7	59.0	10/05/20 18:01	
m&p-Xylene	ug/kg	<32.4	108	10/05/20 18:01	
Methyl-tert-butyl ether	ug/kg	<16.2	54.0	10/05/20 18:01	
Methylene Chloride	ug/kg	<26.3	88.0	10/05/20 18:01	
n-Butylbenzene	ug/kg	<30.0	100	10/05/20 18:01	
n-Propylbenzene	ug/kg	<17.8	59.0	10/05/20 18:01	
Naphthalene	ug/kg	<27.3	91.0	10/05/20 18:01	
o-Xylene	ug/kg	<18.1	60.0	10/05/20 18:01	
p-Isopropyltoluene	ug/kg	<21.7	72.0	10/05/20 18:01	
sec-Butylbenzene	ug/kg	<21.5	72.0	10/05/20 18:01	
Styrene	ug/kg	<12.3	50.0	10/05/20 18:01	
tert-Butylbenzene	ug/kg	<18.7	62.0	10/05/20 18:01	
Tetrachloroethene	ug/kg	<38.7	129	10/05/20 18:01	
Toluene	ug/kg	<13.1	50.0	10/05/20 18:01	
trans-1,2-Dichloroethene	ug/kg	<20.2	67.0	10/05/20 18:01	
trans-1,3-Dichloropropene	ug/kg	<22.2	74.0	10/05/20 18:01	
Trichloroethene	ug/kg	<12.8	50.0	10/05/20 18:01	
Trichlorofluoromethane	ug/kg	<19.6	65.0	10/05/20 18:01	
Vinyl chloride	ug/kg	<14.5	50.0	10/05/20 18:01	
4-Bromofluorobenzene (S)	%	83	52-137	10/05/20 18:01	
Dibromofluoromethane (S)	%	96	58-145	10/05/20 18:01	
Toluene-d8 (S)	%	98	56-140	10/05/20 18:01	

LABORATORY CONTROL SAMPLE: 2122801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2180	87	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2460	98	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2630	105	70-130	
1,1-Dichloroethane	ug/kg	2500	2450	98	69-143	
1,1-Dichloroethene	ug/kg	2500	2190	88	73-118	
1,2,4-Trichlorobenzene	ug/kg	2500	2070	83	60-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1840	74	66-130	
1,2-Dibromoethane (EDB)	ug/kg	2500	2670	107	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2700	108	70-130	
1,2-Dichloroethane	ug/kg	2500	2300	92	70-130	
1,2-Dichloropropane	ug/kg	2500	2860	114	78-126	
1,3-Dichlorobenzene	ug/kg	2500	2690	107	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2650	106	70-130	
Benzene	ug/kg	2500	2330	93	70-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

LABORATORY CONTROL SAMPLE: 2122801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/kg	2500	2390	96	70-130	
Bromoform	ug/kg	2500	2250	90	67-130	
Bromomethane	ug/kg	2500	1950	78	45-134	
Carbon tetrachloride	ug/kg	2500	2280	91	70-130	
Chlorobenzene	ug/kg	2500	2680	107	70-130	
Chloroethane	ug/kg	2500	2850	114	58-143	
Chloroform	ug/kg	2500	2330	93	76-122	
Chloromethane	ug/kg	2500	2340	94	45-120	
cis-1,2-Dichloroethene	ug/kg	2500	2340	94	69-130	
cis-1,3-Dichloropropene	ug/kg	2500	2260	90	70-130	
Dibromochloromethane	ug/kg	2500	2620	105	70-130	
Dichlorodifluoromethane	ug/kg	2500	1410	56	26-99	
Ethylbenzene	ug/kg	2500	2480	99	80-120	
Isopropylbenzene (Cumene)	ug/kg	2500	2550	102	70-130	
m&p-Xylene	ug/kg	5000	5380	108	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2020	81	70-130	
Methylene Chloride	ug/kg	2500	2320	93	70-130	
o-Xylene	ug/kg	2500	2660	106	70-130	
Styrene	ug/kg	2500	2780	111	70-130	
Tetrachloroethene	ug/kg	2500	2590	104	70-130	
Toluene	ug/kg	2500	2630	105	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2290	92	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2210	89	70-130	
Trichloroethene	ug/kg	2500	2550	102	70-130	
Trichlorofluoromethane	ug/kg	2500	2340	94	70-128	
Vinyl chloride	ug/kg	2500	2340	94	53-110	
4-Bromofluorobenzene (S)	%			99	52-137	
Dibromofluoromethane (S)	%			102	58-145	
Toluene-d8 (S)	%			104	56-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2122802 2122803

Parameter	Units	40215420008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	1380	1380	1080	1120	78	82	66-130	4	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1380	1380	1330	1360	96	99	70-133	3	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1380	1380	1330	1380	97	100	70-130	4	20	
1,1-Dichloroethane	ug/kg	<25.0	1380	1380	1290	1310	94	96	69-143	2	20	
1,1-Dichloroethene	ug/kg	<25.0	1380	1380	1110	1090	81	79	58-120	2	20	
1,2,4-Trichlorobenzene	ug/kg	<41.7	1380	1380	1210	1200	88	87	60-130	0	20	
1,2-Dibromo-3-chloropropane	ug/kg	<237	1380	1380	914	898	66	65	59-136	2	20	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1380	1380	1360	1400	99	102	70-130	2	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1380	1380	1390	1450	101	105	70-130	4	20	
1,2-Dichloroethane	ug/kg	<25.0	1380	1380	1210	1220	88	89	70-136	1	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2122802 2122803

Parameter	Units	40215420008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloropropane	ug/kg	<25.0	1380	1380	1440	1530	105	111	78-128	6	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1380	1380	1380	1420	101	104	70-130	3	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1380	1380	1380	1450	101	105	70-130	5	20	
Benzene	ug/kg	<25.0	1380	1380	1220	1240	89	90	70-130	1	20	
Bromodichloromethane	ug/kg	<25.0	1380	1380	1160	1220	85	89	70-130	5	20	
Bromoform	ug/kg	<25.0	1380	1380	1130	1170	82	85	63-130	3	20	
Bromomethane	ug/kg	<63.8	1380	1380	1090	1130	79	82	33-146	3	20	
Carbon tetrachloride	ug/kg	<25.0	1380	1380	1140	1140	83	83	65-130	0	20	
Chlorobenzene	ug/kg	<25.0	1380	1380	1380	1410	100	103	70-130	2	20	
Chloroethane	ug/kg	<46.4	1380	1380	1460	1440	106	104	46-156	2	20	
Chloroform	ug/kg	<47.5	1380	1380	1210	1240	88	90	75-130	3	20	
Chloromethane	ug/kg	<25.0	1380	1380	1140	1170	83	85	20-139	2	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1380	1380	1200	1250	87	91	69-130	5	20	
cis-1,3-Dichloropropene	ug/kg	<42.3	1380	1380	1090	1150	80	84	70-130	5	20	
Dibromochloromethane	ug/kg	<229	1380	1380	1280	1310	93	95	70-130	3	20	
Dichlorodifluoromethane	ug/kg	<25.0	1380	1380	687	710	50	52	10-99	3	22	
Ethylbenzene	ug/kg	<25.0	1380	1380	1240	1290	90	94	80-120	4	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1380	1380	1290	1310	94	95	70-130	1	20	
m&p-Xylene	ug/kg	<50.0	2750	2750	2690	2770	97	100	70-130	3	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1380	1380	1050	1080	76	78	70-130	2	20	
Methylene Chloride	ug/kg	<26.3	1380	1380	1160	1240	84	90	70-136	7	20	
o-Xylene	ug/kg	<25.0	1380	1380	1350	1380	97	99	70-130	2	20	
Styrene	ug/kg	<25.0	1380	1380	1330	1390	97	101	70-130	5	20	
Tetrachloroethene	ug/kg	<38.7	1380	1380	1320	1340	96	97	68-130	1	20	
Toluene	ug/kg	<25.0	1380	1380	1350	1380	97	99	80-120	2	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1380	1380	1200	1200	88	87	70-130	0	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1380	1380	1070	1110	78	81	70-130	4	20	
Trichloroethene	ug/kg	<25.0	1380	1380	1320	1350	96	98	70-130	3	20	
Trichlorofluoromethane	ug/kg	<25.0	1380	1380	1170	1170	85	85	53-128	0	20	
Vinyl chloride	ug/kg	<25.0	1380	1380	1150	1160	83	84	32-118	1	20	
4-Bromofluorobenzene (S)	%						91	80	52-137			
Dibromofluoromethane (S)	%						96	87	58-145			
Toluene-d8 (S)	%						99	87	56-140			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

QC Batch: 367350
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215420001, 40215420012, 40215420013, 40215420014, 40215420015, 40215420016

METHOD BLANK: 2123577 Matrix: Solid
Associated Lab Samples: 40215420001, 40215420012, 40215420013, 40215420014, 40215420015, 40215420016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<7.8	50.0	10/05/20 10:10	
1,1,1-Trichloroethane	ug/kg	<13.5	50.0	10/05/20 10:10	
1,1,2,2-Tetrachloroethane	ug/kg	<15.7	52.0	10/05/20 10:10	
1,1,2-Trichloroethane	ug/kg	<15.7	52.0	10/05/20 10:10	
1,1-Dichloroethane	ug/kg	<13.5	50.0	10/05/20 10:10	
1,1-Dichloroethene	ug/kg	<11.8	50.0	10/05/20 10:10	
1,1-Dichloropropene	ug/kg	<10.7	50.0	10/05/20 10:10	
1,2,3-Trichlorobenzene	ug/kg	<47.3	158	10/05/20 10:10	
1,2,3-Trichloropropane	ug/kg	<37.4	125	10/05/20 10:10	
1,2,4-Trichlorobenzene	ug/kg	<41.7	250	10/05/20 10:10	
1,2,4-Trimethylbenzene	ug/kg	<18.1	60.0	10/05/20 10:10	
1,2-Dibromo-3-chloropropane	ug/kg	<237	789	10/05/20 10:10	
1,2-Dibromoethane (EDB)	ug/kg	<17.0	57.0	10/05/20 10:10	
1,2-Dichlorobenzene	ug/kg	<13.1	50.0	10/05/20 10:10	
1,2-Dichloroethane	ug/kg	<13.8	50.0	10/05/20 10:10	
1,2-Dichloropropane	ug/kg	<13.5	50.0	10/05/20 10:10	
1,3,5-Trimethylbenzene	ug/kg	<16.0	53.0	10/05/20 10:10	
1,3-Dichlorobenzene	ug/kg	<13.0	50.0	10/05/20 10:10	
1,3-Dichloropropane	ug/kg	<11.0	50.0	10/05/20 10:10	
1,4-Dichlorobenzene	ug/kg	<12.0	50.0	10/05/20 10:10	
2,2-Dichloropropane	ug/kg	<15.7	52.0	10/05/20 10:10	
2-Chlorotoluene	ug/kg	<19.3	64.0	10/05/20 10:10	
4-Chlorotoluene	ug/kg	<19.3	64.0	10/05/20 10:10	
Benzene	ug/kg	<12.5	42.0	10/05/20 10:10	
Bromobenzene	ug/kg	<18.5	62.0	10/05/20 10:10	
Bromochloromethane	ug/kg	<20.9	70.0	10/05/20 10:10	
Bromodichloromethane	ug/kg	<10.0	50.0	10/05/20 10:10	
Bromoform	ug/kg	<21.6	72.0	10/05/20 10:10	
Bromomethane	ug/kg	<63.8	250	10/05/20 10:10	
Carbon tetrachloride	ug/kg	<7.5	50.0	10/05/20 10:10	
Chlorobenzene	ug/kg	<16.8	56.0	10/05/20 10:10	
Chloroethane	ug/kg	<46.4	250	10/05/20 10:10	
Chloroform	ug/kg	<47.5	250	10/05/20 10:10	
Chloromethane	ug/kg	<24.0	80.0	10/05/20 10:10	
cis-1,2-Dichloroethene	ug/kg	<14.8	50.0	10/05/20 10:10	
cis-1,3-Dichloropropene	ug/kg	<42.3	141	10/05/20 10:10	
Dibromochloromethane	ug/kg	<229	763	10/05/20 10:10	
Dibromomethane	ug/kg	<17.7	59.0	10/05/20 10:10	
Dichlorodifluoromethane	ug/kg	<21.7	72.0	10/05/20 10:10	
Diisopropyl ether	ug/kg	<14.0	50.0	10/05/20 10:10	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

METHOD BLANK: 2123577 Matrix: Solid
Associated Lab Samples: 40215420001, 40215420012, 40215420013, 40215420014, 40215420015, 40215420016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<14.5	50.0	10/05/20 10:10	
Hexachloro-1,3-butadiene	ug/kg	<68.7	229	10/05/20 10:10	
Isopropylbenzene (Cumene)	ug/kg	<17.7	59.0	10/05/20 10:10	
m&p-Xylene	ug/kg	<32.4	108	10/05/20 10:10	
Methyl-tert-butyl ether	ug/kg	<16.2	54.0	10/05/20 10:10	
Methylene Chloride	ug/kg	<26.3	88.0	10/05/20 10:10	
n-Butylbenzene	ug/kg	<30.0	100	10/05/20 10:10	
n-Propylbenzene	ug/kg	<17.8	59.0	10/05/20 10:10	
Naphthalene	ug/kg	<27.3	91.0	10/05/20 10:10	
o-Xylene	ug/kg	<18.1	60.0	10/05/20 10:10	
p-Isopropyltoluene	ug/kg	<21.7	72.0	10/05/20 10:10	
sec-Butylbenzene	ug/kg	<21.5	72.0	10/05/20 10:10	
Styrene	ug/kg	<12.3	50.0	10/05/20 10:10	
tert-Butylbenzene	ug/kg	<18.7	62.0	10/05/20 10:10	
Tetrachloroethene	ug/kg	<38.7	129	10/05/20 10:10	
Toluene	ug/kg	<13.1	50.0	10/05/20 10:10	
trans-1,2-Dichloroethene	ug/kg	<20.2	67.0	10/05/20 10:10	
trans-1,3-Dichloropropene	ug/kg	<22.2	74.0	10/05/20 10:10	
Trichloroethene	ug/kg	<12.8	50.0	10/05/20 10:10	
Trichlorofluoromethane	ug/kg	<19.6	65.0	10/05/20 10:10	
Vinyl chloride	ug/kg	<14.5	50.0	10/05/20 10:10	
4-Bromofluorobenzene (S)	%	79	52-137	10/05/20 10:10	
Dibromofluoromethane (S)	%	87	58-145	10/05/20 10:10	
Toluene-d8 (S)	%	93	56-140	10/05/20 10:10	

LABORATORY CONTROL SAMPLE: 2123578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2040	82	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2270	91	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2370	95	70-130	
1,1-Dichloroethane	ug/kg	2500	2250	90	69-143	
1,1-Dichloroethene	ug/kg	2500	2010	80	73-118	
1,2,4-Trichlorobenzene	ug/kg	2500	2050	82	60-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1670	67	66-130	
1,2-Dibromoethane (EDB)	ug/kg	2500	2420	97	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2470	99	70-130	
1,2-Dichloroethane	ug/kg	2500	2120	85	70-130	
1,2-Dichloropropane	ug/kg	2500	2540	102	78-126	
1,3-Dichlorobenzene	ug/kg	2500	2440	98	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2430	97	70-130	
Benzene	ug/kg	2500	2130	85	70-130	
Bromodichloromethane	ug/kg	2500	2180	87	70-130	
Bromoform	ug/kg	2500	2060	83	67-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

LABORATORY CONTROL SAMPLE: 2123578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/kg	2500	1820	73	45-134	
Carbon tetrachloride	ug/kg	2500	2100	84	70-130	
Chlorobenzene	ug/kg	2500	2470	99	70-130	
Chloroethane	ug/kg	2500	2560	102	58-143	
Chloroform	ug/kg	2500	2120	85	76-122	
Chloromethane	ug/kg	2500	2050	82	45-120	
cis-1,2-Dichloroethene	ug/kg	2500	2160	86	69-130	
cis-1,3-Dichloropropene	ug/kg	2500	2120	85	70-130	
Dibromochloromethane	ug/kg	2500	2420	97	70-130	
Dichlorodifluoromethane	ug/kg	2500	1460	58	26-99	
Ethylbenzene	ug/kg	2500	2330	93	80-120	
Isopropylbenzene (Cumene)	ug/kg	2500	2410	96	70-130	
m&p-Xylene	ug/kg	5000	4970	99	70-130	
Methyl-tert-butyl ether	ug/kg	2500	1830	73	70-130	
Methylene Chloride	ug/kg	2500	2070	83	70-130	
o-Xylene	ug/kg	2500	2420	97	70-130	
Styrene	ug/kg	2500	2500	100	70-130	
Tetrachloroethene	ug/kg	2500	2460	99	70-130	
Toluene	ug/kg	2500	2390	95	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2070	83	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2030	81	70-130	
Trichloroethene	ug/kg	2500	2380	95	70-130	
Trichlorofluoromethane	ug/kg	2500	2180	87	70-128	
Vinyl chloride	ug/kg	2500	2100	84	53-110	
4-Bromofluorobenzene (S)	%			86	52-137	
Dibromofluoromethane (S)	%			90	58-145	
Toluene-d8 (S)	%			92	56-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2123579 2123580

Parameter	Units	40215420014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	1380	1380	1140	1210	83	87	66-130	6	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1380	1380	1320	1380	96	100	70-133	4	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1380	1380	1430	1440	103	104	70-130	1	20	
1,1-Dichloroethane	ug/kg	<25.0	1380	1380	1300	1350	94	98	69-143	4	20	
1,1-Dichloroethene	ug/kg	<25.0	1380	1380	1130	1200	82	87	58-120	6	20	
1,2,4-Trichlorobenzene	ug/kg	<41.7	1380	1380	1280	1270	93	92	60-130	1	20	
1,2-Dibromo-3-chloropropane	ug/kg	<237	1380	1380	971	989	70	72	59-136	2	20	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1380	1380	1450	1450	105	105	70-130	0	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1380	1380	1410	1440	102	104	70-130	3	20	
1,2-Dichloroethane	ug/kg	<25.0	1380	1380	1200	1260	87	91	70-136	5	20	
1,2-Dichloropropane	ug/kg	<25.0	1380	1380	1480	1500	107	109	78-128	1	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1380	1380	1490	1420	108	103	70-130	4	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2123579 2123580

Parameter	Units	40215420014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/kg	<25.0	1380	1380	1510	1450	109	105	70-130	4	20	
Benzene	ug/kg	<25.0	1380	1380	1270	1290	90	92	70-130	2	20	
Bromodichloromethane	ug/kg	<25.0	1380	1380	1260	1270	91	92	70-130	0	20	
Bromoform	ug/kg	<25.0	1380	1380	1230	1220	89	88	63-130	0	20	
Bromomethane	ug/kg	<63.8	1380	1380	1120	1140	81	83	33-146	2	20	
Carbon tetrachloride	ug/kg	<25.0	1380	1380	1170	1250	84	90	65-130	7	20	
Chlorobenzene	ug/kg	<25.0	1380	1380	1440	1440	104	104	70-130	0	20	
Chloroethane	ug/kg	<46.4	1380	1380	1430	1490	103	108	46-156	5	20	
Chloroform	ug/kg	<47.5	1380	1380	1240	1270	90	92	75-130	2	20	
Chloromethane	ug/kg	<25.0	1380	1380	1050	1110	76	81	20-139	6	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1380	1380	1240	1270	90	92	69-130	3	20	
cis-1,3-Dichloropropene	ug/kg	<42.3	1380	1380	1210	1210	88	87	70-130	0	20	
Dibromochloromethane	ug/kg	<229	1380	1380	1390	1380	101	100	70-130	1	20	
Dichlorodifluoromethane	ug/kg	<25.0	1380	1380	683	741	49	54	10-99	8	22	
Ethylbenzene	ug/kg	<25.0	1380	1380	1340	1360	95	96	80-120	1	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1380	1380	1370	1360	99	99	70-130	0	20	
m&p-Xylene	ug/kg	96.6J	2770	2770	2920	2940	102	103	70-130	1	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1380	1380	1070	1110	77	80	70-130	3	20	
Methylene Chloride	ug/kg	<26.3	1380	1380	1190	1220	86	88	70-136	3	20	
o-Xylene	ug/kg	49.4J	1380	1380	1430	1460	100	102	70-130	2	20	
Styrene	ug/kg	<25.0	1380	1380	1420	1420	103	103	70-130	0	20	
Tetrachloroethene	ug/kg	<38.7	1380	1380	1480	1420	107	102	68-130	4	20	
Toluene	ug/kg	116	1380	1380	1530	1510	102	101	80-120	1	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1380	1380	1210	1250	88	91	70-130	3	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1380	1380	1160	1210	84	88	70-130	4	20	
Trichloroethene	ug/kg	<25.0	1380	1380	1380	1390	100	100	70-130	1	20	
Trichlorofluoromethane	ug/kg	<25.0	1380	1380	1200	1280	86	93	53-128	7	20	
Vinyl chloride	ug/kg	<25.0	1380	1380	1100	1160	79	84	32-118	5	20	
4-Bromofluorobenzene (S)	%						86	86	52-137			
Dibromofluoromethane (S)	%						91	92	58-145			
Toluene-d8 (S)	%						96	93	56-140			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

QC Batch: 701891
QC Batch Method: EPA 3550
Analysis Method: EPA 8081B
Analysis Description: 8081S GCS Pesticides
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 40215420001, 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

METHOD BLANK: 3749372 Matrix: Solid
Associated Lab Samples: 40215420001, 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/kg	<0.39	1.3	10/02/20 13:36	
4,4'-DDE	ug/kg	<0.36	1.2	10/02/20 13:36	
4,4'-DDT	ug/kg	<0.82	2.7	10/02/20 13:36	
Aldrin	ug/kg	<0.54	1.8	10/02/20 13:36	
alpha-BHC	ug/kg	<0.23	0.76	10/02/20 13:36	
alpha-Chlordane	ug/kg	<0.23	0.77	10/02/20 13:36	
beta-BHC	ug/kg	<0.38	1.3	10/02/20 13:36	
Chlordane (Technical)	ug/kg	<5.5	18.3	10/02/20 13:36	
delta-BHC	ug/kg	<0.29	0.97	10/02/20 13:36	
Dieldrin	ug/kg	<0.35	1.2	10/02/20 13:36	
Endosulfan I	ug/kg	<0.28	0.93	10/02/20 13:36	
Endosulfan II	ug/kg	<0.55	1.8	10/02/20 13:36	
Endosulfan sulfate	ug/kg	<0.67	2.2	10/02/20 13:36	
Endrin	ug/kg	<0.38	1.3	10/02/20 13:36	
Endrin aldehyde	ug/kg	<0.75	2.5	10/02/20 13:36	
Endrin ketone	ug/kg	<0.92	3.1	10/02/20 13:36	
gamma-BHC (Lindane)	ug/kg	<0.21	0.71	10/02/20 13:36	
gamma-Chlordane	ug/kg	<0.54	1.8	10/02/20 13:36	
Heptachlor	ug/kg	<0.38	1.3	10/02/20 13:36	
Heptachlor epoxide	ug/kg	<0.26	0.86	10/02/20 13:36	
Methoxychlor	ug/kg	<5.5	18.4	10/02/20 13:36	
Toxaphene	ug/kg	<14.8	49.3	10/02/20 13:36	
Decachlorobiphenyl (S)	%.	93	30-150	10/02/20 13:36	
Tetrachloro-m-xylene (S)	%.	95	30-150	10/02/20 13:36	

LABORATORY CONTROL SAMPLE & LCSD: 3749373 3749782

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
4,4'-DDD	ug/kg	33.3	32.6	33.8	98	101	71-125	3	20	
4,4'-DDE	ug/kg	33.3	35.8	37.2	108	112	75-128	4	20	
4,4'-DDT	ug/kg	33.3	38.6	39.8	116	119	70-136	3	20	
Aldrin	ug/kg	16.7	15.4	16.1	93	96	66-132	4	20	
alpha-BHC	ug/kg	16.7	14.5	15.3	87	92	64-133	5	20	
alpha-Chlordane	ug/kg	16.7	16.4	17.0	98	102	70-126	4	20	
beta-BHC	ug/kg	16.7	15.3	16.0	92	96	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

LABORATORY CONTROL SAMPLE & LCSD: 3749373 3749782

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
delta-BHC	ug/kg	16.7	8.7	9.0	52	54	30-143	3	20	
Dieldrin	ug/kg	33.3	30.8	31.9	92	96	75-127	4	20	
Endosulfan I	ug/kg	16.7	15.8	16.4	95	99	57-135	4	20	
Endosulfan II	ug/kg	33.3	32.4	33.6	97	101	68-131	4	20	
Endosulfan sulfate	ug/kg	33.3	29.5	30.5	89	91	65-132	3	20	
Endrin	ug/kg	33.3	33.9	35.1	102	105	74-132	3	20	
Endrin aldehyde	ug/kg	33.3	31.9	32.9	96	99	75-125	3	20	
Endrin ketone	ug/kg	33.3	32.1	33.3	96	100	69-133	4	20	
gamma-BHC (Lindane)	ug/kg	16.7	15.3	16.0	92	96	66-130	5	20	
gamma-Chlordane	ug/kg	16.7	16.3	16.8	98	101	66-128	3	20	
Heptachlor	ug/kg	16.7	15.8	16.2	95	97	70-128	2	20	
Heptachlor epoxide	ug/kg	16.7	15.6	16.2	94	97	67-130	3	20	
Methoxychlor	ug/kg	167	188	194	113	117	64-144	3	20	
Decachlorobiphenyl (S)	%.				98	101	30-150			
Tetrachloro-m-xylene (S)	%.				96	99	30-150			

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

QC Batch: 366724
QC Batch Method: EPA 3541
Analysis Method: EPA 8082A
Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215420001, 40215420002, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

METHOD BLANK: 2119870 Matrix: Solid
Associated Lab Samples: 40215420001, 40215420002, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<15.2	50.0	09/29/20 12:00	
PCB-1221 (Aroclor 1221)	ug/kg	<15.2	50.0	09/29/20 12:00	
PCB-1232 (Aroclor 1232)	ug/kg	<15.2	50.0	09/29/20 12:00	
PCB-1242 (Aroclor 1242)	ug/kg	<15.2	50.0	09/29/20 12:00	
PCB-1248 (Aroclor 1248)	ug/kg	<15.2	50.0	09/29/20 12:00	
PCB-1254 (Aroclor 1254)	ug/kg	<15.2	50.0	09/29/20 12:00	
PCB-1260 (Aroclor 1260)	ug/kg	<15.2	50.0	09/29/20 12:00	
Decachlorobiphenyl (S)	%	98	62-104	09/29/20 12:00	
Tetrachloro-m-xylene (S)	%	93	69-115	09/29/20 12:00	

LABORATORY CONTROL SAMPLE: 2119871

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	487	97	59-119	
Decachlorobiphenyl (S)	%			98	62-104	
Tetrachloro-m-xylene (S)	%			93	69-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2119872 2119873

Parameter	Units	40215420007 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	<16.2			<16.2	<16.2					20	
PCB-1221 (Aroclor 1221)	ug/kg	<16.2			<16.2	<16.2					20	
PCB-1232 (Aroclor 1232)	ug/kg	<16.2			<16.2	<16.2					20	
PCB-1242 (Aroclor 1242)	ug/kg	<16.2			<16.2	<16.2					20	
PCB-1248 (Aroclor 1248)	ug/kg	<16.2			<16.2	<16.2					20	
PCB-1254 (Aroclor 1254)	ug/kg	22.7J			<16.2	<16.2					20	
PCB-1260 (Aroclor 1260)	ug/kg	<16.2	531	532	458	460	86	86	55-123	1	20	
Decachlorobiphenyl (S)	%						87	87	62-104			
Tetrachloro-m-xylene (S)	%						85	88	69-115			

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QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

QC Batch: 366951
QC Batch Method: EPA 3541
Analysis Method: EPA 8082A
Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215420003

METHOD BLANK: 2121139 Matrix: Solid
Associated Lab Samples: 40215420003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<15.2	50.0	10/01/20 19:21	
PCB-1221 (Aroclor 1221)	ug/kg	<15.2	50.0	10/01/20 19:21	
PCB-1232 (Aroclor 1232)	ug/kg	<15.2	50.0	10/01/20 19:21	
PCB-1242 (Aroclor 1242)	ug/kg	<15.2	50.0	10/01/20 19:21	
PCB-1248 (Aroclor 1248)	ug/kg	<15.2	50.0	10/01/20 19:21	
PCB-1254 (Aroclor 1254)	ug/kg	<15.2	50.0	10/01/20 19:21	
PCB-1260 (Aroclor 1260)	ug/kg	<15.2	50.0	10/01/20 19:21	
Decachlorobiphenyl (S)	%	93	62-104	10/01/20 19:21	
Tetrachloro-m-xylene (S)	%	88	69-115	10/01/20 19:21	

LABORATORY CONTROL SAMPLE: 2121140

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	451	90	59-119	
Decachlorobiphenyl (S)	%			95	62-104	
Tetrachloro-m-xylene (S)	%			88	69-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2121141 2121142

Parameter	Units	40215534074 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	ND			<16.8	<16.8					20	
PCB-1221 (Aroclor 1221)	ug/kg	ND			<16.8	<16.8					20	
PCB-1232 (Aroclor 1232)	ug/kg	ND			<16.8	<16.8					20	
PCB-1242 (Aroclor 1242)	ug/kg	ND			<16.8	<16.8					20	
PCB-1248 (Aroclor 1248)	ug/kg	ND			<16.8	<16.8					20	
PCB-1254 (Aroclor 1254)	ug/kg	ND			<16.8	<16.8					20	
PCB-1260 (Aroclor 1260)	ug/kg	ND	553	551	436	458	79	83	55-123	5	20	
Decachlorobiphenyl (S)	%						85	88	62-104			
Tetrachloro-m-xylene (S)	%						82	85	69-115			

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QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

QC Batch: 367157
QC Batch Method: EPA 3546
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215420001, 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

METHOD BLANK: 2122349 Matrix: Solid
Associated Lab Samples: 40215420001, 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.4	16.7	10/02/20 11:07	
2-Methylnaphthalene	ug/kg	<2.4	16.7	10/02/20 11:07	
Acenaphthene	ug/kg	<2.2	16.7	10/02/20 11:07	
Acenaphthylene	ug/kg	<2.1	16.7	10/02/20 11:07	
Anthracene	ug/kg	<2.1	16.7	10/02/20 11:07	
Benzo(a)anthracene	ug/kg	<2.2	16.7	10/02/20 11:07	
Benzo(a)pyrene	ug/kg	<1.9	16.7	10/02/20 11:07	
Benzo(b)fluoranthene	ug/kg	<2.3	16.7	10/02/20 11:07	
Benzo(g,h,i)perylene	ug/kg	<2.9	16.7	10/02/20 11:07	
Benzo(k)fluoranthene	ug/kg	<2.1	16.7	10/02/20 11:07	
Chrysene	ug/kg	<3.1	16.7	10/02/20 11:07	
Dibenz(a,h)anthracene	ug/kg	<2.3	16.7	10/02/20 11:07	
Fluoranthene	ug/kg	<2.0	16.7	10/02/20 11:07	
Fluorene	ug/kg	<2.0	16.7	10/02/20 11:07	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.5	16.7	10/02/20 11:07	
Naphthalene	ug/kg	<1.6	16.7	10/02/20 11:07	
Phenanthrene	ug/kg	<1.9	16.7	10/02/20 11:07	
Pyrene	ug/kg	<2.5	16.7	10/02/20 11:07	
2-Fluorobiphenyl (S)	%	77	17-100	10/02/20 11:07	
Terphenyl-d14 (S)	%	96	17-98	10/02/20 11:07	

LABORATORY CONTROL SAMPLE: 2122350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	334	264	79	58-101	
2-Methylnaphthalene	ug/kg	334	262	78	59-101	
Acenaphthene	ug/kg	334	262	79	62-97	
Acenaphthylene	ug/kg	334	264	79	67-102	
Anthracene	ug/kg	334	286	86	69-120	
Benzo(a)anthracene	ug/kg	334	251	75	59-101	
Benzo(a)pyrene	ug/kg	334	326	98	70-110	
Benzo(b)fluoranthene	ug/kg	334	304	91	66-111	
Benzo(g,h,i)perylene	ug/kg	334	302	90	64-106	
Benzo(k)fluoranthene	ug/kg	334	313	94	65-108	
Chrysene	ug/kg	334	276	83	61-102	

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QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

LABORATORY CONTROL SAMPLE: 2122350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibenz(a,h)anthracene	ug/kg	334	308	92	64-120	
Fluoranthene	ug/kg	334	284	85	69-120	
Fluorene	ug/kg	334	280	84	70-99	
Indeno(1,2,3-cd)pyrene	ug/kg	334	309	93	66-120	
Naphthalene	ug/kg	334	250	75	60-95	
Phenanthrene	ug/kg	334	269	81	66-98	
Pyrene	ug/kg	334	266	80	63-120	
2-Fluorobiphenyl (S)	%			74	17-100	
Terphenyl-d14 (S)	%			86	17-98	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2122351 2122352

Parameter	Units	40215403015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	<2.5	347	348	241	236	69	67	48-101	2	25	
2-Methylnaphthalene	ug/kg	3.8J	347	348	241	237	68	67	46-101	2	21	
Acenaphthene	ug/kg	9.3J	347	348	229	223	63	62	52-97	3	20	
Acenaphthylene	ug/kg	<2.2	347	348	221	223	63	64	51-102	1	20	
Anthracene	ug/kg	15.9J	347	348	243	232	65	62	54-120	4	20	
Benzo(a)anthracene	ug/kg	48.4	347	348	240	225	55	51	34-101	6	22	
Benzo(a)pyrene	ug/kg	60.1	347	348	306	276	71	62	46-110	10	25	
Benzo(b)fluoranthene	ug/kg	80.8	347	348	344	283	76	58	40-111	19	23	
Benzo(g,h,i)perylene	ug/kg	55.2	347	348	235	225	52	49	40-120	4	24	
Benzo(k)fluoranthene	ug/kg	34.9	347	348	272	287	68	73	47-108	5	24	
Chrysene	ug/kg	56.6	347	348	264	230	60	50	35-115	14	20	
Dibenz(a,h)anthracene	ug/kg	10.1J	347	348	237	236	65	65	46-120	0	21	
Fluoranthene	ug/kg	126	347	348	332	267	60	41	52-120	22	23	M1
Fluorene	ug/kg	7.6J	347	348	241	239	67	67	54-99	1	20	
Indeno(1,2,3-cd)pyrene	ug/kg	32.4	347	348	242	237	61	59	46-120	2	22	
Naphthalene	ug/kg	2.2J	347	348	222	221	63	63	46-95	0	23	
Phenanthrene	ug/kg	76.0	347	348	283	238	60	47	51-98	17	20	M1
Pyrene	ug/kg	82.3	347	348	255	215	50	38	46-120	17	24	M1
2-Fluorobiphenyl (S)	%						62	61	17-100			
Terphenyl-d14 (S)	%						66	66	17-98			

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: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

QC Batch: 366719
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: 40215420001, 40215420002

SAMPLE DUPLICATE: 2119853

Parameter	Units	40215367007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.5	5.1	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: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

QC Batch: 366720
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: 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

SAMPLE DUPLICATE: 2119865

Parameter	Units	40215424001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.6	4.7	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

QUALIFIERS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

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.

BATCH QUALIFIERS

Batch: 702177

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
W	Non-detect results are reported on a wet weight basis.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40215420001	**GP-1, 0.2-5.5'**	EPA 3550	701891	EPA 8081B	702177
40215420002	**GP-4, 0.0-4.0'**	EPA 3550	701891	EPA 8081B	702177
40215420003	**GP-6, 0.2-5.0'**	EPA 3550	701891	EPA 8081B	702177
40215420004	**GP-10, 0.3-4.0'**	EPA 3550	701891	EPA 8081B	702177
40215420005	**GP-11, 0.3-4.5'**	EPA 3550	701891	EPA 8081B	702177
40215420006	**GP-3, 0.1-4.0'**	EPA 3550	701891	EPA 8081B	702177
40215420007	**GP-2, 0.2-4.5' UPPER**	EPA 3550	701891	EPA 8081B	702177
40215420008	**GP-2, 0.2-4.5' LOWER**	EPA 3550	701891	EPA 8081B	702177
40215420009	**GP-8, 0.3-6.5'**	EPA 3550	701891	EPA 8081B	702177
40215420010	**GP-7, 0.3-5.0'**	EPA 3550	701891	EPA 8081B	702177
40215420011	**GP-9, 0.2-4.0'**	EPA 3550	701891	EPA 8081B	702177
40215420012	**GP-12, 0.2-5.0'**	EPA 3550	701891	EPA 8081B	702177
40215420013	**GP-12, 5.0-7.5'**	EPA 3550	701891	EPA 8081B	702177
40215420014	**GP-13, 0.2-4.0'**	EPA 3550	701891	EPA 8081B	702177
40215420015	**GP-5, 0.2-4.0'**	EPA 3550	701891	EPA 8081B	702177
40215420001	**GP-1, 0.2-5.5'**	EPA 3541	366724	EPA 8082A	366738
40215420002	**GP-4, 0.0-4.0'**	EPA 3541	366724	EPA 8082A	366738
40215420003	**GP-6, 0.2-5.0'**	EPA 3541	366951	EPA 8082A	367041
40215420004	**GP-10, 0.3-4.0'**	EPA 3541	366724	EPA 8082A	366738
40215420005	**GP-11, 0.3-4.5'**	EPA 3541	366724	EPA 8082A	366738
40215420006	**GP-3, 0.1-4.0'**	EPA 3541	366724	EPA 8082A	366738
40215420007	**GP-2, 0.2-4.5' UPPER**	EPA 3541	366724	EPA 8082A	366738
40215420008	**GP-2, 0.2-4.5' LOWER**	EPA 3541	366724	EPA 8082A	366738
40215420009	**GP-8, 0.3-6.5'**	EPA 3541	366724	EPA 8082A	366738
40215420010	**GP-7, 0.3-5.0'**	EPA 3541	366724	EPA 8082A	366738
40215420011	**GP-9, 0.2-4.0'**	EPA 3541	366724	EPA 8082A	366738
40215420012	**GP-12, 0.2-5.0'**	EPA 3541	366724	EPA 8082A	366738
40215420013	**GP-12, 5.0-7.5'**	EPA 3541	366724	EPA 8082A	366738
40215420014	**GP-13, 0.2-4.0'**	EPA 3541	366724	EPA 8082A	366738
40215420015	**GP-5, 0.2-4.0'**	EPA 3541	366724	EPA 8082A	366738
40215420001	**GP-1, 0.2-5.5'**	EPA 3050	366768	EPA 6020	366844
40215420002	**GP-4, 0.0-4.0'**	EPA 3050	366768	EPA 6020	366844
40215420003	**GP-6, 0.2-5.0'**	EPA 3050	366768	EPA 6020	366844
40215420004	**GP-10, 0.3-4.0'**	EPA 3050	366768	EPA 6020	366844
40215420005	**GP-11, 0.3-4.5'**	EPA 3050	366768	EPA 6020	366844
40215420006	**GP-3, 0.1-4.0'**	EPA 3050	366768	EPA 6020	366844
40215420007	**GP-2, 0.2-4.5' UPPER**	EPA 3050	366768	EPA 6020	366844
40215420008	**GP-2, 0.2-4.5' LOWER**	EPA 3050	366768	EPA 6020	366844
40215420009	**GP-8, 0.3-6.5'**	EPA 3050	366768	EPA 6020	366844
40215420010	**GP-7, 0.3-5.0'**	EPA 3050	366768	EPA 6020	366844
40215420011	**GP-9, 0.2-4.0'**	EPA 3050	366768	EPA 6020	366844
40215420012	**GP-12, 0.2-5.0'**	EPA 3050	366768	EPA 6020	366844
40215420013	**GP-12, 5.0-7.5'**	EPA 3050	366768	EPA 6020	366844
40215420014	**GP-13, 0.2-4.0'**	EPA 3050	366768	EPA 6020	366844
40215420015	**GP-5, 0.2-4.0'**	EPA 3050	366768	EPA 6020	366844
40215420001	**GP-1, 0.2-5.5'**	EPA 7471	367571	EPA 7471	367616

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40215420002	GP-4, 0.0-4.0'	EPA 7471	367571	EPA 7471	367616
40215420003	GP-6, 0.2-5.0'	EPA 7471	367571	EPA 7471	367616
40215420004	GP-10, 0.3-4.0'	EPA 7471	367571	EPA 7471	367616
40215420005	GP-11, 0.3-4.5'	EPA 7471	367571	EPA 7471	367616
40215420006	GP-3, 0.1-4.0'	EPA 7471	367571	EPA 7471	367616
40215420007	GP-2, 0.2-4.5' UPPER	EPA 7471	367571	EPA 7471	367616
40215420008	GP-2, 0.2-4.5' LOWER	EPA 7471	367571	EPA 7471	367616
40215420009	GP-8, 0.3-6.5'	EPA 7471	367571	EPA 7471	367616
40215420010	GP-7, 0.3-5.0'	EPA 7471	367571	EPA 7471	367616
40215420011	GP-9, 0.2-4.0'	EPA 7471	367571	EPA 7471	367616
40215420012	GP-12, 0.2-5.0'	EPA 7471	367571	EPA 7471	367616
40215420013	GP-12, 5.0-7.5'	EPA 7471	367571	EPA 7471	367616
40215420014	GP-13, 0.2-4.0'	EPA 7471	367571	EPA 7471	367616
40215420015	GP-5, 0.2-4.0'	EPA 7471	367571	EPA 7471	367616
40215420001	GP-1, 0.2-5.5'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420002	GP-4, 0.0-4.0'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420003	GP-6, 0.2-5.0'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420004	GP-10, 0.3-4.0'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420005	GP-11, 0.3-4.5'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420006	GP-3, 0.1-4.0'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420007	GP-2, 0.2-4.5' UPPER	EPA 3546	367157	EPA 8270 by SIM	367194
40215420008	GP-2, 0.2-4.5' LOWER	EPA 3546	367157	EPA 8270 by SIM	367194
40215420009	GP-8, 0.3-6.5'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420010	GP-7, 0.3-5.0'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420011	GP-9, 0.2-4.0'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420012	GP-12, 0.2-5.0'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420013	GP-12, 5.0-7.5'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420014	GP-13, 0.2-4.0'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420015	GP-5, 0.2-4.0'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420001	GP-1, 0.2-5.5'	EPA 5035/5030B	367350	EPA 8260	367352
40215420002	GP-4, 0.0-4.0'	EPA 5035/5030B	367217	EPA 8260	367218
40215420003	GP-6, 0.2-5.0'	EPA 5035/5030B	367217	EPA 8260	367218
40215420004	GP-10, 0.3-4.0'	EPA 5035/5030B	367217	EPA 8260	367218
40215420005	GP-11, 0.3-4.5'	EPA 5035/5030B	367217	EPA 8260	367218
40215420006	GP-3, 0.1-4.0'	EPA 5035/5030B	367217	EPA 8260	367218
40215420007	GP-2, 0.2-4.5' UPPER	EPA 5035/5030B	367217	EPA 8260	367218
40215420008	GP-2, 0.2-4.5' LOWER	EPA 5035/5030B	367217	EPA 8260	367218
40215420009	GP-8, 0.3-6.5'	EPA 5035/5030B	367217	EPA 8260	367218
40215420010	GP-7, 0.3-5.0'	EPA 5035/5030B	367217	EPA 8260	367218
40215420011	GP-9, 0.2-4.0'	EPA 5035/5030B	367217	EPA 8260	367218
40215420012	GP-12, 0.2-5.0'	EPA 5035/5030B	367350	EPA 8260	367352
40215420013	GP-12, 5.0-7.5'	EPA 5035/5030B	367350	EPA 8260	367352
40215420014	GP-13, 0.2-4.0'	EPA 5035/5030B	367350	EPA 8260	367352
40215420015	GP-5, 0.2-4.0'	EPA 5035/5030B	367350	EPA 8260	367352
40215420016	MEOH BLANK	EPA 5035/5030B	367350	EPA 8260	367352
40215420001	GP-1, 0.2-5.5'	ASTM D2974-87	366719		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40215420002	**GP-4, 0.0-4.0'**	ASTM D2974-87	366719		
40215420003	**GP-6, 0.2-5.0'**	ASTM D2974-87	366720		
40215420004	**GP-10, 0.3-4.0'**	ASTM D2974-87	366720		
40215420005	**GP-11, 0.3-4.5'**	ASTM D2974-87	366720		
40215420006	**GP-3, 0.1-4.0'**	ASTM D2974-87	366720		
40215420007	**GP-2, 0.2-4.5' UPPER**	ASTM D2974-87	366720		
40215420008	**GP-2, 0.2-4.5' LOWER**	ASTM D2974-87	366720		
40215420009	**GP-8, 0.3-6.5'**	ASTM D2974-87	366720		
40215420010	**GP-7, 0.3-5.0'**	ASTM D2974-87	366720		
40215420011	**GP-9, 0.2-4.0'**	ASTM D2974-87	366720		
40215420012	**GP-12, 0.2-5.0'**	ASTM D2974-87	366720		
40215420013	**GP-12, 5.0-7.5'**	ASTM D2974-87	366720		
40215420014	**GP-13, 0.2-4.0'**	ASTM D2974-87	366720		
40215420015	**GP-5, 0.2-4.0'**	ASTM D2974-87	366720		

4021542O

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

1 of 2

Lab Information:

Lab Name:	Pace Analytical Services, Inc.
Address:	1241 Bellevue Street, Ste. 9, Green Bay, WI 54302
Lab PM:	Tod Noltemeyer
Phone/Fax:	608.232.3300
Lab PM email:	Tod.Noltemeyer@pacelabs.com
Applicable Lab Quote #	

Project Information:

Site ID #:	FMM B34/B35 Supplemental Yard Inv.
Project #:	19M106.20
Site Address:	Fincantieri Marinette Marine 1600 Ely Street
City-State-Zip:	Marinette, WI 54143
Site PM Name:	Denis Roznowski
Phone/Fax:	(920) 496-6756
Sampler Name:	Rick Panosh, Bob Meller

Other Information:

Send invoice to:	invoices@foth.com
Address:	2121 Innovation Ct.
City/State:	De Pere WI 54115
Phone #:	920-496-6687
Foth Project No.:	19M106.20
Send EDD to:	Steve.Lehrke@foth.com
CC Hard copy report to:	
CC Electronic reports (lab report and data in spreadsheet format):	denis.roznowski@foth.com; rick.panosh@foth.com; steve.lehrke@foth.com;

Task: Sediment/Soil Chemistry Sampling

Turn Around Time: Standard

QC level Required: Standard Level II Report

ITEM #	Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	Comments/Lab Sample I.D.	Preservative	Soil/Sediment = MeOH	Soil/Sediment = MeOH	Soil/Sediment = None	Soil/Sediment = None	Soil/Sediment = None	Soil/Sediment = None	Soil/Sediment = None	Soil/Sediment = None		Soil/Sediment = None				
Analysis										VOC (EPA 8260)	PVOC (EPA 8260)	PAH (EPA 8270-SIM)	Total PCBs (EPA 8082A)	RCRA Metals - Total (EPA 6020 & 7471)	Cu and Zn Metals - Total (EPA 6020)	Pesticides EPA 8081B	Percent Moisture		HOLD FOR INSTRUCTIONS				
1	GP-1, 0.2 - 5.5'	GP-1	Soil	C	9/23/20	1310	3			X		X	X	X	X	X	X						001
2	GP-4, 0.0 - 4.0'	GP-4	Soil	C	9/23/20	1515	3			X		X	X	X	X	X	X						002
3	GP-6, 0.2 - 5.0'	GP-6	Soil	C	9/23/20	1702	3			X		X	X	X	X	X	X						003
4	GP-10, 0.3 - 4.0'	GP-10	Soil	C	9/23/20	1205	3			X		X	X	X	X	X	X						004
5	GP-11, 0.3 - 4.5'	GP-11	Soil	C	9/23/20	1114	3			X		X	X	X	X	X	X						005
6	GP-3, 0.1 - 4.0'	GP-3	Soil	C	9/24/20	0836	3			X		X	X	X	X	X	X						006
7	GP-2, 0.2 - 4.5' Upper	GP-2	Soil	C	9/24/20	1040	3			X		X	X	X	X	X	X						007
8	GP-2, 0.2 - 4.5' Lower	GP-2	Soil	C	9/24/20	1040	3			X		X	X	X	X	X	X						008
9	GP-8, 0.3 - 6.5'	GP-8	Soil	C	9/24/20	1055	3			X		X	X	X	X	X	X						009
10	GP-7, 0.3 - 5.0'	GP-7	Soil	C	9/24/20	1108	3			X		X	X	X	X	X	X						010

Additional Comments/Special Instructions:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[illegible]	9-25-20	1512	Sam Kipp Pace	9/25/20	1572

Sample Receipt Conditions

3.0	(Y)N	(Y)N	(Y)N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
Temp in OC	Samples on Ice?	Sample Intact?	Trip Blank?

SHIPPING INFO

Company: FedEx

Tracking #:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Rick Panosh

SIGNATURE of SAMPLER: [signature]

DATE Signed: 9-25-20

TIME: 1200

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

November 06, 2020

DENIS ROZNOWSKI
Foth Infrastructure & Environment, LLC
2121 Innovation Court
De Pere, WI 54115

RE: Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Dear DENIS ROZNOWSKI:

Enclosed are the analytical results for sample(s) received by the laboratory on October 15, 2020. 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

Report revised to include ASTM Leach analysis for metals.

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

Sincerely,

Tod Noltemeyer

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

Enclosures

cc: Steve Lehrke, Foth Infrastructure & Environment
RICK PANOSH, Foth Infrastructure & Environment, LLC

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

CERTIFICATIONS

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

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: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40216614001	**GP-3, 0.1-4.0'**	Solid	09/24/20 08:36	10/15/20 12:01
40216614002	**GP-6, 0.2-5.'**	Solid	09/23/20 17:02	10/15/20 12:01
40216614003	**GP-12, 5.0-7.5'**	Solid	09/24/20 12:20	10/15/20 12:01
40216614004	**GP-13, 0.2-4.0'**	Solid	09/24/20 12:25	10/15/20 12:01

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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40216614001	**GP-3, 0.1-4.0'**	EPA 6010	TXW	2
		EPA 6020	KXS	3
40216614002	**GP-6, 0.2-5.'**	EPA 6010	TXW	1
		EPA 6020	KXS	3
40216614003	**GP-12, 5.0-7.5'**	EPA 6010	TXW	1
		EPA 6020	KXS	3
40216614004	**GP-13, 0.2-4.0'**	EPA 6010	TXW	1
		EPA 6020	KXS	3

PASI-G = Pace Analytical Services - Green Bay

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PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Method: **EPA 6010**
Description: 6010 MET ICP, TCLP
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 06, 2020

General Information:
4 samples were analyzed for EPA 6010 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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

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

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

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

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

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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

Additional Comments:

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PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Method: **EPA 6020**
Description: 6020 MET ICPMS, ASTM
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 06, 2020

General Information:
4 samples were analyzed for EPA 6020 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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

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

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

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

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

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

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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

Additional Comments:

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

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Sample: GP-3, 0.1-4.0' **Lab ID: 40216614001** Collected: 09/24/20 08:36 Received: 10/15/20 12:01 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: EPA 1311; 10/19/20 13:43 Pace Analytical Services - Green Bay								
Arsenic	**0.056**	mg/L	0.025	0.0084	1	10/20/20 13:43	10/21/20 12:57	7440-38-2	
Lead	**0.097**	mg/L	0.020	0.0059	1	10/20/20 13:43	10/21/20 12:57	7439-92-1	
6020 MET ICPMS, ASTM	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Leachate Method/Date: ASTM D3987; 11/03/20 12:34 Pace Analytical Services - Green Bay								
Bismuth-209 (IS)	**94.952**	%			1	11/05/20 06:53	11/05/20 15:35	7440-69-9	
Lead	**<0.00024**	mg/L	0.0010	0.00024	1	11/05/20 06:53	11/05/20 15:35	7439-92-1	
Zinc	**<0.010**	mg/L	0.034	0.010	1	11/05/20 06:53	11/05/20 15:35	7440-66-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Sample: GP-6, 0.2-5.' **Lab ID: 40216614002** Collected: 09/23/20 17:02 Received: 10/15/20 12:01 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: EPA 1311; 10/19/20 13:43 Pace Analytical Services - Green Bay								
Lead	**0.056**	mg/L	0.020	0.0059	1	10/20/20 13:43	10/21/20 13:12	7439-92-1	
6020 MET ICPMS, ASTM	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Leachate Method/Date: ASTM D3987; 11/03/20 12:34 Pace Analytical Services - Green Bay								
Bismuth-209 (IS)	**100.76**	%			1	11/05/20 06:53	11/05/20 16:02	7440-69-9	
Lead	**<0.00024**	mg/L	0.0010	0.00024	1	11/05/20 06:53	11/05/20 16:02	7439-92-1	
Zinc	**<0.010**	mg/L	0.034	0.010	1	11/05/20 06:53	11/05/20 16:02	7440-66-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Sample: GP-12, 5.0-7.5' **Lab ID: 40216614003** Collected: 09/24/20 12:20 Received: 10/15/20 12:01 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: EPA 1311; 10/19/20 13:43 Pace Analytical Services - Green Bay								
Lead	**0.033**	mg/L	0.020	0.0059	1	10/20/20 13:43	10/21/20 13:18	7439-92-1	
6020 MET ICPMS, ASTM	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Leachate Method/Date: ASTM D3987; 11/03/20 12:34 Pace Analytical Services - Green Bay								
Bismuth-209 (IS)	**99.266**	%			1	11/05/20 06:53	11/05/20 16:16	7440-69-9	
Lead	**<0.00024**	mg/L	0.0010	0.00024	1	11/05/20 06:53	11/05/20 16:16	7439-92-1	
Zinc	**<0.010**	mg/L	0.034	0.010	1	11/05/20 06:53	11/05/20 16:16	7440-66-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Sample: GP-13, 0.2-4.0' **Lab ID: 40216614004** Collected: 09/24/20 12:25 Received: 10/15/20 12:01 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: EPA 1311; 10/19/20 13:43 Pace Analytical Services - Green Bay								
Lead	**0.044**	mg/L	0.020	0.0059	1	10/20/20 13:43	10/21/20 13:47	7439-92-1	
6020 MET ICPMS, ASTM	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Leachate Method/Date: ASTM D3987; 11/03/20 12:34 Pace Analytical Services - Green Bay								
Bismuth-209 (IS)	**97.851**	%			1	11/05/20 06:53	11/05/20 16:23	7440-69-9	
Lead	**<0.00024**	mg/L	0.0010	0.00024	1	11/05/20 06:53	11/05/20 16:23	7439-92-1	
Zinc	**<0.010**	mg/L	0.034	0.010	1	11/05/20 06:53	11/05/20 16:23	7440-66-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

QC Batch: 368818 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET TCLP
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216614001, 40216614002, 40216614003, 40216614004

METHOD BLANK: 2132268 Matrix: Water
Associated Lab Samples: 40216614001, 40216614002, 40216614003, 40216614004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0084	0.025	10/21/20 12:52	
Lead	mg/L	<0.0059	0.020	10/21/20 12:52	

METHOD BLANK: 2131602 Matrix: Solid
Associated Lab Samples: 40216614001, 40216614002, 40216614003, 40216614004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0084	0.025	10/21/20 13:44	
Lead	mg/L	<0.0059	0.020	10/21/20 13:44	

METHOD BLANK: 2131603 Matrix: Solid
Associated Lab Samples: 40216614001, 40216614002, 40216614003, 40216614004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0084	0.025	10/21/20 13:52	
Lead	mg/L	<0.0059	0.020	10/21/20 13:52	

LABORATORY CONTROL SAMPLE: 2132269

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.5	0.50	101	80-120	
Lead	mg/L	0.5	0.50	100	80-120	

MATRIX SPIKE SAMPLE: 2132270

Parameter	Units	40216034001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	<0.0084	0.5	0.52	103	75-125	
Lead	mg/L	<0.012	0.5	0.50	99	75-125	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

MATRIX SPIKE SAMPLE: 2132271

Parameter	Units	40216614001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.056	0.5	0.59	106	75-125	
Lead	mg/L	0.097	0.5	0.58	97	75-125	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

QC Batch: 370329
QC Batch Method: EPA 3010
Analysis Method: EPA 6020
Analysis Description: 6020 MET ASTM
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216614001, 40216614002, 40216614003, 40216614004

METHOD BLANK: 2140876 Matrix: Water
Associated Lab Samples: 40216614001, 40216614002, 40216614003, 40216614004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	<0.00024	0.0010	11/05/20 13:51	
Zinc	mg/L	<0.010	0.034	11/05/20 13:51	

METHOD BLANK: 2139683 Matrix: Solid
Associated Lab Samples: 40216614001, 40216614002, 40216614003, 40216614004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	<0.00024	0.0010	11/05/20 13:58	
Zinc	mg/L	<0.010	0.034	11/05/20 13:58	

LABORATORY CONTROL SAMPLE: 2140877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	0.5	0.49	97	80-120	
Zinc	mg/L	0.5	0.51	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2140878 2140879

Parameter	Units	40216614001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/L	<0.00024	0.5	0.5	0.49	0.50	99	100	75-125	1	20	
Zinc	mg/L	<0.010	0.5	0.5	0.49	0.50	98	99	75-125	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

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QUALIFIERS

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40216614001	**GP-3, 0.1-4.0'**	EPA 3010	368818	EPA 6010	368932
40216614002	**GP-6, 0.2-5.'**	EPA 3010	368818	EPA 6010	368932
40216614003	**GP-12, 5.0-7.5'**	EPA 3010	368818	EPA 6010	368932
40216614004	**GP-13, 0.2-4.0'**	EPA 3010	368818	EPA 6010	368932
40216614001	**GP-3, 0.1-4.0'**	EPA 3010	370329	EPA 6020	370385
40216614002	**GP-6, 0.2-5.'**	EPA 3010	370329	EPA 6020	370385
40216614003	**GP-12, 5.0-7.5'**	EPA 3010	370329	EPA 6020	370385
40216614004	**GP-13, 0.2-4.0'**	EPA 3010	370329	EPA 6020	370385

40216614

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

1 of 1

Lab Information:

Lab Name:	Pace Analytical Services, Inc.
Address:	1241 Bellevue Street, Ste. 9, Green Bay, WI 54302
Lab PM:	Tod Noltemeyer
Phone/Fax:	608.232.3300
Lab PM email:	Tod.Noltemeyer@pacelabs.com
Applicable Lab Quote #	

Project Information:

Site ID #:	FMM B34/B35 Supplemental Yard Inv.
Project #:	19M106.20
Site Address:	Fincantieri Marinette Marine 1600 Ely Street
City-State-Zip:	Marinette, WI 54143
Site PM Name:	Denis Roznowski
Phone/Fax:	(920) 496-6756
Sampler Name:	Rick Panosh, Bob Meller

Other Information:

Send Invoice to:	invoices@foth.com
Address:	2121 Innovation Ct.
City/State:	De Pere WI 54115
Phone #:	920-496-6687
Foth Project No.:	19M106.20
Send EDD to:	Steve.Lehrke@foth.com
CC Hard copy report to:	
CC Electronic reports (lab report and data in spreadsheet format):	denis.roznowski@foth.com; rick.panosh@foth.com; steve.lehrke@foth.com;

Task: Sediment/Soil Chemistry Sampling

Turn Around Time: Standard (or 7-day)

QC level Required: Standard Level II Report

ITEM #	Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	Comments/Lab Sample I.D.	Preservative: Soil/Sediment = None	Preservative: Soil/Sediment = None	Preservative: Soil/Sediment = None	Analysis: TCLP Arsenic	Analysis: TCLP Lead	Analysis: HOLD FOR INSTRUCTIONS
1	GP-3, 0.1 - 4.0'	GP-3	Soil	C	9/24/20	0836	1					X	X	
2	GP-6, 0.2 - 5.0'	GP-6	Soil	C	9/23/20	1702	1						X	
3	GP-12, 5.0 - 7.5'	GP-12	Soil	C	9/24/20	1220	1						X	
4	GP-13, 0.2 - 4.0'	GP-13	Soil	C	9/24/20	1225	1						X	
5														
6														
7														
8														
9														
10														

Additional Comments/Special Instructions:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	10-15-20	1201	[signature] Pace	10-15-20	1201

Sample Receipt Conditions

Temp in OC	Samples on ice?	Sample intact?	Trip Blank?
0.2	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SHIPPING INFO: Company: FedEx; Tracking #:

SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: Rick Panosh; SIGNATURE of SAMPLER: [signature]; DATE Signed: 10-15-20; Time: 1000

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Foth Project # 40216614

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☒N/A Initial when completed: Date/ Time:

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

	Glass							Plastic					Vials						Jars				General							
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN	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 / 10
002																																	2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
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012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

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

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
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

VG9A	40 mL clear ascorbic
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	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 26Mar2020
	Document No.: **ENV-FRM-GBAY-0014-Rev.00**	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Foth

Project #: WO# : 40216614

40216614

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 - 99 **Type of Ice:** (Wet) Blue Dry None ☐ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.0 /Corr: 2.0

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: 10/15/20 /Initials: [initials]
Labeled By Initials: [initials]

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.
- 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.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
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 logir

4021520

2 of 2

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

Lab Information:

Lab Name:	Pace Analytical Services, Inc.
Address:	1241 Bellevue Street, Ste. 9, Green Bay, WI 54302
Lab PM:	Tod Nottemeyer
Phone/Fax:	608.232.3300
Lab PM email:	Tod.Nottemeyer@pacelabs.com
Applicable Lab Quote #	

Project Information:

Site ID #:	FMM B34/B35 Supplemental Yard Inv.
Project #:	19M106.20
Site Address:	Fincantieri Marinette Marine 1600 Ely Street
City-State-Zip:	Marinette, WI 54143
Site PM Name:	Denis Roznowski
Phone/Fax:	(920) 496-6756
Sampler Name:	Rick Panosh, Bob Meller

Other Information:

Send Invoice to:	invoices@foth.com
Address:	2121 Innovation Ct.
City/State:	De Pere WI 54115
Phone #:	920-496-6687
Foth Project No.:	19M106.20
Send EDD to:	Steve.Lehrke@foth.com
CC Hard copy report to:	
CC Electronic reports (lab report and data in spreadsheet format):	denis.roznowski@foth.com; rick.panosh@foth.com; steve.lehrke@foth.com;

Task: Sediment/Soil Chemistry Sampling

Turn Around Time: Standard

QC level Required: Standard Level II Report

ITEM #	Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	Comments/Lab Sample I.D.	Preservative: Soil/Sediment = MeOH	Soil/Sediment = MeOH	Soil/Sediment = None	Soil/Sediment = None	Soil/Sediment = None	Soil/Sediment = None	Soil/Sediment = None	Soil/Sediment = None		Soil/Sediment = None					
Analysis									VOC (EPA 8260)	PVOC (EPA 8260)	PAH (EPA 8270-SIM)	Total PCBs (EPA 8082A)	RCRA Metals - Total (EPA 6020 & 7471)	Cu and Zn Metals - Total (EPA 6020)	Pesticides EPA 8081B)	Percent Moisture		HOLD FOR INSTRUCTIONS					
1	GP-9, 0.2 - 4.0'	GP-9	Soil	C	9/24/20	1143	3		X		X	X	X	X	X	X							011
2	GP-12, 0.2 - 5.0'	GP-12	Soil	C	9/24/20	1215	3		X		X	X	X	X	X	X							012
3	GP-12, 5.0 - 7.5'	GP-12	Soil	C	9/24/20	1220	3		X		X	X	X	X	X	X							013
4	GP-13, 0.2 - 4.0'	GP-13	Soil	C	9/24/20	1225	3		X		X	X	X	X	X	X							014
5	GP-5, 0.2 - 4.0'	GP-5	Soil	C	9/24/20	1245	3		X		X	X	X	X	X	X							015
6	MeOH Blank		MeOH	G	9/23/20		2		X														016
7																							
8																							
9																							
10																							

Additional Comments/Special Instructions:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	9-25-20	1512	Sam Kopp Pace	9/25/20	1512

Sample Receipt Conditions

3.0	Q N	Q N	Q N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Temp in OC	Samples on Ice?	Sample Intact?	Trip Blank?

SHIPPING INFO

Company: FedEx

Tracking #:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Rick Panosh

SIGNATURE of SAMPLER: [signature]

DATE Signed: 9-25-20

Time: 1208

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Foth Project # 40215420

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Initial when completed: Date/ Time:

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

Pace Lab #	Glass								Plastic					Vials						Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN						
001																		2		1												2.5 / 5 / 10
002																		2		1												2.5 / 5 / 10
003																		2		1												2.5 / 5 / 10
004																		2		1												2.5 / 5 / 10
005																		2		1												2.5 / 5 / 10
006																		2		1												2.5 / 5 / 10
007																		2		1												2.5 / 5 / 10
008																		2		1												2.5 / 5 / 10
009																		2		1												2.5 / 5 / 10
010																		2		1												2.5 / 5 / 10
011																		2		1												2.5 / 5 / 10
012																		2		1												2.5 / 5 / 10
013																		2		1												2.5 / 5 / 10
014																		2		1												2.5 / 5 / 10
015																		2		1												2.5 / 5 / 10
016																		2														2.5 / 5 / 10
017																																2.5 / 5 / 10
018																																2.5 / 5 / 10
019																									9/25/20							2.5 / 5 / 10
020																									GRK							2.5 / 5 / 10

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

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
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

VG9A	40 mL clear ascorbic
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	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40215420

40215420

Client Name: Foth

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 ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3.0 /Corr: 3.0

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

Person examining contents:
Date: 9/25/20 /Initials: SRK

Labeled By Initials: LO

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.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
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Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD:	☐Yes ☒No ☐N/A	8.
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-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
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-Includes date/time/ID/Analysis Matrix: S		
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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 logir