RAMBOLL

ENVIRONMENT
& HEALTH

Mr. Trevor Nobile
Wisconsin Department of Natural Resources
2300 North Dr. Martin Luther King, Jr. Drive
Milwaukee, WI 53212

REQUEST FOR MODIFICATION OF NR 718.12 EXEMPTION
MARQUETTE UNIVERSITY ATHLETIC AND HUMAN PERFORMANCE RESEARCH CENTER (AHPRC) SITE – PARKING LOT, MILWAUKEE, WISCONSIN
BRRTS NO. 02-41-580746, FID NO. 341293920

Dear Mr. Nobile:

On behalf of Marquette University, Ramboll US Corporation (Ramboll) is submitting this letter to request modification of the existing Wisconsin Administrative Code (WAC) Chapter NR 718.12 Exemption, which was approved by the Wisconsin Department of Natural Resources (WDNR) on March 16, 2018, with subsequent modification on March 19, 2018. As previously discussed, this request for modification of the existing approval is being submitted to allow for the incorporation of excavated soils (i.e., "cut" soils) removed during preparation of the parking lot area to be used as backfill for the basement walls. The soil placement area will remain consistent with the existing approval. A check for $300 is included with this submittal to cover the GIS fee for continuing obligations associated with the requested soil movement.

May 25, 2018

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Ref. 1690007787

The following provides general project background information, outlines the planned construction activities, presents the analytical data to support the soil movement, and provides confirmation that the final soil placement will be in accordance with the existing WAC NR 718 approval.

Background

The AHPRC development includes construction of a multi-story building, which is currently underway. A parking lot will also be constructed, extending from the AHPRC building to the grassed field to the west, herein referred to as Schroeder Field. The attached Figure 1 provides the general site layout. The development area includes two parcels: Tax Key 391-001-100 (Former Lot F with former address 733 North 12th Street) and Tax Key 390-0705-100 (Schroeder Field with former address 1231 West Wells Street). On February 19, 2018, prior to the start of construction on the AHPRC development project, the two parcels were combined into one under a Joinder Deed Restriction. A copy is provided in Attachment A.

As previously approved by the WDNR under the existing WAC NR 718.12 exemption, soils excavated during the AHPRC basement wall benching activities were removed and temporarily staged across the street for subsequent reuse on site use as backfill. Prior to construction, it was estimated that approximately

3,300 cubic yards (cy) of the benching soil would be retained for future use as backfill material; however, due to the poor structural quality of the soil encountered, only 1,800 cy of soil was retained for reuse. Benching soils containing volatile organic compounds (VOCs) or deemed otherwise structurally unsuitable for use as backfill, along with soils excavated during construction of the basement, footings, and utility trenches, were disposed of at Waste Management's Orchard Ridge landfill.

Due to the shortfall in retained backfill material, the cut soil planned for removal during the parking lot construction activities was evaluated for possible reuse under WAC NR 718 and is the subject of this request for modification.

Planned Parking Lot Development and Soil Removal Activities

The planned parking lot area includes the western portion of the former Lot F parking lot and Schroeder Field to the west. Preparation for the proposed parking lot area will generally include removal of 12 to 18 inches of existing soil to allow for the placement of the necessary base course material. In addition, there will be several small areas with deeper excavation to facilitate construction of the storm water conveyance and retention features.

Soil removed during the parking lot construction activities will be managed using a combination of landfill disposal and proposed on-site reuse. The soil planned for on-site reuse has been adequately characterized utilizing data obtained during the pre-construction site investigation activities performed associated with the AHPRC as documented in the *Summary of Pre-Construction Site Investigation Activities* report (Ramboll, February 20, 2018), along with additional sampling performed specific to Schroeder field which is summarized below.

Pre-Construction Soil Sampling (Schroeder Field)

On May 1, 2018, Ramboll collected twelve soil samples (HA-1 through HA-12) from six hand auger borings advanced at the approximate locations shown on attached Figure 2. Samples HA-1, HA-3, HA-5, HA-7, HA-9, and HA-11 were collected from the surficial material and samples HA-2, HA-4, HA-6, HA-8, HA-10, and HA-12 were collected from the underlying fill soil. The samples were submitted to Pace Analytical Services, LLC (Pace), a Wisconsin certified laboratory, for analysis of VOCs, polycyclic aromatic hydrocarbons (PAHs), and 8 Resource Conservation and Recovery Act (RCRA) metals.

Soils encountered during the hand auguring activities included top soil (all locations), silty clay, and silty clay. Building debris (primarily bricks) were encountered at the HA-8 and HA-12 sampling locations. There were no visual or olfactory indications of impacts in any of the samples collected. The only detected photoionization detector (PID) readings were reported in samples HA-3 (0-3" at 19.2 parts per million [ppm]) and HA-9 (0-3" at 19.2 ppm). These PID detections appear related to moisture interference based on the lack of VOCs reported in the laboratory samples.

The hand auger analytical results were tabulated and compared to WAC NR 720 residual contaminant levels (RCLs) to assist in the evaluation of soil management options during construction. Results are provided on Table 1. The associated laboratory analytical reports are provided as Attachment B.

Methylene chloride, a commonly used laboratory solvent, was the only VOC detected in the soil samples collected from Schroeder Field. The concentrations of methylene chloride reported ranged from a laboratory estimated concentration of 29.5 to 28.9 micrograms per kilogram (ug/kg), which is above the WAC NR 720

groundwater migration pathway RCL of 2.56 ug/kg. Methylene chloride was also detected in the laboratory quality control blanks associated with these samples at concentrations. As such, the reported concentrations of methylene chloride in soil samples are believed to be a lab artifact and are not considered a site related contaminant.

Detectable concentrations of both PAHs and metals were reported in all samples above their respective RCLs. In general, the detections of these compounds are generally consistent with shallow fill soil encountered in urban areas of Milwaukee and do not appear indicative of a source area.

Elevated PAH concentrations reported in samples HA-8 (12-14") and HA-12 (12-14") appear to correlate to the presence of debris (primarily bricks) encountered at both hand auger locations. As such, fill soil containing debris will be landfilled when encountered during parking lot preparation activities. Although these results are included on Table 1, they have been flagged for disposal at the landfill.

Additional Available Analytical Data

As referenced previously, in addition to the hand auger samples collected from Schroeder Field, there are a number of additional soil samples collected previously that are considered representative of the parking lot soils identified for on-site reuse. The additional sample results are presented on Table 2 and discussed below. Sample locations are illustrated on Figure 2.

- Shallow soil samples collected from borings B-15 and B-16 advanced on the western edge of former Lot F during the AHPRC pre-construction additional investigation activities. Samples were analyzed for VOCs and metals. No RCL or background threshold values (BTV) exceedances reported.
- Shallow soil samples SW-1 and SW-5 collected from the western AHPRC basement benched wall located along the eastern most edge of the proposed parking lot area. Samples were analyzed for VOCs and metals. No RCL or BTV exceedances reported.
- Shallow soil sample SW-3 collected from the southern AHPRC basement benched wall in the area proposed for construction of a storm water retention feature. The sample was analyzed for VOCs and metals. No RCL or BTV exceedances reported.

Please note that Table 2 also includes the remaining samples collected within the proposed parking lot area that have been identified for landfilling due to the detection of VOCs in the sample or based on proximity to areas with known VOCs.

Number of Representative Samples

A total of 13 discrete samples have been collected of the parking lot area soil identified for on-site reuse as presented on Table 1 and Table 2. Samples were analyzed as follows:

- VOCs – 13 samples
- PAHs – 8 samples
- RCRA Metals – 13 samples

Based on an estimated volume of 1,700 cy of parking lot soils identified for on-site reuse, the rate of sample collection is approximately one sample per 130 cy. The number of samples collected is in compliance with the requirements specified in WAC NR 718.12(1)(e).

Requested Soil Movement Modification

Based on contractor estimates, a total of approximately 2,900 cy of soil will be removed during the parking lot development and related construction activities. Based on the soil sample analytical results, approximately 1,700 cy of soil removed during the parking lot construction activities has been identified for potential on-site reuse. This soil is proposed to be utilized to backfill the northern portion of the AHPRC building basement wall, consistent with the existing WAC NR 718.12 approval. The remaining 1,200 cy of the soil and any debris encountered removed during parking lot construction will be landfilled. Figure 3 illustrates the planned excavation and proposed soil placement areas.

Ramboll staff will be on site during the management of soil covered under this request for modification. Parking lot area soil deemed suitable for on-site reuse, based on laboratory data and visual screening (no odors, staining, or debris) is proposed to be directly utilized as backfill material upon removal. If unusual conditions such as odor or staining are encountered during removal, the material will be directed to be disposed of at the landfill under one of the waste profiles established for the site. No temporary off-site storage of the parking lot area soil is anticipated.

The soil identified for on-site reuse will be placed at a maximum placement depth of 13 feet below ground surface (bgs). During the AHPRC basement excavation activities, groundwater was encountered just below the proposed slab depth of approximately 16 feet below current grade. Based on these observed conditions, the parking lot soils will be paced 3 feet or more above the apparent groundwater table. Records will be maintained during the soil placement to document depths and placement areas.

As previously referenced, only 1,800 cy of the originally approved 3,300 cy of benching soil was deemed suitable for on-site reuse and is currently staged at the Former One Hour Valet site (BRRTS No. 02-41-152248). The parking lot soil which is the subject of this modification request will help to supplement this shortfall and result in a combined backfill amount of 3,500 cy. Basement wall backfilling activities are scheduled to take place in mid-June 2018.

Request for Exemption from WAC NR 718.12(1)(c) Location Standard

As part of this modification request, an exemption from the placement criteria specified in WAC NR 718.12(1)(c)6 is being requested due to the proposed placement of soil “at a depth greater than the depth of the original excavation.” The majority of the soils excavated during the parking lot construction activities will be taken from depths up to 18 inches bgs. Because the soil is proposed to be used to backfill the basement walls to a maximum depth of approximately 13 feet bgs, the placement depth is greater than the original excavation depth. It is not anticipated that the placement of soil at a depth greater than the original excavation depth will pose a threat to public health, safety, or welfare or the environment.

Closing

We appreciate your consideration of this request to modify the existing WAC NR 718.12 approval to allow for the reuse of 1,700 cy cut soils generated during the parking lot construction to be utilized to backfill the AHPRC basement walls. The soil identified for reuse have been adequately characterized and will be placed in compliance with the conditions of the existing approval. An exemption is being requested to allow for the placement of soil at a depth greater than it was originally excavated from, as part of this modification request. Please note that an addendum to the previously submitted Soil Management Plan will be prepared if the soil movement covered by this modification is approved by the Department.

Thank you for your continued support on this project. Please feel free to contact us if you have any questions or wish to discuss further.

Yours sincerely,

Susan Petrofske
Managing Consultant

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Managing Principal

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cc: Joel Smullen, Marquette University (electronic copy)

TABLES

Table 1: Soil Analytical Results
Schroeder Field - Marquette University
Ramboll Project No. 1690007787

Parameters	Soil RCLs			BTV	HA-1 (0-3")	HA-2 (12-14")	HA-3 (0-3")	HA-4 (12-14")	HA-5 (0-3")	HA-6 (12-14")	HA-7 (0-3")	HA-8 (12-14")	HA-9 (0-3")	HA-10 (12-14")	HA-11 (0-3")	HA-12 (12-14")
	Non-Industrial Direct Contact	Industrial Direct Contact	Groundwater Pathway		4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018
VOCs (µg/kg)																
Methylene chloride	61,800	1,150,000	2.56	--	<25.0	<25.0	<25.0	<25.0	38.9 J * C	<25.0	36.2 J * C	29.5 J * C	<25.0	<25.0	32.7 J * C	<25.0
PAHs (µg/kg)																
Acenaphthene	3,590,000	45,200,000	--	--	8.5 J	19.5	57.7 J	33.6 J	20.1	<4.4	279 J	5,240	62.1 J	59.9 J	57.0 J	1,620
Acenaphthylene	--	--	--	--	9.9 J	24.6	22.7 J	16.9 J	16.2	4.0 J	<81.2	<849	21.9 J	<19.1	<21.4	196 J
Anthracene	17,900,000	100,000,000	196,949.2	--	36.3	85.9	249	163	74.8	14.1 J	488	10,400	169	215	187	1,890
Benzo(a)anthracene	1140	20,800	--	--	166	294	848	652	344	91.2	**1,770 A**	**26,700 A,B**	665	792	815	**5,420 A**
Benzo(a)pyrene	115	2110	470	--	**190 A**	**325 A**	**912 A,C**	**694 A,C**	**402 A**	83.9	**1,880 A,C**	**27,200 A,B,C**	**776 A,C**	**851 A,C**	**974 A,C**	**5,300 A,B,C**
Benzo(b)fluoranthene	1150	21,100	478.1	--	221	401	**855 C**	**648 C**	474	96.2	**2,030 A,C**	**27,000 A,B,C**	**1,030 C**	**787 C**	**1,240 A,C**	**5,300 A,C**
Benzo(ghi)perylene	--	--	--	--	126	199	470	382	216	41.3	1,190	11,900	449	448	558	2,950
Benzo(k)fluoranthene	11,500	211,000	--	--	226	283	934	662	365	84.6	1,580	**24,600 A**	672	755	899	4,440
Chrysene	115,000	2,110,000	144.2	--	**220 C**	**365 C**	**986 C**	**718 C**	**427 C**	112	**2,000 C**	**29,500 C**	**869 C**	**873 C**	**1,100 C**	**5,740 C**
Dibenzo(a,h,)anthracene	115	2110	--	--	44.7	74.5	**175 A**	**136 A**	82.5	17.7	**390 A**	**4,820 A,B**	**170 A**	**157 A**	**206 A**	**1,120 A**
Fluoranthene	2,390,000	30,100,000	88,877.8	--	380	694	2,130	1,550	840	197	4,610	77,100	1,740	1,980	2,220	15,500
Fluorene	2,390,000	30,100,000	14,829.9	--	10 J	21.5	70.6 J	34.1 J	20.0	<4.7	172 J	3,740	55.5 J	43.5 J	56.8 J	1,270
Indeno(1,2,3-cd)pyrene	1150	21,100	--	--	122	189	498	390	224	45.8	1,120	**13,300 A**	465	455	580	**2,860 A**
1-Methylnaphthalene	17,600	72,700	--	--	18.3	134	<23.5	<19.6	25.3	<4.6	<99.2	<744	42.3 J	<23.3	64.4 J	532
2-Methylnaphthalene	239,000	3,010,000	--	--	24.9	174	<29.3	<24.4	32.6	<5.7	<128	<925	53.6 J	<29.0	78.1 J	675
Naphthalene	5,520	24,100	658.2	--	32.7 J	160	56.0 J	52.2 J	47.6	<9.6	<268	<1,566	66.2 J	<48.8	88.9 J	**1,690 C**
Phenanthrene	--	--	--	--	158	379	954	578	349	50.6	2,370	43,900	910	679	999	15,500
Pyrene	1,790,000	22,600,000	54,545.5	--	334	578	1,840	1,420	745	172	3,940	**66,900 C**	1,460	1,770	1,870	12,400
Metals (mg/kg)																
Arsenic[3]	0.677	3.00	0.58	8.3	**9.5 A,B,C,D**	**9.1 A,B,C,D**	**10.9 A,B,C,D**	7.4	**9.3 A,B,C,D**	4.5 J	**9.0 A,B,C,D**	**8.8 A,B,C,D**	7.0	5.2 J	7.8	**10.3 A,B,C,D**
Barium[3]	15,300	100,000	164.8	364	95.2	97.1	83.9	70.9	113	44.2	138	143	81.8	74.1	112	127
Cadmium[3]	71	985	0.75	1.07	0.70	0.65	0.81	0.69	1.0	0.25 J	0.74	0.80	0.76	0.46 J	0.83	0.76
Chromium	--	--	360,000	43.5	23.1	22.6	24.1	23.3	25.7	13.1	23.1	22.9	21.4	23.1	23.4	22.1
Lead[3]	400	800	27	51.6	**127 C,D**	**163 C,D**	**161 C,D**	**124 C,D**	**350 C,D**	**125 C,D**	**212 C,D**	**306 C,D**	**188 C,D**	40.1	**117 C,D**	**314 C,D**
Mercury	3.13	3.13	0.21	--	0.12	**0.21 C**	**0.24 C**	0.15	**0.26 C**	0.13	0.13	**0.22 C**	**0.24 C**	0.13	0.17	**0.47 C**

Soil Identified for Landfill Disposal

Notes:

VOCs = Volatile Organic Compounds
PAHs = Polynuclear Aromatic Hydrocarbons
RCL = Residual Contaminant Level
BTV = Background Threshold Value
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
[3] Parameter BTV is larger than one or more of the RCLs or is the only standard available. For these parameters RCL exceedances are shown only if the BTV is exceeded as well.
A Parameter exceeds NR 720 Residual Contaminant Level (RCL) for Non-Industrial Direct Contact.
B Parameter exceeds NR 720 RCL for Industrial Direct Contact.
C Parameter exceeds NR 720 RCL for Groundwater Pathway.
D Parameter exceeds Surficial BTV for metals.
J Estimated concentration at or above the LOD and below the LOQ.
-- No RCL or Surficial BTV established.
Bolded compounds exceed one or more RCL value(s).
#N/A = Not analyzed
Soil RCLs and surficial BTVs established by the WDNR RR program using the EPA's RSL web-calculator with WAC NR 720 default parameters (WDNR PUB-RR-890, June 2014 - updated RCL spreadsheet, December 2017).
Cross-hatched columns indicate that these samples will go to landfill, based on exceedances and field observations.
* Methylene chloride was also detected in the laboratory blanks associated with these samples and is believed to be a laboratory artifact; therefore the detection is not bolded as an exceedance.

Table 2: Soil Analytical Results
AHPRC Parking Lot Area - Marquette University
Ramboll Project No. 1690007787

Parameters	Soil RCLs			BTV	B-1 (3-4') 10/9/2017	B-2 (3-4') 10/9/2017	B-15 (3') 1/10/2018	B-16 (3') 1/10/2018	SW-1 (2-3') 3/29/2018	SW-3 (2-3') 3/29/2018	SW-5 (2-3') 4/5/2018
	Non-Industrial Direct Contact	Industrial Direct Contact	Groundwater Pathway								
VOCs (µg/kg)											
Tetrachloroethene	33,000	145,000	4.54	--	**45 C**	<25.0	<27.8	<25.0	<25.0	<25.0	<43.1
PAHs (µg/kg)											
Acenaphthene	3,590,000	45,200,000	--	--	<4.3	13.3	#N/A	#N/A	#N/A	#N/A	#N/A
Acenaphthylene	--	--	--	--	<3.7	6.3	#N/A	#N/A	#N/A	#N/A	#N/A
Anthracene	17,900,000	100,000,000	196,949.2	--	<6.3	25.3	#N/A	#N/A	#N/A	#N/A	#N/A
Benzo(a)anthracene	1140	20,800	--	--	12	64	#N/A	#N/A	#N/A	#N/A	#N/A
Benzo(a)pyrene	115	2110	470	--	12	66	#N/A	#N/A	#N/A	#N/A	#N/A
Benzo(b)fluoranthene	1150	21,100	478.1	--	21	79	#N/A	#N/A	#N/A	#N/A	#N/A
Benzo(ghi)perylene	--	--	--	--	11	39	#N/A	#N/A	#N/A	#N/A	#N/A
Benzo(k)fluoranthene	11,500	211,000	--	--	7	34	#N/A	#N/A	#N/A	#N/A	#N/A
Chrysene	115,000	2,110,000	144.2	--	15	67	#N/A	#N/A	#N/A	#N/A	#N/A
Dibenzo(a,h,)anthracene	115	2110	--	--	<2.5	9.0	#N/A	#N/A	#N/A	#N/A	#N/A
Fluoranthene	2,390,000	30,100,000	88,877.8	--	34	143	#N/A	#N/A	#N/A	#N/A	#N/A
Fluorene	2,390,000	30,100,000	14,829.9	--	<4.6	15.0	#N/A	#N/A	#N/A	#N/A	#N/A
Indeno(1,2,3-cd)pyrene	1150	21,100	--	--	8	35	#N/A	#N/A	#N/A	#N/A	#N/A
1-Methylnaphthalene	17,600	72,700	--	--	<4.5	8	#N/A	#N/A	#N/A	#N/A	#N/A
2-Methylnaphthalene	239,000	3,010,000	--	--	<5.6	8	#N/A	#N/A	#N/A	#N/A	#N/A
Naphthalene	5,520	24,100	658.2	--	<9.4	20	#N/A	#N/A	#N/A	#N/A	#N/A
Phenanthrene	--	--	--	--	16	128	#N/A	#N/A	#N/A	#N/A	#N/A
Pyrene	1,790,000	22,600,000	54,545.5	--	28	126	#N/A	#N/A	#N/A	#N/A	#N/A
Metals (mg/kg)											
Arsenic[3]	0.677	3.00	0.58	8.3	3.7	8.2	4.8 J	4.6 J	5.2 J	4.2 J	7.1
Barium[3]	15,300	100,000	164.8	364	48.0	105.0	71.1	59.8	54	48.7	63
Cadmium[3]	71	985	0.75	1.07	0.15	0.43	<0.16	0.18 J	0.2 J	0.20 J	0.19
Chromium	--	--	360,000	43.5	19.5	39.0	22.2	26.1	17.8	18.1	26.8
Lead[3]	400	800	27	51.6	7	**214 C,D**	11	10	14	8	15
Mercury	3.13	3.13	0.21	--	0.02	**0.59 C**	0.02 J	0.06	0.04 J	<0.013	0.02

Soil Identified for Landfill Disposal

Notes:

VOCs = Volatile Organic Compounds
PAHs = Polynuclear Aromatic Hydrocarbons
RCL = Residual Contaminant Level
BTV = Background Threshold Value
µg/kg = micrograms per kilogram
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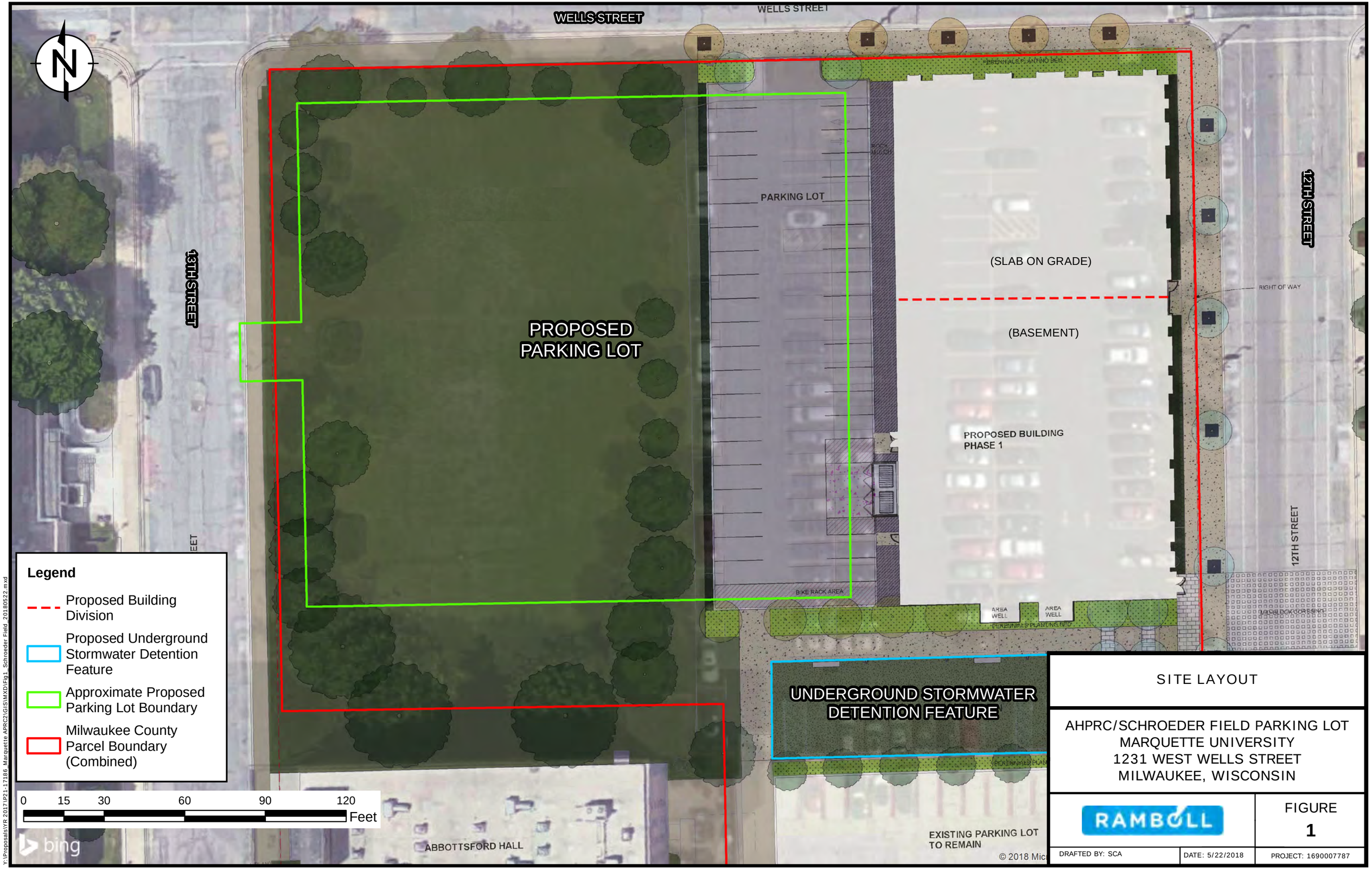
D Parameter exceeds Surficial BTV for metals.
J Estimated concentration at or above the LOD and below the LOQ.
-- No RCL or Surficial BTV established.
Bolded compounds exceed one or more RCL value(s).
#N/A = Not analyzed
Soil RCLs and surficial BTVs established by the WDNR RR program using the EPA's RSL web-calculator with WAC NR 720 default parameters (WDNR PUB-RR-890, June 2014 - updated RCL spreadsheet, December 2017).
Cross-hatched columns indicate that these samples will go to landfill, based on exceedances and field observations.

FIGURES



SITE LAYOUT

AHPRC/SCHROEDER FIELD PARKING LOT
MARQUETTE UNIVERSITY
1231 WEST WELLS STREET
MILWAUKEE, WISCONSIN

RAMBOLL

FIGURE
1

DRAFTED BY: SCA | DATE: 5/22/2018 | PROJECT: 1690007787

Y:\Proposals\YR 2017\P21-17186_Marquette AHPRC2\GIS\MXD\Fig1_Schroeder Field_20180522.mxd

WELLS STREET

13TH STREET

12TH STREET

Current Location of Job Trailers and Equipment Storage (Graveled)

4

3

HA-1 and HA-2

HA-3 and HA-4

HA-5 and HA-6

HA-7 and HA-8

HA-9 and HA-10

HA-11 and HA-12

SCHROEDER FIELD

B-1/TW-1

B-15

B-2/TW-2

B-16

SW-1

SW-3

SW-5

PARKING LOT

BIKE RACK AREA

PERENNIALS PLANTING BED

(SLAB ON GRADE)

(BASEMENT)

RIGHT OF WAY

PROPOSED BUILDING PHASE 1

AREA WELL

AREA WELL

UNDERGROUND STORMWATER DETENTION FEATURE

EXISTING PARKING LOT TO REMAIN

ABBOTTSFORD HALL

Legend

- Soil Sample Location
- AHPRC Sidewall Soil Samples
- Soil Boring
- Soil Boring/Temporary Well
- Previous Geotechnical Soil Boring
- Proposed Building Division
- Proposed Underground Stormwater Detention Feature
- Approximate Proposed Parking Lot Boundary
- Milwaukee County Parcel Boundary (Combined)

0 15 30 60 90 120 Feet

bing

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SOIL SAMPLE LOCATIONS

AHPRC/SCHROEDER FIELD
MARQUETTE UNIVERSITY
1231 WEST WELLS STREET
MILWAUKEE, WISCONSIN

RAMBOLL

FIGURE
2

DRAFTED BY: SCA	DATE: 5/22/2018	PROJECT: 1690007787

WELLS STREET

13TH STREET

12TH STREET

Current Location of Job Trailers and Equipment Storage (Graveled)

4

HA-1 and HA-2

HA-3 and HA-4

HA-5 and HA-6

HA-7 and HA-8

HA-9 and HA-10

HA-11 and HA-12

3

B-1/TW-1

Cut soils to landfill

PARKING LOT

B-15

B-2/TW-2

B-16

SW-5

SW-1

SW-3

(SLAB ON GRADE)

Propsed soil placement area

(BASEMENT)

PROPOSED BUILDING PHASE 1

Cut soils identified for on-site reuse*

Cut soils to landfill (containing debris)

UNDERGROUND STORMWATER DETENTION FEATURE

EXISTING PARKING LOT TO REMAIN

ABBOTTSFORD HALL

PERENNIALS PLANTING BED

BIKE RACK AREA

AREA WELL

AREA WELL

RIGHT OF WAY

MIDBLOCK CROSSING

Legend

- Soil Sample Location
- AHPRC Sidewall Soil Samples
- Soil Boring
- Soil Boring/Temporary Well
- Previous Geotechnical Soil Boring
- Proposed Building Division
- Proposed Soil Placement Area
- Cut Soils to Landfill
- Cut Soils for On-Site Reuse
- Proposed Underground Stormwater Detention Feature
- Approximate Proposed Parking Lot Boundary
- Milwaukee County Parcel Boundary (Combined)

*Note: Soil retained for on-site reuse will be free of debris with no apparent odor or staining.

0 15 30 60 90 120 Feet

bing

PLANNED EXCAVATION AND SOIL PLACEMENT AREAS

AHPRC/SCHROEDER FIELD
MARQUETTE UNIVERSITY
1231 WEST WELLS STREET
MILWAUKEE, WISCONSIN

RAMBOLL

FIGURE 3

DRAFTED BY: SCA | DATE: 5/22/2018 | PROJECT: 1690007787

Y:\Proposals\YR 2017\P21-17186_Marquette APRC2\GIS\MXD\Fig3_Schroeder Field_20180522.mxd

ATTACHMENT A

AHPRC JOINDER DEED

This instrument was drafted by and should be returned to:
Brad Dallet
Husch Blackwell LLP
555 E. Wells Street, Suite 1900
Milwaukee, WI 53202

Parcel I.D. No: See Exhibit A attached

DECLARATION OF RESTRICTIONS

THIS DECLARATION OF RESTRICTIONS ("Declaration") is made as of February 19, 2018, by Marquette University ("Marquette").

RECITALS

A. Marquette is the owner of the properties located at 733 N. 12th Street, Milwaukee, Wisconsin ("Parcel 1") and 1231 W. Wells Street, Milwaukee, Wisconsin ("Parcel 2"), as legally described on Exhibit A attached hereto.

B. Marquette desires to combine Parcel 1 and Parcel 2 to create a single tax key parcel of real estate (the "Combined Property").

NOW THEREFORE, in consideration of the above recitals, the terms and conditions of this Declaration, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Marquette hereby agrees as follows:

1. The Combined Property shall not be divided or separated without the approval of the Common Council of the City of Milwaukee (the "City") either by resolution or by adoption of a Certified Survey Map and evidenced by the recording with the Milwaukee County Register of Deeds of the Certified Survey Map or by a Release of Restriction by the City or authorizing division or separation.

2. The terms of this Declaration are binding upon the Combined Property, Marquette, its successors and assigns, and all those claiming by, through or under Marquette, including successor owners of the Combined Property.

(SIGNATURE PAGE FOLLOWS)

IN WITNESS WHEREOF, this Declaration has been executed as of the day and year first above written.

MARQUETTE UNIVERSITY

By: _____
David Lawlor, Chief Operating Officer

STATE OF WISCONSIN)
) ss
COUNTY OF MILWAUKEE)

This instrument was acknowledged before me on the 19 day of February, 2018, by David Lawlor, as Chief Operating Officer of Marquette University.

_____
Laurie B Zello
Notary Public, State of Wisconsin
My Commission: Expires Aug 14, 2021

EXHIBIT A

Legal Descriptions

PARCEL 1:
Lots 1, 2, 3, and 4, together with all of the vacated alleys adjoining, in Block 186 in A. Eldred's Subdivision of the South 6 acres of Lot 3, in the West 1/2 of the Northwest 1/4 of Section 29, Township 7 North, Range 22 East, in the City of Milwaukee, Milwaukee County, Wisconsin, more particularly described as follows:

Commencing at the southwest corner of said Northwest 1/4; thence North 01°00'06" West, on and along said the west line of said Northwest 1/4, 234.76 feet to the northwest corner of Lot 8 of said Block 186 and the point of beginning; thence continuing North 01°00'06" West, on and along said west line, 321.27 feet to the south right of way line of N. Wells Street; thence North 89°03'23" East, on and along said south right of way line, 178.82 feet to the west right of way line of North 12th Street; thence South 00°57'08" East, on and along said west right of way line, 318.61 feet to the northeast corner of Lot 5 of said Block 186; thence South 88°12'14" West, 178.56 feet to the point of beginning.

Tax Key Number: 391-011-100
Address: 733 N. 12th Street

PARCEL 2:
All of Lots 14, 15, 16, 17 and 18, together with all of the vacated alleys adjoining, in Block 186 in A. Eldred's Subdivision of the South 6 acres of Lot 3, in the West 1/2 of the Southeast 1/4 of Section 30, Township 7 North, Range 22 East, in the City of Milwaukee, Milwaukee County, Wisconsin, more particularly described as follows:

Commencing at the southeast corner of said Southeast 1/4; thence North 01°00'06" West, on and along said the east line of said Southeast 1/4, 315.95 feet to the point of beginning; thence South 89°05'13" West, 164.53 feet to the east right of way line of N. 13th Street; thence North 01°00'06" West, on and along said east right of way line, 239.69 feet to the south right of way line of W. Wells Street; thence North 88°57'08" East, on and along said south right of way line, 164.53 feet to the east line of a vacated 10' alley; thence South 01°00'06" East, on and along said east line, 240.08 feet to the point of beginning.

Tax Key Number: 390-0705-100
Address: 1231 W. Wells Street

ATTACHMENT B

LABORATORY ANALYTICAL REPORTS

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

May 07, 2018

Jeanne Tarvin
Ramboll Environ
175 North Corporate Drive
Suite 160
Brookfield, WI 53045

RE: Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Dear Jeanne Tarvin:
Enclosed are the analytical results for sample(s) received by the laboratory on May 01, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Steven Mleczko
steve.mleczko@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jim Hutchens, Ramboll Environ
Jim Kane, Ramboll Environ
Snejana Karakis, Environ
David L. Markelz, Ramboll Environ
Susan Petrofske, Ramboll Environ
Scott Tarmann, Ramboll Environ
Abigail M. Wedig, Environ International Corp

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40168281001	**HA-2 (12-14")**	Solid	04/30/18 10:05	05/01/18 08:40
40168281002	**HA-4 (12-14")**	Solid	04/30/18 09:45	05/01/18 08:40
40168281003	**HA-6 (12-14")**	Solid	04/30/18 10:50	05/01/18 08:40
40168281004	**HA-8 (12-14")**	Solid	04/30/18 10:25	05/01/18 08:40
40168281005	**HA-10 (12-14")**	Solid	04/30/18 09:15	05/01/18 08:40
40168281006	**HA-12 (12-14")**	Solid	04/30/18 11:30	05/01/18 08:40
40168281007	**TRIP BLANK**	Solid	04/30/18 00:00	05/01/18 08:40

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

SAMPLE ANALYTE COUNT

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40168281001	**HA-2 (12-14")**	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40168281002	**HA-4 (12-14")**	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40168281003	**HA-6 (12-14")**	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40168281004	**HA-8 (12-14")**	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40168281005	**HA-10 (12-14")**	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40168281006	**HA-12 (12-14")**	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40168281007	**TRIP BLANK**	EPA 8260	SMT	65	PASI-G

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

SUMMARY OF DETECTION

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40168281001	**HA-2 (12-14")**					
EPA 6010	Arsenic	9.1	mg/kg	5.8	05/03/18 15:56	
EPA 6010	Barium	97.1	mg/kg	0.58	05/03/18 15:56	
EPA 6010	Cadmium	0.65	mg/kg	0.58	05/03/18 15:56	
EPA 6010	Chromium	22.6	mg/kg	1.2	05/03/18 15:56	
EPA 6010	Lead	163	mg/kg	1.5	05/03/18 15:56	
EPA 7471	Mercury	0.21	mg/kg	0.039	05/03/18 12:54	
EPA 8270 by SIM	Acenaphthene	19.5	ug/kg	15.2	05/07/18 10:20	
EPA 8270 by SIM	Acenaphthylene	24.6	ug/kg	12.9	05/07/18 10:20	
EPA 8270 by SIM	Anthracene	85.9	ug/kg	22.4	05/07/18 10:20	
EPA 8270 by SIM	Benzo(a)anthracene	294	ug/kg	12.5	05/07/18 10:20	
EPA 8270 by SIM	Benzo(a)pyrene	325	ug/kg	9.8	05/07/18 10:20	
EPA 8270 by SIM	Benzo(b)fluoranthene	401	ug/kg	11.1	05/07/18 10:20	
EPA 8270 by SIM	Benzo(g,h,i)perylene	199	ug/kg	8.0	05/07/18 10:20	
EPA 8270 by SIM	Benzo(k)fluoranthene	283	ug/kg	9.8	05/07/18 10:20	
EPA 8270 by SIM	Chrysene	365	ug/kg	13.2	05/07/18 10:20	
EPA 8270 by SIM	Dibenz(a,h)anthracene	74.5	ug/kg	8.8	05/07/18 10:20	
EPA 8270 by SIM	Fluoranthene	694	ug/kg	20.5	05/07/18 10:20	
EPA 8270 by SIM	Fluorene	21.5	ug/kg	16.2	05/07/18 10:20	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	189	ug/kg	8.6	05/07/18 10:20	
EPA 8270 by SIM	1-Methylnaphthalene	134	ug/kg	15.8	05/07/18 10:20	
EPA 8270 by SIM	2-Methylnaphthalene	174	ug/kg	19.6	05/07/18 10:20	
EPA 8270 by SIM	Naphthalene	160	ug/kg	33.1	05/07/18 10:20	
EPA 8270 by SIM	Phenanthrene	379	ug/kg	45.7	05/07/18 10:20	
EPA 8270 by SIM	Pyrene	578	ug/kg	17.6	05/07/18 10:20	
ASTM D2974-87	Percent Moisture	14.9	%	0.10	05/03/18 19:08	
40168281002	**HA-4 (12-14")**					
EPA 6010	Arsenic	7.4	mg/kg	5.9	05/03/18 15:59	
EPA 6010	Barium	70.9	mg/kg	0.59	05/03/18 15:59	
EPA 6010	Cadmium	0.69	mg/kg	0.59	05/03/18 15:59	
EPA 6010	Chromium	23.3	mg/kg	1.2	05/03/18 15:59	
EPA 6010	Lead	124	mg/kg	1.5	05/03/18 15:59	
EPA 7471	Mercury	0.15	mg/kg	0.044	05/03/18 13:01	
EPA 8270 by SIM	Acenaphthene	33.6J	ug/kg	62.9	05/07/18 11:13	
EPA 8270 by SIM	Acenaphthylene	16.9J	ug/kg	53.7	05/07/18 11:13	
EPA 8270 by SIM	Anthracene	163	ug/kg	92.7	05/07/18 11:13	
EPA 8270 by SIM	Benzo(a)anthracene	652	ug/kg	51.7	05/07/18 11:13	
EPA 8270 by SIM	Benzo(a)pyrene	694	ug/kg	40.8	05/07/18 11:13	
EPA 8270 by SIM	Benzo(b)fluoranthene	648	ug/kg	45.9	05/07/18 11:13	
EPA 8270 by SIM	Benzo(g,h,i)perylene	382	ug/kg	33.0	05/07/18 11:13	
EPA 8270 by SIM	Benzo(k)fluoranthene	662	ug/kg	40.8	05/07/18 11:13	
EPA 8270 by SIM	Chrysene	718	ug/kg	54.6	05/07/18 11:13	
EPA 8270 by SIM	Dibenz(a,h)anthracene	136	ug/kg	36.3	05/07/18 11:13	
EPA 8270 by SIM	Fluoranthene	1550	ug/kg	84.9	05/07/18 11:13	
EPA 8270 by SIM	Fluorene	34.1J	ug/kg	67.3	05/07/18 11:13	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	390	ug/kg	35.8	05/07/18 11:13	
EPA 8270 by SIM	Naphthalene	52.2J	ug/kg	137	05/07/18 11:13	
EPA 8270 by SIM	Phenanthrene	578	ug/kg	189	05/07/18 11:13	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40168281002	**HA-4 (12-14")**					
EPA 8270 by SIM	Pyrene	1420	ug/kg	73.2	05/07/18 11:13	
ASTM D2974-87	Percent Moisture	18.1	%	0.10	05/03/18 19:08	
40168281003	**HA-6 (12-14")**					
EPA 6010	Arsenic	4.5J	mg/kg	5.2	05/03/18 16:01	
EPA 6010	Barium	44.2	mg/kg	0.52	05/03/18 16:01	
EPA 6010	Cadmium	0.25J	mg/kg	0.52	05/03/18 16:01	
EPA 6010	Chromium	13.1	mg/kg	1.0	05/03/18 16:01	
EPA 6010	Lead	125	mg/kg	1.4	05/03/18 16:01	
EPA 7471	Mercury	0.13	mg/kg	0.038	05/03/18 13:04	
EPA 8270 by SIM	Acenaphthylene	4.0J	ug/kg	12.5	05/04/18 21:52	
EPA 8270 by SIM	Anthracene	14.1J	ug/kg	21.6	05/04/18 21:52	
EPA 8270 by SIM	Benzo(a)anthracene	91.2	ug/kg	12.0	05/04/18 21:52	
EPA 8270 by SIM	Benzo(a)pyrene	83.9	ug/kg	9.5	05/04/18 21:52	
EPA 8270 by SIM	Benzo(b)fluoranthene	96.2	ug/kg	10.7	05/04/18 21:52	
EPA 8270 by SIM	Benzo(g,h,i)perylene	41.3	ug/kg	7.7	05/04/18 21:52	
EPA 8270 by SIM	Benzo(k)fluoranthene	84.6	ug/kg	9.5	05/04/18 21:52	
EPA 8270 by SIM	Chrysene	112	ug/kg	12.7	05/04/18 21:52	
EPA 8270 by SIM	Dibenz(a,h)anthracene	17.7	ug/kg	8.5	05/04/18 21:52	
EPA 8270 by SIM	Fluoranthene	197	ug/kg	19.8	05/04/18 21:52	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	45.8	ug/kg	8.3	05/04/18 21:52	
EPA 8270 by SIM	Phenanthrene	50.6	ug/kg	44.1	05/04/18 21:52	
EPA 8270 by SIM	Pyrene	172	ug/kg	17.0	05/04/18 21:52	
ASTM D2974-87	Percent Moisture	12.0	%	0.10	05/04/18 16:05	
40168281004	**HA-8 (12-14")**					
EPA 6010	Arsenic	8.8	mg/kg	5.8	05/03/18 16:08	
EPA 6010	Barium	143	mg/kg	0.58	05/03/18 16:08	
EPA 6010	Cadmium	0.80	mg/kg	0.58	05/03/18 16:08	
EPA 6010	Chromium	22.9	mg/kg	1.2	05/03/18 16:08	
EPA 6010	Lead	306	mg/kg	1.5	05/03/18 16:08	
EPA 7471	Mercury	0.22	mg/kg	0.041	05/03/18 13:06	
EPA 8270 by SIM	Acenaphthene	5240	ug/kg	2380	05/07/18 12:57	
EPA 8270 by SIM	Anthracene	10400	ug/kg	3510	05/07/18 12:57	
EPA 8270 by SIM	Benzo(a)anthracene	26700	ug/kg	1960	05/07/18 12:57	
EPA 8270 by SIM	Benzo(a)pyrene	27200	ug/kg	1550	05/07/18 12:57	
EPA 8270 by SIM	Benzo(b)fluoranthene	27000	ug/kg	1740	05/07/18 12:57	
EPA 8270 by SIM	Benzo(g,h,i)perylene	11900	ug/kg	1250	05/07/18 12:57	
EPA 8270 by SIM	Benzo(k)fluoranthene	24600	ug/kg	1550	05/07/18 12:57	
EPA 8270 by SIM	Chrysene	29500	ug/kg	2070	05/07/18 12:57	
EPA 8270 by SIM	Dibenz(a,h)anthracene	4820	ug/kg	1380	05/07/18 12:57	
EPA 8270 by SIM	Fluoranthene	77100	ug/kg	3220	05/07/18 12:57	
EPA 8270 by SIM	Fluorene	3740	ug/kg	2550	05/07/18 12:57	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	13300	ug/kg	1360	05/07/18 12:57	
EPA 8270 by SIM	Phenanthrene	43900	ug/kg	7170	05/07/18 12:57	
EPA 8270 by SIM	Pyrene	66900	ug/kg	2770	05/07/18 12:57	
EPA 8260	Methylene Chloride	29.5J	ug/kg	69.3	05/03/18 21:32	
ASTM D2974-87	Percent Moisture	13.5	%	0.10	05/04/18 16:06	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40168281005	**HA-10 (12-14")**					
EPA 6010	Arsenic	5.2J	mg/kg	5.5	05/03/18 16:11	
EPA 6010	Barium	74.1	mg/kg	0.55	05/03/18 16:11	
EPA 6010	Cadmium	0.46J	mg/kg	0.55	05/03/18 16:11	
EPA 6010	Chromium	23.1	mg/kg	1.1	05/03/18 16:11	
EPA 6010	Lead	40.1	mg/kg	1.4	05/03/18 16:11	
EPA 7471	Mercury	0.13	mg/kg	0.042	05/03/18 13:08	
EPA 8270 by SIM	Acenaphthene	59.9J	ug/kg	74.8	05/07/18 11:47	
EPA 8270 by SIM	Anthracene	215	ug/kg	110	05/07/18 11:47	
EPA 8270 by SIM	Benzo(a)anthracene	792	ug/kg	61.5	05/07/18 11:47	
EPA 8270 by SIM	Benzo(a)pyrene	851	ug/kg	48.5	05/07/18 11:47	
EPA 8270 by SIM	Benzo(b)fluoranthene	787	ug/kg	54.6	05/07/18 11:47	
EPA 8270 by SIM	Benzo(g,h,i)perylene	448	ug/kg	39.3	05/07/18 11:47	
EPA 8270 by SIM	Benzo(k)fluoranthene	755	ug/kg	48.5	05/07/18 11:47	
EPA 8270 by SIM	Chrysene	873	ug/kg	65.0	05/07/18 11:47	
EPA 8270 by SIM	Dibenz(a,h)anthracene	157	ug/kg	43.2	05/07/18 11:47	
EPA 8270 by SIM	Fluoranthene	1980	ug/kg	101	05/07/18 11:47	
EPA 8270 by SIM	Fluorene	43.5J	ug/kg	80.0	05/07/18 11:47	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	455	ug/kg	42.5	05/07/18 11:47	
EPA 8270 by SIM	Phenanthrene	679	ug/kg	225	05/07/18 11:47	
EPA 8270 by SIM	Pyrene	1770	ug/kg	87.0	05/07/18 11:47	
ASTM D2974-87	Percent Moisture	13.7	%	0.10	05/04/18 16:06	
40168281006	**HA-12 (12-14")**					
EPA 6010	Arsenic	10.3	mg/kg	5.4	05/03/18 16:13	
EPA 6010	Barium	127	mg/kg	0.54	05/03/18 16:13	
EPA 6010	Cadmium	0.76	mg/kg	0.54	05/03/18 16:13	
EPA 6010	Chromium	22.1	mg/kg	1.1	05/03/18 16:13	
EPA 6010	Lead	314	mg/kg	1.4	05/03/18 16:13	
EPA 7471	Mercury	0.47	mg/kg	0.044	05/03/18 13:57	
EPA 8270 by SIM	Acenaphthene	1620	ug/kg	313	05/07/18 09:46	
EPA 8270 by SIM	Acenaphthylene	196J	ug/kg	267	05/07/18 09:46	
EPA 8270 by SIM	Anthracene	1890	ug/kg	461	05/07/18 09:46	
EPA 8270 by SIM	Benzo(a)anthracene	5420	ug/kg	257	05/07/18 09:46	
EPA 8270 by SIM	Benzo(a)pyrene	5300	ug/kg	203	05/07/18 09:46	
EPA 8270 by SIM	Benzo(b)fluoranthene	5300	ug/kg	228	05/07/18 09:46	
EPA 8270 by SIM	Benzo(g,h,i)perylene	2950	ug/kg	164	05/07/18 09:46	
EPA 8270 by SIM	Benzo(k)fluoranthene	4440	ug/kg	203	05/07/18 09:46	
EPA 8270 by SIM	Chrysene	5740	ug/kg	271	05/07/18 09:46	
EPA 8270 by SIM	Dibenz(a,h)anthracene	1120	ug/kg	181	05/07/18 09:46	
EPA 8270 by SIM	Fluoranthene	15500	ug/kg	422	05/07/18 09:46	
EPA 8270 by SIM	Fluorene	1270	ug/kg	335	05/07/18 09:46	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	2860	ug/kg	178	05/07/18 09:46	
EPA 8270 by SIM	1-Methylnaphthalene	532	ug/kg	325	05/07/18 09:46	
EPA 8270 by SIM	2-Methylnaphthalene	675	ug/kg	405	05/07/18 09:46	
EPA 8270 by SIM	Naphthalene	1690	ug/kg	681	05/07/18 09:46	
EPA 8270 by SIM	Phenanthrene	15500	ug/kg	940	05/07/18 09:46	
EPA 8270 by SIM	Pyrene	12400	ug/kg	364	05/07/18 09:46	
ASTM D2974-87	Percent Moisture	17.4	%	0.10	05/04/18 16:06	

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Sample: HA-2 (12-14") **Lab ID: 40168281001** Collected: 04/30/18 10:05 Received: 05/01/18 08:40 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**9.1**	mg/kg	5.8	1.2	1	05/03/18 07:54	05/03/18 15:56	7440-38-2	
Barium	**97.1**	mg/kg	0.58	0.17	1	05/03/18 07:54	05/03/18 15:56	7440-39-3	
Cadmium	**0.65**	mg/kg	0.58	0.15	1	05/03/18 07:54	05/03/18 15:56	7440-43-9	
Chromium	**22.6**	mg/kg	1.2	0.32	1	05/03/18 07:54	05/03/18 15:56	7440-47-3	
Lead	**163**	mg/kg	1.5	0.50	1	05/03/18 07:54	05/03/18 15:56	7439-92-1	
Selenium	**<1.3**	mg/kg	5.8	1.3	1	05/03/18 07:54	05/03/18 15:56	7782-49-2	
Silver	**<0.40**	mg/kg	1.2	0.40	1	05/03/18 07:54	05/03/18 15:56	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.21**	mg/kg	0.039	0.012	1	05/03/18 06:41	05/03/18 12:54	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**19.5**	ug/kg	15.2	4.6	1	05/04/18 08:41	05/07/18 10:20	83-32-9	
Acenaphthylene	**24.6**	ug/kg	12.9	3.9	1	05/04/18 08:41	05/07/18 10:20	208-96-8	
Anthracene	**85.9**	ug/kg	22.4	6.7	1	05/04/18 08:41	05/07/18 10:20	120-12-7	
Benzo(a)anthracene	**294**	ug/kg	12.5	3.7	1	05/04/18 08:41	05/07/18 10:20	56-55-3	
Benzo(a)pyrene	**325**	ug/kg	9.8	3.0	1	05/04/18 08:41	05/07/18 10:20	50-32-8	
Benzo(b)fluoranthene	**401**	ug/kg	11.1	3.3	1	05/04/18 08:41	05/07/18 10:20	205-99-2	
Benzo(g,h,i)perylene	**199**	ug/kg	8.0	2.4	1	05/04/18 08:41	05/07/18 10:20	191-24-2	
Benzo(k)fluoranthene	**283**	ug/kg	9.8	3.0	1	05/04/18 08:41	05/07/18 10:20	207-08-9	
Chrysene	**365**	ug/kg	13.2	4.0	1	05/04/18 08:41	05/07/18 10:20	218-01-9	
Dibenz(a,h)anthracene	**74.5**	ug/kg	8.8	2.6	1	05/04/18 08:41	05/07/18 10:20	53-70-3	
Fluoranthene	**694**	ug/kg	20.5	6.1	1	05/04/18 08:41	05/07/18 10:20	206-44-0	
Fluorene	**21.5**	ug/kg	16.2	4.9	1	05/04/18 08:41	05/07/18 10:20	86-73-7	
Indeno(1,2,3-cd)pyrene	**189**	ug/kg	8.6	2.6	1	05/04/18 08:41	05/07/18 10:20	193-39-5	
1-Methylnaphthalene	**134**	ug/kg	15.8	4.7	1	05/04/18 08:41	05/07/18 10:20	90-12-0	
2-Methylnaphthalene	**174**	ug/kg	19.6	5.9	1	05/04/18 08:41	05/07/18 10:20	91-57-6	
Naphthalene	**160**	ug/kg	33.1	9.9	1	05/04/18 08:41	05/07/18 10:20	91-20-3	
Phenanthrene	**379**	ug/kg	45.7	13.7	1	05/04/18 08:41	05/07/18 10:20	85-01-8	
Pyrene	**578**	ug/kg	17.6	5.3	1	05/04/18 08:41	05/07/18 10:20	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	10-115		1	05/04/18 08:41	05/07/18 10:20	321-60-8	
Terphenyl-d14 (S)	74	%	10-121		1	05/04/18 08:41	05/07/18 10:20	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/02/18 07:15	05/02/18 14:41	120-82-1	L2,W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Sample: HA-2 (12-14") **Lab ID: 40168281001** Collected: 04/30/18 10:05 Received: 05/01/18 08:40 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								
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/02/18 07:15	05/02/18 14:41	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/02/18 07:15	05/02/18 14:41	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/02/18 07:15	05/02/18 14:41	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/02/18 07:15	05/02/18 14:41	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/02/18 07:15	05/02/18 14:41	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	05/02/18 07:15	05/02/18 14:41	1330-20-7	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/02/18 07:15	05/02/18 14:41	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	104-51-8	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Sample: HA-2 (12-14") **Lab ID: 40168281001** Collected: 04/30/18 10:05 Received: 05/01/18 08:40 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								
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:41	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	68-130		1	05/02/18 07:15	05/02/18 14:41	1868-53-7	
Toluene-d8 (S)	92	%	68-149		1	05/02/18 07:15	05/02/18 14:41	2037-26-5	
4-Bromofluorobenzene (S)	82	%	58-141		1	05/02/18 07:15	05/02/18 14:41	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.9**	%	0.10	0.10	1		05/03/18 19:08		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Sample: HA-4 (12-14") **Lab ID: 40168281002** Collected: 04/30/18 09:45 Received: 05/01/18 08:40 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**7.4**	mg/kg	5.9	1.2	1	05/03/18 07:54	05/03/18 15:59	7440-38-2	
Barium	**70.9**	mg/kg	0.59	0.18	1	05/03/18 07:54	05/03/18 15:59	7440-39-3	
Cadmium	**0.69**	mg/kg	0.59	0.16	1	05/03/18 07:54	05/03/18 15:59	7440-43-9	
Chromium	**23.3**	mg/kg	1.2	0.33	1	05/03/18 07:54	05/03/18 15:59	7440-47-3	
Lead	**124**	mg/kg	1.5	0.51	1	05/03/18 07:54	05/03/18 15:59	7439-92-1	
Selenium	**<1.3**	mg/kg	5.9	1.3	1	05/03/18 07:54	05/03/18 15:59	7782-49-2	
Silver	**<0.40**	mg/kg	1.2	0.40	1	05/03/18 07:54	05/03/18 15:59	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.15**	mg/kg	0.044	0.013	1	05/03/18 06:41	05/03/18 13:01	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**33.6J**	ug/kg	62.9	18.9	4	05/04/18 08:41	05/07/18 11:13	83-32-9	
Acenaphthylene	**16.9J**	ug/kg	53.7	16.1	4	05/04/18 08:41	05/07/18 11:13	208-96-8	
Anthracene	**163**	ug/kg	92.7	27.9	4	05/04/18 08:41	05/07/18 11:13	120-12-7	
Benzo(a)anthracene	**652**	ug/kg	51.7	15.5	4	05/04/18 08:41	05/07/18 11:13	56-55-3	
Benzo(a)pyrene	**694**	ug/kg	40.8	12.3	4	05/04/18 08:41	05/07/18 11:13	50-32-8	
Benzo(b)fluoranthene	**648**	ug/kg	45.9	13.8	4	05/04/18 08:41	05/07/18 11:13	205-99-2	
Benzo(g,h,i)perylene	**382**	ug/kg	33.0	9.9	4	05/04/18 08:41	05/07/18 11:13	191-24-2	
Benzo(k)fluoranthene	**662**	ug/kg	40.8	12.2	4	05/04/18 08:41	05/07/18 11:13	207-08-9	
Chrysene	**718**	ug/kg	54.6	16.4	4	05/04/18 08:41	05/07/18 11:13	218-01-9	
Dibenz(a,h)anthracene	**136**	ug/kg	36.3	10.9	4	05/04/18 08:41	05/07/18 11:13	53-70-3	
Fluoranthene	**1550**	ug/kg	84.9	25.4	4	05/04/18 08:41	05/07/18 11:13	206-44-0	
Fluorene	**34.1J**	ug/kg	67.3	20.2	4	05/04/18 08:41	05/07/18 11:13	86-73-7	
Indeno(1,2,3-cd)pyrene	**390**	ug/kg	35.8	10.7	4	05/04/18 08:41	05/07/18 11:13	193-39-5	
1-Methylnaphthalene	**<19.6**	ug/kg	65.4	19.6	4	05/04/18 08:41	05/07/18 11:13	90-12-0	
2-Methylnaphthalene	**<24.4**	ug/kg	81.5	24.4	4	05/04/18 08:41	05/07/18 11:13	91-57-6	
Naphthalene	**52.2J**	ug/kg	137	41.1	4	05/04/18 08:41	05/07/18 11:13	91-20-3	
Phenanthrene	**578**	ug/kg	189	56.8	4	05/04/18 08:41	05/07/18 11:13	85-01-8	
Pyrene	**1420**	ug/kg	73.2	22.0	4	05/04/18 08:41	05/07/18 11:13	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	53	%	10-115		4	05/04/18 08:41	05/07/18 11:13	321-60-8	
Terphenyl-d14 (S)	65	%	10-121		4	05/04/18 08:41	05/07/18 11:13	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/02/18 07:15	05/02/18 15:04	120-82-1	L2,W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Sample: HA-4 (12-14") **Lab ID: 40168281002** Collected: 04/30/18 09:45 Received: 05/01/18 08:40 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								
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/02/18 07:15	05/02/18 15:04	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/02/18 07:15	05/02/18 15:04	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/02/18 07:15	05/02/18 15:04	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/02/18 07:15	05/02/18 15:04	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/02/18 07:15	05/02/18 15:04	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	05/02/18 07:15	05/02/18 15:04	1330-20-7	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/02/18 07:15	05/02/18 15:04	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	104-51-8	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Sample: HA-4 (12-14") **Lab ID: 40168281002** Collected: 04/30/18 09:45 Received: 05/01/18 08:40 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								
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:04	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	99	%	68-130		1	05/02/18 07:15	05/02/18 15:04	1868-53-7	
Toluene-d8 (S)	95	%	68-149		1	05/02/18 07:15	05/02/18 15:04	2037-26-5	
4-Bromofluorobenzene (S)	86	%	58-141		1	05/02/18 07:15	05/02/18 15:04	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.1**	%	0.10	0.10	1		05/03/18 19:08		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Sample: HA-6 (12-14") **Lab ID: 40168281003** Collected: 04/30/18 10:50 Received: 05/01/18 08:40 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**4.5J**	mg/kg	5.2	1.1	1	05/03/18 07:54	05/03/18 16:01	7440-38-2	
Barium	**44.2**	mg/kg	0.52	0.16	1	05/03/18 07:54	05/03/18 16:01	7440-39-3	
Cadmium	**0.25J**	mg/kg	0.52	0.14	1	05/03/18 07:54	05/03/18 16:01	7440-43-9	
Chromium	**13.1**	mg/kg	1.0	0.29	1	05/03/18 07:54	05/03/18 16:01	7440-47-3	
Lead	**125**	mg/kg	1.4	0.45	1	05/03/18 07:54	05/03/18 16:01	7439-92-1	
Selenium	**<1.2**	mg/kg	5.2	1.2	1	05/03/18 07:54	05/03/18 16:01	7782-49-2	
Silver	**<0.36**	mg/kg	1.0	0.36	1	05/03/18 07:54	05/03/18 16:01	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.13**	mg/kg	0.038	0.011	1	05/03/18 06:41	05/03/18 13:04	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.4**	ug/kg	14.7	4.4	1	05/04/18 08:41	05/04/18 21:52	83-32-9	
Acenaphthylene	**4.0J**	ug/kg	12.5	3.7	1	05/04/18 08:41	05/04/18 21:52	208-96-8	
Anthracene	**14.1J**	ug/kg	21.6	6.5	1	05/04/18 08:41	05/04/18 21:52	120-12-7	
Benzo(a)anthracene	**91.2**	ug/kg	12.0	3.6	1	05/04/18 08:41	05/04/18 21:52	56-55-3	
Benzo(a)pyrene	**83.9**	ug/kg	9.5	2.9	1	05/04/18 08:41	05/04/18 21:52	50-32-8	
Benzo(b)fluoranthene	**96.2**	ug/kg	10.7	3.2	1	05/04/18 08:41	05/04/18 21:52	205-99-2	
Benzo(g,h,i)perylene	**41.3**	ug/kg	7.7	2.3	1	05/04/18 08:41	05/04/18 21:52	191-24-2	
Benzo(k)fluoranthene	**84.6**	ug/kg	9.5	2.9	1	05/04/18 08:41	05/04/18 21:52	207-08-9	
Chrysene	**112**	ug/kg	12.7	3.8	1	05/04/18 08:41	05/04/18 21:52	218-01-9	
Dibenz(a,h)anthracene	**17.7**	ug/kg	8.5	2.5	1	05/04/18 08:41	05/04/18 21:52	53-70-3	
Fluoranthene	**197**	ug/kg	19.8	5.9	1	05/04/18 08:41	05/04/18 21:52	206-44-0	
Fluorene	**<4.7**	ug/kg	15.7	4.7	1	05/04/18 08:41	05/04/18 21:52	86-73-7	
Indeno(1,2,3-cd)pyrene	**45.8**	ug/kg	8.3	2.5	1	05/04/18 08:41	05/04/18 21:52	193-39-5	
1-Methylnaphthalene	**<4.6**	ug/kg	15.2	4.6	1	05/04/18 08:41	05/04/18 21:52	90-12-0	
2-Methylnaphthalene	**<5.7**	ug/kg	19.0	5.7	1	05/04/18 08:41	05/04/18 21:52	91-57-6	
Naphthalene	**<9.6**	ug/kg	31.9	9.6	1	05/04/18 08:41	05/04/18 21:52	91-20-3	
Phenanthrene	**50.6**	ug/kg	44.1	13.2	1	05/04/18 08:41	05/04/18 21:52	85-01-8	
Pyrene	**172**	ug/kg	17.0	5.1	1	05/04/18 08:41	05/04/18 21:52	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62	%	10-115		1	05/04/18 08:41	05/04/18 21:52	321-60-8	
Terphenyl-d14 (S)	91	%	10-121		1	05/04/18 08:41	05/04/18 21:52	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/02/18 07:15	05/02/18 15:27	120-82-1	L2,W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Sample: HA-6 (12-14") **Lab ID: 40168281003** Collected: 04/30/18 10:50 Received: 05/01/18 08:40 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								
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/02/18 07:15	05/02/18 15:27	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/02/18 07:15	05/02/18 15:27	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/02/18 07:15	05/02/18 15:27	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/02/18 07:15	05/02/18 15:27	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/02/18 07:15	05/02/18 15:27	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	05/02/18 07:15	05/02/18 15:27	1330-20-7	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/02/18 07:15	05/02/18 15:27	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	104-51-8	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Sample: HA-6 (12-14") **Lab ID: 40168281003** Collected: 04/30/18 10:50 Received: 05/01/18 08:40 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								
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 15:27	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	95	%	68-130		1	05/02/18 07:15	05/02/18 15:27	1868-53-7	
Toluene-d8 (S)	92	%	68-149		1	05/02/18 07:15	05/02/18 15:27	2037-26-5	
4-Bromofluorobenzene (S)	82	%	58-141		1	05/02/18 07:15	05/02/18 15:27	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.0**	%	0.10	0.10	1		05/04/18 16:05		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Sample: HA-8 (12-14") **Lab ID: 40168281004** Collected: 04/30/18 10:25 Received: 05/01/18 08:40 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**8.8**	mg/kg	5.8	1.2	1	05/03/18 07:54	05/03/18 16:08	7440-38-2	
Barium	**143**	mg/kg	0.58	0.17	1	05/03/18 07:54	05/03/18 16:08	7440-39-3	
Cadmium	**0.80**	mg/kg	0.58	0.15	1	05/03/18 07:54	05/03/18 16:08	7440-43-9	
Chromium	**22.9**	mg/kg	1.2	0.32	1	05/03/18 07:54	05/03/18 16:08	7440-47-3	
Lead	**306**	mg/kg	1.5	0.50	1	05/03/18 07:54	05/03/18 16:08	7439-92-1	
Selenium	**<1.3**	mg/kg	5.8	1.3	1	05/03/18 07:54	05/03/18 16:08	7782-49-2	
Silver	**<0.40**	mg/kg	1.2	0.40	1	05/03/18 07:54	05/03/18 16:08	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.22**	mg/kg	0.041	0.012	1	05/03/18 06:41	05/03/18 13:06	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**5240**	ug/kg	2380	717	160	05/04/18 08:41	05/07/18 12:57	83-32-9	
Acenaphthylene	**<609**	ug/kg	2030	609	160	05/04/18 08:41	05/07/18 12:57	208-96-8	
Anthracene	**10400**	ug/kg	3510	1060	160	05/04/18 08:41	05/07/18 12:57	120-12-7	
Benzo(a)anthracene	**26700**	ug/kg	1960	586	160	05/04/18 08:41	05/07/18 12:57	56-55-3	
Benzo(a)pyrene	**27200**	ug/kg	1550	464	160	05/04/18 08:41	05/07/18 12:57	50-32-8	
Benzo(b)fluoranthene	**27000**	ug/kg	1740	522	160	05/04/18 08:41	05/07/18 12:57	205-99-2	
Benzo(g,h,i)perylene	**11900**	ug/kg	1250	376	160	05/04/18 08:41	05/07/18 12:57	191-24-2	
Benzo(k)fluoranthene	**24600**	ug/kg	1550	464	160	05/04/18 08:41	05/07/18 12:57	207-08-9	
Chrysene	**29500**	ug/kg	2070	623	160	05/04/18 08:41	05/07/18 12:57	218-01-9	
Dibenz(a,h)anthracene	**4820**	ug/kg	1380	413	160	05/04/18 08:41	05/07/18 12:57	53-70-3	
Fluoranthene	**77100**	ug/kg	3220	963	160	05/04/18 08:41	05/07/18 12:57	206-44-0	
Fluorene	**3740**	ug/kg	2550	765	160	05/04/18 08:41	05/07/18 12:57	86-73-7	
Indeno(1,2,3-cd)pyrene	**13300**	ug/kg	1360	407	160	05/04/18 08:41	05/07/18 12:57	193-39-5	
1-Methylnaphthalene	**<744**	ug/kg	2480	744	160	05/04/18 08:41	05/07/18 12:57	90-12-0	
2-Methylnaphthalene	**<925**	ug/kg	3090	925	160	05/04/18 08:41	05/07/18 12:57	91-57-6	
Naphthalene	**<1560**	ug/kg	5190	1560	160	05/04/18 08:41	05/07/18 12:57	91-20-3	
Phenanthrene	**43900**	ug/kg	7170	2150	160	05/04/18 08:41	05/07/18 12:57	85-01-8	
Pyrene	**66900**	ug/kg	2770	834	160	05/04/18 08:41	05/07/18 12:57	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	0	%	10-115		160	05/04/18 08:41	05/07/18 12:57	321-60-8	S4
Terphenyl-d14 (S)	0	%	10-121		160	05/04/18 08:41	05/07/18 12:57	1718-51-0	S4
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/02/18 07:15	05/03/18 21:32	120-82-1	L2,W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Sample: HA-8 (12-14") **Lab ID: 40168281004** Collected: 04/30/18 10:25 Received: 05/01/18 08:40 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								
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/02/18 07:15	05/03/18 21:32	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/02/18 07:15	05/03/18 21:32	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/02/18 07:15	05/03/18 21:32	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/02/18 07:15	05/03/18 21:32	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	1634-04-4	W
Methylene Chloride	**29.5J**	ug/kg	69.3	28.9	1	05/02/18 07:15	05/03/18 21:32	75-09-2	
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/02/18 07:15	05/03/18 21:32	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	05/02/18 07:15	05/03/18 21:32	1330-20-7	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/02/18 07:15	05/03/18 21:32	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	104-51-8	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Sample: HA-8 (12-14") **Lab ID: 40168281004** Collected: 04/30/18 10:25 Received: 05/01/18 08:40 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								
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:32	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	96	%	68-130		1	05/02/18 07:15	05/03/18 21:32	1868-53-7	
Toluene-d8 (S)	96	%	68-149		1	05/02/18 07:15	05/03/18 21:32	2037-26-5	
4-Bromofluorobenzene (S)	87	%	58-141		1	05/02/18 07:15	05/03/18 21:32	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.5**	%	0.10	0.10	1		05/04/18 16:06		

REPORT OF LABORATORY ANALYSIS

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

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Sample: HA-10 (12-14") **Lab ID: 40168281005** Collected: 04/30/18 09:15 Received: 05/01/18 08:40 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**5.2J**	mg/kg	5.5	1.2	1	05/03/18 07:54	05/03/18 16:11	7440-38-2	
Barium	**74.1**	mg/kg	0.55	0.17	1	05/03/18 07:54	05/03/18 16:11	7440-39-3	
Cadmium	**0.46J**	mg/kg	0.55	0.15	1	05/03/18 07:54	05/03/18 16:11	7440-43-9	
Chromium	**23.1**	mg/kg	1.1	0.31	1	05/03/18 07:54	05/03/18 16:11	7440-47-3	
Lead	**40.1**	mg/kg	1.4	0.48	1	05/03/18 07:54	05/03/18 16:11	7439-92-1	
Selenium	**<1.2**	mg/kg	5.5	1.2	1	05/03/18 07:54	05/03/18 16:11	7782-49-2	
Silver	**<0.38**	mg/kg	1.1	0.38	1	05/03/18 07:54	05/03/18 16:11	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.13**	mg/kg	0.042	0.012	1	05/03/18 06:41	05/03/18 13:08	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**59.9J**	ug/kg	74.8	22.5	5	05/04/18 08:41	05/07/18 11:47	83-32-9	
Acenaphthylene	**<19.1**	ug/kg	63.8	19.1	5	05/04/18 08:41	05/07/18 11:47	208-96-8	
Anthracene	**215**	ug/kg	110	33.1	5	05/04/18 08:41	05/07/18 11:47	120-12-7	
Benzo(a)anthracene	**792**	ug/kg	61.5	18.4	5	05/04/18 08:41	05/07/18 11:47	56-55-3	
Benzo(a)pyrene	**851**	ug/kg	48.5	14.6	5	05/04/18 08:41	05/07/18 11:47	50-32-8	
Benzo(b)fluoranthene	**787**	ug/kg	54.6	16.4	5	05/04/18 08:41	05/07/18 11:47	205-99-2	
Benzo(g,h,i)perylene	**448**	ug/kg	39.3	11.8	5	05/04/18 08:41	05/07/18 11:47	191-24-2	
Benzo(k)fluoranthene	**755**	ug/kg	48.5	14.6	5	05/04/18 08:41	05/07/18 11:47	207-08-9	
Chrysene	**873**	ug/kg	65.0	19.6	5	05/04/18 08:41	05/07/18 11:47	218-01-9	
Dibenz(a,h)anthracene	**157**	ug/kg	43.2	13.0	5	05/04/18 08:41	05/07/18 11:47	53-70-3	
Fluoranthene	**1980**	ug/kg	101	30.2	5	05/04/18 08:41	05/07/18 11:47	206-44-0	
Fluorene	**43.5J**	ug/kg	80.0	24.0	5	05/04/18 08:41	05/07/18 11:47	86-73-7	
Indeno(1,2,3-cd)pyrene	**455**	ug/kg	42.5	12.8	5	05/04/18 08:41	05/07/18 11:47	193-39-5	
1-Methylnaphthalene	**<23.3**	ug/kg	77.7	23.3	5	05/04/18 08:41	05/07/18 11:47	90-12-0	
2-Methylnaphthalene	**<29.0**	ug/kg	96.8	29.0	5	05/04/18 08:41	05/07/18 11:47	91-57-6	
Naphthalene	**<48.8**	ug/kg	163	48.8	5	05/04/18 08:41	05/07/18 11:47	91-20-3	
Phenanthrene	**679**	ug/kg	225	67.6	5	05/04/18 08:41	05/07/18 11:47	85-01-8	
Pyrene	**1770**	ug/kg	87.0	26.2	5	05/04/18 08:41	05/07/18 11:47	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	47	%	10-115		5	05/04/18 08:41	05/07/18 11:47	321-60-8	
Terphenyl-d14 (S)	56	%	10-121		5	05/04/18 08:41	05/07/18 11:47	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/02/18 07:15	05/03/18 18:27	120-82-1	L2,W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Sample: HA-10 (12-14") **Lab ID: 40168281005** Collected: 04/30/18 09:15 Received: 05/01/18 08:40 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								
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/02/18 07:15	05/03/18 18:27	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/02/18 07:15	05/03/18 18:27	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/02/18 07:15	05/03/18 18:27	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/02/18 07:15	05/03/18 18:27	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/02/18 07:15	05/03/18 18:27	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	05/02/18 07:15	05/03/18 18:27	1330-20-7	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/02/18 07:15	05/03/18 18:27	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	104-51-8	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Sample: HA-10 (12-14") **Lab ID: 40168281005** Collected: 04/30/18 09:15 Received: 05/01/18 08:40 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								
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:27	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	95	%	68-130		1	05/02/18 07:15	05/03/18 18:27	1868-53-7	
Toluene-d8 (S)	92	%	68-149		1	05/02/18 07:15	05/03/18 18:27	2037-26-5	
4-Bromofluorobenzene (S)	81	%	58-141		1	05/02/18 07:15	05/03/18 18:27	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.7**	%	0.10	0.10	1		05/04/18 16:06		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Sample: HA-12 (12-14") **Lab ID: 40168281006** Collected: 04/30/18 11:30 Received: 05/01/18 08:40 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**10.3**	mg/kg	5.4	1.1	1	05/03/18 07:54	05/03/18 16:13	7440-38-2	
Barium	**127**	mg/kg	0.54	0.16	1	05/03/18 07:54	05/03/18 16:13	7440-39-3	
Cadmium	**0.76**	mg/kg	0.54	0.14	1	05/03/18 07:54	05/03/18 16:13	7440-43-9	
Chromium	**22.1**	mg/kg	1.1	0.30	1	05/03/18 07:54	05/03/18 16:13	7440-47-3	
Lead	**314**	mg/kg	1.4	0.47	1	05/03/18 07:54	05/03/18 16:13	7439-92-1	
Selenium	**<1.2**	mg/kg	5.4	1.2	1	05/03/18 07:54	05/03/18 16:13	7782-49-2	
Silver	**<0.37**	mg/kg	1.1	0.37	1	05/03/18 07:54	05/03/18 16:13	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.47**	mg/kg	0.044	0.013	1	05/03/18 07:04	05/03/18 13:57	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**1620**	ug/kg	313	94.1	20	05/04/18 08:41	05/07/18 09:46	83-32-9	
Acenaphthylene	**196J**	ug/kg	267	79.9	20	05/04/18 08:41	05/07/18 09:46	208-96-8	
Anthracene	**1890**	ug/kg	461	138	20	05/04/18 08:41	05/07/18 09:46	120-12-7	
Benzo(a)anthracene	**5420**	ug/kg	257	76.9	20	05/04/18 08:41	05/07/18 09:46	56-55-3	
Benzo(a)pyrene	**5300**	ug/kg	203	60.9	20	05/04/18 08:41	05/07/18 09:46	50-32-8	
Benzo(b)fluoranthene	**5300**	ug/kg	228	68.5	20	05/04/18 08:41	05/07/18 09:46	205-99-2	
Benzo(g,h,i)perylene	**2950**	ug/kg	164	49.3	20	05/04/18 08:41	05/07/18 09:46	191-24-2	
Benzo(k)fluoranthene	**4440**	ug/kg	203	60.8	20	05/04/18 08:41	05/07/18 09:46	207-08-9	
Chrysene	**5740**	ug/kg	271	81.7	20	05/04/18 08:41	05/07/18 09:46	218-01-9	
Dibenz(a,h)anthracene	**1120**	ug/kg	181	54.2	20	05/04/18 08:41	05/07/18 09:46	53-70-3	
Fluoranthene	**15500**	ug/kg	422	126	20	05/04/18 08:41	05/07/18 09:46	206-44-0	
Fluorene	**1270**	ug/kg	335	100	20	05/04/18 08:41	05/07/18 09:46	86-73-7	
Indeno(1,2,3-cd)pyrene	**2860**	ug/kg	178	53.3	20	05/04/18 08:41	05/07/18 09:46	193-39-5	
1-Methylnaphthalene	**532**	ug/kg	325	97.5	20	05/04/18 08:41	05/07/18 09:46	90-12-0	
2-Methylnaphthalene	**675**	ug/kg	405	121	20	05/04/18 08:41	05/07/18 09:46	91-57-6	
Naphthalene	**1690**	ug/kg	681	204	20	05/04/18 08:41	05/07/18 09:46	91-20-3	
Phenanthrene	**15500**	ug/kg	940	282	20	05/04/18 08:41	05/07/18 09:46	85-01-8	
Pyrene	**12400**	ug/kg	364	109	20	05/04/18 08:41	05/07/18 09:46	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	48	%	10-115		20	05/04/18 08:41	05/07/18 09:46	321-60-8	
Terphenyl-d14 (S)	55	%	10-121		20	05/04/18 08:41	05/07/18 09:46	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/02/18 07:15	05/03/18 18:51	120-82-1	L2,W

REPORT OF LABORATORY ANALYSIS

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

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Sample: HA-12 (12-14") **Lab ID: 40168281006** Collected: 04/30/18 11:30 Received: 05/01/18 08:40 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								
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/02/18 07:15	05/03/18 18:51	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/02/18 07:15	05/03/18 18:51	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/02/18 07:15	05/03/18 18:51	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/02/18 07:15	05/03/18 18:51	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/02/18 07:15	05/03/18 18:51	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	05/02/18 07:15	05/03/18 18:51	1330-20-7	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/02/18 07:15	05/03/18 18:51	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	104-51-8	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Sample: HA-12 (12-14") **Lab ID: 40168281006** Collected: 04/30/18 11:30 Received: 05/01/18 08:40 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								
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:51	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	96	%	68-130		1	05/02/18 07:15	05/03/18 18:51	1868-53-7	
Toluene-d8 (S)	93	%	68-149		1	05/02/18 07:15	05/03/18 18:51	2037-26-5	
4-Bromofluorobenzene (S)	82	%	58-141		1	05/02/18 07:15	05/03/18 18:51	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.4**	%	0.10	0.10	1		05/04/18 16:06		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Sample: TRIP BLANK **Lab ID: 40168281007** Collected: 04/30/18 00:00 Received: 05/01/18 08:40 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/02/18 07:15	05/02/18 14:18	120-82-1	L2,W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/02/18 07:15	05/02/18 14:18	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/02/18 07:15	05/02/18 14:18	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/02/18 07:15	05/02/18 14:18	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/02/18 07:15	05/02/18 14:18	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/02/18 07:15	05/02/18 14:18	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Sample: TRIP BLANK **Lab ID: 40168281007** Collected: 04/30/18 00:00 Received: 05/01/18 08:40 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								
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	05/02/18 07:15	05/02/18 14:18	1330-20-7	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/02/18 07:15	05/02/18 14:18	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/02/18 14:18	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	79	%	68-130		1	05/02/18 07:15	05/02/18 14:18	1868-53-7	
Toluene-d8 (S)	76	%	68-149		1	05/02/18 07:15	05/02/18 14:18	2037-26-5	
4-Bromofluorobenzene (S)	74	%	58-141		1	05/02/18 07:15	05/02/18 14:18	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: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

QC Batch: 287677 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 40168281001, 40168281002, 40168281003, 40168281004, 40168281005

METHOD BLANK: 1683000 Matrix: Solid
Associated Lab Samples: 40168281001, 40168281002, 40168281003, 40168281004, 40168281005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.011	0.037	05/03/18 12:08	

LABORATORY CONTROL SAMPLE: 1683001

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.83	0.85	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1683002 1683003

Parameter	Units	40167838002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.024J	1	1	1.1	1.0	101	100	85-115	1	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

QC Batch: 287678 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 40168281006

METHOD BLANK: 1683004 Matrix: Solid
Associated Lab Samples: 40168281006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.011	0.037	05/03/18 13:10	

LABORATORY CONTROL SAMPLE: 1683005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.83	0.85	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1683006 1683007

Parameter	Units	40167930001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.13	.94	.94	1.2	1.1	113	105	85-115	6	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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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

QC Batch: 287654 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40168281001, 40168281002, 40168281003, 40168281004, 40168281005, 40168281006

METHOD BLANK: 1682920 Matrix: Solid
Associated Lab Samples: 40168281001, 40168281002, 40168281003, 40168281004, 40168281005, 40168281006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.0	5.0	05/03/18 15:44	
Barium	mg/kg	<0.15	0.50	05/03/18 15:44	
Cadmium	mg/kg	<0.13	0.50	05/03/18 15:44	
Chromium	mg/kg	<0.28	1.0	05/03/18 15:44	
Lead	mg/kg	<0.43	1.3	05/03/18 15:44	
Selenium	mg/kg	<1.1	5.0	05/03/18 15:44	
Silver	mg/kg	<0.34	1.0	05/03/18 15:44	

LABORATORY CONTROL SAMPLE: 1682921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	49.5	99	80-120	
Barium	mg/kg	50	48.8	98	80-120	
Cadmium	mg/kg	50	49.4	99	80-120	
Chromium	mg/kg	50	48.0	96	80-120	
Lead	mg/kg	50	47.8	96	80-120	
Selenium	mg/kg	50	50.1	100	80-120	
Silver	mg/kg	25	24.3	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1682922 1682923

Parameter	Units	40168272001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	3.8J	49.8	49.9	48.8	50.1	90	93	75-125	3	20	
Barium	mg/kg	20.0	49.8	49.9	66.5	67.9	93	96	75-125	2	20	
Cadmium	mg/kg	<0.13	49.8	49.9	48.4	48.8	97	97	75-125	1	20	
Chromium	mg/kg	10.7	49.8	49.9	53.2	53.6	85	86	75-125	1	20	
Lead	mg/kg	3.2	49.8	49.9	47.1	46.4	88	86	75-125	2	20	
Selenium	mg/kg	<1.1	49.8	49.9	47.6	47.0	96	94	75-125	1	20	
Silver	mg/kg	<0.34	24.9	25	23.9	24.2	96	97	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: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

QC Batch: 287638 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40168281001, 40168281002, 40168281003, 40168281004, 40168281005, 40168281006, 40168281007

METHOD BLANK: 1682849 Matrix: Solid
Associated Lab Samples: 40168281001, 40168281002, 40168281003, 40168281004, 40168281005, 40168281006, 40168281007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	05/02/18 11:13	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	05/02/18 11:13	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	05/02/18 11:13	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	05/02/18 11:13	
1,1-Dichloroethane	ug/kg	<17.6	50.0	05/02/18 11:13	
1,1-Dichloroethene	ug/kg	<17.6	50.0	05/02/18 11:13	
1,1-Dichloropropene	ug/kg	<14.0	50.0	05/02/18 11:13	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	05/02/18 11:13	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	05/02/18 11:13	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	05/02/18 11:13	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	05/02/18 11:13	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	05/02/18 11:13	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	05/02/18 11:13	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	05/02/18 11:13	
1,2-Dichloroethane	ug/kg	<15.0	50.0	05/02/18 11:13	
1,2-Dichloropropane	ug/kg	<16.8	50.0	05/02/18 11:13	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	05/02/18 11:13	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	05/02/18 11:13	
1,3-Dichloropropane	ug/kg	<12.0	50.0	05/02/18 11:13	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	05/02/18 11:13	
2,2-Dichloropropane	ug/kg	<12.6	50.0	05/02/18 11:13	
2-Chlorotoluene	ug/kg	<15.8	50.0	05/02/18 11:13	
4-Chlorotoluene	ug/kg	<13.0	50.0	05/02/18 11:13	
Benzene	ug/kg	<9.2	20.0	05/02/18 11:13	
Bromobenzene	ug/kg	<20.6	50.0	05/02/18 11:13	
Bromochloromethane	ug/kg	<21.4	50.0	05/02/18 11:13	
Bromodichloromethane	ug/kg	<9.8	50.0	05/02/18 11:13	
Bromoform	ug/kg	<19.8	50.0	05/02/18 11:13	
Bromomethane	ug/kg	<69.9	250	05/02/18 11:13	
Carbon tetrachloride	ug/kg	<12.1	50.0	05/02/18 11:13	
Chlorobenzene	ug/kg	<14.8	50.0	05/02/18 11:13	
Chloroethane	ug/kg	<67.0	250	05/02/18 11:13	
Chloroform	ug/kg	<46.4	250	05/02/18 11:13	
Chloromethane	ug/kg	<20.4	50.0	05/02/18 11:13	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	05/02/18 11:13	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	05/02/18 11:13	
Dibromochloromethane	ug/kg	<17.9	50.0	05/02/18 11:13	
Dibromomethane	ug/kg	<19.3	50.0	05/02/18 11:13	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	05/02/18 11:13	
Diisopropyl ether	ug/kg	<17.7	50.0	05/02/18 11:13	
Ethylbenzene	ug/kg	<12.4	50.0	05/02/18 11:13	

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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: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

METHOD BLANK: 1682849 Matrix: Solid
Associated Lab Samples: 40168281001, 40168281002, 40168281003, 40168281004, 40168281005, 40168281006, 40168281007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	05/02/18 11:13	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	05/02/18 11:13	
m&p-Xylene	ug/kg	<34.4	100	05/02/18 11:13	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	05/02/18 11:13	
Methylene Chloride	ug/kg	20.3J	50.0	05/02/18 11:13	
n-Butylbenzene	ug/kg	<10.5	50.0	05/02/18 11:13	
n-Propylbenzene	ug/kg	<11.6	50.0	05/02/18 11:13	
Naphthalene	ug/kg	<40.0	250	05/02/18 11:13	
o-Xylene	ug/kg	<14.0	50.0	05/02/18 11:13	
p-Isopropyltoluene	ug/kg	<12.0	50.0	05/02/18 11:13	
sec-Butylbenzene	ug/kg	<11.9	50.0	05/02/18 11:13	
Styrene	ug/kg	<9.0	50.0	05/02/18 11:13	
tert-Butylbenzene	ug/kg	<9.5	50.0	05/02/18 11:13	
Tetrachloroethene	ug/kg	<12.9	50.0	05/02/18 11:13	
Toluene	ug/kg	<11.2	50.0	05/02/18 11:13	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	05/02/18 11:13	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	05/02/18 11:13	
Trichloroethene	ug/kg	<23.6	50.0	05/02/18 11:13	
Trichlorofluoromethane	ug/kg	<24.7	50.0	05/02/18 11:13	
Vinyl chloride	ug/kg	<21.1	50.0	05/02/18 11:13	
Xylene (Total)	ug/kg	<48.4	150	05/02/18 11:13	
4-Bromofluorobenzene (S)	%	72	58-141	05/02/18 11:13	
Dibromofluoromethane (S)	%	87	68-130	05/02/18 11:13	
Toluene-d8 (S)	%	84	68-149	05/02/18 11:13	

LABORATORY CONTROL SAMPLE: 1682850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	2500	2380	95	70-130	
1,1,1-Trichloroethane	ug/kg	2500	2160	87	61-122	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2390	96	73-130	
1,1,2-Trichloroethane	ug/kg	2500	2320	93	70-130	
1,1-Dichloroethane	ug/kg	2500	2130	85	63-124	
1,1-Dichloroethene	ug/kg	2500	2210	89	53-117	
1,1-Dichloropropene	ug/kg	2500	2090	84	70-130	
1,2,3-Trichlorobenzene	ug/kg	2500	1810	72	70-130	
1,2,3-Trichloropropane	ug/kg	2500	2180	87	74-130	
1,2,4-Trichlorobenzene	ug/kg	2500	1830	73	78-130	L2
1,2,4-Trimethylbenzene	ug/kg	2500	2110	84	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2190	88	49-140	
1,2-Dibromoethane (EDB)	ug/kg	2500	2360	94	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2160	87	70-130	
1,2-Dichloroethane	ug/kg	2500	2030	81	56-135	
1,2-Dichloropropane	ug/kg	2500	2240	90	77-122	

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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: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

LABORATORY CONTROL SAMPLE: 1682850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3,5-Trimethylbenzene	ug/kg	2500	2050	82	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2140	86	70-130	
1,3-Dichloropropane	ug/kg	2500	2200	88	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2170	87	70-130	
2,2-Dichloropropane	ug/kg	2500	2130	85	70-118	
2-Chlorotoluene	ug/kg	2500	2000	80	70-130	
4-Chlorotoluene	ug/kg	2500	2000	80	70-130	
Benzene	ug/kg	2500	2000	80	66-130	
Bromobenzene	ug/kg	2500	2070	83	70-130	
Bromochloromethane	ug/kg	2500	2220	89	70-130	
Bromodichloromethane	ug/kg	2500	2280	91	62-135	
Bromoform	ug/kg	2500	2070	83	68-130	
Bromomethane	ug/kg	2500	2490	99	29-137	
Carbon tetrachloride	ug/kg	2500	2250	90	57-130	
Chlorobenzene	ug/kg	2500	2200	88	70-130	
Chloroethane	ug/kg	2500	2380	95	36-144	
Chloroform	ug/kg	2500	2250	90	69-115	
Chloromethane	ug/kg	2500	2170	87	32-126	
cis-1,2-Dichloroethene	ug/kg	2500	1980	79	65-130	
cis-1,3-Dichloropropene	ug/kg	2500	2300	92	70-130	
Dibromochloromethane	ug/kg	2500	2120	85	70-130	
Dibromomethane	ug/kg	2500	2200	88	70-130	
Dichlorodifluoromethane	ug/kg	2500	1660	66	10-99	
Diisopropyl ether	ug/kg	2500	2170	87	70-130	
Ethylbenzene	ug/kg	2500	2240	90	82-122	
Hexachloro-1,3-butadiene	ug/kg	2500	1830	73	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2120	85	70-130	
m&p-Xylene	ug/kg	5000	4330	87	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2200	88	63-134	
Methylene Chloride	ug/kg	2500	2140	85	56-123	
n-Butylbenzene	ug/kg	2500	1960	78	70-130	
n-Propylbenzene	ug/kg	2500	2010	80	70-130	
Naphthalene	ug/kg	2500	1960	78	70-130	
o-Xylene	ug/kg	2500	2150	86	70-130	
p-Isopropyltoluene	ug/kg	2500	1870	75	70-130	
sec-Butylbenzene	ug/kg	2500	1910	76	70-130	
Styrene	ug/kg	2500	2200	88	70-130	
tert-Butylbenzene	ug/kg	2500	1890	76	70-130	
Tetrachloroethene	ug/kg	2500	2170	87	70-131	
Toluene	ug/kg	2500	2200	88	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2180	87	66-130	
trans-1,3-Dichloropropene	ug/kg	2500	2180	87	68-130	
Trichloroethene	ug/kg	2500	2180	87	70-130	
Trichlorofluoromethane	ug/kg	2500	2320	93	37-149	
Vinyl chloride	ug/kg	2500	2110	84	43-128	
Xylene (Total)	ug/kg	7500	6480	86	70-130	
4-Bromofluorobenzene (S)	%			78	58-141	

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REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

LABORATORY CONTROL SAMPLE: 1682850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromofluoromethane (S)	%			88	68-130	
Toluene-d8 (S)	%			83	68-149	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1682851 1682852

Parameter	Units	40168281001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	<25.0	1470	1470	1380	1410	94	96	70-130	2	20	
1,1,1-Trichloroethane	ug/kg	<25.0	1470	1470	1150	1130	78	77	57-123	2	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1470	1470	1530	1550	104	105	73-135	1	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1470	1470	1380	1390	94	95	70-130	1	20	
1,1-Dichloroethane	ug/kg	<25.0	1470	1470	1190	1230	81	84	63-124	3	20	
1,1-Dichloroethene	ug/kg	<25.0	1470	1470	1100	1040	75	71	48-117	6	23	
1,1-Dichloropropene	ug/kg	<25.0	1470	1470	1120	1110	76	76	59-130	1	20	
1,2,3-Trichlorobenzene	ug/kg	<25.0	1470	1470	1200	1170	82	80	70-130	3	20	
1,2,3-Trichloropropane	ug/kg	<25.0	1470	1470	1380	1340	94	91	74-135	3	20	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1470	1470	1180	1140	81	78	78-145	4	20	
1,2,4-Trimethylbenzene	ug/kg	<25.0	1470	1470	1220	1200	83	82	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1470	1470	1520	1460	104	99	38-168	4	22	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1470	1470	1360	1330	93	91	70-130	2	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1470	1470	1370	1380	94	94	70-130	0	20	
1,2-Dichloroethane	ug/kg	<25.0	1470	1470	1230	1220	84	83	56-145	1	20	
1,2-Dichloropropane	ug/kg	<25.0	1470	1470	1280	1270	87	86	77-123	1	20	
1,3,5-Trimethylbenzene	ug/kg	<25.0	1470	1470	1190	1180	81	80	70-130	1	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1470	1470	1350	1330	92	90	70-130	2	20	
1,3-Dichloropropane	ug/kg	<25.0	1470	1470	1320	1290	90	88	70-130	3	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1470	1470	1310	1320	90	90	70-130	1	20	
2,2-Dichloropropane	ug/kg	<25.0	1470	1470	1110	1100	76	75	43-118	2	20	
2-Chlorotoluene	ug/kg	<25.0	1470	1470	1220	1190	83	81	70-130	3	20	
4-Chlorotoluene	ug/kg	<25.0	1470	1470	1280	1220	87	83	70-130	5	20	
Benzene	ug/kg	<25.0	1470	1470	1140	1150	78	78	65-130	1	20	
Bromobenzene	ug/kg	<25.0	1470	1470	1280	1300	87	89	70-130	2	20	
Bromochloromethane	ug/kg	<25.0	1470	1470	1350	1300	92	89	70-130	4	20	
Bromodichloromethane	ug/kg	<25.0	1470	1470	1350	1300	92	88	59-141	4	20	
Bromoform	ug/kg	<25.0	1470	1470	1360	1360	93	93	59-141	0	20	
Bromomethane	ug/kg	<69.9	1470	1470	1510	1470	103	100	28-139	2	20	
Carbon tetrachloride	ug/kg	<25.0	1470	1470	1090	1070	74	73	50-130	2	20	
Chlorobenzene	ug/kg	<25.0	1470	1470	1300	1300	89	89	70-130	0	20	
Chloroethane	ug/kg	<67.0	1470	1470	1350	1320	92	90	36-144	2	20	
Chloroform	ug/kg	<46.4	1470	1470	1250	1270	85	86	68-122	2	20	
Chloromethane	ug/kg	<25.0	1470	1470	1250	1240	85	84	30-126	1	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1470	1470	1160	1180	79	80	63-130	1	20	
cis-1,3-Dichloropropene	ug/kg	<25.0	1470	1470	1270	1250	87	85	70-130	2	20	
Dibromochloromethane	ug/kg	<25.0	1470	1470	1350	1360	92	93	66-136	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: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1682851 1682852

Parameter	Units	40168281001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dibromomethane	ug/kg	<25.0	1470	1470	1320	1240	90	85	70-130	6	20	
Dichlorodifluoromethane	ug/kg	<25.0	1470	1470	998	904	68	62	10-99	10	33	
Diisopropyl ether	ug/kg	<25.0	1470	1470	1290	1250	88	85	66-140	3	20	
Ethylbenzene	ug/kg	<25.0	1470	1470	1240	1240	84	85	80-122	0	20	
Hexachloro-1,3-butadiene	ug/kg	<25.0	1470	1470	1140	1060	78	72	56-138	7	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1470	1470	1180	1170	80	80	70-130	1	20	
m&p-Xylene	ug/kg	<50.0	2940	2940	2450	2450	83	83	70-130	0	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1470	1470	1390	1330	95	90	63-134	5	20	
Methylene Chloride	ug/kg	<25.0	1470	1470	1270	1230	85	82	56-127	4	20	
n-Butylbenzene	ug/kg	<25.0	1470	1470	1100	1080	75	74	63-130	2	20	
n-Propylbenzene	ug/kg	<25.0	1470	1470	1150	1140	79	78	69-130	1	20	
Naphthalene	ug/kg	<40.0	1470	1470	1280	1230	87	84	70-130	4	20	
o-Xylene	ug/kg	<25.0	1470	1470	1240	1270	84	87	70-130	3	20	
p-Isopropyltoluene	ug/kg	<25.0	1470	1470	1100	1090	75	74	70-130	2	20	
sec-Butylbenzene	ug/kg	<25.0	1470	1470	1080	1080	74	73	61-130	0	20	
Styrene	ug/kg	<25.0	1470	1470	1270	1250	87	85	70-130	2	20	
tert-Butylbenzene	ug/kg	<25.0	1470	1470	1110	1110	75	75	69-130	0	20	
Tetrachloroethene	ug/kg	<25.0	1470	1470	1210	1120	82	77	70-131	7	20	
Toluene	ug/kg	<25.0	1470	1470	1270	1240	86	85	80-120	2	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1470	1470	1140	1120	78	76	60-130	2	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1470	1470	1360	1370	93	93	68-130	1	20	
Trichloroethene	ug/kg	<25.0	1470	1470	1170	1110	79	76	70-130	5	20	
Trichlorofluoromethane	ug/kg	<25.0	1470	1470	1150	1000	78	68	37-149	14	24	
Vinyl chloride	ug/kg	<25.0	1470	1470	1100	1080	75	73	39-128	3	20	
Xylene (Total)	ug/kg	<75.0	4400	4400	3690	3720	84	84	70-130	1	20	
4-Bromofluorobenzene (S)	%						89	87	58-141			
Dibromofluoromethane (S)	%						96	96	68-130			
Toluene-d8 (S)	%						93	91	68-149			

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: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

QC Batch: 287886 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40168281001, 40168281002, 40168281003, 40168281004, 40168281005, 40168281006

METHOD BLANK: 1684262 Matrix: Solid
Associated Lab Samples: 40168281001, 40168281002, 40168281003, 40168281004, 40168281005, 40168281006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<4.0	13.4	05/04/18 16:04	
2-Methylnaphthalene	ug/kg	<5.0	16.7	05/04/18 16:04	
Acenaphthene	ug/kg	<3.9	12.9	05/04/18 16:04	
Acenaphthylene	ug/kg	<3.3	11.0	05/04/18 16:04	
Anthracene	ug/kg	<5.7	19.0	05/04/18 16:04	
Benzo(a)anthracene	ug/kg	<3.2	10.6	05/04/18 16:04	
Benzo(a)pyrene	ug/kg	<2.5	8.4	05/04/18 16:04	
Benzo(b)fluoranthene	ug/kg	<2.8	9.4	05/04/18 16:04	
Benzo(g,h,i)perylene	ug/kg	<2.0	6.8	05/04/18 16:04	
Benzo(k)fluoranthene	ug/kg	<2.5	8.4	05/04/18 16:04	
Chrysene	ug/kg	<3.4	11.2	05/04/18 16:04	
Dibenz(a,h)anthracene	ug/kg	<2.2	7.4	05/04/18 16:04	
Fluoranthene	ug/kg	<5.2	17.4	05/04/18 16:04	
Fluorene	ug/kg	<4.1	13.8	05/04/18 16:04	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.2	7.3	05/04/18 16:04	
Naphthalene	ug/kg	<8.4	28.1	05/04/18 16:04	
Phenanthrene	ug/kg	<11.6	38.8	05/04/18 16:04	
Pyrene	ug/kg	<4.5	15.0	05/04/18 16:04	
2-Fluorobiphenyl (S)	%	80	10-115	05/04/18 16:04	
Terphenyl-d14 (S)	%	100	10-121	05/04/18 16:04	

LABORATORY CONTROL SAMPLE: 1684263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	224	67	48-99	
2-Methylnaphthalene	ug/kg	333	220	66	47-91	
Acenaphthene	ug/kg	333	216	65	53-98	
Acenaphthylene	ug/kg	333	213	64	52-96	
Anthracene	ug/kg	333	234	70	55-105	
Benzo(a)anthracene	ug/kg	333	245	74	55-98	
Benzo(a)pyrene	ug/kg	333	240	72	57-100	
Benzo(b)fluoranthene	ug/kg	333	252	76	57-103	
Benzo(g,h,i)perylene	ug/kg	333	218	65	39-103	
Benzo(k)fluoranthene	ug/kg	333	245	73	53-111	
Chrysene	ug/kg	333	250	75	55-102	
Dibenz(a,h)anthracene	ug/kg	333	226	68	47-97	
Fluoranthene	ug/kg	333	242	73	51-118	
Fluorene	ug/kg	333	217	65	55-99	
Indeno(1,2,3-cd)pyrene	ug/kg	333	231	69	47-108	
Naphthalene	ug/kg	333	214	64	48-95	

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: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

LABORATORY CONTROL SAMPLE: 1684263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	238	71	55-105	
Pyrene	ug/kg	333	235	71	58-106	
2-Fluorobiphenyl (S)	%			64	10-115	
Terphenyl-d14 (S)	%			80	10-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1684264 1684265

Parameter	Units	40168099006 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	<4.0	333	333	208	197	62	59	41-99	5	30	
2-Methylnaphthalene	ug/kg	<5.0	333	333	200	196	60	59	41-91	2	27	
Acenaphthene	ug/kg	<3.9	333	333	198	197	59	59	46-98	0	25	
Acenaphthylene	ug/kg	<3.3	333	333	195	193	58	58	43-96	1	26	
Anthracene	ug/kg	<5.7	333	333	204	209	61	63	44-105	3	29	
Benzo(a)anthracene	ug/kg	<3.2	333	333	206	211	62	64	39-98	3	29	
Benzo(a)pyrene	ug/kg	<2.5	333	333	210	210	63	63	38-100	0	35	
Benzo(b)fluoranthene	ug/kg	<2.8	333	333	245	209	74	63	32-105	16	34	
Benzo(g,h,i)perylene	ug/kg	<2.0	333	333	138	136	41	41	12-103	2	35	
Benzo(k)fluoranthene	ug/kg	<2.5	333	333	200	244	60	73	30-115	20	37	
Chrysene	ug/kg	<3.4	333	333	214	219	64	66	46-102	2	27	
Dibenz(a,h)anthracene	ug/kg	<2.2	333	333	173	173	52	52	32-97	0	35	
Fluoranthene	ug/kg	<5.2	333	333	215	221	65	66	32-118	3	37	
Fluorene	ug/kg	<4.1	333	333	196	197	59	59	44-99	0	28	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.2	333	333	170	169	51	51	20-111	0	33	
Naphthalene	ug/kg	<8.4	333	333	204	199	61	59	39-97	3	30	
Phenanthrene	ug/kg	<11.7	333	333	212	215	63	64	34-110	1	39	
Pyrene	ug/kg	<4.5	333	333	209	215	63	65	37-109	3	33	
2-Fluorobiphenyl (S)	%						55	56	10-115			
Terphenyl-d14 (S)	%						67	71	10-121			

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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: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

QC Batch: 287862 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40168281001, 40168281002

SAMPLE DUPLICATE: 1684182

Parameter	Units	40168201005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.4	13.1	6	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: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

QC Batch: 287963 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40168281003, 40168281004, 40168281005, 40168281006

SAMPLE DUPLICATE: 1684692

Parameter	Units	40168541001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.9	4.0	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: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
W	Non-detect results are reported on a wet weight basis.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168281

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40168281001	**HA-2 (12-14")**	EPA 3050	287654	EPA 6010	287837
40168281002	**HA-4 (12-14")**	EPA 3050	287654	EPA 6010	287837
40168281003	**HA-6 (12-14")**	EPA 3050	287654	EPA 6010	287837
40168281004	**HA-8 (12-14")**	EPA 3050	287654	EPA 6010	287837
40168281005	**HA-10 (12-14")**	EPA 3050	287654	EPA 6010	287837
40168281006	**HA-12 (12-14")**	EPA 3050	287654	EPA 6010	287837
40168281001	**HA-2 (12-14")**	EPA 7471	287677	EPA 7471	287771
40168281002	**HA-4 (12-14")**	EPA 7471	287677	EPA 7471	287771
40168281003	**HA-6 (12-14")**	EPA 7471	287677	EPA 7471	287771
40168281004	**HA-8 (12-14")**	EPA 7471	287677	EPA 7471	287771
40168281005	**HA-10 (12-14")**	EPA 7471	287677	EPA 7471	287771
40168281006	**HA-12 (12-14")**	EPA 7471	287678	EPA 7471	287773
40168281001	**HA-2 (12-14")**	EPA 3546	287886	EPA 8270 by SIM	287920
40168281002	**HA-4 (12-14")**	EPA 3546	287886	EPA 8270 by SIM	287920
40168281003	**HA-6 (12-14")**	EPA 3546	287886	EPA 8270 by SIM	287920
40168281004	**HA-8 (12-14")**	EPA 3546	287886	EPA 8270 by SIM	287920
40168281005	**HA-10 (12-14")**	EPA 3546	287886	EPA 8270 by SIM	287920
40168281006	**HA-12 (12-14")**	EPA 3546	287886	EPA 8270 by SIM	287920
40168281001	**HA-2 (12-14")**	EPA 5035/5030B	287638	EPA 8260	287640
40168281002	**HA-4 (12-14")**	EPA 5035/5030B	287638	EPA 8260	287640
40168281003	**HA-6 (12-14")**	EPA 5035/5030B	287638	EPA 8260	287640
40168281004	**HA-8 (12-14")**	EPA 5035/5030B	287638	EPA 8260	287640
40168281005	**HA-10 (12-14")**	EPA 5035/5030B	287638	EPA 8260	287640
40168281006	**HA-12 (12-14")**	EPA 5035/5030B	287638	EPA 8260	287640
40168281007	**TRIP BLANK**	EPA 5035/5030B	287638	EPA 8260	287640
40168281001	**HA-2 (12-14")**	ASTM D2974-87	287862		
40168281002	**HA-4 (12-14")**	ASTM D2974-87	287862		
40168281003	**HA-6 (12-14")**	ASTM D2974-87	287963		
40168281004	**HA-8 (12-14")**	ASTM D2974-87	287963		
40168281005	**HA-10 (12-14")**	ASTM D2974-87	287963		
40168281006	**HA-12 (12-14")**	ASTM D2974-87	287963		

(Please Print Clearly)

Company Name:	RAMBOLL
Branch/Location:	BROOKFIELD, WI
Project Contact:	SUSAN PETROFSKE
Phone:	(262) 901-3501
Project Number:	1690007787
Project Name:	SCHROEDER FIELD
Project State:	WI
Sampled By (Print):	SAM ACKER
Sampled By (Sign):	[signature]
PO #:	
Regulatory Program:	

Pace Analytical® www.pacelabs.com

CHAIN OF CUSTODY

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of 1

40168281

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

Quote #:	
Mail To Contact:	SUSAN PETROFSKE
Mail To Company:	RAMBOLL
Mail To Address:	175 N CORPORATE DR SUITE 160 BROOKFIELD, WI 53045
Invoice To Contact:	SUSAN PETROFSKE
Invoice To Company:	RAMBOLL
Invoice To Address:	175 N CORPORATE DR SUITE 160 BROOKFIELD, WI 53045
Invoice To Phone:	(262) 901-3501

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

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

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

					Analyses Requested			
FILTERED? (YES/NO)				Y/N	N	N	N	
PRESERVATION (CODE)*				Pick Letter	F	A	A	
PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	VOCs	PAHs	RCRA 8 METALS	CLIENT COMMENTS / LAB COMMENTS (Lab Use Only) / Profile #
001	HA-2 (12-14")	4/30/18	1005	S	X	X	X	
002	HA-4 (12-14")	4/30/18	0945	S	X	X	X	
003	HA-6 (12-14")	4/30/18	1050	S	X	X	X	
004	HA-8 (12-14")	4/30/18	1025	S	X	X	X	
005	HA-10 (12-14")	4/30/18	0915	S	X	X	X	
006	HA-12 (12-14")	4/30/18	1130	S	X	X	X	
007	TRIP BLANK	—	—	—	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed: 5/7/18

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

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

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	4/30/18 1400	Mary Fanning	4/30/18 1430
C Slowinski	5/1/18 0840	[signature] Pace	5/1/18 0840

PACE Project No. 40168281

Receipt Temp = ROD °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

ORIGINAL

C019a(27Jun2006)

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

Sample Preservation Receipt Form

Client Name: Ramboll   Project #

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

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):   Initial when completed: Date/ Time:

Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	Glass							Plastic							Vials						Jars			General									
001																			1		1		1										2.5 / 5 / 10
002																			1		1		1										2.5 / 5 / 10
003																			1		1		1										2.5 / 5 / 10
004																			1		1		1										2.5 / 5 / 10
005																			1		1		1										2.5 / 5 / 10
006																			1		1		1										2.5 / 5 / 10
007																			1														2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

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

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

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

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40168281

40168281

Client Name: RAMBOLL

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 - N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROP /Corr: _____

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

Person examining contents: Date: 5/1/18 Initials: DS

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	☐Yes ☑No ☐N/A	1. Copy used for prelog DS 5/1/18
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: For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No	9. client covered tare weight on vials 5/1/18 TL
-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: -Includes date/time/ID/Analysis Matrix: S	☑Yes ☐No ☐N/A	12.
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: _____

Project Manager Review: _____ **Date:** 5/1/18

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

May 07, 2018

Jeanne Tarvin
Ramboll Environ
175 North Corporate Drive
Suite 160
Brookfield, WI 53045

RE: Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Dear Jeanne Tarvin:
Enclosed are the analytical results for sample(s) received by the laboratory on May 01, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Steven Mleczko
steve.mleczko@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jim Hutchens, Ramboll Environ
Jim Kane, Ramboll Environ
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Susan Petrofske, Ramboll Environ
Scott Tarmann, Ramboll Environ
Abigail M. Wedig, Environ International Corp

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40168282001	**HA-1 (0-3")**	Solid	04/30/18 10:00	05/01/18 08:40
40168282002	**HA-3 (0-3")**	Solid	04/30/18 09:40	05/01/18 08:40
40168282003	**HA-5 (0-3")**	Solid	04/30/18 10:45	05/01/18 08:40
40168282004	**HA-7 (0-3")**	Solid	04/30/18 10:20	05/01/18 08:40
40168282005	**HA-9 (0-3")**	Solid	04/30/18 09:10	05/01/18 08:40
40168282006	**HA-11 (0-3")**	Solid	04/30/18 11:25	05/01/18 08:40
40168282007	**TRIP BLANK**	Solid	04/30/18 00:00	05/01/18 08:40

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SAMPLE ANALYTE COUNT

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40168282001	**HA-1 (0-3")**	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40168282002	**HA-3 (0-3")**	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40168282003	**HA-5 (0-3")**	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40168282004	**HA-7 (0-3")**	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40168282005	**HA-9 (0-3")**	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40168282006	**HA-11 (0-3")**	EPA 6010	JLD	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	65	PASI-G
		ASTM D2974-87	DXS	1	PASI-G
40168282007	**TRIP BLANK**	EPA 8260	SMT	65	PASI-G

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SUMMARY OF DETECTION

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40168282001	**HA-1 (0-3")**					
EPA 6010	Arsenic	9.5	mg/kg	5.6	05/03/18 16:16	
EPA 6010	Barium	95.2	mg/kg	0.56	05/03/18 16:16	
EPA 6010	Cadmium	0.70	mg/kg	0.56	05/03/18 16:16	
EPA 6010	Chromium	23.1	mg/kg	1.1	05/03/18 16:16	
EPA 6010	Lead	127	mg/kg	1.5	05/03/18 16:16	
EPA 7471	Mercury	0.12	mg/kg	0.045	05/03/18 13:59	
EPA 8270 by SIM	Acenaphthene	8.5J	ug/kg	15.7	05/07/18 10:38	
EPA 8270 by SIM	Acenaphthylene	9.9J	ug/kg	13.4	05/07/18 10:38	
EPA 8270 by SIM	Anthracene	36.3	ug/kg	23.1	05/07/18 10:38	
EPA 8270 by SIM	Benzo(a)anthracene	166	ug/kg	12.9	05/07/18 10:38	
EPA 8270 by SIM	Benzo(a)pyrene	190	ug/kg	10.2	05/07/18 10:38	
EPA 8270 by SIM	Benzo(b)fluoranthene	221	ug/kg	11.5	05/07/18 10:38	
EPA 8270 by SIM	Benzo(g,h,i)perylene	126	ug/kg	8.2	05/07/18 10:38	
EPA 8270 by SIM	Benzo(k)fluoranthene	226	ug/kg	10.2	05/07/18 10:38	
EPA 8270 by SIM	Chrysene	220	ug/kg	13.6	05/07/18 10:38	
EPA 8270 by SIM	Dibenz(a,h)anthracene	44.7	ug/kg	9.1	05/07/18 10:38	
EPA 8270 by SIM	Fluoranthene	380	ug/kg	21.2	05/07/18 10:38	
EPA 8270 by SIM	Fluorene	10J	ug/kg	16.8	05/07/18 10:38	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	122	ug/kg	8.9	05/07/18 10:38	
EPA 8270 by SIM	1-Methylnaphthalene	18.3	ug/kg	16.3	05/07/18 10:38	
EPA 8270 by SIM	2-Methylnaphthalene	24.9	ug/kg	20.3	05/07/18 10:38	
EPA 8270 by SIM	Naphthalene	32.7J	ug/kg	34.2	05/07/18 10:38	
EPA 8270 by SIM	Phenanthrene	158	ug/kg	47.3	05/07/18 10:38	
EPA 8270 by SIM	Pyrene	334	ug/kg	18.3	05/07/18 10:38	
ASTM D2974-87	Percent Moisture	18.0	%	0.10	05/04/18 16:06	
40168282002	**HA-3 (0-3")**					
EPA 6010	Arsenic	10.9	mg/kg	5.3	05/03/18 16:18	
EPA 6010	Barium	83.9	mg/kg	0.53	05/03/18 16:18	
EPA 6010	Cadmium	0.81	mg/kg	0.53	05/03/18 16:18	
EPA 6010	Chromium	24.1	mg/kg	1.1	05/03/18 16:18	
EPA 6010	Lead	161	mg/kg	1.4	05/03/18 16:18	
EPA 7471	Mercury	0.24	mg/kg	0.041	05/03/18 14:01	
EPA 8270 by SIM	Acenaphthene	57.7J	ug/kg	75.4	05/07/18 12:05	
EPA 8270 by SIM	Acenaphthylene	22.7J	ug/kg	64.3	05/07/18 12:05	
EPA 8270 by SIM	Anthracene	249	ug/kg	111	05/07/18 12:05	
EPA 8270 by SIM	Benzo(a)anthracene	848	ug/kg	62.0	05/07/18 12:05	
EPA 8270 by SIM	Benzo(a)pyrene	912	ug/kg	48.9	05/07/18 12:05	
EPA 8270 by SIM	Benzo(b)fluoranthene	855	ug/kg	55.0	05/07/18 12:05	
EPA 8270 by SIM	Benzo(g,h,i)perylene	470	ug/kg	39.6	05/07/18 12:05	
EPA 8270 by SIM	Benzo(k)fluoranthene	934	ug/kg	48.9	05/07/18 12:05	
EPA 8270 by SIM	Chrysene	986	ug/kg	65.5	05/07/18 12:05	
EPA 8270 by SIM	Dibenz(a,h)anthracene	175	ug/kg	43.6	05/07/18 12:05	
EPA 8270 by SIM	Fluoranthene	2130	ug/kg	102	05/07/18 12:05	
EPA 8270 by SIM	Fluorene	70.6J	ug/kg	80.7	05/07/18 12:05	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	498	ug/kg	42.9	05/07/18 12:05	
EPA 8270 by SIM	Naphthalene	56.0J	ug/kg	164	05/07/18 12:05	
EPA 8270 by SIM	Phenanthrene	954	ug/kg	227	05/07/18 12:05	

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SUMMARY OF DETECTION

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40168282002	**HA-3 (0-3")**					
EPA 8270 by SIM	Pyrene	1840	ug/kg	87.7	05/07/18 12:05	
ASTM D2974-87	Percent Moisture	14.4	%	0.10	05/04/18 16:07	
40168282003	**HA-5 (0-3")**					
EPA 6010	Arsenic	9.3	mg/kg	5.8	05/03/18 16:21	
EPA 6010	Barium	113	mg/kg	0.58	05/03/18 16:21	
EPA 6010	Cadmium	1.0	mg/kg	0.58	05/03/18 16:21	
EPA 6010	Chromium	25.7	mg/kg	1.2	05/03/18 16:21	
EPA 6010	Lead	350	mg/kg	1.5	05/03/18 16:21	
EPA 7471	Mercury	0.26	mg/kg	0.044	05/03/18 14:04	
EPA 8270 by SIM	Acenaphthene	20.1	ug/kg	15.6	05/07/18 10:55	
EPA 8270 by SIM	Acenaphthylene	16.2	ug/kg	13.3	05/07/18 10:55	
EPA 8270 by SIM	Anthracene	74.8	ug/kg	23.0	05/07/18 10:55	
EPA 8270 by SIM	Benzo(a)anthracene	344	ug/kg	12.8	05/07/18 10:55	
EPA 8270 by SIM	Benzo(a)pyrene	402	ug/kg	10.1	05/07/18 10:55	
EPA 8270 by SIM	Benzo(b)fluoranthene	474	ug/kg	11.4	05/07/18 10:55	
EPA 8270 by SIM	Benzo(g,h,i)perylene	216	ug/kg	8.2	05/07/18 10:55	
EPA 8270 by SIM	Benzo(k)fluoranthene	365	ug/kg	10.1	05/07/18 10:55	
EPA 8270 by SIM	Chrysene	427	ug/kg	13.6	05/07/18 10:55	
EPA 8270 by SIM	Dibenz(a,h)anthracene	82.5	ug/kg	9.0	05/07/18 10:55	
EPA 8270 by SIM	Fluoranthene	840	ug/kg	21.1	05/07/18 10:55	
EPA 8270 by SIM	Fluorene	20.0	ug/kg	16.7	05/07/18 10:55	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	224	ug/kg	8.9	05/07/18 10:55	
EPA 8270 by SIM	1-Methylnaphthalene	25.3	ug/kg	16.2	05/07/18 10:55	
EPA 8270 by SIM	2-Methylnaphthalene	32.6	ug/kg	20.2	05/07/18 10:55	
EPA 8270 by SIM	Naphthalene	47.6	ug/kg	34.0	05/07/18 10:55	
EPA 8270 by SIM	Phenanthrene	349	ug/kg	47.0	05/07/18 10:55	
EPA 8270 by SIM	Pyrene	745	ug/kg	18.2	05/07/18 10:55	
EPA 8260	Methylene Chloride	38.9J	ug/kg	72.6	05/03/18 19:14	
ASTM D2974-87	Percent Moisture	17.3	%	0.10	05/04/18 16:07	
40168282004	**HA-7 (0-3")**					
EPA 6010	Arsenic	9.0	mg/kg	6.1	05/03/18 16:23	
EPA 6010	Barium	138	mg/kg	0.61	05/03/18 16:23	
EPA 6010	Cadmium	0.74	mg/kg	0.61	05/03/18 16:23	
EPA 6010	Chromium	23.1	mg/kg	1.2	05/03/18 16:23	
EPA 6010	Lead	212	mg/kg	1.6	05/03/18 16:23	
EPA 7471	Mercury	0.13	mg/kg	0.044	05/03/18 14:06	
EPA 8270 by SIM	Acenaphthene	279J	ug/kg	318	05/07/18 10:03	
EPA 8270 by SIM	Anthracene	488	ug/kg	468	05/07/18 10:03	
EPA 8270 by SIM	Benzo(a)anthracene	1770	ug/kg	261	05/07/18 10:03	
EPA 8270 by SIM	Benzo(a)pyrene	1880	ug/kg	206	05/07/18 10:03	
EPA 8270 by SIM	Benzo(b)fluoranthene	2030	ug/kg	232	05/07/18 10:03	
EPA 8270 by SIM	Benzo(g,h,i)perylene	1190	ug/kg	167	05/07/18 10:03	
EPA 8270 by SIM	Benzo(k)fluoranthene	1580	ug/kg	206	05/07/18 10:03	
EPA 8270 by SIM	Chrysene	2000	ug/kg	276	05/07/18 10:03	
EPA 8270 by SIM	Dibenz(a,h)anthracene	390	ug/kg	184	05/07/18 10:03	
EPA 8270 by SIM	Fluoranthene	4610	ug/kg	429	05/07/18 10:03	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40168282004	**HA-7 (0-3")**					
EPA 8270 by SIM	Fluorene	172J	ug/kg	340	05/07/18 10:03	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	1120	ug/kg	181	05/07/18 10:03	
EPA 8270 by SIM	Phenanthrene	2370	ug/kg	956	05/07/18 10:03	
EPA 8270 by SIM	Pyrene	3940	ug/kg	370	05/07/18 10:03	
EPA 8260	Methylene Chloride	36.2J	ug/kg	73.9	05/03/18 19:37	
ASTM D2974-87	Percent Moisture	18.8	%	0.10	05/04/18 16:07	
40168282005	**HA-9 (0-3")**					
EPA 6010	Arsenic	7.0	mg/kg	6.0	05/03/18 16:26	
EPA 6010	Barium	81.8	mg/kg	0.60	05/03/18 16:26	
EPA 6010	Cadmium	0.76	mg/kg	0.60	05/03/18 16:26	
EPA 6010	Chromium	21.4	mg/kg	1.2	05/03/18 16:26	
EPA 6010	Lead	188	mg/kg	1.6	05/03/18 16:26	
EPA 7471	Mercury	0.24	mg/kg	0.045	05/03/18 14:08	
EPA 8270 by SIM	Acenaphthene	62.1J	ug/kg	63.5	05/07/18 12:22	
EPA 8270 by SIM	Acenaphthylene	21.9J	ug/kg	54.1	05/07/18 12:22	
EPA 8270 by SIM	Anthracene	169	ug/kg	93.5	05/07/18 12:22	
EPA 8270 by SIM	Benzo(a)anthracene	665	ug/kg	52.2	05/07/18 12:22	
EPA 8270 by SIM	Benzo(a)pyrene	776	ug/kg	41.2	05/07/18 12:22	
EPA 8270 by SIM	Benzo(b)fluoranthene	1030	ug/kg	46.3	05/07/18 12:22	
EPA 8270 by SIM	Benzo(g,h,i)perylene	449	ug/kg	33.3	05/07/18 12:22	
EPA 8270 by SIM	Benzo(k)fluoranthene	672	ug/kg	41.1	05/07/18 12:22	
EPA 8270 by SIM	Chrysene	869	ug/kg	55.1	05/07/18 12:22	
EPA 8270 by SIM	Dibenz(a,h)anthracene	170	ug/kg	36.7	05/07/18 12:22	
EPA 8270 by SIM	Fluoranthene	1740	ug/kg	85.6	05/07/18 12:22	
EPA 8270 by SIM	Fluorene	55.5J	ug/kg	67.9	05/07/18 12:22	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	465	ug/kg	36.1	05/07/18 12:22	
EPA 8270 by SIM	1-Methylnaphthalene	42.3J	ug/kg	65.9	05/07/18 12:22	
EPA 8270 by SIM	2-Methylnaphthalene	53.6J	ug/kg	82.2	05/07/18 12:22	
EPA 8270 by SIM	Naphthalene	66.2J	ug/kg	138	05/07/18 12:22	
EPA 8270 by SIM	Phenanthrene	910	ug/kg	191	05/07/18 12:22	
EPA 8270 by SIM	Pyrene	1460	ug/kg	73.8	05/07/18 12:22	
ASTM D2974-87	Percent Moisture	18.8	%	0.10	05/04/18 16:07	
40168282006	**HA-11 (0-3")**					
EPA 6010	Arsenic	7.8	mg/kg	6.2	05/03/18 16:28	
EPA 6010	Barium	112	mg/kg	0.62	05/03/18 16:28	
EPA 6010	Cadmium	0.83	mg/kg	0.62	05/03/18 16:28	
EPA 6010	Chromium	23.4	mg/kg	1.2	05/03/18 16:28	
EPA 6010	Lead	117	mg/kg	1.6	05/03/18 16:28	
EPA 7471	Mercury	0.17	mg/kg	0.042	05/03/18 14:11	
EPA 8270 by SIM	Acenaphthene	57.0J	ug/kg	83.6	05/07/18 12:39	
EPA 8270 by SIM	Anthracene	187	ug/kg	123	05/07/18 12:39	
EPA 8270 by SIM	Benzo(a)anthracene	815	ug/kg	68.7	05/07/18 12:39	
EPA 8270 by SIM	Benzo(a)pyrene	974	ug/kg	54.2	05/07/18 12:39	
EPA 8270 by SIM	Benzo(b)fluoranthene	1240	ug/kg	61.0	05/07/18 12:39	
EPA 8270 by SIM	Benzo(g,h,i)perylene	558	ug/kg	43.9	05/07/18 12:39	
EPA 8270 by SIM	Benzo(k)fluoranthene	899	ug/kg	54.2	05/07/18 12:39	

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SUMMARY OF DETECTION

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40168282006	**HA-11 (0-3")**					
EPA 8270 by SIM	Chrysene	1100	ug/kg	72.6	05/07/18 12:39	
EPA 8270 by SIM	Dibenz(a,h)anthracene	206	ug/kg	48.3	05/07/18 12:39	
EPA 8270 by SIM	Fluoranthene	2220	ug/kg	113	05/07/18 12:39	
EPA 8270 by SIM	Fluorene	56.8J	ug/kg	89.4	05/07/18 12:39	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	580	ug/kg	47.5	05/07/18 12:39	
EPA 8270 by SIM	1-Methylnaphthalene	64.4J	ug/kg	86.8	05/07/18 12:39	
EPA 8270 by SIM	2-Methylnaphthalene	78.1J	ug/kg	108	05/07/18 12:39	
EPA 8270 by SIM	Naphthalene	88.9J	ug/kg	182	05/07/18 12:39	
EPA 8270 by SIM	Phenanthrene	999	ug/kg	251	05/07/18 12:39	
EPA 8270 by SIM	Pyrene	1870	ug/kg	97.2	05/07/18 12:39	
EPA 8260	Methylene Chloride	32.7J	ug/kg	77.7	05/03/18 21:09	
ASTM D2974-87	Percent Moisture	22.8	%	0.10	05/04/18 16:08	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Sample: HA-1 (0-3") **Lab ID: 40168282001** Collected: 04/30/18 10:00 Received: 05/01/18 08:40 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**9.5**	mg/kg	5.6	1.2	1	05/03/18 07:54	05/03/18 16:16	7440-38-2	
Barium	**95.2**	mg/kg	0.56	0.17	1	05/03/18 07:54	05/03/18 16:16	7440-39-3	
Cadmium	**0.70**	mg/kg	0.56	0.15	1	05/03/18 07:54	05/03/18 16:16	7440-43-9	
Chromium	**23.1**	mg/kg	1.1	0.31	1	05/03/18 07:54	05/03/18 16:16	7440-47-3	
Lead	**127**	mg/kg	1.5	0.48	1	05/03/18 07:54	05/03/18 16:16	7439-92-1	
Selenium	**<1.2**	mg/kg	5.6	1.2	1	05/03/18 07:54	05/03/18 16:16	7782-49-2	
Silver	**<0.38**	mg/kg	1.1	0.38	1	05/03/18 07:54	05/03/18 16:16	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.12**	mg/kg	0.045	0.013	1	05/03/18 07:04	05/03/18 13:59	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**8.5J**	ug/kg	15.7	4.7	1	05/04/18 08:41	05/07/18 10:38	83-32-9	
Acenaphthylene	**9.9J**	ug/kg	13.4	4.0	1	05/04/18 08:41	05/07/18 10:38	208-96-8	
Anthracene	**36.3**	ug/kg	23.1	7.0	1	05/04/18 08:41	05/07/18 10:38	120-12-7	
Benzo(a)anthracene	**166**	ug/kg	12.9	3.9	1	05/04/18 08:41	05/07/18 10:38	56-55-3	
Benzo(a)pyrene	**190**	ug/kg	10.2	3.1	1	05/04/18 08:41	05/07/18 10:38	50-32-8	
Benzo(b)fluoranthene	**221**	ug/kg	11.5	3.4	1	05/04/18 08:41	05/07/18 10:38	205-99-2	
Benzo(g,h,i)perylene	**126**	ug/kg	8.2	2.5	1	05/04/18 08:41	05/07/18 10:38	191-24-2	
Benzo(k)fluoranthene	**226**	ug/kg	10.2	3.1	1	05/04/18 08:41	05/07/18 10:38	207-08-9	
Chrysene	**220**	ug/kg	13.6	4.1	1	05/04/18 08:41	05/07/18 10:38	218-01-9	
Dibenz(a,h)anthracene	**44.7**	ug/kg	9.1	2.7	1	05/04/18 08:41	05/07/18 10:38	53-70-3	
Fluoranthene	**380**	ug/kg	21.2	6.3	1	05/04/18 08:41	05/07/18 10:38	206-44-0	
Fluorene	**10J**	ug/kg	16.8	5.0	1	05/04/18 08:41	05/07/18 10:38	86-73-7	
Indeno(1,2,3-cd)pyrene	**122**	ug/kg	8.9	2.7	1	05/04/18 08:41	05/07/18 10:38	193-39-5	
1-Methylnaphthalene	**18.3**	ug/kg	16.3	4.9	1	05/04/18 08:41	05/07/18 10:38	90-12-0	
2-Methylnaphthalene	**24.9**	ug/kg	20.3	6.1	1	05/04/18 08:41	05/07/18 10:38	91-57-6	
Naphthalene	**32.7J**	ug/kg	34.2	10.3	1	05/04/18 08:41	05/07/18 10:38	91-20-3	
Phenanthrene	**158**	ug/kg	47.3	14.2	1	05/04/18 08:41	05/07/18 10:38	85-01-8	
Pyrene	**334**	ug/kg	18.3	5.5	1	05/04/18 08:41	05/07/18 10:38	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	36	%	10-115		1	05/04/18 08:41	05/07/18 10:38	321-60-8	
Terphenyl-d14 (S)	44	%	10-121		1	05/04/18 08:41	05/07/18 10:38	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/02/18 07:15	05/03/18 20:00	120-82-1	L2,W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Sample: HA-1 (0-3") **Lab ID: 40168282001** Collected: 04/30/18 10:00 Received: 05/01/18 08:40 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								
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/02/18 07:15	05/03/18 20:00	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/02/18 07:15	05/03/18 20:00	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/02/18 07:15	05/03/18 20:00	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/02/18 07:15	05/03/18 20:00	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/02/18 07:15	05/03/18 20:00	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	05/02/18 07:15	05/03/18 20:00	1330-20-7	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/02/18 07:15	05/03/18 20:00	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	104-51-8	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Sample: HA-1 (0-3") **Lab ID: 40168282001** Collected: 04/30/18 10:00 Received: 05/01/18 08:40 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								
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:00	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	68-130		1	05/02/18 07:15	05/03/18 20:00	1868-53-7	
Toluene-d8 (S)	100	%	68-149		1	05/02/18 07:15	05/03/18 20:00	2037-26-5	
4-Bromofluorobenzene (S)	87	%	58-141		1	05/02/18 07:15	05/03/18 20:00	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.0**	%	0.10	0.10	1		05/04/18 16:06		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Sample: HA-3 (0-3") **Lab ID: 40168282002** Collected: 04/30/18 09:40 Received: 05/01/18 08:40 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**10.9**	mg/kg	5.3	1.1	1	05/03/18 07:54	05/03/18 16:18	7440-38-2	
Barium	**83.9**	mg/kg	0.53	0.16	1	05/03/18 07:54	05/03/18 16:18	7440-39-3	
Cadmium	**0.81**	mg/kg	0.53	0.14	1	05/03/18 07:54	05/03/18 16:18	7440-43-9	
Chromium	**24.1**	mg/kg	1.1	0.29	1	05/03/18 07:54	05/03/18 16:18	7440-47-3	
Lead	**161**	mg/kg	1.4	0.46	1	05/03/18 07:54	05/03/18 16:18	7439-92-1	
Selenium	**<1.2**	mg/kg	5.3	1.2	1	05/03/18 07:54	05/03/18 16:18	7782-49-2	
Silver	**<0.36**	mg/kg	1.1	0.36	1	05/03/18 07:54	05/03/18 16:18	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.24**	mg/kg	0.041	0.012	1	05/03/18 07:04	05/03/18 14:01	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**57.7J**	ug/kg	75.4	22.7	5	05/04/18 08:41	05/07/18 12:05	83-32-9	
Acenaphthylene	**22.7J**	ug/kg	64.3	19.3	5	05/04/18 08:41	05/07/18 12:05	208-96-8	
Anthracene	**249**	ug/kg	111	33.4	5	05/04/18 08:41	05/07/18 12:05	120-12-7	
Benzo(a)anthracene	**848**	ug/kg	62.0	18.5	5	05/04/18 08:41	05/07/18 12:05	56-55-3	
Benzo(a)pyrene	**912**	ug/kg	48.9	14.7	5	05/04/18 08:41	05/07/18 12:05	50-32-8	
Benzo(b)fluoranthene	**855**	ug/kg	55.0	16.5	5	05/04/18 08:41	05/07/18 12:05	205-99-2	
Benzo(g,h,i)perylene	**470**	ug/kg	39.6	11.9	5	05/04/18 08:41	05/07/18 12:05	191-24-2	
Benzo(k)fluoranthene	**934**	ug/kg	48.9	14.7	5	05/04/18 08:41	05/07/18 12:05	207-08-9	
Chrysene	**986**	ug/kg	65.5	19.7	5	05/04/18 08:41	05/07/18 12:05	218-01-9	
Dibenz(a,h)anthracene	**175**	ug/kg	43.6	13.1	5	05/04/18 08:41	05/07/18 12:05	53-70-3	
Fluoranthene	**2130**	ug/kg	102	30.5	5	05/04/18 08:41	05/07/18 12:05	206-44-0	
Fluorene	**70.6J**	ug/kg	80.7	24.2	5	05/04/18 08:41	05/07/18 12:05	86-73-7	
Indeno(1,2,3-cd)pyrene	**498**	ug/kg	42.9	12.9	5	05/04/18 08:41	05/07/18 12:05	193-39-5	
1-Methylnaphthalene	**<23.5**	ug/kg	78.4	23.5	5	05/04/18 08:41	05/07/18 12:05	90-12-0	
2-Methylnaphthalene	**<29.3**	ug/kg	97.7	29.3	5	05/04/18 08:41	05/07/18 12:05	91-57-6	
Naphthalene	**56.0J**	ug/kg	164	49.2	5	05/04/18 08:41	05/07/18 12:05	91-20-3	
Phenanthrene	**954**	ug/kg	227	68.1	5	05/04/18 08:41	05/07/18 12:05	85-01-8	
Pyrene	**1840**	ug/kg	87.7	26.4	5	05/04/18 08:41	05/07/18 12:05	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	53	%	10-115		5	05/04/18 08:41	05/07/18 12:05	321-60-8	
Terphenyl-d14 (S)	62	%	10-121		5	05/04/18 08:41	05/07/18 12:05	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/02/18 07:15	05/03/18 20:23	120-82-1	L2,W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Sample: HA-3 (0-3") **Lab ID: 40168282002** Collected: 04/30/18 09:40 Received: 05/01/18 08:40 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								
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/02/18 07:15	05/03/18 20:23	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/02/18 07:15	05/03/18 20:23	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/02/18 07:15	05/03/18 20:23	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/02/18 07:15	05/03/18 20:23	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/02/18 07:15	05/03/18 20:23	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	05/02/18 07:15	05/03/18 20:23	1330-20-7	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/02/18 07:15	05/03/18 20:23	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	104-51-8	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Sample: HA-3 (0-3") **Lab ID: 40168282002** Collected: 04/30/18 09:40 Received: 05/01/18 08:40 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								
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:23	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	96	%	68-130		1	05/02/18 07:15	05/03/18 20:23	1868-53-7	
Toluene-d8 (S)	94	%	68-149		1	05/02/18 07:15	05/03/18 20:23	2037-26-5	
4-Bromofluorobenzene (S)	83	%	58-141		1	05/02/18 07:15	05/03/18 20:23	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.4**	%	0.10	0.10	1		05/04/18 16:07		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Sample: HA-5 (0-3") **Lab ID: 40168282003** Collected: 04/30/18 10:45 Received: 05/01/18 08:40 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**9.3**	mg/kg	5.8	1.2	1	05/03/18 07:54	05/03/18 16:21	7440-38-2	
Barium	**113**	mg/kg	0.58	0.17	1	05/03/18 07:54	05/03/18 16:21	7440-39-3	
Cadmium	**1.0**	mg/kg	0.58	0.15	1	05/03/18 07:54	05/03/18 16:21	7440-43-9	
Chromium	**25.7**	mg/kg	1.2	0.32	1	05/03/18 07:54	05/03/18 16:21	7440-47-3	
Lead	**350**	mg/kg	1.5	0.50	1	05/03/18 07:54	05/03/18 16:21	7439-92-1	
Selenium	**<1.3**	mg/kg	5.8	1.3	1	05/03/18 07:54	05/03/18 16:21	7782-49-2	
Silver	**<0.40**	mg/kg	1.2	0.40	1	05/03/18 07:54	05/03/18 16:21	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.26**	mg/kg	0.044	0.013	1	05/03/18 07:04	05/03/18 14:04	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**20.1**	ug/kg	15.6	4.7	1	05/04/18 08:41	05/07/18 10:55	83-32-9	
Acenaphthylene	**16.2**	ug/kg	13.3	4.0	1	05/04/18 08:41	05/07/18 10:55	208-96-8	
Anthracene	**74.8**	ug/kg	23.0	6.9	1	05/04/18 08:41	05/07/18 10:55	120-12-7	
Benzo(a)anthracene	**344**	ug/kg	12.8	3.8	1	05/04/18 08:41	05/07/18 10:55	56-55-3	
Benzo(a)pyrene	**402**	ug/kg	10.1	3.0	1	05/04/18 08:41	05/07/18 10:55	50-32-8	
Benzo(b)fluoranthene	**474**	ug/kg	11.4	3.4	1	05/04/18 08:41	05/07/18 10:55	205-99-2	
Benzo(g,h,i)perylene	**216**	ug/kg	8.2	2.5	1	05/04/18 08:41	05/07/18 10:55	191-24-2	
Benzo(k)fluoranthene	**365**	ug/kg	10.1	3.0	1	05/04/18 08:41	05/07/18 10:55	207-08-9	
Chrysene	**427**	ug/kg	13.6	4.1	1	05/04/18 08:41	05/07/18 10:55	218-01-9	
Dibenz(a,h)anthracene	**82.5**	ug/kg	9.0	2.7	1	05/04/18 08:41	05/07/18 10:55	53-70-3	
Fluoranthene	**840**	ug/kg	21.1	6.3	1	05/04/18 08:41	05/07/18 10:55	206-44-0	
Fluorene	**20.0**	ug/kg	16.7	5.0	1	05/04/18 08:41	05/07/18 10:55	86-73-7	
Indeno(1,2,3-cd)pyrene	**224**	ug/kg	8.9	2.7	1	05/04/18 08:41	05/07/18 10:55	193-39-5	
1-Methylnaphthalene	**25.3**	ug/kg	16.2	4.9	1	05/04/18 08:41	05/07/18 10:55	90-12-0	
2-Methylnaphthalene	**32.6**	ug/kg	20.2	6.1	1	05/04/18 08:41	05/07/18 10:55	91-57-6	
Naphthalene	**47.6**	ug/kg	34.0	10.2	1	05/04/18 08:41	05/07/18 10:55	91-20-3	
Phenanthrene	**349**	ug/kg	47.0	14.1	1	05/04/18 08:41	05/07/18 10:55	85-01-8	
Pyrene	**745**	ug/kg	18.2	5.5	1	05/04/18 08:41	05/07/18 10:55	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	66	%	10-115		1	05/04/18 08:41	05/07/18 10:55	321-60-8	
Terphenyl-d14 (S)	80	%	10-121		1	05/04/18 08:41	05/07/18 10:55	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/02/18 07:15	05/03/18 19:14	120-82-1	L2,W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Sample: HA-5 (0-3") **Lab ID: 40168282003** Collected: 04/30/18 10:45 Received: 05/01/18 08:40 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								
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/02/18 07:15	05/03/18 19:14	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/02/18 07:15	05/03/18 19:14	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/02/18 07:15	05/03/18 19:14	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/02/18 07:15	05/03/18 19:14	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	1634-04-4	W
Methylene Chloride	**38.9J**	ug/kg	72.6	30.2	1	05/02/18 07:15	05/03/18 19:14	75-09-2	
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/02/18 07:15	05/03/18 19:14	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	05/02/18 07:15	05/03/18 19:14	1330-20-7	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/02/18 07:15	05/03/18 19:14	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	104-51-8	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Sample: HA-5 (0-3") **Lab ID: 40168282003** Collected: 04/30/18 10:45 Received: 05/01/18 08:40 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								
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:14	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	98	%	68-130		1	05/02/18 07:15	05/03/18 19:14	1868-53-7	
Toluene-d8 (S)	94	%	68-149		1	05/02/18 07:15	05/03/18 19:14	2037-26-5	
4-Bromofluorobenzene (S)	85	%	58-141		1	05/02/18 07:15	05/03/18 19:14	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.3**	%	0.10	0.10	1		05/04/18 16:07		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Sample: HA-7 (0-3") **Lab ID: 40168282004** Collected: 04/30/18 10:20 Received: 05/01/18 08:40 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**9.0**	mg/kg	6.1	1.3	1	05/03/18 07:54	05/03/18 16:23	7440-38-2	
Barium	**138**	mg/kg	0.61	0.18	1	05/03/18 07:54	05/03/18 16:23	7440-39-3	
Cadmium	**0.74**	mg/kg	0.61	0.16	1	05/03/18 07:54	05/03/18 16:23	7440-43-9	
Chromium	**23.1**	mg/kg	1.2	0.34	1	05/03/18 07:54	05/03/18 16:23	7440-47-3	
Lead	**212**	mg/kg	1.6	0.53	1	05/03/18 07:54	05/03/18 16:23	7439-92-1	
Selenium	**<1.4**	mg/kg	6.1	1.4	1	05/03/18 07:54	05/03/18 16:23	7782-49-2	
Silver	**<0.42**	mg/kg	1.2	0.42	1	05/03/18 07:54	05/03/18 16:23	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.13**	mg/kg	0.044	0.013	1	05/03/18 07:04	05/03/18 14:06	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**279J**	ug/kg	318	95.7	20	05/04/18 08:41	05/07/18 10:03	83-32-9	
Acenaphthylene	**<81.2**	ug/kg	271	81.2	20	05/04/18 08:41	05/07/18 10:03	208-96-8	
Anthracene	**488**	ug/kg	468	141	20	05/04/18 08:41	05/07/18 10:03	120-12-7	
Benzo(a)anthracene	**1770**	ug/kg	261	78.2	20	05/04/18 08:41	05/07/18 10:03	56-55-3	
Benzo(a)pyrene	**1880**	ug/kg	206	61.9	20	05/04/18 08:41	05/07/18 10:03	50-32-8	
Benzo(b)fluoranthene	**2030**	ug/kg	232	69.6	20	05/04/18 08:41	05/07/18 10:03	205-99-2	
Benzo(g,h,i)perylene	**1190**	ug/kg	167	50.1	20	05/04/18 08:41	05/07/18 10:03	191-24-2	
Benzo(k)fluoranthene	**1580**	ug/kg	206	61.8	20	05/04/18 08:41	05/07/18 10:03	207-08-9	
Chrysene	**2000**	ug/kg	276	83.1	20	05/04/18 08:41	05/07/18 10:03	218-01-9	
Dibenz(a,h)anthracene	**390**	ug/kg	184	55.1	20	05/04/18 08:41	05/07/18 10:03	53-70-3	
Fluoranthene	**4610**	ug/kg	429	128	20	05/04/18 08:41	05/07/18 10:03	206-44-0	
Fluorene	**172J**	ug/kg	340	102	20	05/04/18 08:41	05/07/18 10:03	86-73-7	
Indeno(1,2,3-cd)pyrene	**1120**	ug/kg	181	54.2	20	05/04/18 08:41	05/07/18 10:03	193-39-5	
1-Methylnaphthalene	**<99.2**	ug/kg	330	99.2	20	05/04/18 08:41	05/07/18 10:03	90-12-0	
2-Methylnaphthalene	**<123**	ug/kg	412	123	20	05/04/18 08:41	05/07/18 10:03	91-57-6	
Naphthalene	**<208**	ug/kg	693	208	20	05/04/18 08:41	05/07/18 10:03	91-20-3	
Phenanthrene	**2370**	ug/kg	956	287	20	05/04/18 08:41	05/07/18 10:03	85-01-8	
Pyrene	**3940**	ug/kg	370	111	20	05/04/18 08:41	05/07/18 10:03	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	37	%	10-115		20	05/04/18 08:41	05/07/18 10:03	321-60-8	
Terphenyl-d14 (S)	43	%	10-121		20	05/04/18 08:41	05/07/18 10:03	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/02/18 07:15	05/03/18 19:37	120-82-1	L2,W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Sample: HA-7 (0-3") **Lab ID: 40168282004** Collected: 04/30/18 10:20 Received: 05/01/18 08:40 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								
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/02/18 07:15	05/03/18 19:37	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/02/18 07:15	05/03/18 19:37	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/02/18 07:15	05/03/18 19:37	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/02/18 07:15	05/03/18 19:37	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	1634-04-4	W
Methylene Chloride	**36.2J**	ug/kg	73.9	30.8	1	05/02/18 07:15	05/03/18 19:37	75-09-2	
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/02/18 07:15	05/03/18 19:37	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	05/02/18 07:15	05/03/18 19:37	1330-20-7	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/02/18 07:15	05/03/18 19:37	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	104-51-8	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Sample: HA-7 (0-3") **Lab ID: 40168282004** Collected: 04/30/18 10:20 Received: 05/01/18 08:40 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								
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 19:37	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	108	%	68-130		1	05/02/18 07:15	05/03/18 19:37	1868-53-7	
Toluene-d8 (S)	105	%	68-149		1	05/02/18 07:15	05/03/18 19:37	2037-26-5	
4-Bromofluorobenzene (S)	92	%	58-141		1	05/02/18 07:15	05/03/18 19:37	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.8**	%	0.10	0.10	1		05/04/18 16:07		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Sample: HA-9 (0-3") **Lab ID: 40168282005** Collected: 04/30/18 09:10 Received: 05/01/18 08:40 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**7.0**	mg/kg	6.0	1.3	1	05/03/18 07:54	05/03/18 16:26	7440-38-2	
Barium	**81.8**	mg/kg	0.60	0.18	1	05/03/18 07:54	05/03/18 16:26	7440-39-3	
Cadmium	**0.76**	mg/kg	0.60	0.16	1	05/03/18 07:54	05/03/18 16:26	7440-43-9	
Chromium	**21.4**	mg/kg	1.2	0.33	1	05/03/18 07:54	05/03/18 16:26	7440-47-3	
Lead	**188**	mg/kg	1.6	0.52	1	05/03/18 07:54	05/03/18 16:26	7439-92-1	
Selenium	**<1.3**	mg/kg	6.0	1.3	1	05/03/18 07:54	05/03/18 16:26	7782-49-2	
Silver	**<0.41**	mg/kg	1.2	0.41	1	05/03/18 07:54	05/03/18 16:26	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.24**	mg/kg	0.045	0.013	1	05/03/18 07:04	05/03/18 14:08	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**62.1J**	ug/kg	63.5	19.1	4	05/04/18 08:41	05/07/18 12:22	83-32-9	
Acenaphthylene	**21.9J**	ug/kg	54.1	16.2	4	05/04/18 08:41	05/07/18 12:22	208-96-8	
Anthracene	**169**	ug/kg	93.5	28.1	4	05/04/18 08:41	05/07/18 12:22	120-12-7	
Benzo(a)anthracene	**665**	ug/kg	52.2	15.6	4	05/04/18 08:41	05/07/18 12:22	56-55-3	
Benzo(a)pyrene	**776**	ug/kg	41.2	12.4	4	05/04/18 08:41	05/07/18 12:22	50-32-8	
Benzo(b)fluoranthene	**1030**	ug/kg	46.3	13.9	4	05/04/18 08:41	05/07/18 12:22	205-99-2	
Benzo(g,h,i)perylene	**449**	ug/kg	33.3	10	4	05/04/18 08:41	05/07/18 12:22	191-24-2	
Benzo(k)fluoranthene	**672**	ug/kg	41.1	12.3	4	05/04/18 08:41	05/07/18 12:22	207-08-9	
Chrysene	**869**	ug/kg	55.1	16.6	4	05/04/18 08:41	05/07/18 12:22	218-01-9	
Dibenz(a,h)anthracene	**170**	ug/kg	36.7	11.0	4	05/04/18 08:41	05/07/18 12:22	53-70-3	
Fluoranthene	**1740**	ug/kg	85.6	25.6	4	05/04/18 08:41	05/07/18 12:22	206-44-0	
Fluorene	**55.5J**	ug/kg	67.9	20.4	4	05/04/18 08:41	05/07/18 12:22	86-73-7	
Indeno(1,2,3-cd)pyrene	**465**	ug/kg	36.1	10.8	4	05/04/18 08:41	05/07/18 12:22	193-39-5	
1-Methylnaphthalene	**42.3J**	ug/kg	65.9	19.8	4	05/04/18 08:41	05/07/18 12:22	90-12-0	
2-Methylnaphthalene	**53.6J**	ug/kg	82.2	24.6	4	05/04/18 08:41	05/07/18 12:22	91-57-6	
Naphthalene	**66.2J**	ug/kg	138	41.4	4	05/04/18 08:41	05/07/18 12:22	91-20-3	
Phenanthrene	**910**	ug/kg	191	57.3	4	05/04/18 08:41	05/07/18 12:22	85-01-8	
Pyrene	**1460**	ug/kg	73.8	22.2	4	05/04/18 08:41	05/07/18 12:22	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	39	%	10-115		4	05/04/18 08:41	05/07/18 12:22	321-60-8	
Terphenyl-d14 (S)	46	%	10-121		4	05/04/18 08:41	05/07/18 12:22	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/02/18 07:15	05/03/18 20:46	120-82-1	L2,W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Sample: HA-9 (0-3") **Lab ID: 40168282005** Collected: 04/30/18 09:10 Received: 05/01/18 08:40 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								
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/02/18 07:15	05/03/18 20:46	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/02/18 07:15	05/03/18 20:46	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/02/18 07:15	05/03/18 20:46	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/02/18 07:15	05/03/18 20:46	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/02/18 07:15	05/03/18 20:46	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	05/02/18 07:15	05/03/18 20:46	1330-20-7	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/02/18 07:15	05/03/18 20:46	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	104-51-8	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Sample: HA-9 (0-3") **Lab ID: 40168282005** Collected: 04/30/18 09:10 Received: 05/01/18 08:40 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								
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 20:46	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	105	%	68-130		1	05/02/18 07:15	05/03/18 20:46	1868-53-7	
Toluene-d8 (S)	105	%	68-149		1	05/02/18 07:15	05/03/18 20:46	2037-26-5	
4-Bromofluorobenzene (S)	95	%	58-141		1	05/02/18 07:15	05/03/18 20:46	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.8**	%	0.10	0.10	1		05/04/18 16:07		

REPORT OF LABORATORY ANALYSIS

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

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Sample: HA-11 (0-3") **Lab ID: 40168282006** Collected: 04/30/18 11:25 Received: 05/01/18 08:40 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**7.8**	mg/kg	6.2	1.3	1	05/03/18 07:54	05/03/18 16:28	7440-38-2	
Barium	**112**	mg/kg	0.62	0.19	1	05/03/18 07:54	05/03/18 16:28	7440-39-3	
Cadmium	**0.83**	mg/kg	0.62	0.16	1	05/03/18 07:54	05/03/18 16:28	7440-43-9	
Chromium	**23.4**	mg/kg	1.2	0.34	1	05/03/18 07:54	05/03/18 16:28	7440-47-3	
Lead	**117**	mg/kg	1.6	0.53	1	05/03/18 07:54	05/03/18 16:28	7439-92-1	
Selenium	**<1.4**	mg/kg	6.2	1.4	1	05/03/18 07:54	05/03/18 16:28	7782-49-2	
Silver	**<0.42**	mg/kg	1.2	0.42	1	05/03/18 07:54	05/03/18 16:28	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.17**	mg/kg	0.042	0.013	1	05/03/18 07:04	05/03/18 14:11	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**57.0J**	ug/kg	83.6	25.1	5	05/04/18 08:41	05/07/18 12:39	83-32-9	
Acenaphthylene	**<21.4**	ug/kg	71.3	21.4	5	05/04/18 08:41	05/07/18 12:39	208-96-8	
Anthracene	**187**	ug/kg	123	37.0	5	05/04/18 08:41	05/07/18 12:39	120-12-7	
Benzo(a)anthracene	**815**	ug/kg	68.7	20.5	5	05/04/18 08:41	05/07/18 12:39	56-55-3	
Benzo(a)pyrene	**974**	ug/kg	54.2	16.3	5	05/04/18 08:41	05/07/18 12:39	50-32-8	
Benzo(b)fluoranthene	**1240**	ug/kg	61.0	18.3	5	05/04/18 08:41	05/07/18 12:39	205-99-2	
Benzo(g,h,i)perylene	**558**	ug/kg	43.9	13.2	5	05/04/18 08:41	05/07/18 12:39	191-24-2	
Benzo(k)fluoranthene	**899**	ug/kg	54.2	16.3	5	05/04/18 08:41	05/07/18 12:39	207-08-9	
Chrysene	**1100**	ug/kg	72.6	21.8	5	05/04/18 08:41	05/07/18 12:39	218-01-9	
Dibenz(a,h)anthracene	**206**	ug/kg	48.3	14.5	5	05/04/18 08:41	05/07/18 12:39	53-70-3	
Fluoranthene	**2220**	ug/kg	113	33.7	5	05/04/18 08:41	05/07/18 12:39	206-44-0	
Fluorene	**56.8J**	ug/kg	89.4	26.8	5	05/04/18 08:41	05/07/18 12:39	86-73-7	
Indeno(1,2,3-cd)pyrene	**580**	ug/kg	47.5	14.2	5	05/04/18 08:41	05/07/18 12:39	193-39-5	
1-Methylnaphthalene	**64.4J**	ug/kg	86.8	26.1	5	05/04/18 08:41	05/07/18 12:39	90-12-0	
2-Methylnaphthalene	**78.1J**	ug/kg	108	32.4	5	05/04/18 08:41	05/07/18 12:39	91-57-6	
Naphthalene	**88.9J**	ug/kg	182	54.6	5	05/04/18 08:41	05/07/18 12:39	91-20-3	
Phenanthrene	**999**	ug/kg	251	75.5	5	05/04/18 08:41	05/07/18 12:39	85-01-8	
Pyrene	**1870**	ug/kg	97.2	29.2	5	05/04/18 08:41	05/07/18 12:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	41	%	10-115		5	05/04/18 08:41	05/07/18 12:39	321-60-8	
Terphenyl-d14 (S)	49	%	10-121		5	05/04/18 08:41	05/07/18 12:39	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/02/18 07:15	05/03/18 21:09	120-82-1	L2,W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Sample: HA-11 (0-3") **Lab ID: 40168282006** Collected: 04/30/18 11:25 Received: 05/01/18 08:40 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								
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/02/18 07:15	05/03/18 21:09	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/02/18 07:15	05/03/18 21:09	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/02/18 07:15	05/03/18 21:09	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/02/18 07:15	05/03/18 21:09	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	1634-04-4	W
Methylene Chloride	**32.7J**	ug/kg	77.7	32.4	1	05/02/18 07:15	05/03/18 21:09	75-09-2	
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/02/18 07:15	05/03/18 21:09	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	05/02/18 07:15	05/03/18 21:09	1330-20-7	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/02/18 07:15	05/03/18 21:09	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	104-51-8	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Sample: HA-11 (0-3") **Lab ID: 40168282006** Collected: 04/30/18 11:25 Received: 05/01/18 08:40 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								
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 21:09	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	98	%	68-130		1	05/02/18 07:15	05/03/18 21:09	1868-53-7	
Toluene-d8 (S)	100	%	68-149		1	05/02/18 07:15	05/03/18 21:09	2037-26-5	
4-Bromofluorobenzene (S)	86	%	58-141		1	05/02/18 07:15	05/03/18 21:09	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.8**	%	0.10	0.10	1		05/04/18 16:08		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Sample: TRIP BLANK **Lab ID: 40168282007** Collected: 04/30/18 00:00 Received: 05/01/18 08:40 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/02/18 07:15	05/03/18 18:04	120-82-1	L2,W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/02/18 07:15	05/03/18 18:04	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/02/18 07:15	05/03/18 18:04	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/02/18 07:15	05/03/18 18:04	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/02/18 07:15	05/03/18 18:04	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/02/18 07:15	05/03/18 18:04	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Sample: TRIP BLANK **Lab ID: 40168282007** Collected: 04/30/18 00:00 Received: 05/01/18 08:40 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								
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	05/02/18 07:15	05/03/18 18:04	1330-20-7	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/02/18 07:15	05/03/18 18:04	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/02/18 07:15	05/03/18 18:04	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	78	%	68-130		1	05/02/18 07:15	05/03/18 18:04	1868-53-7	
Toluene-d8 (S)	76	%	68-149		1	05/02/18 07:15	05/03/18 18:04	2037-26-5	
4-Bromofluorobenzene (S)	76	%	58-141		1	05/02/18 07:15	05/03/18 18:04	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: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

QC Batch: 287678 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 40168282001, 40168282002, 40168282003, 40168282004, 40168282005, 40168282006

METHOD BLANK: 1683004 Matrix: Solid
Associated Lab Samples: 40168282001, 40168282002, 40168282003, 40168282004, 40168282005, 40168282006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.011	0.037	05/03/18 13:10	

LABORATORY CONTROL SAMPLE: 1683005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.83	0.85	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1683006 1683007

Parameter	Units	40167930001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.13	.94	.94	1.2	1.1	113	105	85-115	6	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

QC Batch: 287654 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40168282001, 40168282002, 40168282003, 40168282004, 40168282005, 40168282006

METHOD BLANK: 1682920 Matrix: Solid
Associated Lab Samples: 40168282001, 40168282002, 40168282003, 40168282004, 40168282005, 40168282006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.0	5.0	05/03/18 15:44	
Barium	mg/kg	<0.15	0.50	05/03/18 15:44	
Cadmium	mg/kg	<0.13	0.50	05/03/18 15:44	
Chromium	mg/kg	<0.28	1.0	05/03/18 15:44	
Lead	mg/kg	<0.43	1.3	05/03/18 15:44	
Selenium	mg/kg	<1.1	5.0	05/03/18 15:44	
Silver	mg/kg	<0.34	1.0	05/03/18 15:44	

LABORATORY CONTROL SAMPLE: 1682921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	49.5	99	80-120	
Barium	mg/kg	50	48.8	98	80-120	
Cadmium	mg/kg	50	49.4	99	80-120	
Chromium	mg/kg	50	48.0	96	80-120	
Lead	mg/kg	50	47.8	96	80-120	
Selenium	mg/kg	50	50.1	100	80-120	
Silver	mg/kg	25	24.3	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1682922 1682923

Parameter	Units	40168272001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	3.8J	49.8	49.9	48.8	50.1	90	93	75-125	3	20	
Barium	mg/kg	20.0	49.8	49.9	66.5	67.9	93	96	75-125	2	20	
Cadmium	mg/kg	<0.13	49.8	49.9	48.4	48.8	97	97	75-125	1	20	
Chromium	mg/kg	10.7	49.8	49.9	53.2	53.6	85	86	75-125	1	20	
Lead	mg/kg	3.2	49.8	49.9	47.1	46.4	88	86	75-125	2	20	
Selenium	mg/kg	<1.1	49.8	49.9	47.6	47.0	96	94	75-125	1	20	
Silver	mg/kg	<0.34	24.9	25	23.9	24.2	96	97	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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QUALITY CONTROL DATA

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

QC Batch: 287638 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40168282001, 40168282002, 40168282003, 40168282004, 40168282005, 40168282006, 40168282007

METHOD BLANK: 1682849 Matrix: Solid
Associated Lab Samples: 40168282001, 40168282002, 40168282003, 40168282004, 40168282005, 40168282006, 40168282007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	05/02/18 11:13	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	05/02/18 11:13	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	05/02/18 11:13	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	05/02/18 11:13	
1,1-Dichloroethane	ug/kg	<17.6	50.0	05/02/18 11:13	
1,1-Dichloroethene	ug/kg	<17.6	50.0	05/02/18 11:13	
1,1-Dichloropropene	ug/kg	<14.0	50.0	05/02/18 11:13	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	05/02/18 11:13	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	05/02/18 11:13	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	05/02/18 11:13	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	05/02/18 11:13	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	05/02/18 11:13	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	05/02/18 11:13	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	05/02/18 11:13	
1,2-Dichloroethane	ug/kg	<15.0	50.0	05/02/18 11:13	
1,2-Dichloropropane	ug/kg	<16.8	50.0	05/02/18 11:13	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	05/02/18 11:13	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	05/02/18 11:13	
1,3-Dichloropropane	ug/kg	<12.0	50.0	05/02/18 11:13	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	05/02/18 11:13	
2,2-Dichloropropane	ug/kg	<12.6	50.0	05/02/18 11:13	
2-Chlorotoluene	ug/kg	<15.8	50.0	05/02/18 11:13	
4-Chlorotoluene	ug/kg	<13.0	50.0	05/02/18 11:13	
Benzene	ug/kg	<9.2	20.0	05/02/18 11:13	
Bromobenzene	ug/kg	<20.6	50.0	05/02/18 11:13	
Bromochloromethane	ug/kg	<21.4	50.0	05/02/18 11:13	
Bromodichloromethane	ug/kg	<9.8	50.0	05/02/18 11:13	
Bromoform	ug/kg	<19.8	50.0	05/02/18 11:13	
Bromomethane	ug/kg	<69.9	250	05/02/18 11:13	
Carbon tetrachloride	ug/kg	<12.1	50.0	05/02/18 11:13	
Chlorobenzene	ug/kg	<14.8	50.0	05/02/18 11:13	
Chloroethane	ug/kg	<67.0	250	05/02/18 11:13	
Chloroform	ug/kg	<46.4	250	05/02/18 11:13	
Chloromethane	ug/kg	<20.4	50.0	05/02/18 11:13	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	05/02/18 11:13	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	05/02/18 11:13	
Dibromochloromethane	ug/kg	<17.9	50.0	05/02/18 11:13	
Dibromomethane	ug/kg	<19.3	50.0	05/02/18 11:13	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	05/02/18 11:13	
Diisopropyl ether	ug/kg	<17.7	50.0	05/02/18 11:13	
Ethylbenzene	ug/kg	<12.4	50.0	05/02/18 11:13	

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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: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

METHOD BLANK: 1682849 Matrix: Solid
Associated Lab Samples: 40168282001, 40168282002, 40168282003, 40168282004, 40168282005, 40168282006, 40168282007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	05/02/18 11:13	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	05/02/18 11:13	
m&p-Xylene	ug/kg	<34.4	100	05/02/18 11:13	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	05/02/18 11:13	
Methylene Chloride	ug/kg	20.3J	50.0	05/02/18 11:13	
n-Butylbenzene	ug/kg	<10.5	50.0	05/02/18 11:13	
n-Propylbenzene	ug/kg	<11.6	50.0	05/02/18 11:13	
Naphthalene	ug/kg	<40.0	250	05/02/18 11:13	
o-Xylene	ug/kg	<14.0	50.0	05/02/18 11:13	
p-Isopropyltoluene	ug/kg	<12.0	50.0	05/02/18 11:13	
sec-Butylbenzene	ug/kg	<11.9	50.0	05/02/18 11:13	
Styrene	ug/kg	<9.0	50.0	05/02/18 11:13	
tert-Butylbenzene	ug/kg	<9.5	50.0	05/02/18 11:13	
Tetrachloroethene	ug/kg	<12.9	50.0	05/02/18 11:13	
Toluene	ug/kg	<11.2	50.0	05/02/18 11:13	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	05/02/18 11:13	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	05/02/18 11:13	
Trichloroethene	ug/kg	<23.6	50.0	05/02/18 11:13	
Trichlorofluoromethane	ug/kg	<24.7	50.0	05/02/18 11:13	
Vinyl chloride	ug/kg	<21.1	50.0	05/02/18 11:13	
Xylene (Total)	ug/kg	<48.4	150	05/02/18 11:13	
4-Bromofluorobenzene (S)	%	72	58-141	05/02/18 11:13	
Dibromofluoromethane (S)	%	87	68-130	05/02/18 11:13	
Toluene-d8 (S)	%	84	68-149	05/02/18 11:13	

LABORATORY CONTROL SAMPLE: 1682850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	2500	2380	95	70-130	
1,1,1-Trichloroethane	ug/kg	2500	2160	87	61-122	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2390	96	73-130	
1,1,2-Trichloroethane	ug/kg	2500	2320	93	70-130	
1,1-Dichloroethane	ug/kg	2500	2130	85	63-124	
1,1-Dichloroethene	ug/kg	2500	2210	89	53-117	
1,1-Dichloropropene	ug/kg	2500	2090	84	70-130	
1,2,3-Trichlorobenzene	ug/kg	2500	1810	72	70-130	
1,2,3-Trichloropropane	ug/kg	2500	2180	87	74-130	
1,2,4-Trichlorobenzene	ug/kg	2500	1830	73	78-130	L2
1,2,4-Trimethylbenzene	ug/kg	2500	2110	84	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2190	88	49-140	
1,2-Dibromoethane (EDB)	ug/kg	2500	2360	94	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2160	87	70-130	
1,2-Dichloroethane	ug/kg	2500	2030	81	56-135	
1,2-Dichloropropane	ug/kg	2500	2240	90	77-122	

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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: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

LABORATORY CONTROL SAMPLE: 1682850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3,5-Trimethylbenzene	ug/kg	2500	2050	82	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2140	86	70-130	
1,3-Dichloropropane	ug/kg	2500	2200	88	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2170	87	70-130	
2,2-Dichloropropane	ug/kg	2500	2130	85	70-118	
2-Chlorotoluene	ug/kg	2500	2000	80	70-130	
4-Chlorotoluene	ug/kg	2500	2000	80	70-130	
Benzene	ug/kg	2500	2000	80	66-130	
Bromobenzene	ug/kg	2500	2070	83	70-130	
Bromochloromethane	ug/kg	2500	2220	89	70-130	
Bromodichloromethane	ug/kg	2500	2280	91	62-135	
Bromoform	ug/kg	2500	2070	83	68-130	
Bromomethane	ug/kg	2500	2490	99	29-137	
Carbon tetrachloride	ug/kg	2500	2250	90	57-130	
Chlorobenzene	ug/kg	2500	2200	88	70-130	
Chloroethane	ug/kg	2500	2380	95	36-144	
Chloroform	ug/kg	2500	2250	90	69-115	
Chloromethane	ug/kg	2500	2170	87	32-126	
cis-1,2-Dichloroethene	ug/kg	2500	1980	79	65-130	
cis-1,3-Dichloropropene	ug/kg	2500	2300	92	70-130	
Dibromochloromethane	ug/kg	2500	2120	85	70-130	
Dibromomethane	ug/kg	2500	2200	88	70-130	
Dichlorodifluoromethane	ug/kg	2500	1660	66	10-99	
Diisopropyl ether	ug/kg	2500	2170	87	70-130	
Ethylbenzene	ug/kg	2500	2240	90	82-122	
Hexachloro-1,3-butadiene	ug/kg	2500	1830	73	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2120	85	70-130	
m&p-Xylene	ug/kg	5000	4330	87	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2200	88	63-134	
Methylene Chloride	ug/kg	2500	2140	85	56-123	
n-Butylbenzene	ug/kg	2500	1960	78	70-130	
n-Propylbenzene	ug/kg	2500	2010	80	70-130	
Naphthalene	ug/kg	2500	1960	78	70-130	
o-Xylene	ug/kg	2500	2150	86	70-130	
p-Isopropyltoluene	ug/kg	2500	1870	75	70-130	
sec-Butylbenzene	ug/kg	2500	1910	76	70-130	
Styrene	ug/kg	2500	2200	88	70-130	
tert-Butylbenzene	ug/kg	2500	1890	76	70-130	
Tetrachloroethene	ug/kg	2500	2170	87	70-131	
Toluene	ug/kg	2500	2200	88	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2180	87	66-130	
trans-1,3-Dichloropropene	ug/kg	2500	2180	87	68-130	
Trichloroethene	ug/kg	2500	2180	87	70-130	
Trichlorofluoromethane	ug/kg	2500	2320	93	37-149	
Vinyl chloride	ug/kg	2500	2110	84	43-128	
Xylene (Total)	ug/kg	7500	6480	86	70-130	
4-Bromofluorobenzene (S)	%			78	58-141	

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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: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

LABORATORY CONTROL SAMPLE: 1682850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromofluoromethane (S)	%			88	68-130	
Toluene-d8 (S)	%			83	68-149	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1682851 1682852

Parameter	Units	40168281001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	<25.0	1470	1470	1380	1410	94	96	70-130	2	20	
1,1,1-Trichloroethane	ug/kg	<25.0	1470	1470	1150	1130	78	77	57-123	2	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1470	1470	1530	1550	104	105	73-135	1	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1470	1470	1380	1390	94	95	70-130	1	20	
1,1-Dichloroethane	ug/kg	<25.0	1470	1470	1190	1230	81	84	63-124	3	20	
1,1-Dichloroethene	ug/kg	<25.0	1470	1470	1100	1040	75	71	48-117	6	23	
1,1-Dichloropropene	ug/kg	<25.0	1470	1470	1120	1110	76	76	59-130	1	20	
1,2,3-Trichlorobenzene	ug/kg	<25.0	1470	1470	1200	1170	82	80	70-130	3	20	
1,2,3-Trichloropropane	ug/kg	<25.0	1470	1470	1380	1340	94	91	74-135	3	20	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1470	1470	1180	1140	81	78	78-145	4	20	
1,2,4-Trimethylbenzene	ug/kg	<25.0	1470	1470	1220	1200	83	82	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1470	1470	1520	1460	104	99	38-168	4	22	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1470	1470	1360	1330	93	91	70-130	2	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1470	1470	1370	1380	94	94	70-130	0	20	
1,2-Dichloroethane	ug/kg	<25.0	1470	1470	1230	1220	84	83	56-145	1	20	
1,2-Dichloropropane	ug/kg	<25.0	1470	1470	1280	1270	87	86	77-123	1	20	
1,3,5-Trimethylbenzene	ug/kg	<25.0	1470	1470	1190	1180	81	80	70-130	1	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1470	1470	1350	1330	92	90	70-130	2	20	
1,3-Dichloropropane	ug/kg	<25.0	1470	1470	1320	1290	90	88	70-130	3	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1470	1470	1310	1320	90	90	70-130	1	20	
2,2-Dichloropropane	ug/kg	<25.0	1470	1470	1110	1100	76	75	43-118	2	20	
2-Chlorotoluene	ug/kg	<25.0	1470	1470	1220	1190	83	81	70-130	3	20	
4-Chlorotoluene	ug/kg	<25.0	1470	1470	1280	1220	87	83	70-130	5	20	
Benzene	ug/kg	<25.0	1470	1470	1140	1150	78	78	65-130	1	20	
Bromobenzene	ug/kg	<25.0	1470	1470	1280	1300	87	89	70-130	2	20	
Bromochloromethane	ug/kg	<25.0	1470	1470	1350	1300	92	89	70-130	4	20	
Bromodichloromethane	ug/kg	<25.0	1470	1470	1350	1300	92	88	59-141	4	20	
Bromoform	ug/kg	<25.0	1470	1470	1360	1360	93	93	59-141	0	20	
Bromomethane	ug/kg	<69.9	1470	1470	1510	1470	103	100	28-139	2	20	
Carbon tetrachloride	ug/kg	<25.0	1470	1470	1090	1070	74	73	50-130	2	20	
Chlorobenzene	ug/kg	<25.0	1470	1470	1300	1300	89	89	70-130	0	20	
Chloroethane	ug/kg	<67.0	1470	1470	1350	1320	92	90	36-144	2	20	
Chloroform	ug/kg	<46.4	1470	1470	1250	1270	85	86	68-122	2	20	
Chloromethane	ug/kg	<25.0	1470	1470	1250	1240	85	84	30-126	1	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1470	1470	1160	1180	79	80	63-130	1	20	
cis-1,3-Dichloropropene	ug/kg	<25.0	1470	1470	1270	1250	87	85	70-130	2	20	
Dibromochloromethane	ug/kg	<25.0	1470	1470	1350	1360	92	93	66-136	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: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1682851 1682852

Parameter	Units	40168281001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dibromomethane	ug/kg	<25.0	1470	1470	1320	1240	90	85	70-130	6	20	
Dichlorodifluoromethane	ug/kg	<25.0	1470	1470	998	904	68	62	10-99	10	33	
Diisopropyl ether	ug/kg	<25.0	1470	1470	1290	1250	88	85	66-140	3	20	
Ethylbenzene	ug/kg	<25.0	1470	1470	1240	1240	84	85	80-122	0	20	
Hexachloro-1,3-butadiene	ug/kg	<25.0	1470	1470	1140	1060	78	72	56-138	7	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1470	1470	1180	1170	80	80	70-130	1	20	
m&p-Xylene	ug/kg	<50.0	2940	2940	2450	2450	83	83	70-130	0	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1470	1470	1390	1330	95	90	63-134	5	20	
Methylene Chloride	ug/kg	<25.0	1470	1470	1270	1230	85	82	56-127	4	20	
n-Butylbenzene	ug/kg	<25.0	1470	1470	1100	1080	75	74	63-130	2	20	
n-Propylbenzene	ug/kg	<25.0	1470	1470	1150	1140	79	78	69-130	1	20	
Naphthalene	ug/kg	<40.0	1470	1470	1280	1230	87	84	70-130	4	20	
o-Xylene	ug/kg	<25.0	1470	1470	1240	1270	84	87	70-130	3	20	
p-Isopropyltoluene	ug/kg	<25.0	1470	1470	1100	1090	75	74	70-130	2	20	
sec-Butylbenzene	ug/kg	<25.0	1470	1470	1080	1080	74	73	61-130	0	20	
Styrene	ug/kg	<25.0	1470	1470	1270	1250	87	85	70-130	2	20	
tert-Butylbenzene	ug/kg	<25.0	1470	1470	1110	1110	75	75	69-130	0	20	
Tetrachloroethene	ug/kg	<25.0	1470	1470	1210	1120	82	77	70-131	7	20	
Toluene	ug/kg	<25.0	1470	1470	1270	1240	86	85	80-120	2	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1470	1470	1140	1120	78	76	60-130	2	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1470	1470	1360	1370	93	93	68-130	1	20	
Trichloroethene	ug/kg	<25.0	1470	1470	1170	1110	79	76	70-130	5	20	
Trichlorofluoromethane	ug/kg	<25.0	1470	1470	1150	1000	78	68	37-149	14	24	
Vinyl chloride	ug/kg	<25.0	1470	1470	1100	1080	75	73	39-128	3	20	
Xylene (Total)	ug/kg	<75.0	4400	4400	3690	3720	84	84	70-130	1	20	
4-Bromofluorobenzene (S)	%						89	87	58-141			
Dibromofluoromethane (S)	%						96	96	68-130			
Toluene-d8 (S)	%						93	91	68-149			

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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: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

QC Batch: 287886 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40168282001, 40168282002, 40168282003, 40168282004, 40168282005, 40168282006

METHOD BLANK: 1684262 Matrix: Solid
Associated Lab Samples: 40168282001, 40168282002, 40168282003, 40168282004, 40168282005, 40168282006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<4.0	13.4	05/04/18 16:04	
2-Methylnaphthalene	ug/kg	<5.0	16.7	05/04/18 16:04	
Acenaphthene	ug/kg	<3.9	12.9	05/04/18 16:04	
Acenaphthylene	ug/kg	<3.3	11.0	05/04/18 16:04	
Anthracene	ug/kg	<5.7	19.0	05/04/18 16:04	
Benzo(a)anthracene	ug/kg	<3.2	10.6	05/04/18 16:04	
Benzo(a)pyrene	ug/kg	<2.5	8.4	05/04/18 16:04	
Benzo(b)fluoranthene	ug/kg	<2.8	9.4	05/04/18 16:04	
Benzo(g,h,i)perylene	ug/kg	<2.0	6.8	05/04/18 16:04	
Benzo(k)fluoranthene	ug/kg	<2.5	8.4	05/04/18 16:04	
Chrysene	ug/kg	<3.4	11.2	05/04/18 16:04	
Dibenz(a,h)anthracene	ug/kg	<2.2	7.4	05/04/18 16:04	
Fluoranthene	ug/kg	<5.2	17.4	05/04/18 16:04	
Fluorene	ug/kg	<4.1	13.8	05/04/18 16:04	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.2	7.3	05/04/18 16:04	
Naphthalene	ug/kg	<8.4	28.1	05/04/18 16:04	
Phenanthrene	ug/kg	<11.6	38.8	05/04/18 16:04	
Pyrene	ug/kg	<4.5	15.0	05/04/18 16:04	
2-Fluorobiphenyl (S)	%	80	10-115	05/04/18 16:04	
Terphenyl-d14 (S)	%	100	10-121	05/04/18 16:04	

LABORATORY CONTROL SAMPLE: 1684263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	224	67	48-99	
2-Methylnaphthalene	ug/kg	333	220	66	47-91	
Acenaphthene	ug/kg	333	216	65	53-98	
Acenaphthylene	ug/kg	333	213	64	52-96	
Anthracene	ug/kg	333	234	70	55-105	
Benzo(a)anthracene	ug/kg	333	245	74	55-98	
Benzo(a)pyrene	ug/kg	333	240	72	57-100	
Benzo(b)fluoranthene	ug/kg	333	252	76	57-103	
Benzo(g,h,i)perylene	ug/kg	333	218	65	39-103	
Benzo(k)fluoranthene	ug/kg	333	245	73	53-111	
Chrysene	ug/kg	333	250	75	55-102	
Dibenz(a,h)anthracene	ug/kg	333	226	68	47-97	
Fluoranthene	ug/kg	333	242	73	51-118	
Fluorene	ug/kg	333	217	65	55-99	
Indeno(1,2,3-cd)pyrene	ug/kg	333	231	69	47-108	
Naphthalene	ug/kg	333	214	64	48-95	

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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: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

LABORATORY CONTROL SAMPLE: 1684263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	238	71	55-105	
Pyrene	ug/kg	333	235	71	58-106	
2-Fluorobiphenyl (S)	%			64	10-115	
Terphenyl-d14 (S)	%			80	10-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1684264 1684265

Parameter	Units	40168099006 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	<4.0	333	333	208	197	62	59	41-99	5	30	
2-Methylnaphthalene	ug/kg	<5.0	333	333	200	196	60	59	41-91	2	27	
Acenaphthene	ug/kg	<3.9	333	333	198	197	59	59	46-98	0	25	
Acenaphthylene	ug/kg	<3.3	333	333	195	193	58	58	43-96	1	26	
Anthracene	ug/kg	<5.7	333	333	204	209	61	63	44-105	3	29	
Benzo(a)anthracene	ug/kg	<3.2	333	333	206	211	62	64	39-98	3	29	
Benzo(a)pyrene	ug/kg	<2.5	333	333	210	210	63	63	38-100	0	35	
Benzo(b)fluoranthene	ug/kg	<2.8	333	333	245	209	74	63	32-105	16	34	
Benzo(g,h,i)perylene	ug/kg	<2.0	333	333	138	136	41	41	12-103	2	35	
Benzo(k)fluoranthene	ug/kg	<2.5	333	333	200	244	60	73	30-115	20	37	
Chrysene	ug/kg	<3.4	333	333	214	219	64	66	46-102	2	27	
Dibenz(a,h)anthracene	ug/kg	<2.2	333	333	173	173	52	52	32-97	0	35	
Fluoranthene	ug/kg	<5.2	333	333	215	221	65	66	32-118	3	37	
Fluorene	ug/kg	<4.1	333	333	196	197	59	59	44-99	0	28	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.2	333	333	170	169	51	51	20-111	0	33	
Naphthalene	ug/kg	<8.4	333	333	204	199	61	59	39-97	3	30	
Phenanthrene	ug/kg	<11.7	333	333	212	215	63	64	34-110	1	39	
Pyrene	ug/kg	<4.5	333	333	209	215	63	65	37-109	3	33	
2-Fluorobiphenyl (S)	%						55	56	10-115			
Terphenyl-d14 (S)	%						67	71	10-121			

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: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

QC Batch: 287963 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40168282001, 40168282002, 40168282003, 40168282004, 40168282005, 40168282006

SAMPLE DUPLICATE: 1684692

Parameter	Units	40168541001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.9	4.0	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: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
W	Non-detect results are reported on a wet weight basis.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1690007787 SCHROEDER FIELD
Pace Project No.: 40168282

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40168282001	**HA-1 (0-3")**	EPA 3050	287654	EPA 6010	287837
40168282002	**HA-3 (0-3")**	EPA 3050	287654	EPA 6010	287837
40168282003	**HA-5 (0-3")**	EPA 3050	287654	EPA 6010	287837
40168282004	**HA-7 (0-3")**	EPA 3050	287654	EPA 6010	287837
40168282005	**HA-9 (0-3")**	EPA 3050	287654	EPA 6010	287837
40168282006	**HA-11 (0-3")**	EPA 3050	287654	EPA 6010	287837
40168282001	**HA-1 (0-3")**	EPA 7471	287678	EPA 7471	287773
40168282002	**HA-3 (0-3")**	EPA 7471	287678	EPA 7471	287773
40168282003	**HA-5 (0-3")**	EPA 7471	287678	EPA 7471	287773
40168282004	**HA-7 (0-3")**	EPA 7471	287678	EPA 7471	287773
40168282005	**HA-9 (0-3")**	EPA 7471	287678	EPA 7471	287773
40168282006	**HA-11 (0-3")**	EPA 7471	287678	EPA 7471	287773
40168282001	**HA-1 (0-3")**	EPA 3546	287886	EPA 8270 by SIM	287920
40168282002	**HA-3 (0-3")**	EPA 3546	287886	EPA 8270 by SIM	287920
40168282003	**HA-5 (0-3")**	EPA 3546	287886	EPA 8270 by SIM	287920
40168282004	**HA-7 (0-3")**	EPA 3546	287886	EPA 8270 by SIM	287920
40168282005	**HA-9 (0-3")**	EPA 3546	287886	EPA 8270 by SIM	287920
40168282006	**HA-11 (0-3")**	EPA 3546	287886	EPA 8270 by SIM	287920
40168282001	**HA-1 (0-3")**	EPA 5035/5030B	287638	EPA 8260	287640
40168282002	**HA-3 (0-3")**	EPA 5035/5030B	287638	EPA 8260	287640
40168282003	**HA-5 (0-3")**	EPA 5035/5030B	287638	EPA 8260	287640
40168282004	**HA-7 (0-3")**	EPA 5035/5030B	287638	EPA 8260	287640
40168282005	**HA-9 (0-3")**	EPA 5035/5030B	287638	EPA 8260	287640
40168282006	**HA-11 (0-3")**	EPA 5035/5030B	287638	EPA 8260	287640
40168282007	**TRIP BLANK**	EPA 5035/5030B	287638	EPA 8260	287640
40168282001	**HA-1 (0-3")**	ASTM D2974-87	287963		
40168282002	**HA-3 (0-3")**	ASTM D2974-87	287963		
40168282003	**HA-5 (0-3")**	ASTM D2974-87	287963		
40168282004	**HA-7 (0-3")**	ASTM D2974-87	287963		
40168282005	**HA-9 (0-3")**	ASTM D2974-87	287963		
40168282006	**HA-11 (0-3")**	ASTM D2974-87	287963		

Pace Analytical
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of 1

CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	RAMBOLL
Branch/Location:	BROOKFIELD, WI
Project Contact:	SUSAN PETROFSKE
Phone:	(262) 901-3501
Project Number:	1690007787
Project Name:	SCHROEDER FIELD
Project State:	WI
Sampled By (Print):	SAM ACKER
Sampled By (Sign):	Samuel Acker
PO #:	Regulatory Program:

Quote #:	40168282
Mail To Contact:	SUSAN PETROFSKE
Mail To Company:	RAMBOLL
Mail To Address:	175 N CORPORATE DR SUITE 160 BROOKFIELD, WI 53045
Invoice To Contact:	SUSAN PETROFSKE
Invoice To Company:	RAMBOLL
Invoice To Address:	175 N CORPORATE DR SUITE 160 BROOKFIELD, WI 53045
Invoice To Phone:	(262) 901-3501

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOCs	PAHs	RCRA 8 METALS	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	HA-1 (0-3")	4/30/18	1000	S	N	F	X	X	X			
002	HA-3 (0-3")	4/30/18	0940	S	N	A	X	X	X			
003	HA-5 (0-3")	4/30/18	1045	S	N	A	X	X	X			
004	HA-7 (0-3")	4/30/18	1020	S	N	A	X	X	X			
005	HA-9 (0-3")	4/30/18	0910	S	N	A	X	X	X			
006	HA-11 (0-3")	4/30/18	1125	S	N	A	X	X	X			
007	TRIP BLANK	—	—	—	N	A	X					

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed: 5/7/18

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Samuel Acker	4/30/18 1400	Mary Fannin	4/30/18 1430
CS Logistics	5/1/18 0840	NStahs pace	5/1/18 0840

PACE Project No. 40168282
Receipt Temp = ROI °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact

C019a(27Jun2006)
Version 6.0 06/14/06
ORIGINAL

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

Sample Preservation Receipt Form

Client Name: Renost Project # _____

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	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	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
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
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014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

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

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

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

Sample Condition Upon Receipt Form (SCUR)

Project #: **WO#: 40168282**

Client Name: Ramboll

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 - N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROP /Corr: _____

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

Person examining contents: Date: 5/11/18 Initials: DS

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	☐Yes ☑No ☐N/A	1. Copy used for prelog DS 5/11/18
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: For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No	9. Client covered tare weight on vials 5/11/18
-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: -Includes date/time/ID/Analysis Matrix: S	☑Yes ☐No ☐N/A	12.
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: _____

Project Manager Review: _____ **Date:** 5/11/18